

SEATTLE CITY COUNCIL

Public Safety and Human Services Committee

Agenda

Tuesday, June 8, 2021 9:30 AM

Remote Meeting. Call 253-215-8782; Meeting ID: 586 416 9164; or Seattle Channel online.

Lisa Herbold, Chair
M. Lorena González, Vice-Chair
Andrew J. Lewis, Member
Tammy J. Morales, Member
Kshama Sawant, Member
Alex Pedersen, Alternate

Chair Info: 206-684-8801; Lisa.Herbold@seattle.gov

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SEATTLE CITY COUNCIL

Public Safety and Human Services Committee Agenda June 8, 2021 - 9:30 AM

Meeting Location:

Remote Meeting. Call 253-215-8782; Meeting ID: 586 416 9164; or Seattle Channel online.

Committee Website:

http://www.seattle.gov/council/committees/public-safety-and-human-services

This meeting also constitutes a meeting of the City Council, provided that the meeting shall be conducted as a committee meeting under the Council Rules and Procedures, and Council action shall be limited to committee business.

In-person attendance is currently prohibited per Washington State Governor's Proclamation 20-28.15, until the COVID-19 State of Emergency is terminated or Proclamation 20-28 is rescinded by the Governor or State legislature. Meeting participation is limited to access by telephone conference line and online by the Seattle Channel.

Register online to speak during the Public Comment period at the 9:30 a.m Public Safety and Human Services Committee meeting at http://www.seattle.gov/council/committees/public-comment.

Online registration to speak at the Public Safety and Human Services Committee meeting will begin two hours before the 9:30 a.m. meeting start time, and registration will end at the conclusion of the Public Comment period during the meeting. Speakers must be registered in order to be recognized by the Chair.

Submit written comments to Councilmember Lisa Herbold at Lisa.Herbold@seattle.gov

Sign-up to provide Public Comment at the meeting at http://www.seattle.gov/council/committees/public-comment
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Please Note: Times listed are estimated

- A. Call To Order
- B. Approval of the Agenda
- C. Public Comment
- D. Items of Business
- 1. Crisis Response Continuum Roundtable

<u>Supporting</u>

<u>Documents:</u> <u>Crisis Connections Services</u>

Crisis Response Unit Overview

Briefing and Discussion (60 minutes)

Presenters: Fire Chief Harold D. Scoggins, and Jon Ehrenfeld, Seattle

Fire Department; A/Lieutenant Eric Pisconski, Seattle Police

Department; Neil Olson, Nicole Davis, and Michelle McDaniel, Crisis Connections; Tiarra Dearbone, Public Defender Association; Brandie Flood, REACH; Maggie Hostnick, Downtown Emergency Service

Center; Amy Gore, Council Central Staff

2. 2021 Seattle All-Hazards Mitigation Plan

<u>Supporting</u>

Documents: <u>Draft 2021 All-Hazards Mitigation Plan</u>

Presentation (updated; 6/4/21)

Briefing and Discussion (30 minutes)

Presenters: Curry Mayer, Director, and Erika Lund, Seattle Office of

Emergency Management

3. Criminal Legal System Strategic Plan

Supporting

<u>Documents:</u> <u>Criminal Legal System Strategic Plan</u>

Briefing and Discussion (30 minutes)

Presenter: Carlos Lugo, Council Central Staff

E. Adjournment



SEATTLE CITY COUNCIL

600 Fourth Ave. 2nd Floor Seattle, WA 98104

Legislation Text

File #: Inf 1822, Version: 1

Crisis Response Continuum Roundtable

Telephonic Services Provided by Crisis Connections

Crisis Services Regional		Specialty Services	Information and Referral Services
Southeast Washington 1-800-576-7764 Clark, Klickitat, Skamania	WA Warm Line 1-877-500-9276 Mondays - Thursdays 5:00pm - 9:00pm Fridays - Sundays 12:30pm - 9:00pm	WA Warm Line is a peer support help line for people living with emotional and mental health challenges. Calls are answered by specially-trained volunteers who have lived experience with mental health challenges. They have a deep understanding of what you are going through and are here to provide emotional support, comfort, and information. All calls are confidential.	King County 211 Dial 211, email, chat, text King County 2-1-1 connects people
North Central Washington 1-800-852-2923 Grant, Chelan, Douglas, Okanogan	Teen Link 1-866-833-6546 Chat, Call, Text	Teen Link is a confidential and anonymous help line for teens. Trained teen volunteers are available to talk with you about any issue of concern. No issue is too big or too small!	to the help they need. We provide the most comprehensive information on health and human services in King County. Whether it's for housing assistance, help with financial needs, or to find the location of the nearest food bank.
Pierce 1-800-576-7764	WA Recovery Help Line 1-866-789-1511 24/7	The Washington Recovery Help Line is a help line that provides crisis intervention and referral services for Washington State residents. Professionally trained volunteers and staff are available to provide emotional support 24 hours a day, and offer local treatment resources for substance abuse, problem gambling and mental health as well as to other community services.	Who do I call for what?
KC Crisis Line 1-866-427-4747	National Suicide Prevention Lifeline 1-800-273-8255	The Lifeline provides 24/7, free and confidential support for people in distress, prevention and crisis resources for you or your loved ones, and best practices for professionals	crisis connections support · resources · training formerly known as crisis clinic

The Crisis Response Unit's Mission:

To be regarded as an invaluable Department resource which safely and appropriately addresses individuals experiencing a present or recent behavioral health crisis and proficiently navigates the corresponding systems of care, to reduce the likelihood of harm.

- ➤ Our goal is to take a holistic approach to addressing individuals experiencing crisis

 We utilize an Intercept Continuum with options ranging from:
 - ✓ Offering and/or connecting them to social services,
 - ✓ Emergent Detentions for immediate behavioral health care,
 - ✓ Jail diversions for low-level offenses and
 - ✓ Up to incarceration; with Mental Health Court considerations

The CRU's priorities:

- > Safely and effectively assist Patrol with incidents involving persons in Crisis
- Conduct applicable follow-up in criminal & non-criminal cases with a behavioral health nexus
 - Given our staffing and case load, we primarily focus on cases involving:
 - ✓ Individuals presenting the highest likelihood of imminent harm and
 - ✓ Those disproportionate utilizers of 911 services; related to behavioral health issues
- ➤ Vet individuals potentially meeting the criteria for a crisis related Extreme Risk Protection Order (ERPO); petitioning, serving and assessing for renewals
- ➤ Conduct threat assessments and create both Officer Safety & individually tailored Response Plans to assist Patrol
- Make timely referrals to the Designated Crisis Responders (DCR's) per 'Sheena's Law'



SEATTLE CITY COUNCIL

600 Fourth Ave. 2nd Floor Seattle, WA 98104

Legislation Text

File #: Inf 1824, Version: 1

2021 Seattle All-Hazards Mitigation Plan

CITY OF SEATTLE 2021-2026 ALL-HAZARDS MITIGATION PLAN



DRAFT 2/1/2021

V. 1

Prepared by:

City of Seattle

Office of Emergency Management



Vision, Mission, Guiding Principles

In an effort to align planning documents across all phases of emergency management, the City of Seattle Office of Emergency Management has collaboratively developed a vision, mission, and guiding principles that will provide a conceptual framework for all of the plans that support the City's emergency program, including the 2021 update of the City of Seattle All-Hazards Mitigation Plan.

Vision

Disaster ready...prepared people, resilient community

Mission

We partner with the community to prevent, prepare for, respond to, mitigate the impacts of, and recover from disasters.

Guiding Principles

<u>Comprehensive</u>: We consider and take into account all hazards, all phases, all stakeholders, and all impacts relevant to disasters.

<u>Progressive</u>: We anticipate future disasters and take preventive and preparatory measures to build disaster-resistant and disaster-resilient communities.

<u>Risk-Driven</u>: We use sound risk management principles (hazard identification, risk analysis, and impact analysis) in assigning priorities and resources.

Integrated: We ensure unity of effort among all levels of government and all elements of the community.

<u>Collaborative</u>: We create and sustain broad and sincere relationships among individuals and organizations to encourage trust, advocate a team atmosphere, build consensus, and facilitate communication.

<u>Flexible</u>: We use creative and innovative approaches in solving disaster challenges.

<u>Professional</u>: We value a science and knowledge-based approach based on education, training, experience, ethical practice, public stewardship, and continuous improvement.



Memorandum of Promulgation

To be inserted

City Council Resolution

To be inserted

FEMA Letter of Approval

To be inserted

Plan Adoption and Approval

44 CFR §201.6(c)(5) requires that the City of Seattle All-Hazards Mitigation Plan be formally adopted by the Seattle City Council. Council formally adopted the 2021 update of the Seattle All-Hazards Mitigation Plan on [INSERT DATE]. The plan adoption resolution follows.

This plan was approved by the Federal Emergency Management Agency on [INSERT DATE]. The official approval letter follows.

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Acknowledgements

The City of Seattle All-Hazards Mitigation Plan is an ongoing effort of the Seattle Office of Emergency Management to ensure the City's comprehensive approach to preparing for, mitigating the impacts of, responding to, and recovering from a disaster. Preparation of this document, and its continued improvement, requires participation and support from many individuals, agencies, organizations, and businesses. City departments, other agencies, and employees deserve recognition for their efforts to develop this plan.

Additionally, the City would like to acknowledge the efforts of the members of the Seattle Hazard Mitigation Work Group for investment of time and expertise in updating this plan.

Copies of this plan are available online at www.seattle.gov/emergency/publications or by request through the Seattle Office of Emergency Management Recovery and Mitigation Coordinator.

Record of Plan Update and Approval

The City of Seattle All-Hazards Mitigation Plan is required to be updated once every five years and submitted to the City for adoption and the Federal Emergency Management Agency for approval. The City may update the plan on a more frequent basis as needed.

Date of Update	Date of City Adoption	Date of FEMA Approval
July 2009	September 14, 2009	October 14, 2009
May 2015	December 17, 2015	February 11, 2016
[INSERT DATE]	[INSERT DATE]	[INSERT DATE]

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ACRONYMS AND ABBREVIATIONS

City of Seattle Departments

ARTS Office of Arts and Culture

CBO City Budget Office

DON Department of Neighborhoods

FAS Seattle Department of Finance and Administrative Services

HSD Human Services Department

ITD Seattle Information Technology Department

OED Office of Economic Development

OEM Seattle Office of Emergency Management

OH Office of Housing

OPCD Office of Planning and Community Development

OSE Office of Sustainability and Environment

SC Seattle Center

SCL Seattle City Light

SDCI Seattle Department of Construction and Inspections

SDOT Seattle Department of Transportation

SFD Seattle Fire Department

SPD Seattle Police Department

SPL Seattle Public Libraries

SPR Seattle Parks and Recreation

SPU Seattle Public Utilities

Other

ADA Americans with Disabilities Act

BIPOC Black, Indigenous and people of color

BPA Bonneville Power Administration

BRIC Building Resilient Infrastructure and Communities FEMA Grant Program

CIP Capital Improvement Program

CFR Code of Federal Regulations

City City of Seattle

COOP Continuity of Operations

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DMC Disaster Management Committee

DMA Disaster Mitigation Act of 2000

DFIRM Digital Flood Insurance Rate Map

EEB Emergency Executive Board

EMAP Emergency Management Accreditation Program

FEMA Federal Emergency Management Agency

HMGP Hazard Mitigation Grant Program

IOPE Inclusive Outreach and Public Engagement Plan

MWG Mitigation Work Group

NFIP National Flood Insurance Program

PDMC Pre-Disaster Mitigation Competitive Grant Program

PoS Port of Seattle

Seattle HMP City of Seattle All-Hazards Mitigation Plan

SHA Seattle Housing Authority

SHIVA Seattle Hazard Identification and Vulnerability Analysis

SNAP Seattle Neighborhoods Actively Prepare

SPS Seattle Public Schools

Stafford Act Robert T. Stafford Disaster Relief and Emergency Assistance Act of 1988

SWG Strategic Work Group

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1 INTRODUCTION

Chapter 1 describes the authorities and principles that provide the basis for the City of Seattle's (City's) mitigation program as well as provides a description of that organization and how the plan is organized to support it.

The City of Seattle All-Hazards Mitigation Plan (Seattle HMP) is the guiding document for the City's hazard mitigation program. The plan's goal is to identify the hazards of which the City is at risk and identify a comprehensive strategy for minimizing potential losses and maximizing opportunity to increase the community's resiliency. This introductory chapter presents the authorities on which the City's mitigation program is based, the plan's purpose and scope, and plan organization.

1.1 Authority

The Robert T. Stafford Disaster Relief and Emergency Assistance Act of 1988 (Stafford Act), as amended by the Disaster Mitigation Act of 2000 (DMA 2000), Public Law 106-390, and its implementing Code of Federal Regulations (CFR) provisions, 44 CFR § 201, provide the legal authority for local hazard mitigation planning. The DMA 2000 requires state, local, and tribal governments to develop a hazard mitigation plan that identifies the jurisdiction's natural hazards, risks, vulnerabilities, and mitigation strategies. The planning process requirements mandated by the Federal Emergency Management Agency (FEMA) (outlined in 44 CFR §201.6) include the following activities:

- Document the planning process.
- Provide stakeholders with an opportunity to participate.
- Conduct and document public involvement.
- Incorporate existing plans and reports.
- Discuss continued public participation and plan maintenance.
- Provide a method for monitoring, evaluating, and updating the hazard mitigation plan.

Once complete, the hazard mitigation plan must be submitted to FEMA for approval. FEMA's approval of a hazard mitigation plan is a prerequisite for federal Hazard Mitigation Assistance grant program eligibility (outlined in 42 CFR §5165(a)).

The Seattle HMP was prepared in accordance with the requirements of the Stafford Act, as amended by the DMA 2000, and the implementing 44 CFR § 201 provisions. The City will integrate appropriate Americans with Disabilities Act (ADA) standards into mitigation projects and actions implemented as a part of the planning process. For example, alterations to existing facilities, such as seismic retrofits, will comply with all applicable federal accessibility requirements.

1.2 What is Hazard Mitigation?

Hazard mitigation is any sustained action taken to reduce or eliminate the long-term risk to human life and property posed by hazards (44 CFR §201.2). Hazard mitigation activities may be implemented prior to, during, or after an event. However, it has been demonstrated that mitigation is most effective when based on an inclusive, comprehensive, long-term plan that is developed before a disaster occurs (2013 Washington State Enhanced Hazard Mitigation Plan).

Additionally, hazard mitigation planning is one of the five mission areas presented in the National Preparedness Goal: Mitigation, Prevention, Protection, Response, and Recovery. The Seattle HMP is an integral piece of the larger emergency management picture and is intrinsically linked to other existing plans and emergency management activities.

Figure 1 illustrates these five emergency management mission areas and provides highlights of the plans that exist at the local, state, and federal level to support them.

Mitigation Response Recovery National Prevention, **National Mitigation National Disaster Recovery** Framework Protection, and Response Framework **Federal Frameworks Washington State Washington State Enhanced Washington State Disaster** Comprehensive Emergency **Hazard Mitigation Plan Recovery Framework Management Plan** City of Seattle All-Hazards City of Seattle Disaster City of Seattle Mitigation Plan **Recovery Framework Comprehensive Emergency** City of **Management Plan** Seattle

Figure 1 - National Preparedness Goal Mission Areas and Supporting Plans

Mitigation planning is important because it not only encourages communities to become more flexible and adapt to change more easily, but it also:

- Guides mitigation activities in a coordinated and economic manner.
- Integrates mitigation into existing community plans/programs.
- Considers future growth and development trends.
- Makes a community more disaster resilient.
- Ensures eligibility for grant funding.



1.3 Purpose and Scope

1.3.1 Purpose

The Seattle HMP assesses the potential impact of the natural and human-caused hazards to the City of Seattle's (City's) communities and provides mitigation goals and strategies to reduce impacts. The Seattle HMP prioritizes the City's mitigation strategies and includes a comprehensive implementation plan. The overall purpose of the Seattle HMP is to strategically guide actions and investments in such a way as to reduce the impacts of natural and human-caused hazards on human life and property. The efforts that have contributed to the development of the Seattle HMP will lead to a safer, stronger, more survivable, and resilient city. The 2021 Seattle HMP is the required five-year update to the City of Seattle HMP prepared in 2015 and approved by FEMA in 2016. Keeping the Seattle HMP current is a good emergency management practice for the people of Seattle and allows the City to maintain its eligibility for state and federal mitigation funds that support the City's mitigation activities, such as:

- Seismic risk assessments.
- Facility seismic retrofit projects.
- Building redundant and resilient infrastructure.
- Planning for sea level rise and other impacts of climate change.
- Public education efforts surrounding risks of unreinforced masonry buildings.

The City has also focused on improving interdepartmental coordination in this update to ensure that the plan meets the needs of all City departments.

1.3.2 Scope

The Seattle HMP update covers the jurisdiction of the City and its departments, with the intent of benefitting all residents, businesses, and government and nongovernmental partners. It covers all areas within the City limits, as well as City department services and assets outside the City, such as municipal watersheds, water transmission pipelines, and dams.

Priority elements during this update process included:

- Creating dialogue around protecting the people of Seattle and building the City's resilience in the face of both smaller and catastrophic disaster risks.
- Developing an updated all-hazards mitigation plan that reflects the public and stakeholder input received.
- Ensuring that the process is conducted in accordance with FEMA's Local Multi-Hazard Planning Guidance (requirements identified in Title 44 CFR Part 201.6 and Emergency Management Accreditation Program (EMAP) Standard ANSI/EMAP EMS 5-2019.

1.4 City of Seattle Hazard Mitigation Program

The Seattle HMP is just one aspect of the City's comprehensive approach to hazard mitigation, which includes Seattle residents, elected leadership, City departments, and community partners.



1.4.1 **Organization**

Figure 2 illustrates how the City organizes to ensure an engaged and collaborative approach to mitigation planning and program implementation. This organization is informally referred to in this plan as the City's mitigation program.

Seattle Residents Mayor and City Council Office of Emergency Mitigation Work Group Community Partners Management City Departments

Figure 2 - City of Seattle Mitigation Program Organization

1.4.2 Roles and Responsibilities

Seattle Residents

Prepared and educated residents are a critical aspect of the City's resiliency, and the City actively encourages its residents to actively participate in efforts to minimize vulnerability to hazards by engaging in the following activities:

Participate in the City's hazard mitigation program by engaging in the City's preparedness programs. More information can be found at http://www.seattle.gov/emergency-management.

Engage in personal and family preparedness and mitigation activities at home and at work.

Mayor and City Council

Seattle's elected leadership plays a key role in the City's mitigation program. As the City's elected representatives, they are responsible for making balanced policy decisions that enhance the City's resiliency. The Mayor and City Council perform the following activities in support of the City's mitigation program:

- Provide policy direction for the City's hazard mitigation program.
- Adopt the hazard mitigation plan.

Mitigation Work Group

The Mitigation Work Group (MWG) includes members from various City departments and key stakeholders and convenes regularly to monitor, evaluate, and implement the City's mitigation program. While one of the MWG's main purposes is to serve as the primary mechanism for City participation in updating the Seattle HMP, the City intends its role to continue throughout the planning cycle and serve as a driver for the program's success. Key roles of the MWG include:

Support ongoing implementation of the City's hazard mitigation program.



Provide input and technical support for update and maintenance of the Seattle HMP.

See Chapter 2 for a discussion of the role of the MWG in the 2021 update of the Seattle HMP.

Seattle Office of Emergency Management

The Seattle Office of Emergency Management (OEM) serves as the coordinating agency for the City's mitigation program. Under the direction of the OEM Director, the office facilitates mitigation activities, including updates to the Seattle HMP, and provides technical assistance to other City departments. The Director has delegated these coordination and facilitation tasks to the Recovery and Mitigation Coordinator. Key roles of OEM include:

- Facilitate the City's hazard mitigation program.
- Provide technical support to City departments regarding integration of hazard mitigation into department activities.
- Keep the Mayor and City Council apprised of the status of the City's hazard mitigation program.
- Serve as Applicant Agent on behalf of the City to apply for and manage grant awards under FEMA's Hazard Mitigation Assistance programs.

Seattle Departments

The success of the City's mitigation program is dependent on mitigation being a shared endeavor across all organizational elements of the City. City departments are strongly encouraged to incorporate hazard mitigation into their plans and programs and be active participants in the City's efforts to enhance resiliency. Key roles of City departments include:

- Implement actions identified in the Seattle HMP.
- Incorporate hazard mitigation into other departmental planning efforts.
- Assign a representative to serve as a liaison to the MWG.

Community Partners

The City is committed to a collaborative mitigation program that strives to integrate with other community efforts to mitigate the impacts of hazards. While the scope of the Seattle HMP primarily includes City departments, the City will continue to look for opportunities to partner with private industry, nonprofit organizations, and community- and faith-based organizations in its mitigation program. Key roles of community partners include:

- Incorporate hazard mitigation into organizational and business activities.
- To the greatest extent possible, coordinate hazard mitigation activities with those of the City and other community partners.

See Chapter 2 for a discussion of how community partners were engaged in the 2021 update of the Seattle HMP.

1.5 Plan Organization

The 2021 update of the Seattle HMP is organized into the following sections:



- Chapter 1 Introduction. Identifies the authorities on which the plan is based, describes the plan's
 purpose and scope, describes how the plan is organized, and identified changes to the plan since
 2015.
- Chapter 2 Planning Process. Describes the process used to update the plan, including data sources and plan integration activities, outreach and engagement strategies, MWG activities, and plan development milestones.
- Chapter 3 Community Profile. Provides a summary community profile for the City of Seattle
 including geographic, demographic, and economic characteristics that make the City unique. A full
 community profile is provided in the Seattle Hazard Identification and Risk Assessment document in
 Appendix A.
- Chapter 4 Hazard Identification and Vulnerability Analysis. Contains a summary of the hazards that could potentially impact the City, including a hazard ranking table. Full hazard profiles and vulnerability assessment information is provided in the Seattle Hazard Identification and Risk Assessment document in Appendix A.
- Chapter 5 Capability Assessment. Identifies the existing mitigation capabilities of City departments and highlights mitigation accomplishments over the last planning cycle.
- Chapter 6 Mitigation Strategy. Provides updated goals and objectives for the City's mitigation
 program and identifies a comprehensive set of prioritized mitigation actions that would contribute
 to the City's resiliency.
- **Chapter 7 Program Implementation.** Describes the City's plan for monitoring, evaluating, and updating the Seattle HMP over the next five-year period.

1.6 What's New in the 2021 Update?

The 2021 update of the Seattle HMP includes the following major revisions to the 2015 plan:

- As part of the City's ongoing enhancement of its emergency program, the Seattle HMP has been aligned with the current planning standards identified in the Emergency Management Accreditation Program (EMAP).
- The complete text of the updated Seattle Hazard Identification and Vulnerability Analysis (SHIVA) is included in Appendix A. No new hazards were identified, but the ranking of hazards changed, and more discussion of climate change was included.
- To increase public participation for the plan update, the City conducted a community survey that resulted in over 152 responses from across the City. The results of that survey are included in Appendix C.
- The methodology by which mitigation actions are identified and prioritized has been modified. A revised Mitigation Action Worksheet and instructions are provided in Appendix D.

Additionally, to aid in plan review and to ensure that all FEMA planning requirements are met, text box callouts have been inserted into the plan that identify the planning element, based on FEMA's Local Mitigation Plan Review Tool, that is addressed in that particular section of the plan. The plan also strives to make robust use of internal call outs to ensure that plan users can easily find related information. For example, in Chapter 2, which addresses the planning process, the following text box appears:





A1. Does the Plan document the planning process, including how it was prepared and who was involved in the process for [the City of Seattle]? (Requirement §201.6(c)(1))

The City is also in the process of seeking to renew accreditation through the Emergency Management Accreditation Program (EMAP). EMAP includes a series of standards related to hazard mitigation and those standards are addressed throughout the plan.

2 PLANNING PROCESS

Chapter 2 provides a narrative description of the planning process the City conducted to ensure that the City's mitigation strategy was informed by input from key City departments, community partners, and the public. The process was based on principles of strategies for inclusive engagement and integration with existing planning efforts.



A1. Does the Plan document the planning process, including how it was prepared and who was involved in the process for [the City of Seattle]? (Requirement §201.6(c)(1))

A local hazard mitigation plan's organization is driven by the needs of the local community. While the regional FEMA offices provide review and approval of hazard mitigation plans in order for local governments to apply for mitigation project funding, there is no required format for the plan's organization. The following guiding principles are recommended for the development of a local hazard mitigation plan:

- Focus on the mitigation strategy.
- Process is as important as the plan itself.
- Develop the plan in the way that best serves the community's purpose and people.

FEMA recommends nine tasks for developing or updating local hazard mitigation plans. Figure 3 illustrates the nine recommended tasks. Tasks 1 through 3 involve the people and process involved in the all-hazards mitigation plan development or update; Tasks 4 through 8 focus on the analytical and decision steps that need to be taken; and Task 9 includes suggestions for plan implementation.

Figure 3 - FEMA Recommended Local Mitigation Planning Tasks



Source: FEMA Local Mitigation Planning Handbook, March 2013

2.1 Planning Area

The planning area refers the geographic area covered by the plan (FEMA Local Mitigation Planning Handbook 2013). In the case of the Seattle HMP, the planning area includes all areas within the City limits, as well as City department services and assets outside the City, such as the municipal watersheds and dams.

See Figure 4 for a map of the planning area (not including assets outside the City).

2.2 Data Collection and Incorporation of Existing Plans



A4. Does the Plan describe the review and incorporation of existing plans, studies, reports, and technical information? (Requirement §201.6(b)(3))

Data collection efforts for the Seattle HMP focused on documents pertaining to the planning area and examples of best practices in hazard mitigation planning. The primary source documents for the plan update were the 2015 Seattle HMP and the 2019 update of the Seattle Hazard Identification and Vulnerability Analysis (SHIVA). Additionally, related emergency management plans, current county and state hazard mitigation plans, and City plans with relevant hazard mitigation topics, such as stormwater management, were reviewed as part of the data collection efforts. Examples of hazard mitigation planning best practices were also reviewed for their applicability to the Seattle HMP.

2.2.1 City of Seattle All-Hazards Mitigation Plan 2015-2021

The primary source document for this update of the Seattle HMP mitigation strategy was the 2015 version of the plan. As part of the 2021 Seattle HMP update, the following actions were taken to ensure that the update reflected progress in the City's mitigation efforts and any changes in priorities:

- Review and refinement of 2015 plan goals and objectives by the MWG.
- Update of City department mitigation capabilities.
- Update of status for all mitigation actions identified in the 2015 plan.

2.2.2 Seattle Hazard Identification and Vulnerability Analysis (SHIVA)

The SHIVA identifies Seattle's hazards and examines their consequences to facilitate smart decisions about how best to prepare for them. The SHIVA document is the foundation for all of the City's disaster planning and preparedness activities. The 2021 update of the Seattle HMP incorporates the most recent



version of the SHIVA. The 2019 SHIVA updates the version published in 2014. It meets FEMA and EMAP requirements, both of which publish standards to guide this work and provide quality and consistency across jurisdictions. It also meets the State of Washington's legal requirement that local governments identify and evaluate their hazards, as specified in Washington Administrative Code 118-30-070.

The following major changes were made as part of the 2019 SHIVA update:

- Added chapter on Cyber-attack / Disruption. The emphasis is on immediate dangers to the public.
- Combined Terrorism and Active Shooter Incidents into one Attacks chapter.
- Renamed Infrastructure Failures to Infrastructure and Structural Failures.
- Added new scenarios for Disease, Social Unrest, Infrastructure and Structural Failures, Cyber-attack/ Disruption and Windstorms.
- Updated map of social vulnerability using model developed by the University of South Carolina.
- Incorporated research published between 2014 and 2018.
- Reassessed hazards.

OEM is constantly collecting information from partners to update the SHIVA. It is updated as needed but a major review occurs at least every four years.

See Appendix A for the full text of the SHIVA.

2.2.3 Citywide Emergency Management Program Multi-Year Strategic Plan 2019-2021

This strategic plan is intended to meet the vision of the citywide emergency management effort through a multi-year strategy, in coordination with key emergency management stakeholders, to include a vision, mission, guiding principles, goals, objectives, outcomes, ongoing activities and projects and accomplishment tracking. One of the three strategic priorities is focused on mitigation.

Strategic Priority #3: Support/Facilitate a more resilient community through innovative mitigation and recovery efforts

Many of the ongoing activities and projects identified to achieve this Strategic Priority #3 relevant to the Seattle HMP include:

- Annually provide briefing on the ability of the City to detect and act on Cyber-threats and hazards.
- Incorporate critical infrastructure planning into city-wide Capital Improvement Plan process to mitigate risk identified in SHIVA/THIRA.
- Continue teaching 'Home Retrofit Program' supported by plan sets managed and maintained by the
 Department of Construction & Inspection. OEM routinely delivers workshops for residents who are
 interested in retrofitting their homes for an earthquake.
- Provide training to the Disaster Management Committee on the hazards identified in this SHIVA.
- Conduct annual updates and scheduled major revisions to the Seattle HMP (current version).
- Provide annual training to key personnel in each department on FEMA Public Assistance policies, protocols, and administrative systems.
- Identify procedures and additional planning issues to enhance the Seattle Recovery Framework.



- Maintain and improve a hazard mitigation program that recognizes priorities, activities, and processes to lessen impacts on the Seattle community.
- Identify, apply for, and leverage funding and grants for prioritized mitigation projects.

Action items identified as supporting these objectives are incorporated into this mitigation plan by reference and include, but are not limited to the following:

- Create a strategic integration of the assets management system, Capital Improvement Program, and Seattle HMP.
- Encourage the Emergency Executive Board to adopt mitigation policies.
- Integrate citywide initiatives that enhance resiliency, such as mitigation planning, the race and social justice initiative, Climate Action Plan, and Comprehensive Plan.
- Strengthen awareness of and focus on health systems/disease prevention in the mitigation program.
- Provide training to the Disaster Management Committee on the hazards identified in the SHIVA.
- Create a business outreach plan to build awareness of hazards and the cost-benefit of preparedness.
- Encourage the chambers of commerce and other business advocates to sponsor business efforts to prepare for and mitigate the impacts of hazards.

2.2.4 Washington State Enhanced Hazard Mitigation Plan

Hazard mitigation policy guidance for the State of Washington is provided in the 2018 Washington State Enhanced Hazard Mitigation Plan. This plan was approved by FEMA on October 1, 2018, and identifies hazard mitigation goals, objectives, actions, and initiatives for the Washington State government. Implementation of the policy guidance provided in the plan will reduce damage and injury caused by natural hazards. The plan meets the requirements for an Enhanced State Plan under Interim Final Rule 44 CFR parts 201.4 and 201.5, published in the Federal Register by FEMA on February 28, 2002. By meeting the requirements of the regulations, the State of Washington as well as qualified local jurisdictions and nonprofit organizations that provide like-government services are eligible to obtain federal Hazard Mitigation Assistance grants. The State of Washington can seek higher funding for the Hazard Mitigation Grant Program following a Presidential Disaster Declaration due to the enhanced portion of the plan (20 percent of federal disaster expenditures versus 15 percent with a standard plan) (Washington Military Department Emergency Management Division 2018).

The Seattle HMP was prepared in accordance with goals and objectives identified in the 2018 Washington State Enhanced Hazard Mitigation Plan.

2.2.5 Integration with Other Plans and Programs

The City has a long-standing history of hazard mitigation planning at a range of scales, including the neighborhood, city, and regional contexts. Therefore, hazard mitigation policies, plans, and programs have successfully been incorporated into various community plans and emergency management activities. Table 1 summarizes key programs and plans that support existing mitigation actions and the actions that were taken to ensure that they were appropriately aligned, integrated, or referenced in this plan update.



Table 1 - Plan Review and Integration Actions

Plan/Study	Plan Alignment/Integration Action	
2015 Seattle All-Hazards Mitigation Plan	Superseded by this 2021 Seattle HMP update.	
2019 Seattle Hazard Identification and Vulnerability Analysis (SHIVA)	Serves as the basis for the hazards identified in this plan. The full text is included in Appendix A.	
Seattle Disaster Readiness and Response Plan	Reviewed to ensure consistency.	
Seattle Disaster Recovery Framework	Reviewed to ensure consistency.	
Seattle's Comprehensive Plan	Reviewed to ensure consistency. Further alignment efforts will be a focus of the 2024 major update	
Seattle Climate Action Plan	Reviewed to ensure consistency.	
King County Regional Hazard Mitigation Plan	Reviewed to ensure consistency.	
Washington State Enhanced Hazard Mitigation Plan	Reviewed to ensure consistency.	

2.3 Mitigation Work Group

The MWG was convened at the start of the Seattle HMP update project to facilitate City department and agency input to the Seattle HMP update. The MWG aided in the update of capabilities, review of mitigation goals and objectives, identification of mitigation strategies, refinement of mitigation review criteria, and prioritization and implementation of mitigation strategies. This planning process focused on improving interdepartmental coordination to ensure that the resulting document met the needs of all City departments.

2.3.1 MWG Members

The MWG consists of members from various City departments and key stakeholders such as the Seattle Public Schools, Seattle Housing Authority and Port of Seattle. MWG members serve as project liaisons to community groups and interests they represent. Working together, the MWG has established the following mission statement to guide its activities:

"It is the mission of the Mitigation Work Group to develop a comprehensive disaster mitigation program that 1) increases community resilience; 2) builds upon existing mitigation programs; 3) increases knowledge of all hazards to which the City is at risk; and 4) implements interim and long-term mitigation actions that maximize loss reduction."

The members of the MWG who participated in the plan update and their associated organizations and departments are listed in Table 2.

Table 2 - Mitigation Work Group Members

Name	Organization	Department
Flossie Pennington	City of Seattle	Office of Arts and Culture
Dan Foley	City of Seattle	Office of Housing
Patrice Carroll, David Goldberg	City of Seattle	Office of Planning and Community Development
Kara Main Hester, Jennifer Devore	City of Seattle	Seattle Budget Office



Name	Organization	Department	
Jae Lee	City of Seattle	Seattle Center	
Jana Elliot, Brittany Barnwell	City of Seattle	Seattle City Light	
Micah Chappell	City of Seattle	Seattle Department of Construction and Inspections, Planning and Development	
Elenka Jarolimek, Julie Matsumoto	City of Seattle	Seattle Department of Finance and Administrative Services	
Sarah Sodt	City of Seattle	Seattle Department of Neighborhoods	
Lawrence Eichhorn, Mary Wylie	City of Seattle	Seattle Department of Technology	
Pattie Quirk	City of Seattle	Seattle Department of Transportation	
Andy Collins	City of Seattle	Seattle Fire Department	
Jill Watson City of Seattle		Seattle Human Services Department	
Amanda Allen, Jessica Sidhu City of Seattle		Seattle Office of Economic Development	
Lucia Schmit, Erika Lund, TJ McDonald, Laurel Nelson City of Seattle		Seattle Office of Emergency Management	
Edie Gillis, Lylianna Allala	City of Seattle	Seattle Office of Sustainability and Environment	
Jon Jainga, Cynthia McCoy	City of Seattle	Seattle Parks and Recreation	
Carrie Chitty, Lt. Daniel Nelson	City of Seattle	Seattle Police Department	
Dennis Reddinger	City of Seattle	Seattle Public Library	
Michael Godfried City of Seattle		Seattle Public Utilities	
Addison Houston	King County	Public Health Seattle King County	
Kati Davich	Port of Seattle	N/A	
Jared Cummer	Seattle Housing Authority	N/A	
Benjamin Coulter Seattle Public Schools		N/A	

2.3.2 MWG Meetings

Seattle HMP issues were discussed, and key deliverables were reviewed at the MWG's formal meetings. The MWG convened for a series of five meetings over the course of the project (see Table 3) where representatives from key City departments and other stakeholders had the opportunity to be briefed on project status, to assist in the plan update, and collaboratively work on plan content.

Table 3 - Mitigation Work Group Meeting Schedule

MWG Meeting	Date	Objectives	
Mitigation Work Group Meeting No. 1 (in person)	January 27, 2020	Review plan process and MWG roles and responsibilities Present updated SHIVA Review status of 2015 Seattle HMP actions Review 2015 Seattle HMP actions Discuss Seattle HMP Capabilities	
Planning process paused for Covid-19 response			



MWG Meeting	Date	Objectives
Mitigation Work Group Meeting No. 2 (online) September 14, 2020		Present revised process, outreach Review Teams online platform Review and discuss outstanding Tasks
Mitigation Work Group Meeting No. 3 (online)	September 28,2020	Confirm mitigation goals and objectives Present revised Mitigation Action Worksheet Develop department-specific mitigation actions
Mitigation Work Group Targeted Work Sessions (online)	November 2020	Meet with key departments to refine mitigation actions
Mitigation Work Group Meeting No. 4 (online)		Review outstanding tasks Updates and questions from MWG members
Mitigation Work Group Meeting No. 5 (online)	December 14, 2020	Review program implementation and monitoring
Mitigation Work Group Meeting No. 6 (online)	January 25, 2021	Review comments Finalize strategy

2.3.3 Planning Platform

Seattle HMP update process and draft documents were made available to the MWG through MS Teams, a web-based collaboration platform that allowed MWG members to work together virtually. The Teams platform included a project calendar, group email, SharePoint site, recordings of MWG meetings, chat, project team information, important links, and file management functionalities.

See Appendix B for documentation of all MWG activities.

2.4 Inclusive Outreach and Public Engagement



- **A2.** Does the Plan document an opportunity for neighboring communities, local and regional agencies involved in hazard mitigation activities, agencies that have the authority to regulate development as well as other interests to be involved in the planning process? (Requirement §201.6(b)(2))
- **A3.** Does the Plan document how the public was involved in the planning process during the drafting stage? (Requirement §201.6(b)(1))

A critical component of the Seattle HMP update effort is a robust stakeholder engagement process that provides "an opportunity for the public to comment on the plan during the drafting stage and prior to plan approval" (44 CFR §201.6).

2.4.1 Inclusive Outreach and Public Engagement Plan

To facilitate meeting this requirement, OEM developed an Inclusive Outreach and Public Engagement (IOPE) Plan and a designated a public comment period for the Draft Seattle HMP (see Table 4). The IOPE Plan, titled the Outreach and Engagement Plan (November 2020), provides a detailed approach to how



the project team would engage the public and key stakeholders in the Seattle HMP update process. Because of the COVID-19 Pandemic, outreach and public engagement was conducted online and was more narrowly focused than the previous update. The Plan is designed to meeting the following objectives:

- Raise awareness of hazard mitigation, the update process and when opportunities to provide input will occur.
- Provide the opportunity to all who live, work and play in Seattle to participate in the update process.
- Ensure a process that is open and transparent, culturally sensitive, accessible, and ensures that input is considered.
- Gather input in ways that are safe for staff and the public during the COVID-19 Pandemic.
- Ask for input where the public feedback can authentically influence the plan.

See Appendix C for the full Inclusive Outreach and Public Engagement Plan and materials.

2.4.2 Engagement Strategies

In September 2020, the planning process was restarted. The following strategies were used to raise awareness about the Seattle HMP update and gather feedback on the Draft Seattle HMP:

Make Information Available on OEM Public Website

OEM established space on their public website to share information about the HMP. The website included the following:

- Project description
- Downloadable one-page summary about the Seattle HMP update
- Dedicated email address (HazardMitigationPlanUpdate@seattle.gov)
- Narrated presentation about the Draft Seattle HMP
- Draft Seattle HMP and instructions on how to submit comments
- Link to a Public Survey about priorities for future City/ community hazard mitigation partnerships

Online Stakeholder Meetings

In addition to the MWG, other stakeholders had an opportunity to provide input during development of the plan. The information about the Draft Seattle HMP will be presented during online meetings of following key stakeholder groups to solicit input and feedback:

- Seattle Disaster Management Committee
- Strategic Work Group
- Emergency Executive Board
- Community Safety Ambassadors



Traditional and Social Media

The broader public will be invited to learn about the project, opportunity to comment on the Draft Seattle HMP and respond to community partnership polling question. The following media will be used to communicate with the broader public:

- OEM general email list
- OEM Newsletter
- Posts on OEM social media
- Press release to various media outlets

Community Survey

A community survey was conducted as part of the outreach for the Draft Seattle HMP. The survey was designed to solicit input from Seattle residents on their perceived concern regarding various hazards, importance of different risk reduction strategies, and which community services were most important to protect though mitigation.

In total, 152 people responded to the community survey. Key findings included:

- Highest level of concern about earthquake and disease outbreak hazards.
- Most important risk reduction strategies were regulation and structural projects.
- Top four community services that should be protected through mitigation were: health/ mental health, homelessness service/emergency shelter, food assistance/ food banks, and affordable housing/ housing assistance.

Table 4 - Stakeholder and Public Outreach Activities

Activity		Description				
P	Project paused due to COVID-19 Pandemic					
	(March – August 2020)					
OEM Website update	September 2020	Website is updated with HMP description and timeline.				
OEM Newsletter	September 2020 and January 2021	HMP information included in the September newsletter distributed to 6000+ people.				
Community Survey	November 2020	OEM shares survey about community priorities on website, social media, newsletter.				
Stakeholder Meetings (SWG, DMC)	November/ December 2020	Briefings at scheduled meetings to raise awareness and get input on HMP				
Public Comment Period (2 weeks)	January 2021	Post HMP on OEM website				
		Solicit public comments on the Draft HMP.				



Outreach for Draft Plan	January 2021	OEM email notices, newsletter, press releases, stories to solicit comment on Draft HMP
DMC Review and Approval	February 2021	Final HMP is submitted to DMC
EEB Review and Approval	April 2021	Final HMP is submitted to EEB

2.5 Plan Development and Review

The Seattle HMP development process was conducted according to the process outlined above and described in detail in FEMA's Local Mitigation Planning Handbook. Update of the City's mitigation strategy was treated as the plan's primary purpose and the plan serves as the written record of the comprehensive planning process. In addition, the Seattle HMP reflects the City's current needs and hazard concerns. The development of the Seattle HMP update occurred over a 14-month period from January 2020 to February 2021. The plan development was conducted through a series of seven steps as detailed in Table 5. Many of the steps occurred concurrently. Table 5 also illustrates the corresponding FEMA local mitigation planning task for each Seattle HMP development milestone. The requisite State Hazard Mitigation Officer and FEMA review periods occurred during the Draft and Final Seattle HMP steps.

Table 5 - Seattle HMP Update Timeline

Seattle HMP Update Development Milestone	Corresponding FEMA Recommended Local Mitigation Planning Task ¹	Timeline
Data Collection and Document Review	Task 1 – Determine the Planning Area and Resources	January 2020
2. Mitigation Working Group Coordination	Task 2 – Build the Planning Team	January 2020 – January 2021
3. Stakeholder Engagement and Outreach	Task 3 – Create an Outreach Strategy	October 2020 – January 2021
4. Hazard Mitigation Strategy Update	Task 4 – Review Community Capabilities Task 6 – Develop a Mitigation Strategy	September 2020 – December 2020
5. Draft Hazard Mitigation Plan	Written documentation of the planning process (all tasks)	January 2021
6. Final Hazard Mitigation Plan	Written documentation of the planning process (all tasks)	February 2021
7. Plan Adoption	Task 8 – Review and Adopt the Plan	March -July 2021

Notes:

Task 5 – Conduct a Risk Assessment was completed through the separate SHIVA process.

Task 7- Keep the Plan Current and Task 9 – Create a Safe and Resilient Community are part of the plan implementation process.





SOUND NORTHWEST SEATTLE 2 NORTHEAST Z SEATTLE 0 G IN MAGNOLIA & QUEEN ANNE BAYCENTRAL SEATTLE 5 ELIOTT DOWNTOWN SEATTLE E WEST SEATTLE SOUTHEAST & DELRIDGE SEATTLE

Figure 4 - Seattle HMP Planning



3 COMMUNITY PROFILE

Chapter 3 provides a summary of the community profile provided in full in the Seattle Hazard Identification and Vulnerability Analysis (SHIVA). The City's mitigation strategy is designed to be reflective of the unique characteristics of the community as an economic and cultural hub in the region.

Seattle is an 84-square-mile isthmus sitting between Puget Sound to the west and Lake Washington to the east. Elliott Bay, an extension of Puget Sound, is located in the middle of the City, giving Seattle an hourglass shape. Downtown is located in this narrow section, which results in many major transportation routes and services competing for land where there is the least space.

Seattle is a hilly city. Many roadways, especially in the downtown, Capitol Hill, Beacon Hill, Queen Anne, West Seattle, and Magnolia neighborhoods have steep inclines that can become hazardous and/or impassable in slippery driving conditions. There are 193 miles of waterfront, 53 of which are tidal. The Seattle Department of Transportation (SDOT) owns, inspects, maintains, and/or operates nearly 280 bridges spanning either natural or artificial barriers, 58 of which are designated vital lifeline structures. Two floating bridges, the Evergreen Point or Albert D. Rossellini (SR-520) and Lacey V. Murrow (I-90) bridges, are the most direct vehicular corridors linking Seattle to the neighboring eastside cities of Bellevue, Kirkland, and Mercer Island. The combination of hilly terrain, barriers, like waterbodies and elevated roadways, and the convergence of transportation pathways in constricted areas makes Seattle vulnerable to hazards like earthquakes that can damage the transportation system in key spots. The importance of these water and slope barriers on emergency response cannot be overstated. The arrangement of hills and water has dictated where transportation routes and large facilities can be located. The resulting patterns create a relationship between the natural and built environments that are fundamental to Seattle's hazard vulnerability.

With over 747,300 residents as of 2019, Seattle is the largest municipality in the Pacific Northwest. In normal times large numbers of people work in or visit Seattle.

Seattle also is home to the main campuses of three major universities: University of Washington, Seattle Pacific University, and Seattle University. In addition, Seattle Colleges, a multi-college district, serves Seattle and its surrounding communities at three comprehensive college campuses and five specialty training centers and has a combined enrollment of 45,000, operates three campuses located in West Seattle, Capitol Hill, and Northgate. The total combined student population for all of these universities and colleges is approximately 102,000.

Seattle is a center for cultural, governmental, and economic activity. It is both a city of neighborhoods with vibrant individual identities and one of the most trade dependent cities in the United States. One in three jobs relies on international trade.

The Seattle-King County area attracts more than 21.3 million overnight visitors each year (as of 2018). Major venues for conferences, conventions, and special events include the Washington State Convention and Conference Center, a wide variety of local hotels, the Bell Harbor International Conference Center, CenturyLink Field Events Center, and the Seattle Center (site of the 1962 World's Fair).

The city is also home for several professional sport teams including: the Mariners at Safeco Field (seats 54,000) and the Seahawks and Sounders at CenturyLink Field (seats 67,000). The renovated Climate



Pledge Arena on the Seattle Center Campus will open in 2021 will be the home arena of the NHL Seattle Kraken (seats 18.000).

King County has a total of 24 hospitals and three stand-alone emergency departments, including 14 in the City of Seattle. Of the 24 hospitals, there is a pediatric hospital, three psychiatric hospitals, and a Veteran's Administration hospital. King County has nine designated trauma hospitals, including one Level I adult and pediatric regional trauma center in the City of Seattle (Harborview Medical Center).

The number of cruise ships that use the Port of Seattle has grown in recent years. Eight major cruise lines used the Seattle facilities in 2012 and in 2019 there were 213 sailings with 1,208,590 passengers.

See Chapter 3 of the SHIVA including a more detailed community profile.





4 HAZARD IDENTIFICATION AND VULNERABILITY ANALYSIS

4.1 General

Seattle is a vibrant city, yet it faces hazards that threaten the very tissue of our community. Seattle can reduce hazard impacts and this document is where we start. The Seattle Hazard Identification and Vulnerability Analysis (SHIVA) identifies Seattle's hazards and examines their consequences so we can make smart decisions about how best to prepare for them.

This document is the foundation for the City's disaster planning and preparedness activities. The City hopes the rest of the Seattle community will use it in the same manner. The Seattle Hazard Identification and Vulnerability Analysis (SHIVA) is a community document. OEM is constantly collecting information from partners to update it. It is updated as needed but, a major review occurs at least every four years.

The SHIVA is intended to serve as the risk assessment portion of the Seattle HMP and provides the foundation for the rest of the mitigation planning process, which focuses on identifying and prioritizing actions to reduce hazard risk. The SHIVA is intended to guide the

2020 An Unprecedented Year

The 2019 SHIVA does not reflect the major incidents Seattle experienced in 2020 pandemic, wildfire smoke, civil unrest, and the West Seattle Bridge closure. The timing of this update has not allowed us to adequately reflect and integrate those events in this HMP. As the disasters, response and recovery from these events are assessed and better understood, changes to the SHIVA and the Seattle HMP may be desired or needed.

mitigation strategy outlined in this plan and is hoped to provide insight for other City planning efforts including future updates of the Comprehensive Plan.

The SHIVA, as the City's risk assessment, is intended to accomplish the following:

- Describe hazards. Includes a description of natural and human-caused hazards that may impact the City. Each hazard includes information on the following:
 - o Location. What areas of the City are most likely to be impacted?
 - **Extent.** What is the expected magnitude of the hazard?
 - o Previous occurrences. What is the history of the hazard?
 - o Probability of future events. What is the likelihood of the hazard occurring in the future?

Additionally, the SHIVA summarizes the City's vulnerability to identified hazards including potential impacts and losses that may result.

The 2019 update of the SHIVA replaces the version published in 2014. It meets the requirements of the Federal Emergency Management Agency (FEMA) and the Emergency Management Accreditation Program (EMAP), both of which publish standards to guide this work and provide quality and consistency across jurisdictions. It also meets the State of Washington's legal requirement that local governments identify and evaluate their hazards, as specified in WAC 118-30-070.

See Appendix A for the full text of the SHIVA.



4.2 Climate Change

The climate has been changing over the past few decades and is projected to change into the future at an increasing rate. Climate change is caused by the build-up of greenhouse gases (GHG) in the atmosphere. According to 2014 data from the Seattle Office of Sustainability and Environment, 66% of the city's GHG emissions comes from road transportation, 32% comes from commercial and residential buildings, and 3% from waste management. Seattle has set a goal to reduce carbon emission by 58% by 2030 and to become carbon neutral by 2050 (with 2008 emissions as the baseline year), in hopes to reduce the future effect of local climate change. Further, the Seattle City Council passed a resolution in 2017 stating the city's commitment to uphold the Paris Agreement, meaning Seattle will take steps to ensure that future warming is limited to 1.5°C. Despite these local efforts to reduce GHG emissions, climate change is caused by global GHG emissions that continue to rise. Further, the Seattle City Council passed a resolution in 2017 stating the city's commitment to uphold the Paris Agreement, meaning Seattle will take steps to ensure that future warming is limited to 1.5°C. Despite these local efforts to reduce GHG emissions, climate change is caused by global GHG emissions that continue to rise.

Climate change presents Seattle with many challenges: flooding, summer heat and drought, rising sea levels, heightened wildfire risk, and declining snowpack. Seattle will also experience indirect impacts. These could include higher commodity prices, increased migration and increased economic and political instability across the globe. The primary effects for the Puget Sound region include:

- **Temperature**. The Puget Sound region is projected to warm between 4.2°F and 5.5°F on average by the 2050s.
- Sea Level Rise. The projected range of sea level rise for Seattle is as low as 4 inches, and as high as 56 inches by 2100 (dependent on land movement). Rising sea levels lead to an increased risk of coastal flooding and landslides.
- Snowpack. Seattle's water system and power system are dependent on Cascade Mountain snowpack and glacial melt. Mountain snowpack is projected to decline 42-55% by 2070 creating water management challenges. The impact of the decline in snowpack on the city's water supply system has been somewhat mitigated by a dramatic decline in per-capita water usage despite a rise in Seattle's population.
- Streamflow. Due to the decreased snowpack and early spring melting, streams that rely on snowmelt are projected to experience peak streamflow earlier in the year, and for some rivers, dry years are becoming drier. Seattle's watersheds will become more reliant on rain than on snowpack.
 Winter streamflow is projected to increase by about 28% to 34% by 2080, while summer streamflow is projected to decrease by 24% to 31% by 2080.
- Precipitation. Heavy rainfall events are expected to become more severe for Washington State. The
 number of days with more than one inch of rain is estimated to increase 6% to 20% by the 2050s
 While projections of seasonal precipitation are mixed, most models point towards drier summers.
 Drier summers, with more severe precipitation events in other seasons leading to an increased risk
 of urban flooding and landslides, and more costly stormwater management.
- **Air Quality**. Increasing air temperatures, longer periods of heat, and drier summers have the potential to increase ground-level ozone and fine particulate matter accumulation. Summer deaths attributed to ozone are projected to increase to 132 per year by 2050.



4.3 Geophysical Hazards

These hazards originate in the movement of earth. They destroy the built environment over large areas and can cause huge casualties. While they are impossible to prevent there is a lot Seattle can do as a community to decrease their consequences.

4.3.1 Earthquakes

Earthquakes are Seattle's most significant hazard. No other hazard has the combination of likelihood and potential destructiveness. Seattle is at risk for earthquakes from three sources: 1) deep earthquakes like those that damaged the City in 1949, 1965 and 2001; 2) shallow earthquakes along the Seattle Fault; and 3) megathrust earthquakes that could reach magnitude 9.0 but would originate outside Seattle. The Seattle Fault is Seattle's most dangerous source. The Seattle Fault last ruptured in 900AD causing a 7.2 magnitude earthquake, massive landslides, and a tsunami. The major consequences are building collapse, lateral spread (where the ground permanently shifts under buildings), landslides, fires, liquefaction (where the ground turns liquid under buildings) and potentially a tsunami. Casualties could exceed 1,000 people and economic damage could easily run into billions of dollars. Seattle has been preparing for earthquakes for many years by enhancing building standards, retrofitting Infrastructure and facilities, and educating the public.

4.3.2 Landslides

Landslides are a common Seattle hazard especially when ground water is saturated in the winter. Landslides can always be deadly but more commonly they destroy buildings, block roads, and sever lifelines. The greatest risk is when a storm or earthquake triggers a swarm of landslides throughout the city within several days. The biggest swarm was in 1997 when 300 landslides happened in less than four weeks. A Seattle Fault earthquake could cause massive landslides. The last one in 900 AD caused whole forested hillsides to slide into Lake Washington. The City of Seattle addresses its landslide hazard by mapping its landslide prone areas and through its building codes. The U.S. Geological Survey (USGS) has created a gauge to show when Seattle has a heightened risk of landsides.

4.3.3 Tsunamis and Seiches

Tsunamis are a rare but potentially catastrophic hazard in Seattle. They are most often caused by earthquakes and landslides. Tsunamis that originate in the Pacific Ocean do not pose a major threat to Seattle because Puget Sound's shape and complex shoreline will break them up before they reach Seattle. The most dangerous tsunamis are generated locally. A Seattle Fault earthquake presents the greatest potential for a tsunami in Seattle. A large landslide could also trigger a tsunami. A landslide triggered a tsunami in the Tacoma Narrows in 1949. A seiche is a standing (vertical) wave produced by the sloshing of an enclosed water body like a lake, bay, reservoir, or river. The cause can be either earthquake shaking or storms. They are rare occurrences in this area. An 1891 earthquake produced an eight-foot seiche on Lake Washington and the 1964 Alaskan quake generated seiche that damaged property on Lake Union. In 2002 another seiche occurred in Lake Union due to an earthquake in Alaska. Seattle uses tsunami risk as a criterion in siting critical facilities, but it has not pursued additional tsunami or seiche preparedness measures because a tsunami 1) will strike the shoreline within seconds or minutes of being created, 2) will probably occur immediately after a massive earthquake and 3) happen rarely.



4.3.4 Volcanic Hazards

Volcanic material from Mt. Rainier washing down through the Duwamish River and ashfall are the most significant volcanic threats to Seattle. During an eruption, Mt. Rainier's glaciers could melt, mix with volcanic debris and flow down the valleys surrounding it. These flows are called lahars. Based on geologic evidence a lahar from Mt. Rainier would bury low-lying areas west of the mountain but would stop short of Seattle. In the days that follow, rain and erosion could wash the sediment down the Duwamish creating a major navigation and environmental hazard.

Severe ashfall is unlikely in Seattle. Our area's prevailing winds blow from west to east and will probably move ash away from Seattle, but it is possible that rare easterly winds could occur during an eruption producing an ashfall in Seattle. Seattle will need to support more heavily impacted neighbors, cope with transportation closures and help displaced people after an eruption or lahar. Seattle has not undertaken specific volcanic mitigation measures.

4.4 Biological Hazards

Biological hazards occur from natural matter in our world such as bacteria, viruses, insects, or animals. The only biological hazard identified for Seattle is disease/pandemic influenza (including bioterrorism).

4.4.1 Disease/Pandemic Influenza (including bioterrorism)

Seattle like all other cities is facing increased exposure to new diseases. The rapid increases in personal mobility, the proximity of people to livestock and global urbanization have created conditions in which it is possible for new diseases, especially influenza, to emerge and spread around the world in days. Global outbreaks are called pandemics. When a new disease emerges, human beings have no immunity against it. This condition increases the chance individuals will get sick when they come into contact with the disease and increase the severity of their symptoms if they do. The potential consequences of disease outbreaks include:

- Patients overwhelming local hospital and health care providers.
- Inability to request mutual aid assistance if impacts involve multiple communities.
- Contaminated water supplies.
- Threats to critical infrastructure if essential operators are absent in high numbers.
- Widespread mental health impacts.
- Closure of community services, schools and larger public events.

Public Health – Seattle & King County has developed plans to attempt to slow the spread of disease by closing public gathering places, increasing the space between people ('social distancing') and opening additional care facilities. Bioterrorism is the use of a biological agent as a weapon to cause fear, illness, or death. Seattle has not experienced a bioterrorist attack but being a densely populated urban hub makes it an attractive target.

4.5 Intentional Hazards

These are hazards that some person or group seeks to cause. Often the perpetrators want to disrupt the flow of normal community life, sometimes they want to cause property damage, and other times they



want to hurt people. The adversarial nature of these hazards makes them especially unpredictable and therefore dangerous. Law enforcement is primary in the response to these hazards.

4.5.1 Social Unrest

Social unrest includes riots, civil disorders, strikes, and mass civil disobedience. Seattle is the central stage for political and social activity in the Puget Sound region and the hub of its social activities. This condition makes social unrest likely to occur in Seattle. Most recent incidents were caused by anarchist groups. The largest centered on the 1999 World Trade Organization (WTO) meeting. Most of Seattle's incidents have targeted property but assaults and one death has occurred. Most incidents can be handled by the Seattle Police Department, but large ones like the WTO protests require outside assistance and can shut down large areas of the City. Most incidents occur in the downtown area and on Capitol Hill.

4.5.2 Attacks

Attacks can be perpetrated by many different actors with different motivations, but all use violent and destructive tactics to cause harm to people and/or property. Some actors include terrorists (domestic and international), violent extremists, and targeted violent offenders. Examples of tactics are mass shootings, bombings, arson, murder, kidnapping, hijacking, or skyjacking. Not all attacks are politically motivated, some are based on personal grievances. Most attacks happen in public gathering places or institutions, of which Seattle has many. The threat of attacks has grown with the interconnectedness of the internet and social media.

The Puget Sound region has active far-right and eco-terrorist groups, and has experienced activity related to international terrorist groups. Seattle has a heightened eco-terrorism risk. In 2001 the Earth Liberation Front (ELF) firebombed the University of Washington's Center for Urban Horticulture. The number of mass shootings in the U.S. has increased over the past decade. Seattle has experienced three mass shootings in recent history, and an active shooter situation at Seattle Pacific University. In today's security conscious, post-9/11 environment, the main threat appears to be attacks using small-scale tactics such as shootings or vehicle ramming.

Attacks are almost impossible to predict. In the aftermath of 9/11, national security focus shifted to terrorism involving chemical, biological, nuclear, radiological and explosive and cyber means. Locally, Seattle Public Schools are undertaking heightened security measures. The City has been the recipient of several federal grants to bolster local security.

4.5.3 Cyber-attack and Disruption

To function as a modern city, Seattle is highly dependent on digital systems and the internet. Disruptions to cyber infrastructure can include internet outages, release or deletion of sensitive data and information, compromised infrastructure or services, or physical destruction. Digital systems can face intentional attacks from small scale hackers to sophisticated nation-state actors. Cyber disruption can also occur from human errors or from another hazard (e.g. earthquake). Seattle's utility infrastructure uses Supervisory Control and Data Acquisition (SCADA) Systems to run and maintain basic functions. SCADA systems are generally outdated and vulnerable to hacking, especially if they are connected to the internet.



The likelihood of attack and disruption is increasing as more products and services connect to the internet. The City of Seattle experiences minor hacking attempts daily but has never experienced a major cyber-attack. However, limited information technology resources make a large attack a possibility and large-scale ransomware attacks have recently halted city functions in other areas of the U.S.

4.6 Transportation and Infrastructure Hazards

This section comprises failures in the built environment. Their causes are mostly accidental but can be deliberate when used as a means for terrorism. Engineering advances have dramatically improved safety, but Seattle still has many older transportation and infrastructure systems that were not built to modern safety standards. These systems require extra maintenance.

4.6.1 Transportation Incidents

Seattle is a hub for land, sea, and air transportation giving it an inherent exposure to accidents. One of the city's deadliest disasters was a plane crash that occurred in 1943, killing 32, including people on the ground. The South of Downtown (SODO) area is the most vulnerable because it is a hub for all major transportation modes, but our bridges and tunnels also have heightened risk. Transportation accidents are usually limited in size but can cause high fatalities, fires, hazardous materials incidents, power outages, transportation network disruptions, and infrastructure failures.

4.6.2 Fires

Multi-block and high-rise fires are now rare in the U.S. due to better fire code enforcement, but having a large concentration of high-rise buildings, hotels, entertainment venues and industry makes Seattle vulnerable. In the 1970's several single-room occupancy hotels burned with high fatalities. Seattle also has a large port making marine fires a danger and an underground electrical distribution network that can cause extended outages when fires occur in it. Fires are especially dangerous when they are ignited by other hazards like earthquakes and civil disorders because many fires can ignite in a short period while responders are already occupied.

4.6.3 Hazardous Material Incidents (including Wildfire Smoke)

Seattle is a regional industrial center and major transportation hub raising its exposure to hazardous materials incidents that release toxic chemical, combustible, nuclear, or biological agents into the environment. Seattle has not had any truly disastrous hazardous materials incidents but has had several close calls with fuel tanker explosions and a fire at a UW biology lab. There has been an increase in the transport of highly flammable crude oil through Seattle in recent years. Most incidents happen at fixed sites, but those that occur during transport are often more dangerous because they occur in uncontrolled, public spaces.

Smoke from wildfires has become a recurring seasonal air quality hazard in the western United States and British Columbia. In the Puget Sound region in 2018, wildfire smoke led to 24 days of poor air quality, including nine days that were considered either unhealthy for sensitive groups or unhealthy for everyone. In 2020, wildfire smoke led to a record-breaking number of days of poor air quality, including many days that were considered unhealthy for everyone. This smoke created additional risk for people with COVID-19 and worsened symptoms.



4.6.4 Structural Collapse and/or Failure

Structural collapse or failure includes buildings, dams, and other critical infrastructure such as bridges, and water, sewer, or power lifelines. There are no dams in Seattle, but the City owns a dam south of the city. If this dam failed, the biggest consequence would be flooding in the Duwamish Valley. Seattle is especially vulnerable to bridge collapse due to central role they play in connecting Seattle's transportation network to other areas. Western Washington has had four high profile bridge collapses since 1940. The Seattle Department of Transportation has an active bridge inspection and retrofit program. Regular inspections of the West Seattle High-Rise Bridge indicated accelerated growth of new and existing structural cracks resulting in its closure to all vehicle traffic on March 23, 2020. The City chose repair/strengthening over replacement, pushing for bridge reopening in 2022.

4.6.5 Power Outages

Power outages are a type of infrastructure failure but are treated as a separate hazard due to the complexity of their consequences. The 2003 Northeast Blackout highlighted the fragility of the U.S. power system. Seattle experienced a week-long power outage from a winter storm in December 2006. Since the wide-spread 2006 outage, Seattle City Light (SCL) has acquired a new power management system that allows it to isolate outages and respond faster. It has also improved fire suppression in its underground electrical system. In the 1980's and 1990's several fires in the underground system caused extended outages in major parts of downtown. About half of Seattle's power is purchased from the Bonneville Power Administration (BPA), making the city vulnerable to disruptions in other areas of the Northwest. While much of BPA's infrastructure is aging, they have been a leader in seismic upgrades to their critical infrastructure. Climate change is projected to decrease hydropower generation in the summer by mid-century.

4.7 Weather

Severe weather events are frequent hazards in Seattle. Except for flooding, they have citywide impacts that vary from minor to debilitating. Their consequences mount the longer they go on. Forecasters are getting better at predicting these events and their severity. The extra time reduces vulnerability by allowing the public and institutions more time to prepare.

4.7.1 Excessive Heat

Excessive heat events (EHE) can be an extremely deadly hazard. More than 700 people died during the 1995 Chicago heat wave. Because Seattle has a generally mild climate, most people are not acclimatized when EHEs do occur. The temperature itself is just one factor driving the consequences of EHEs. The other important factors are the season, difference between the pre-event and event temperatures, the event duration, nighttime cooling, wind and humidity. Meteorologists can accurately forecast the development of an EHE and the severity of its associated conditions with several days of lead time. The National Weather Service (NWS) has developed a Heat Health Watch/Warning System that tailors excessive heat guidance to specific regions in the country. EHEs are projected to become more intense in the future due to climate change. The most vulnerable people in EHEs are the elderly, infants, the homeless, the poor, and people who are socially isolated.



4.7.2 Flooding

Seattle is susceptible to four flood types: coastal flooding (including king tides), riverine, urban, and dam failure. Atmospheric rivers are storms that occur when the Jet Stream brings moist air from the tropics into the Northwest. They can cause extended periods of heavy rain that can cause riverine and urban flooding. Recent weather patterns have produced very high intensity rain cells, sometimes over narrow geographic storm-tracks.1 These storms release larger amounts of rain, in short periods of time, which the drainage systems cannot always handle adequately.

- Coastal flooding happens during storms and especially high tides (called 'king tides'). When the two coincide, the consequences are more severe. Sea level rise will make coastal flooding worse.
- Riverine flooding happens mostly along Seattle's creeks. The South Park neighborhood is in a 500year floodplain. Most of Seattle's floodplains are very narrow.
- Urban flooding occurs when heavy rain overwhelms the drainage system. Seattle's drainage systems were designed and originally built for longer duration and lower intensity rainstorms. The City has developed mitigation measures like detention ponds to decrease the consequences of urban flooding. The City of Seattle owns dams outside the city limits. Dam failure is mostly a hazard outside the city. The greatest risk is the Howard Hanson Dam. It discharges into the Green River and the Duwamish. Studies suggest that the likelihood of flooding on the Duwamish due to a dam failure is low.

4.7.3 Snow and Ice

Seattle's winter weather is generally mild. When Seattle does receive snow, accumulations can be large. The consequences are especially severe if the snow lingers for more than several days or triggers secondary hazards like power outages. Seattle has heightened vulnerability to snow and ice storms because of its hilly topography and lack of dedicated snow removal equipment (Seattle has to repurpose general use equipment to plow snow). The City prioritizes major roads and is not able to plow residential streets. Extended snow can lead to severe transportation challenges. Excessive cold exacerbates risks to human health and safety when electric heating sources are inoperable. In 2008 several people died in King County due to carbon monoxide poisoning when they used charcoal grills indoors to heat their homes. Snow load has caused roof collapses in Seattle and rapidly melting snow has caused urban flooding and landslides.

4.7.4 Water Shortages

Seattle can experience water shortages during the summers that follow winters with low snowpack, because nearly all of Seattle's water comes from watersheds in the Cascades that accumulate their supply from melting snow. Snowpack is projected to decline in future years due to climate change. The main shortage impacts are reduced stream flows for salmon, usage restrictions, and economic hardship for businesses that require large amounts of water. In 2006, Seattle Public Utilities (SPU) updated and adopted a plan to respond to and mitigate water supply problems. Water shortages also have consequences for power. Seattle City Light (SCL) faces challenges during water shortages because most power in the Northwest is generated by hydroelectric dams. During water shortages not as much water is available to turn generators to make electricity. To meet demand SCL must buy more expensive power from outside the region. Besides climate, water shortages can be caused by main breaks. These



shortages due to infrastructure failures are usually localized and short but could be longer if they are the caused by another hazard like an earthquake.

4.7.5 Windstorms

Windstorms with wind speeds equaling those of category one hurricanes can strike Seattle. Sustained winds of 85 miles per hour were recorded in the Seattle area in 1993 and 2006. Seattle's most damaging storm was the 1962's Columbus Day Storm. Windstorms cause power outages, structural damage, transportation blockages, and coastal flooding. Fall and winter is the most common time for windstorms, but the occasional out of season storms can be the most dangerous. Falling trees account for most damage. Windstorms often accompany other weather hazards producing complex emergencies that can include landslides, urban flooding, snow and extreme cold. Windstorms can damage structures with speeds as low as 32 mph. Seattle's new building code requires new structures to withstand 85 mph gusts. The City of Seattle has programs for vegetation management that serve to mitigate damage to electrical systems during windstorms. This tree trimming program intensified after the 2006 storm that caused lengthy power outages.

4.8 SHIVA Scoring Methodology

Each hazard has been evaluated using its Most Likely and Maximum Credible scenarios. Both scenarios are evaluated using twelve parameters developed from EMAP and FEMA standards. Ten of these twelve parameters are "base parameters" that directly affect the community, e.g., health effects. Each of these ten base parameters was assigned a score from one through five. The ten base parameters were averaged for a "Base Score" for each of the two scenarios.

The remaining two parameters, "Frequency" and "Cascading Effects," function as multipliers. These two parameters were also assigned a score of one through five. The two scores were added to get a "Combined Multiplier."

The "Base Score" was then multiplied by the "Combined Multiplier" to get a Scenario Ranking. Finally, the Scenario Rankings for the two scenarios were summed and added to the "Future Emphasis" parameter to get a Combined Ranking. The equation is written below.

Scenario Ranking = Average (Base Parameters) * Sum (Multipliers)

Combined Ranking = (Scenario Ranking – Most Likely) + (Scenario Ranking – Maximum Credible) + Future Emphasis

Draft scores were assigned by Office of Emergency Management staff with suggestions from the Office of Emergency Management Strategic Working Group.

4.9 Risk-Driven Planning

OEM uses hazard identification, risk analysis, and impact analysis as the basis for all plan development, including the Seattle HMP. The mitigation strategy presented in Chapter 6 of this plan is based on the principles of maximizing loss reduction and the data presented in the SHIVA provides the City with the data necessary to identify goals, objectives, and actions that will be most effective. Some concepts in the SHIVA that were key considerations in developing the 2021 update of the Seattle HMP include:



- Earthquakes are Seattle's top hazard. No other hazard has the combination of likelihood and potential destructiveness.
- Seattle is a hub for land, sea and air transportation giving it an inherent exposure to accidents.
- Seattle is vulnerable to bridge collapse due to central role them play in Seattle's transportation network. Failure of multiple bridges could result in "islandization" of the community.
- Snow and ice storms rank second. Individually they are less damaging than a powerful earthquake, but they are much more frequent.
- Infrastructure failure is the third biggest risk due to infrastructure's dependence on networked computers systems that are exposed to attack. The chance of successful, large scale attack is small, but its consequences would be severe.
- A combination of resource concentration, geography and lack of reserve capacity in our transportation system will make access to critical resources a challenge in a disaster.
- Our most vulnerable people live toward the outskirts of the city and along the Rainier Valley.
- Climate change will broadly affect most of the hazards Seattle experiences

See Appendix A for the full text of the SHIVA including a more detailed risk assessment.





Table 6 - Hazard Ranking

						N	lost	Lik	ely S	Scer	nario									М	axin	nun	n Cre	edib	ole :	Scena	rio					
	Geographic Scope	Duration	Health Effects	Displacement	Economy	Environment	Structures	Transportation	Critical Services	Confidence in Govt	Bae Score	Frequency (F)	Cacading Effects (CE)	Multiplier (F + CE)	Subtotal	Geographic Scope	Duration	Health Effects	Displacement	Economy	Environment	Structures	Transportation	Critical Services	Confidence in Govt	Bae Score	Frequency (F)	Cacading Effects (CE)	Multiplier (F + CE)	Subtotal	Future Emphæis	Combined Ranking
Earthquakes	5	2	2	2	2	2	3	2	2	1	2.3	4	4	8	18.4	5	5	5	5	5	5	5	5	5	5	5.0	2	5	7	35	3	56.4
Snow & IceStorm	5	3	2	2	2	1	2	2	2	1	2.2	5	2	7	15.4	5	4	2	3	3	2	2	4	3	3	3.1	3	3	6	18.6	5	39.0
Windstorms	5	1	2	2	2	2	2	2	2	1	2.1	5	2	7	14.7	5	2	2	3	3	2	3	4	4	3	3.1	3	3	6	18.6	3	36.3
Power Outages	3	2	2	2	2	1	1	2	2	1	1.8	5	2	7	12.6	5	4	2	4	3	1	2	3	3	5	3.2	3	3	6	19.2	3	34.8
Cyber-attack/Disruption	5	4	1	1	2	1	1	2	1	3	2.1	3	1	4	8.4	5	4	2	5	4	3	1	4	4	3	3.5	2	4	6	21	5	34.4
Landslides	4	3	2	2	1	2	2	3	1	1	2.1	5	1	6	12.6	3	3	3	3	3	3	3	4	2	3	3.0	2	4	6	18	3	33.6
Disease Outbreaks	5	5	4	1	2	1	1	1	1	1	2.2	4	1	5	11.0	5	5	5	5	4	1	1	3	3	3	3.5	3	2	5	17.5	5	33.5
Flooding	5	2	1	2	2	2	2	2	1	1	2.0	5	1	6	12.0	5	4	2	4	3	2	3	4	3	3	3.3	2	3	5	16.5	5	33.5
Excessive Heat Events	5	3	2	2	2	1	1	2	1	1	2.0	5	1	6	12.0	5	4	4	4	3	2	1	3	3	3	3.2	3	2	5	16	5	33.0
Tsunamis and Seiches	3	2	2	3	3	2	3	2	1	1	2.2	2	2	4	8.8	4	2	4	5	4	3	3	4	3	3	3.5	2	4	6	21	3	32.8
Infrastructure & Structural Failure	1	2	1	2	2	2	2	2	2	3	1.9	5	2	7	13.3	4	5	3	4	3	3	2	4	3	5	3.6	1	3	4	14.4	5	32.7
Fires	2	2	2	4	1	1	2	2	2	1	1.9	4	2	6	11.4	2	4	4	3	3	2	2	4	2	3	2.9	2	4	6	17.4	3	31.8
Transport Incidents	1	1	3	2	1	1	2	2	1	1	1.5	5	2	7	10.5	3	2	4	3	2	2	2	3	2	3	2.6	2	5	7	18.2	3	31.7
Water Shortages	5	5	1	2	2	2	2	1	3	1	2.4	5	2	7	16.8	5	5	1	3	м	з	2	1	3	3	2.9	2	2	4	11.6	3	31.4
Social Unrest	м	1	2	3	3	1	2	2	2	3	2.2	5	2	7	15.4	5	3	3	5	3	1	3	2	2	5	3.2	2	2	4	12.8	3	31.2
Attacks	1	1	2	2	2	2	2	2	1	3	1.8	5	2	7	12.6	4	2	3	3	2	1	2	4	4	3	2.8	2	1	3	8.4	5	26.0
HazMat Incidents	m	1	3	4	2	2	2	2	2	1	2.2	м	2	5	11.0	m	3	2	2	m	4	2	3	2	5	2.9	1	3	4	11.6	m	25.6
Volcano Hazards	2	5	1	4	м	2	3	2	3	1	2.6	2	1	3	7.8	5	5	2	2	3	2	4	5	2	1	3.1	1	3	4	12.4	3	23.2



5 CAPABILITY ASSESSMENT

Chapter 5 identifies the City's existing mitigation capabilities. These are the plans and policies, programs, and projects that are currently in place to reduce the City's vulnerability to hazards. It also includes key mitigation accomplishments that have been completed since the last plan update in 2015. As mitigation actions identified in the City's mitigation strategy (Chapter 6) are completed, they become new mitigation capabilities.



C1. Does the Plan document each [City department's] existing authorities, policies, programs and resources and its ability to expand on and improve these existing policies and programs? (Requirement §201.6(c)(3))

5.1 General

The City of Seattle has a long history of commitment to neighborhood, citywide, and regional hazard mitigation planning. Existing hazard mitigation authorities, policies, plans, programs, and resources have reduced impacts from hazards. Where possible, City departments will leverage existing programs to implement mitigation actions (see Chapter 6). Utilizing existing authorities, policies, plans, and programs will provide the best value to the City of Seattle and build on programs already supported by Seattle communities and policymakers.

This chapter identifies planning and regulatory, administrative and technical, financial, education, and outreach capabilities to mitigate hazards; describes recent mitigation accomplishments; and identifies the City's participation in the National Flood Insurance Program (NFIP) in accordance with the Disaster Mitigation Act (see 44 CFR § 201.6(c)(3)). Seattle hazard mitigation capabilities include the following:

- Plans and Regulations. Plans, policies, codes, and ordinances that prevent and reduce the impacts
 of hazards. Examples of plans and regulations include Seattle's Comprehensive Plan, the City of
 Seattle Stormwater Management Plan, the Seattle Building Code, and the Seattle Environmentally
 Critical Areas Code.
- Administrative and Technical. Staff, their skills, and tools that can be used for mitigation planning.
 Examples of administrative and technical capabilities include Seattle Department of Planning and
 Development dedicated staff to building code enforcement and the OEM SHIVA.
- **Financial.** Funding resources that can be utilized for hazard mitigation. Examples of financial capabilities include the Seattle Capital Improvement Program, the Fire Facilities and Emergency Response Levy, and federal funding programs such as the Hazard Mitigation Grant Program (HMGP) and Building Resilient Infrastructure and Communities (BRIC).
- Education and Outreach. Education and outreach used to communicate hazard-related information and increase community preparedness and resiliency. Example of education and outreach include Home Retrofit Program.



CAPABILITY HIGHLIGHT

Unreinforced Masonry Building Retrofit Policy Development

Unreinforced masonry buildings (URMs), are old brick buildings typically built prior to 1945. Because these buildings were not built using modern building codes, they are much more likely to experience damage or collapse during an earthquake. Most URMs have brick walls and wood-frame floors and roofs. A tell-tale sign of URM construction is what's called header courses- lines of bricks turned on end. Seattle has an estimated 1,164 URMs throughout the city, and many can be found in historic neighborhoods such as Pioneer Square, the International District, Capitol Hill, Columbia City and Ballard.

Right now, there are no retroactive regulations in the City of Seattle requiring owners of URMs to upgrade their buildings through seismic retrofitting. However, property owners who decide on a major renovation, re-occupy a vacant URM, or change the use occupancy of a URM may be required to comply with seismic regulations in the current Seattle Building Code.

The City has been working for many years to develop a policy, program, and funding to seismically retrofit URMs. Prior to COVID-19, SDCI was working with the Mayor's Office and City Council to draft a joint resolution to begin the process to develop and implement a mandatory URM upgrade program. This work was planned to be undertaken in 2020 and would have taken into consideration the recommendations from the 2017 report prepared by the URM Policy Committee. However, these efforts have been placed on hold as the City focuses its resources on response to the COVID-19 pandemic.

The City will continue to consider the development of a URM policy and identify funding opportunities to implement retrofits. Key resources to support ongoing and future work on URM policy include:

- Recommendations from the Unreinforced Masonry Policy Committee to the City of Seattle (2017)
- Updated Confirmed URM List (SDCI, December 2020)
- <u>Funding URM Retrofits</u> (National Development Council, 2019)
- Update Draft Technical Standard to reflect anticipated changes in seismic retrofit codes on the national level (future work)

A new state program, C-PACER (Property Assessed Clean Energy and Resiliency), could provide low cost, long-term loans for commercial properties for qualified building improvements. The C-PACER program aims to address the significant needs for property owners to finance energy efficiency upgrades, renewable energy improvements, stormwater management, water conservation, and resiliency retrofits to address vulnerabilities to earthquakes and other natural disasters. Although the State cannot currently support this new program because of the fiscal shortfalls brought on by COVID-19, counties can take steps to establish a program.



5.2 FEMA Funded Hazard Mitigation Projects

Table 7 identifies FEMA-funded hazard mitigation projects conducted in the City of Seattle from 1999 to 2020.

Table 7 - FEMA Funded Hazard Mitigation Projects 1999-2020

Project	Funding Source	Award Date	Award Total	Lead Department	Status
Duwamish Head Stabilization Project	HMGP - DR 1159	Mar-1999	\$2,187,500	SPU [DWU]	Completed - Won engineering award!
North Queen Anne Dr. Bridge Seismic Retrofit	HMGP - DR 1361	Aug-2002	\$1,200,000	SDOT	Completed
Low Income Home Seismic Retrofit	HMGP - DR 1361	Jan-2003	\$1,000,000	SPD/OEM	Completed
Mitigation Plan Development	HMGP - DR 1361	Oct-2003	\$100,000	SPD/OEM	Completed
South Lake Union Armory Building Seismic Retrofit	PDMC 2005	Nov-2005	\$713,229	Parks	Completed
Gas Shut Off Valve Project	HMGP - DR 1671	Sep-2008	\$200,000	FFD	Completed
Queen Anne Community Center Seismic Retrofit	HMGP - DR 1671	Aug-2008	\$ 780,000	Parks	Completed
Post Alley Areaway Seismic Retrofit	HMGP - DR 1682	Oct-2010	\$589,055	SDOT	Completed
Urban Flood Hazard Identification Project	HMGP - DR 1817 & 1825 5% Funding	Nov-2010	\$208,500	SPU	Completed
Jefferson Community Center Seismic Retrofit	HMGP - DR 1817 and 1825	May-2011	\$1,371,198	Parks	Completed
Mitigation Plan Update and Seismic Assessment	PDMC 2011	Nov-2011	\$379,220	OEM & FFD	Completed
URM Public Education and Outreach	HMGP Dr 4056 5% Funding	Jul-2012	\$71,905	DPD	Completed
Columbia St. Areaway Seismic Retrofit	HMGP DR 4243	May 2017	\$1,737,885	SDOT	Completed
Bremer Apartments Seismic Retrofit	PDMC 2018	May 2020	\$5,016,312	OEM	Grant Awarded
8th Ave NW Bridge Seismic Retrofit	HMGP DR 4309	Oct 2020	\$2,691,045	SDOT	Grant Awarded

Funding Notes

HMGP = Hazard Mitigation Grant Program. State/FEMA funding generated from Presidential Disaster Declarations.

PDMC = Pre-Disaster Mitigation Competitive Grant Program. FEMA funding made available for national competition.

BRIC = Building Resilient Infrastructure and Communities. FEMA funding made available for national competition.

Source: City of Seattle Office of Emergency Management.



5.3 Citywide Organization Capabilities

5.3.1 Race and Social Justice Initiative

The Seattle Race and Social Justice Initiative (RSJI), launched in 2005, is a citywide effort to end institutionalized racism and race-based disparities in City government. RSJI builds on the work of the civil rights movement and the ongoing efforts of individuals and groups in Seattle to confront racism. The Initiative's long-term goal is to change the underlying system that creates race-based disparities in our community and to achieve racial equity. The City's RSJI internally focused work includes core team, change teams, employee training and RSJI Toolkit. Since 2014 RSJI has expanded to include more community partnerships and collaboration with BIPOC communities to guide City investments to achieve equity.

- Core Team. A Citywide team of about 30 people that works with key stakeholders on RSJ issues.
 Provide Citywide technical assistance and strategic planning support; Communicate/facilitate. Team members lead RSJI orientations and workshops for City staff.
- Change Teams. This group of employees in each department supports RSJI activities. They work
 together to extend RSJI's reach in departments, strengthen each departments capacity, offer
 expertise, work to address departmental issues, and build momentum to advance RSJI throughout
 the organization.

Training. City employees and volunteers who sit on City boards and commissions have access to trainings on various RSJI topics such as implicit bias, leading with race, how to apply the RSJI toolkit.

RSJI Toolkit. This tool is designed to assist departments to analyze the racial equity impact of
policies, programs, initiatives, and budget issues.

5.3.2 Citywide Plans and Regulations

The City has a foundation of long range, citywide policy and strategic plans that guide growth and City investments in infrastructure, services, and other assets. These plans require substantial interdepartmental collaboration and provide guidance for more detailed functional and operational plans. Some, adopted by ordinance, have statutory authority. Others, adopted by resolution, and are less binding and more aspirational. The following plans and regulations help the City achieve mitigation goals and actions.

Seattle 2035 Comprehensive Plan (OPCD, 2016)

Comprehensive Plan, a 20-year vision and roadmap for Seattle's future. The Comprehensive Plan guides City decisions about where to accommodate and plan for new jobs and residences, how to improve the transportation system, and where to make capital investments such as utilities, sidewalks, and libraries. It provides a framework to guide most of Seattle's big-picture decisions on how to manage growth to achieve environmental sustainability, racial equity, shared prosperity, and healthy and vibrant neighborhoods. As required by Washington's Growth Management Act, the plan must undergo a major review and update every 8 years. The next major update must be adopted by June 2024.

Move Seattle 10-Year Strategic Vision (SDOT 2015)



Move Seattle sets out a 10-year plan for a transportation system that meets present demands while looking ahead to future needs for a safe, affordable, connected system that works for people regardless of mode choice.

Parks and Open Space Plan (SPR 2017-2022)

This six-year plan documents and describes SPR's facilities and lands, looks at Seattle's changing demographics, and lays out a vision for the future. The 2017 Plan is required by the Washington State Recreation and Conservation Office (RCO) to maintain the City of Seattle's eligibility for state grants and funding programs that will help realize outdoor recreation capital projects and open space acquisition projects.

Climate Action Plan (OSE 2013)

This plan focuses on city actions that reduce greenhouse emissions and support vibrant neighborhoods, economic prosperity, and social equity. Actions are focused on areas of greatest need and impact: road transportation, building energy and waste. The plan also includes actions that will increase Seattle's resilience to the likely impacts of climate change.

Urban Forest Stewardship Plan (OSE 2013)

This plan set four goals for Seattle's urban forest: create an ethic of stewardship about the urban forest among City staff, community organizations, businesses, and residents; strive to replace and enhance specific urban forest functions and benefits when trees are lost, and achieve a net increase in the urban forest functions and related environmental, economic, and social benefits; Expand canopy cover to 30 percent by 2037; and increase health and longevity of the urban forest by removing invasive species and improving species and age diversity"

Consolidated Plan for Housing and Community Development (HSD 2018-2022)

This plan includes guidance for the allocation of an estimated \$17 million of federal grant and program revenue funds [approximately \$9.8 million in Community Development Block Grant (CDBG) funds, \$4.2 million in HOME program funds, \$796,000 in Emergency Shelter Grant Program (ESG) funds and \$2.3 million in Housing Opportunity for Persons with AIDS (HOPWA) funds] from the U.S. Department of Housing and Urban Development (HUD). The Plan outlines strategies to address the housing, homeless, community and economic needs of the City's low and moderate-income residents and neighborhoods over the next five years.

Land Use Code (SDCI, OPCD)

The Land Use Code regulates the use and development of land in Seattle. SDCI reviews permit applications to make sure they comply with this code. With input from residents, designers, developers, and other interested stakeholders, City planners draft amendments to update the code to better address Seattle's land use policies.

Building Code and Residential Code (SDCI)

The Seattle Building Code (SBC) provides minimum requirements for design and construction of new buildings. The Seattle Residential Code (SRC) provides minimum requirements for design and construction of single-family houses, duplexes, and townhouses with no more than three stories and with separate entrances. Seattle has adopted the 2015 International Building Code and 2015Residential Code with amendments specific to our city.



Stormwater Code (SPU & SDCI)

The stormwater code contains regulations to protect people, property and the environment from damage related to stormwater runoff. Seattle's stormwater code also satisfies the City's obligation to comply with our Municipal Stormwater Discharge National Pollutant Discharge Elimination System (NPDES) Permit, issued by the Washington State Department of Ecology.

Shape Our Water (SPU 2023-2053)

This community-centered project will plan for the next 50 years of resilient drainage and wastewater systems. As Seattle faces powerful forces like climate change and rapid growth, future investments in water systems will transform the city. This effort will look beyond pipes and green infrastructure to see the broader role in people's lives, including safer neighborhoods, deeply rooted communities that resist displacement, thriving local businesses, and healthy and fun public spaces.

5.3.3 Voter Approved Property-Tax Levies

Many projects and programs are funded by special purpose voter-approved property tax levies. In Seattle, these funds have been an important source of funding for hazard mitigation. Seismic retrofits of transportation infrastructure, libraries, community centers are examples of mitigation projects included in these initiatives. Planning projects to be included in upcoming levies typically begins two to three years prior to the ballot date. The City also prepared a consolidated plan to document how it plans to spend federal funding provided through a number of programs.

Housing Levy (expires 2023)

Approved by Seattle voters in August 2016, the 7-year, \$290 million levy Seattle Housing Levy provides funding to provide, produce, and/or preserve affordable housing in Seattle and to assist low-income Seattle residents. The Levy funds five programs: Rental Production and Preservation, Operating and Maintenance, Homeownership, Acquisition and Preservation, Homelessness Prevention and Housing Stability Services. OH administers all 2016 Seattle Housing Levy programs except the Homelessness Prevention and Housing Stability Program, which is administered by the HSD.

Move Seattle Levy Fund (expires 2024)

Approved by Seattle voters in November 2015, the 9-year, \$930 million Levy to Move Seattle provides funding to improve safety for all travelers, maintain our streets and bridges, and invest in reliable, affordable travel options for a growing city. The levy provides roughly 30% of the City's transportation budget and replaces the 9-year, \$365 million Bridging the Gap levy approved by voters in 2006.

Families and Education Levy Fund (expires 2025)

Approved by Seattle voters in November 2018, the 7-year, \$619 million Families, Education, Preschool and Promise Levy will partner with families and communities to advance education equity, close opportunity gaps, and build a better economic future for Seattle students. A portion of levy funds is allocated to the Seattle Preschool Program Provider Facilities Fund to support capital projects that improve quality or help providers meet preschool facility licensing standards, expand space in existing SPP preschool facilities, start new facilities, either from the ground up or by substantially remodeling existing buildings to use as part of SPP.

Libraries for All Levy (expires 2026)



Approved by Seattle voters in August 2019, the 7-year, \$219.1 million Libraries for All Levy restores core Library services cut during the Great Recession, invests in critical systems' needs, and support the changing needs and interests of the communities we serve. Funding for earthquake retrofit of the historic Columbia, Green Lake and University branches were included.

Fire Facilities and Emergency Response Levy (expired)

In the aftermath of the 2001 Nisqually earthquake, in 2004 Seattle voters approved a 7-year, \$167 million Fire Facilities and Emergency Response Levy to provide funding to strengthen the City's ability to respond after a major disaster. Funds were used to renovate or replace all 32 neighborhood fire stations, build a new joint training facility for Seattle Fire and Seattle Public Utilities, construct a new fire alarm center and City emergency operations center, harden fire hydrants so firefighters can draw water directly out of eight City reservoirs, place emergency generators at community centers, and place emergency supply caches in four areas of the City.

Seattle Parks District Funding (no expiration)

Approved by Seattle voters in 2014, the metropolitan park district is authorized by Chapter 35.61 of the Revised Code of Washington. The Seattle Park District has the same boundaries as the City of Seattle and the Seattle City Council members serve as the Park District's Governing Board. Property taxes collected by the Seattle Park District will provide funding (\$55 million in 2019) for City parks and recreation including maintaining parklands and facilities, operating community centers and recreation programs, and developing new neighborhood parks on previously acquired sites. Seattle Parks and Recreation develops a 6-year Park District budget. However, planning for the next 6-year budget (2021-2026) has been delayed due to challenges in getting community input during COVID-19.

5.3.4 Community-led City Investments

For many years the City has directed City funds to support community-initiated capital projects and education programs. One of the earliest initiatives, the Neighborhood Matching Fund, was created in 1988 to provide matching dollars for neighborhood improvement, organizing, or projects developed and implemented by community members. The number of community grants and the funds allocated has grown. Communities are not only initiating capital projects implemented by City departments, but increasingly communities are leading the implementation of larger capital projects that involves land, buildings, and other physical structures. While programs are still evolving, there is an opportunity to share the City's mitigation goals and values to protect community-led investments and assets from hazards and future disasters.

Equitable Communities Initiative (\$30 million in FY 2021)

This fund, new in 2021, will focus on ensuring that BIPOC communities thrive. It will be guided by a community-led Equitable Communities Initiative Task Force who will receive the technical assistance of at least 18 City Departments. Potential areas for investment include building opportunity, inclusive economy, community wealth building, preserving cultural spaces, community wellness and climate justice. Task force recommendations could include expanding current programs, refocusing current City investments, creating new programs or investments or pilots, capacity building for community-based organizations, and identifying new and complementary opportunities for investment by philanthropy, regional, state or federal partners.

Strategic Investment (Anti-Displacement) Fund (\$30 million in FY 2021)



This fund, new in 2021, will support strategic investment in areas at high risk of displacement or in areas of low access to opportunity that present unique opportunities for transformational equitable development. This would include areas with significant planned public investment like light rail station areas and parks, where increased access to opportunities will likely also increase displacement pressure. This fund will focus on sites and projects with the potential to achieve multiple community benefit outcomes through mixed-use and mixed-income development that creates opportunities for housing, affordable commercial and cultural space, public open space, and childcare.

Participatory Budgeting (\$18 million in 2021)

This program, new in 2021, will engage communities in a participatory budgeting process. About \$17 million will fund successful project proposals for implementation of community safety strategies.

Equitable Development Initiative (\$5.6 million in 2021)

Equitable Development Initiative (EDI) invests in community-led efforts aimed at addressing issues of racial equity, social justice, economic mobility, and residential, cultural and commercial displacement. The Equitable Development Framework guides how the City prioritizes its work; shapes its budgets, policies, programs, and investments; and structures the implementation of targeted strategies and equitable development projects by using clear objectives for reducing disparities and achieving equitable outcomes for marginalized populations. OPCD coordinates this initiative.

Community Grants (\$5.0 million in 2021)

Community Grants support to local grassroots projects within neighborhoods and communities by providing funding to implement community-driven improvement or education projects such as community infrastructure, public space, and public health. The programs that support this work include Neighborhood Matching Fund, Duwamish River Opportunity Fund, Find It Fix, Healthy Food Fund. DON also administers grants for the 135 designated Community Emergency Hubs. DON manages these grants.

Environmental Justice Fund (\$500,000 in 2020)

The Environmental Justice Fund is a grant opportunity for community-led projects that improve environmental conditions, respond to the impacts of climate change, and get us closer to achieving environmental justice. Community members and Seattle City Council worked together to create the Environmental Justice Fund in 2017. Seattle's Environmental Justice Committee plays a critical role in overseeing the fund to ensure the experiences and priorities of BIPOC communities shape the work. OSE manages this fund.



5.4 Department-Specific Capabilities

Departments are listed alphabetically by acronym.

5.4.1 Office of Arts and Culture (ARTS)

The Office of Arts & Culture (ARTS) envisions a city driven by creativity that provides the opportunity for everyone to engage in diverse arts and cultural experiences. The office promotes Seattle as a cultural destination and invests in Seattle's arts and cultural sector to ensure the City provides a wide range of high-quality programs, exhibits and public art. ARTS includes eight programs: Cultural Partnerships, Communications and Outreach, Equity and Youth, Cultural Facilities Operations, Public Art, Artwork Conservation, Administrative Services, and Cultural Space. These programs are supported by two funding sources: Arts and Culture Fund (funded through the City's admission tax revenues) and the Municipal Arts Fund (supported by the 1% for Arts contributions from City capital projects).

Existing Mitigation Capability	Capability Type	Description	Hazard Mitigated
Public Art	Administrative and Technical Financial	Oversee the City's public art collection. Manage the Municipal Arts Fund for the commission, purchase, and installation of public art. Funding through 1% for Art ordinance that requires eligible City capital projects to contribute 1% of their budgets to the Municipal Arts Fund. Provides professional assessment, conservation, repair, and routine and major maintenance of permanently-sited works of art. As of 2020 the public art collection includes 400 permanently-sited and 3,200 portable works of art and periodic temporary art installations. All public art installations are subject to regulation by Seattle Municipal Code and ADA guidelines. Recent accomplishments include: ARTS created an Inspection List for integrated public portable artworks to prioritize damage assessments after a disaster.	All Hazards
Cultural Facilities Operations	Administrative and Technical	Provide operational support for Langston Hughes Performing Arts Institute. Support the operation and programming of ARTS at King Street Station, including a public cultural space, office space for ARTS, and meeting spaces. Recent accomplishments include: • ARTS worked with SDOT and FAS to completely renovate and retrofit 7,500 sf 3rd floor of King Street Station including stabilization support beams and an updated sprinkler system. Renovations completed in 2019.	Earthquake Fire

5.4.2 City Budget Office (CBO)

The City Budget Office (CBO) is responsible for developing and monitoring the City's annual budget, carrying out budget-related functions, overseeing fiscal policy and financial planning activities, policy analysis, and preparing legislation for City Council review. CBO provides strategic analysis relating to the use of revenues, debt, long-term issues, and special events. The office also provides technical assistance, training, and support to City departments in



performing financial functions. The Innovation and Performance team is also in CBO, supporting and advancing initiatives by using data and design to solve problems.

Existing Mitigation	Capability	Description	Hazard
Capability	Type		Mitigated
Oversight of City Fiscal Policy and Financial Planning	Financial	Provide strategic analysis and oversight for financial functions within the city. Work closely with all city departments in their fiscal policy and financial planning. One primary example would be the monitoring and development of the budget for Seattle's Capital Improvement Program (CIP) which allocates funds to rehabilitate, restore, improve, and add to the City's capital facilities. Recent accomplishments include: Monitoring and development of the budget for Seattle's 2020-2025 Capital Improvement Program (CIP), which identifies City investments including projects that mitigate hazards.	All Hazards

5.4.3 Department of Neighborhoods (DON)

The Seattle Department of Neighborhoods provides resources and opportunities for community members to build strong communities and improve their quality of life. With more than 180 neighborhoods in the city, the department plays a key role in helping neighbors develop a stronger sense of place, build closer ties, and engage with their communities and city government.

Existing Mitigation Capability	Capability Type	Description	Hazard Mitigated
Historic Preservation Program	Regulatory	Designate and protect more than 350 historic structures, sites, objects, vessels, and eight historic districts. Recent accomplishments include: • A number of historic buildings have undergone, or are in the process of undergoing, seismic renovation from damage sustained during the Nisqually earthquake.	Earthquake
Historic Preservation Program	Education and Outreach	Provides technical assistance for historic preservation. Recent accomplishments include: Provided technical assistance to University of Washington for a comprehensive multi-building approach to URM upgrades; provided education resources/best practices/technical assistance in presentations given at URM related conferences and symposiums.	Earthquake
Community Liaison Program	Education and Outreach	Manage Community Liaisons (CL). CLs are independent contractors who are expert community navigators who provide a number of outreach services in historically underrepresented communities: translations, proofreading, interpretation, facilitation (in native language), constituent support at City-hosted events, feedback and expertise on cultural concerns and barriers, reports of participant feedback and concerns, and community workshops. In 2018, Community Liaisons worked with 15 City departments on 48 outreach and engagement projects.	All Hazards

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Community Grants Program	Financial	Provide support to local grassroots projects within neighborhoods and communities by providing funding to implement community-driven improvement projects. The programs that support this work include Neighborhood Matching Fund, Duwamish River Opportunity Fund, Find It Fix It, Healthy Food Fund. Communities could propose mitigation projects through these programs. DON also administers grants for the 135 designated Community Emergency Hubs. Recent accomplishments include: In 2020, awarded \$33,360 grant to develop five additional emergency hubs, translate current Hub brochure and videos into multiple languages, and provide interpretation at 2021 outreach events. In 2015, awarded \$15,000 to the South Park Area Redevelopment Committee and South Park Senior Citizens to develop more stable food sources for the Senior Center Meal Program.	All Hazards
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5.4.4 Finance and Administrative Services (FAS)

The Seattle Department of Finance and Administrative Services (FAS) has the most diverse set of responsibilities of any City department. FAS combines the functions from the former Fleets and Facilities Department and the former Department of Executive Administration with the revenue forecasting, debt management, and tax policy functions that were previously performed by the former Department of Finance. It also houses the Customer Service Bureau, Neighborhood Service Centers, and manages the Find It, Fix It app. As a result, the department provides a variety of services to City departments and the public, including citywide operational responsibilities for accounting, payroll, licensing, revenue collection and processing, animal services, weights and measures, treasury activities, purchasing, construction and consultant contracting, risk management, the City's financial management and personnel data systems, and management of City real estate, buildings, and vehicles, as well as construction and renovation of fire stations as part of the Fire Facilities and Emergency Response Levy. FAS-managed facilities and IT infrastructure. Schedule 1 facilities are comprised of existing and future office buildings located in downtown Seattle, including but not limited to City Hall, the Seattle Municipal Tower and the Justice Center Schedule 2 facilities are comprised of existing and future structures, shops and yards located throughout Seattle, including but not limited to City vehicle maintenance facilities at Haller Lake and Charles Street, FAS shops located at Airport Way S., fire stations, police precincts including the animal shelter, and other FAS managed facilities used for City Services.

Existing Mitigation Capability	Capability Type	Description	Hazard Mitigated
Capital Improvement Program (CIP)	Financial	Develops capital projects for FAS-managed facilities and IT infrastructure, and coordinates with CBO to prepare the CIP, a six-year financial planning tool that identifies future capital investments and potential strategies for funding those investments. Recent accomplishments include: The renovation and seismic retrofit of Fire Station 5 was completed in 2018.	All Hazards
Seismic Program	Administrative and Technical	Perform seismic assessment to identify seismic risk at FAS facilities. Recent accomplishments include: • A seismic assessment of the North Precinct was performed in 2019.	Earthquake



Facilities and Emergency Response Program (Fire Facilities and Emergency Response Levy)	Financial	Manage the voter-approved Fire Facilities and Emergency Response Levy. The levy provided \$167 million to enable the Seattle Fire Department to be more resilient in dealing with crisis situations, especially those that could damage critical department assets and disrupt emergency operations. Recent accomplishments include: The construction of Fire Station 22 was completed in 2017. The construction of Fire Station 32 was completed in 2017.	All Hazards
Mail Safety Protocol	Administrative and Technical	Implement bomb detection procedures to screen incoming package for potential threats. Employees are trained in procedures to safely handle suspicious packages in coordination with SPD. Recent accomplishments include: Trained mailroom staff to be aware of what to look for in a suspicious mail or package. Conducted training for City Departments by the USPS Postal Inspectors and Seattle Police Bomb Squad on what they should be looking for and what to do if they find something suspicious. Training was completed in October 2018.	Attacks
Safe and Healthy Buildings for City Workforce	Administrative and Technical	Manage 120 City facilities to be safe and healthy buildings for the City workforce. Recent accomplishments include: • Implemented safety protocols in response to the COVID-19 pandemic. To improve indoor air quality HVAC filters were upgraded to MERV-13 in 2020.	Disease Outbreak

5.4.5 Human Services Department (HSD)

The Seattle Human Services Department (HSD) is one of the largest contributors to Seattle's safety net. HSD operates programs, provides services and is responsible for investing more than \$120 million in contracts to more than 170 community-based human service providers that support the city's most vulnerable each year. Through the lens of racial equity, HSD supports programs, initiatives and policies that prepare youth for success, support affordability and livability, address homelessness, promote public health and promote healthy aging.

Existing Mitigation Capability	Capability Type	Description	Hazard Mitigated
Aging Disability Services	Planning, Administrative, Education and Outreach	Prepare clients and home care agencies in Seattle and King County to be ready in case of a disaster. Recent accomplishments include: • As the Area Agency on Aging (AAA) for Seattle and King County, developed the Area Plan 2020-2023, which includes an Emergency Response Plan. • Developed COVID-19 care guidance on various topic areas and provided to home care agencies, case managers and case managed clients. Planning unit worked closely with King County housing providers on resident signage,	All Hazards



	education and face covering use. Collaborated with Public Health to address availability of influenza vaccinations for underinsured and uninsured for 2019-2020 season.	
•	Developed Respiratory Health during Wildfire Smoke Exposure Self-Management Plan.	
•	Coordinate disaster response plans with home care agency directors.	
•	Maintain list of high-risk clients that is used to prepare for and respond to disasters to include weather, wildfire smoke, and changes to roads (e.g., closure of Viaduct).	
•	Provide emergency preparedness information to clients and help clients with personal emergency plans. Distributed Red Cross emergency kits to clients and staff.	

5.4.6 Seattle Information Technology Department (ITD)

The Seattle Information Technology Department (ITD) manages the City's information technology infrastructure and performs strategic information technology planning. ITD coordinates strategic technology direction for the City by developing common standards, architectures, and business solutions to deliver City services more efficiently and effectively; builds and operates the City's corporate communications and computing assets, which include the City's telephone, radio, and email systems, networks, and servers; and oversees development of the Democracy Portal, a project to improve the City's government access television station and its accompanying web site by providing new programming, live Web streaming of City Council meetings, live "webcasting" and interactive services that allow residents to access government information and contact decision makers.

Existing Mitigation Capability	Capability Type	Description	Hazard Mitigated
Puget Sound Regional Interoperability Committee	Technical	Plan interoperable infrastructure initiatives across King, Pierce, and Snohomish counties. Tri-County Regional Interoperability, which links the radios from King County, Snohomish County, Tacoma, and the Port of Seattle with conventional radio in Pierce County, Washington State Patrol, and the Federal Integrated Wireless Network.	All Hazards
Regional Communications Board	Administrative	Govern the King County public safety radio network. The Seattle Information Technology Department operates a portion of the radio network system, including nine radio sites and 6,000 800-megahertz public safety radios that link every police and fire agency in the County, as well as Seattle Public Utilities.	All Hazards
Capital Improvement Program (CIP)	Financial	Propose capital projects and coordinate with FAS and CBO to prepare the CIP, a six-year financial planning tool that identifies future capital investments and potential strategies for funding those investments. Recent accomplishments include: Replacement of two old radio towers in Northeast and West Seattle. Establishment of two separate data centers with 50 miles of separation. Cloud infrastructure and data back up in place.	Earthquake

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King County Emergency Management Advisory Committee	Administrative	Participate in the ICC EMAC Critical Infrastructure Workgroup. Recent accomplishments include: Series of Cybersecurity "Emerald Downs" exercises and workshops to advance the understanding of county and local government responsibilities. Securing funding through State Homeland Security Grants.	Cyber-attack and Disruption
2020 ITD Digital Security & Risk Register	Administrative	Perform an annual assessment of 73 CIS/NIST framework risk controls. Recent accomplishments include: ITD Digital Risk Register Report Projects: Fire Eye, Zen GRC	Cyber-attack and Disruption

5.4.7 Public Health – Seattle & King County (PHSKC)

Public Health – Seattle & King County (PHSKC) provides public health services for the City, including services for children and youth, persons with chronic disease, and communicable diseases; immunization services; environmental health services; public health emergency preparedness; emergency medical services; violence and injury prevention services; a medical examiner; nutrition support services; and tobacco prevention programs.

Existing Mitigation Capability	Capability Type	Description	Hazard Mitigated
Health Code and other codes	Regulatory	Has legal authority over Code of the King County Board of Health. Updated 2018, and King County Code Title 12: Public Peace, Safety, and Morals. Recent accomplishments include: Board of Health Code was updated in 2018.	All Hazards
Emergency Program	Planning, Administrative, Regulatory	Maintain Emergency Support Functions (ESF) 8 of Comprehensive Emergency Management Plan (CEMP) Basic Plan: Health, Medical, and Mortuary Services and has a designated emergency manager and section to handle emergency management. Implements a training and exercise program to support the general public's health and safety by training Public Health staff on their role in an emergency and disaster. Maintains a well-developed risk communication plan. Recent accomplishments include: ESF-8 Basic Plan updated 2018. ESF-8: Environmental Health Emergency Response Annex updated 2018. ESF-8: Medical Countermeasures Annex updated 2018. Isolation and Quarantine Plan updated 2017 Mass Fatality Management Plan updated 2018 Equity Response Annex updated 2019 Environmental Health Services Division 24HR Emergency Notification Reporting Line established Nov. 2019.	All Hazards

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Services for Vulnerable Populations	Administrative/ Technical	Provide equitable health services, through Healthcare for the Homeless program, to vulnerable populations through engagement with homeless service providers. In addition, Environmental Health Services Division's Community Toxics, Science, and Policy Section provides homeless service providers with guidance and resources to ensure implementation of proper sanitation and hygiene measures within shelters and unsanctioned encampments. Recent accomplishments include: 2017-2020 Hep-A vaccination strategy, coordinating with homeless service providers to hold Hep-A vaccination clinics for individuals living as homeless. Sanitation & Hygiene Guidance for Homeless Service Providers; issued Oct. 201.9	Disease Outbreak
Climate Change & Health	Planning	Adopted PHSKC Blueprint for Addressing Climate Change in 2018. This outlines core PHSKC functions, strategies, and actions to develop internal expertise, analyze gaps and opportunities for prioritizing work, and build on current programs and projects to address climate change impacts on health and equity.	Climate Change, All Hazards

5.4.8 Office of Economic Development (OED)

The Office of Economic Development (OED) seeks to foster an inclusive economy that grows family-wage jobs and increases wealth among underserved communities. OED invests in four primary program areas all targeting underserved populations: supporting entrepreneurs; building healthy and vibrant neighborhood business districts; developing the talent of youth and adults; and partnering with key industry sectors. The core services OED provides capitalize on Seattle's economic strengths, particularly in the industry areas of manufacturing and maritime, technology, startups, restaurants, health care, life sciences and global health, clean technology, and the creative economy.

Existing Mitigation Capability	Capability Type	Description	Hazard Mitigated
Neighborhood Business Districts	Financial, Education and, Outreach	Support small businesses and neighborhood business districts through direct funding and technical support. Work through business district organizations and business improvement associations (BIAs) to distribute information and provide assistance. Recent accomplishments include: In response to COVID-19, the OED expanded the Small Business Stabilization Fund to provide relief for small businesses financially impacted by the virus. To date, the department has provided \$10,000 grants to over 706	Disease Outbreak Fire HazMat Incident

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		 businesses from high risk of displacement/highly disadvantaged areas and anticipates investing an additional \$5 mill to stabilize small businesses in the city of Seattle. In 2020 OED established the language access resource line to support small business owners with resources and information in over 8 different languages. OED has also hosted webinars directed at small businesses and business outreach organizations to provide information about resources, organize outreach and direct technical assistance to small businesses in need. OED has distributed information via social media, e-newsletters, ethnic media, and via partners' electronic communication channels. In response to incidents such as fires and explosions within business districts (Ballard & Chinatown-ID fires and Greenwood gas explosion) OED staff have provided direct technical assistance to businesses to make insurance claims and apply for FEMA and SBA resources. 	
Special Events	Regulations	Support special events through advocacy and permit coordination to encourage and maximize positive business, economic, and cultural activity while ensuring public safety.	All Hazards

5.4.9 Office of Emergency Management (OEM)

The Seattle Office of Emergency Management (OEM) is responsible coordinating the City's resources and responsibilities in dealing with all aspects of emergencies. Its basic mission is devoted to citywide disaster preparedness, response, recovery, and mitigation. It places a strong emphasis on individual and community preparedness and provides a key liaison function between the city and its state and federal emergency management counterparts.

Existing Mitigation	Capability	Description	Hazard
Capability	Type		Mitigated
Hazard Vulnerability and Risk Technical Expertise	Technical	Provide information and expertise about hazard vulnerability and risk. Update the Seattle Hazard Identification and Vulnerability Assessment (SHIVA) every four years. The SHIVA identifies Seattle's hazards and examines their consequences providing a foundation for the City's disaster planning and preparedness activities. Provide technical assistance on hazards and vulnerability to support emergency management planning, projects and other implementation. Recent accomplishments include: Updated the SHIVA in 2019. Created and updates Hazard Explorer, an online GIS resource providing accessible mapped data of various hazards. Participated in pilot of One Concern, a disaster simulation tool. Participated in beta-test for Shake Alert Earthquake Early Warning system to deliver early warning of impending hazardous ground shaking to key public safety officials. Ongoing. Participated in standing working groups focused on specific hazards such as Tsunami Working Group.	All Hazards



Hazard Mitigation Grant Funding and Program Coordination	Planning and Administrative	Manage applications and administration of State/FEMA Mitigation grants on behalf of the City. Recent accomplishments include: Between 2016 and 2020, the City was awarded approximately \$9.4 million in grant funding for mitigation projects.	All Hazards
Emergency Management Stakeholder Coordination	Planning and Administrative	Convene internal and external stakeholders to support the City's emergency management functions, including mitigation. City stakeholders include Mitigation Work Group, Strategic Work Group, Tsunami Working Group and the Executive Emergency Board. External stakeholder groups include the Disaster Management Committee, and Community Safety Ambassadors. Recent accomplishments include: Participate in the interdepartmental Climate Justice Working Group created in 2020.	All Hazards
Comprehensive Emergency Plans	Planning	Maintain a suite of plans that guide the city in its mitigation of, response to, and recovery from a disaster. These include Seattle All-Hazards Mitigation Plan, Seattle Comprehensive Emergency Management Plan and Seattle Disaster Recovery Framework. Recent accomplishments include: Adopted the Seattle Disaster Recovery Framework in July 2015. Adopted an updated Seattle Comprehensive Emergency Management Plan and Emergency Operations Plan in December 2017.	All Hazards

5.4.10 Office of Housing (OH)

The mission of the Seattle Office of Housing (OH) is to support the preservation and production of affordable housing through long-term loans to mission-based multifamily developers in Seattle. The Office of Housing also provides home repair and weatherization programs for lower-income residents. A guiding principle of OH is to create a more equitable and affordable community through affordable housing investments.

Existing Mitigation	Capability	Description	Hazard
Capability	Type		Mitigated
Capital Financing and Resources	Regulatory Financial	Serve in the capacity as a lender and compliance monitor for the production of affordable rental housing in the City. Works in close partnership with a network of mission- based non-profits and provides resources and investment for housing initiatives. Resources could potentially provide funding for seismic reinforcement in affordable housing projects. Recent accomplishments include: In 2020, received FEMA Pre-Disaster Mitigation Grant funding on behalf of Community Roots Housing for The Bremer Project, a seismic retrofit of an identified URM building of affordable housing. First time this was done and OH is exploring other opportunities to replicate this model. In 2016, voters approved a six-year \$290 million Affordable Housing Levy to create or preserve affordable housing for seniors, low- and moderate-wage workers, and formerly homeless individuals and families. Also, will provides	Earthquakes

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		assistance to more than 900 first-time low-income home buyers and emergency rental assistance to more than 6,500 households. In 2018 the City enacted Mandatory Affordable Housing that requires new commercial and multifamily residential development contributes to affordable housing expanding OH's financial resources.	
HomeWise Weatherization Program	Technical	Provide weatherization services to income eligible households to install improvements such as insulation, duct and air sealing, ductless heat pumps, new hot water tanks, furnace repair or replacement, new kitchen and bathroom fans, and new energy efficient refrigerators. Recent accomplishments include: In 2019, the OH Weatherization Program expended \$4.74 million in grant funds and completed the upgrades in 97 single-family homes which benefited low-income renters and homeowners. Also provided weatherization services to nine (9) affordable apartment buildings that contained 469 units.	Climate Change

5.4.11 Office of Planning and Community Development (OPCD)

The Office of Planning and Community Development (OPCD) supports thriving communities through an integrated and equitable approach to planning and community investment. OPCD works across City departments to assess community needs, prioritize resources, and develop a vision for how Seattle grows to ensure that we are coordinating and implementing our plans with a cohesive vision. We are working toward a city that is inclusive, affordable, vibrant, interconnected, and innovative. We partner with neighborhoods, businesses, agencies and others to bring about positive change and coordinate investments for Seattle communities.

Existing Mitigation Capability	Capability Type	Description	Hazard Mitigated
Seattle Comprehensive Plan	Plans and Regulations	Maintain the Comprehensive Plan, a 20-year vision that guides City big-picture decisions on how to grow while preserving and improving our quality of life. Recent accomplishments include: • Adopted Seattle 2035 in 2016, an update of the plan to guide how Seattle will grow by 70,000 households and 115,000 jobs over the next 20 years.	All Hazards
Community Planning	Plans and Regulations	Lead community planning processes in multiple neighborhoods each year. The City engages organizations and individuals to come together to shape the future of their neighborhood by setting long range goals and policies, designing strategies, and coordinating city investments. In 2018 OPCD adopted a community prioritization process that includes "environmental burdens" and "public safety concerns" as two factors to determine where community planning resources will be focused.	All Hazards

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5.4.12 Office of Sustainability and Environment (OSE)

Existing Mitigation Capability	Capability Type	Description	Hazard Mitigated
Seattle Climate Action Plan	Planning and Administrative	Implement the Seattle Climate Action Plan (2013) and Climate Action Strategy (2018) to reduce Seattle's greenhouse gas emissions, including goal assessment, action planning, community outreach, and performance measurement. The Seattle Climate Action Plan (CAP) provides a coordinated strategy of short- and long-term City actions to reduce GHG emissions while also supporting other community goals, including building vibrant neighborhoods, fostering economic prosperity, and enhancing social equity. The CAP focuses on road transportation, building energy, and waste as well as actions that will increase our community's resilience to the likely impacts of climate change.	All Hazards
Food Access Action Plan	Planning and Administrative, Financial	Provide direct benefits that increase purchasing power of residents experiencing food insecurity to afford healthy food through Fresh Bucks and Emergency Grocery Vouchers. Implement Seattle's Food Action Plan, a five-year plan, adopted in 2013 containing 40 actions to increase access to get more healthy food to more Seattle residents, expand opportunities to grow food in the city, strengthen our regional food economy, and reduce food related waste.	All Hazards
Duwamish Valley Program and Action Plan	Planning and Administrative	Co-lead (with OPCD) a multi-department effort to mitigate the combined impacts of environmental inequities, climate change, and systemic racism in South Park and Georgetown. Implement the Duwamish Valley Action Plan that includes 87 City and community-led actions in seven priority areas: Healthy Environment, Parks & Open Spaces, Community Capacity, Economic Opportunity & Jobs, Mobility & Transportation, Affordable Housing, and Public Safety. Plan promotes collaboration and guides the City's work and investments in the Duwamish Valley. interdependence. The program also supports community-led projects funded by the Duwamish Valley Opportunity Fund (DVOF). Recent accomplishments include: Since 2015 the DVOF has granted \$1.1 million to 37 community projects including several to mitigate hazards related to flooding, excessive heat events and hazardous materials. Between 2016 and 2018, the City invested over \$2M in investments to respond to community priorities. Release the Duwamish Valley Action Plan in 2018.	All Hazards

5.4.13 Seattle Center (SC)

Seattle Center (SC) is a valued civic asset with community roots that reach back in time to native tribes and pioneers. Today, the 74-acre campus is the region's top visitor destination. Over 14,000 events presented on the campus each year, attracting millions of Seattle residents, arts patrons, out-of-town guests, and global travelers. The Seattle Center grounds and venues support an extraordinary level of arts, cultural, sports, educational and tourism activities. The City looks forward to celebrating the opening of Climate Pledge Arena in 2021 as a world-class venue for sports and entertainment. The



Arena, housed in the landmarked Century 21 Coliseum building that dates to the 1962 World's Fair, represents nearly \$1 billion in private investment, and its operation will support the continued vibrancy and sustainability of Seattle Center for decades to come.

Existing Mitigation Capability	Capability Type	Description	Hazard Mitigated
Capital Improvement Program (CIP)	Financial	Develops capital projects and coordinates with CBO to prepare the CIP, a six-year financial planning tool that identifies future capital investments and potential strategies for funding those investments. Recent accomplishments include: • Seismic retrofit and deferred major maintenance of the Mercer Garage • Relining of existing Seattle Center owned sewer main lines • Roof replacements at Cornish Playhouse and the Seattle Children's Theatre • Monorail deferred major maintenance including update of electrical rooms and seismic evaluation of the Seattle Center station • Preservation and redevelopment of the historic Century 21 Coliseum roof, superstructure and façade to reopen as Climate Pledge Arena in 2021	All Hazards

5.4.14 Seattle City Light (SCL)

Seattle City Light (SCL) was created in 1902 to provide affordable, reliable, and environmentally sound electric power to the City of Seattle and neighboring suburbs. Owned by the community it serves, Seattle City Light is a nationally recognized leader in energy efficiency, renewable resource development, and environmental stewardship. Seattle City Light provides electric power to more than 360,000 residential, business, and industrial customers. Its service area of 131.3 square miles includes the City of Seattle, areas north of Seattle, including the city of Shoreline and parts of Lake Forest Park, and areas south of Seattle, including the cities of Burien, Tukwila, and SeaTac. To serve these customers, City Light owns, maintains, and operates a multi-billion-dollar physical plant that includes: a power generation system consisting of seven hydroelectric plants on the Pend Oreille, Skagit, Cedar, and Tolt rivers; 656 miles of high-voltage transmission lines linking these plants to Seattle; a distribution system with 15 major substations and more than 2,500 miles of overhead and underground cable; a state-of-the-art System Operations Center coordinating the City's electric system; and billing and metering technology tracking approximately 461,000 accounts.

Existing Mitigation	Capability	Description	Hazard
Capability	Type		Mitigated
Mitigation Policy	Planning and Administrative	Conduct structural mitigation, security, and non-structural mitigation projects as facility upgrades are made. Recent accomplishments include: Created the Disaster Recovery and Business Continuity Planning (Information Technology Division) Installed a fail-over redundancy system with backup at an off-site location for data systems.	All Hazards



Dam Safety Program	Planning and Administrative	Oversee the Dam Safety Program involving the coordination, monitoring, and oversight of activities for six major dams to reduce the risk and impacts from dam failure due to natural and man-made hazards. Recent accomplishments include: Vulnerability and threat assessments for the Skagit and Boundary Hydroelectric Projects and the Cedar Falls/Tolt dams. Skagit Spillway Gate seismic strengthening at Ross and Diablo dams. Hillside and slope stabilization at Boundary, Diablo, and Ross dams. Equipment installation and monitoring to detect dam movement, measure high flows, and dam failure at Cedar Falls and Boundary dams. Annual dam safety inspections by the Federal Energy Regulatory Commission (FERC). Procedures for dam inspections following events Emergency Action Plans for facilities. Annual update/tests of emergency procedures.	All Hazards
Capital Improvement Program (CIP)	Financial	Develop capital projects and coordinate with CBO to prepare the CIP, a six-year financial planning tool that identifies future capital investments and potential strategies for funding those investments. CIP projects repair, upgrade, and expand SCL's physical plant, and implement a variety of safety improvements, mitigation activities, and licensing requirements. Recent accomplishments include: Completed a joint assessment project for the Cedar Falls/Tolt Dams.	All Hazards
Hazard tree mitigation (vegetation management) near SCL Right-of-Way	Administrative and Technical	Identify and abate hazard from trees that are likely to fail and cause power outages in all the identified areas. SCL maintains over 300,000 trees adjacent to 1700 miles of distribution power lines throughout Seattle, Burien, Lake Forest Park, Normandy Park, Renton, SeaTac, Shoreline, Tukwila, and unincorporated King County. Also, SCL manages vegetation along 657 miles of transmission power lines passing through five counties across Washington State. Recent accomplishments include: Identified all areas that need vegetation management.	Fires, Landslides, Power Outages, Snow and Ice Storms, and Windstorms
Remove/sample PCB transformers	Administrative and Technical	Ensure full compliance with laws and regulations for all transformers. The PCB master plan was completed in 2014 and software to track the PCB concentration of all transformers was implemented in 2015. SCL is replacing transformers that need critical attention and establishing procedures for transformer inspections. SCL will complete the project by 2021.	Earthquakes, Snow and Ice Storms, and Windstorms
Charging Stations	Administrative and Technical	Make available a charging station to deploy throughout the greater Seattle area. Locate two mobile trailers. Purchase equipment for the mobile units. Complete the study on most vulnerable areas in Seattle. Deployment of mobile unit procedures.	Climate Change

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5.4.15 Seattle Department of Construction and Inspections (SDCI)

The Seattle Department of Construction and Inspections (SDCI) develops, administers, and enforces standards for land use, design, construction, and housing within the Seattle city limits. SDCI is also responsible for long-range planning, including Seattle's Comprehensive Plan and related projects-transportation improvements, neighborhood business revitalization, and downtown and waterfront planning.

Existing Mitigation Capability	Capability Type	Description	Hazard Mitigated
Seattle Unreinforced Masonry Retrofit Policy (in development)		This policy is under development to mitigate the risks associated with Unreinforced Masonry (URM) structures in the City. Recent accomplishments include:	
	Regulatory	 Finalized list of confirmed URM buildings. Supported National Development Council (NDC) efforts to develop financing report for URM retrofit. 	Farthquakos
		 Provided support for Alliance for Safety, Affordability, and Preservation (ASAP!) for development of permitting processes. 	Earthquakes
		Worked with OEM to continue URM Retrofit policy development.	
_		Provide rapid assessment of damaged buildings following earthquakes. Recent accomplishments include:	
Emergency Response and Recovery Roles	Administrative	Trained appropriate staff to conduct ATC-20 building safety assessments.	Earthquake
		Trained appropriate staff on required NIMS Incident Command System courses.	
TREGOVERY PROJECT		Trained appropriate staff on EOC procedures and WebEOC.	
Environmentally Critical Areas (ECA) Code	Regulatory	Administer the ECA Code which governs areas of Seattle that provide critical environmental functions. For example, wetlands can protect water quality and provide fish and wildlife habitat. The ECA code also addresses areas that represent particular challenges for development due to geologic or other natural conditions. The goal of the ECA regulations, (Seattle Municipal Code [SMC] Chapter 25.09) is to effectively protect these areas and to protect public safety, while allowing reasonable development. Specific hazard-related areas identified include:	Earthquakes Flood Landslides
		Geologic hazard areas including landslide-prone areas, liquefaction-prone areas, peat-settlement-prone areas, seismic hazard areas, and volcanic hazard areas.	Volcanic Hazards
		Flood-prone areas.	
		Administer the City's National Flood Insurance Program (NFIP). Recent accomplishments include:	
Floodplain Management		• Established and maintained eligibility in the Regular Phase of the NFIP since 1977.	
	Regulatory	 Maintains a National Flood Insurance rate map for properties identified as flood prone. These Digital Flood Insurance Rate Maps (DFIRMs) have been updated and will go into effect August 19, 2020. Interim regulations were adopted in Aug 2020 and permanent regulation will be adopted in Feb 2021. 	Flood
		Public outreach through a Community Assistance Visit will occur prior to adopting the updated mapping.	



		Seattle Municipal Code Chapter 25.06, as amended by Council Bill Number 114503 (2003), is the floodplain management chapter; it was reviewed and found to be fully compliant with the NFIP and State floodplain management regulations. The National Code Chapter 25.06 was assessed as the Coding of 125704 (Council Bill 110120) to under the coding of 125704 (Council Bill 110120) to under the coding of 125704 (Council Bill 110120) to under the coding of 125704 (Council Bill 110120) to under the coding of 125704 (Council Bill 110120) to under the coding of 125704 (Council Bill 110120) to under the coding of 125704 (Council Bill 110120) to under the coding of 125704 (Council Bill 110120) to under the coding of 125704 (Council Bill 110120) to under the coding of 125704 (Council Bill 110120) to under the coding of 125704 (Council Bill 110120) to under the coding of 125704 (Council Bill 110120) to under the coding of 125704 (Council Bill 110120) to under the coding of 125704 (Council Bill 110120) to under the coding of 125704 (Council Bill 110120) to under the coding of 125704 (Council Bill 110120) to under the coding of 125704 (Council Bill 110120) to under the coding of 125704 (Council Bill Bill 110120) to under the coding of 125704 (Council Bill 110120) to under the coding of 125704 (Council Bill 110120) to under the coding of 125704 (Council Bill Bill 110120) to under the coding of 125704 (Council Bill Bill 110120) to under the coding of 125704 (Council Bill Bill 110120) to under the coding of 125704 (Council Bill Bill Bill Bill Bill Bill Bill B	
		 The Municipal Code Chapter 25.06 was amended by Ordinance 125781 (Council Bill 119420) to update the referenced vertical datum. 	
Codes, Regulations, Rules, and Memos	Regulatory	Develops, adopts, and enforces codes, ordinances, and policies that regulate construction activities of new and existing buildings. The selected codes, regulations, rules, and memos mitigate damage caused by natural disasters. Key mitigation rules, memos, codes, and policies for which the department is responsible including Directors Rules, Client Assistance Memos, Seattle Construction Codes, Seattle Municipal Code, and other policy provisions. Recent accomplishments include:	All Hazards
		Updates to the building code to reflect changes tsunami standards in the International Building Code.	
Landslide	Education	Conduct public outreach with the intent of providing expert advice for property owners to manage landslide-prone areas. • Conducted public meetings.	Landslide
Awareness Program	and Outreach	Updated ECA Steep Slope Area Mapping Units.	Lanusiiue
		Updated ECA known landslide area mapping GIS information.	

5.4.16 Seattle Department of Transportation (SDOT)

SDOT's mission is to deliver a transportation system that provides safe and affordable access to places and opportunities. SDOT develops, maintains, and operates a transportation system that promotes the mobility of people and goods, and enhances the quality of life, environment, and economy of Seattle. Services are coordinated and delivered through 10 divisions that respond to changes in the function and use of the transportation system and the evolving needs of the businesses and people of the City of Seattle.

Existing Mitigation Capability	Capability Type	Description	Hazard Mitigated
Levy to Move Seattle	Financial	Fund bridge seismic retrofit program through this voter-approved transportation levy.	Earthquake
Move Seattle: 10- Year Strategic Vision for Seattle	Planning	This plan identifies actions to accomplish policies in the Comprehensive Plan and the Puget Sound Regional Council's Transportation 2040 plan, as well as integrate the City's 4 modal plans.	All Hazards
Transportation Asset and Performance	Planning and Administrative	This program focuses on getting the best results of performance for the prevention, improvement, and operation of infrastructure assets given the resources available.	Infrastructure and Structural Failure



Management Program			
Landslide Mitigation Program	Planning, Administrative and Technical	Conduct studies and direct CIP funds towards high priority arterial streets vulnerable to landslides. Track ongoing clean-up and maintenance costs associated with slide area and develop draft standards for tailoring streets and drainage in residential areas. Recent right-of-way landslide repair projects include: 4 - Soldier Pile Walls at various sites along 9700 block to 10300 block of Rainier Ave S 4 - Gravity walls at various sites along 9700 block to 10300 block of Rainier Ave S Soldier Pile wall at 10400 block 47 Ave SW Soldier Pile wall at 9400 block California Ave SW	Landslides
Areaways Program	Administrative and Technical	 Identify and implement mitigation projects for areaways - usable space, generally in the street right-of-way, constructed under sidewalks, and between the building foundation and the street wall. Recent accomplishments include: Monitoring Program – An extensive monitoring system has been installed in the most critical areaways in the Pioneer Square District Inspection – Condition inspection was performed on areaways in the International District. This inspection provides an important benchmark for determining deterioration. Reconstruction – elimination of areaway hazard Columbia St. 	Infrastructure and Structural Failure
Capital Improvement Program (CIP)	Financial	Recent accomplishments include: NE 45th St Viaduct (East Approach) Fairview Ave Bridge (East and West) Landslide Mitigation Projects. Areaway Projects	Earthquakes

5.4.17 Seattle Fire Department (SFD)

The Seattle Fire Department (SFD) has 33 fire stations located throughout the City. SFD deploys engine companies, ladder companies, and aid and medic units to mitigate loss of life and property resulting from fires, medical emergencies, and other disasters. SFD also has units for hazardous materials responses, marine responses, and high-angle and confined-space rescues. In addition, SFD provides leadership and members to several disaster response teams: FEMA Washington Task Force 1 Urban Search and Rescue, USCG Area Maritime Security Committee, and regional wildland firefighting through the Washington State Fire Mobilization Plan. SFD's fire prevention efforts include: fire code enforcement; inspections and plan reviews of fire and life safety systems in buildings; public-education programs; regulation of hazardous materials storage and processes; and regulation of public assemblies. FAS manages the construction, maintenance, and mitigation of all SFD facilities.

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Existing Mitigation Capability			Hazard Mitigated
Fire Prevention Division	Regulatory	 The Fire Prevention Division (FPD) administers the SFD fire prevention program to provide a reasonable level of life safety and property protection from the hazards of fires, explosions, and dangerous conditions, including releases of hazardous materials for Seattle's residents, workers, and visitors. Recent accomplishments include: From 2016-2020 approximately 3,300 facilities that store, dispense, use, or handle hazardous materials were inspected annually by the SFD Operations Division; the FMO processed approximately 300 new hazardous materials operational permit applications annually during the same period. Additionally, the FMO received and issued approximately 2,200 temporary permits related to hazardous activities annually primarily related to hot work (i.e., cutting, welding, and roofing operations). Provided oversight to testing and repairs for over 27,500 fire protection systems in the City of Seattle. More than 4,000 deficient systems were reported and repaired annually. Conducted over 1,600 compliance inspections annually to resolve complex or difficult fire code violations. Inspected over 430 high-rise buildings annually in Seattle to ensure fire and life safety in these uniquely risky structures. 	Fires HazMat Incidents
Local Emergency Planning Committee (LEPC)		This inter-jurisdictional public/private mitigation partnership is managed by the SFD and addresses hazardous materials issues. The Seattle LEPC actively participates with regional and state partners in the Washington State Emergency Response Commission (SERC). The goal of the SERC is to plan for and mitigate the effects of a release or spill of hazardous materials. Recent accomplishments include: In 2020 the Seattle LEPC received and distributed approximately 700 U.S. Department of Transportation Hazardous Materials Emergency Response Guidebooks to response agencies in the City of Seattle. These books provide responders with recommendations for initial identification and isolation actions when responding to hazardous materials incidents.	HazMat Incidents
Capital Improvement Program (CIP)	Financial	Proposes capital projects and coordinates with FAS and CBO to prepare the CIP, a six-year financial planning tool that identifies future capital investments and potential strategies for funding those investments.	

5.4.18 Seattle Police Department (SPD)

The Seattle Police Department's (SPD) primary mission is to prevent crime; enforce the law; and support quality public safety by delivering respectful, professional, and dependable police services. SPD is specifically charged with the enforcement of Title 11 (City of Seattle Traffic Code), Title 12 (City of Seattle Criminal Code), Revised Code of Washington Title 9A (Criminal Code), and statutes in Washington Code 9 (specified sections dealing with Criminal Law). Consistent with its mission, SPD has lead agency responsibility for all criminal investigations, to include civil disorder, bomb threats, and terrorism incidents as codified in Article VI of the Seattle City Charter. SPD operates within a framework that divides the city into five geographical areas called "precincts." These precincts define east, west, north, south, and southwest patrol areas, with a police station in each.



Existing Mitigation Capability			Hazard Mitigated
Incident Management Team Technical/Operational		Participates in the regional multi-discipline Type 3 Incident Management Team. Maintains a cadre of personnel to effectively manage major incidents or disasters and conducts regular training and exercises.	All Hazards
Fusion Center Administrative		Stage representatives with the Washington State Fusion Center to ensure interagency communication and collaboration in preparedness, prevention, and response efforts as they relate to Critical Infrastructure and Key Resources. The Fusion Center supports public safety and homeland security missions.	Attacks
		Proposes capital projects and coordinates with FAS and CBO to prepare the CIP, a six-year financial planning tool that identifies future capital investments and potential strategies for funding those investments.	All Hazards

5.4.19 Seattle Public Libraries (SPL)

The Seattle Public Library, founded in 1891, includes the world-renowned Central Library, 26 neighborhood libraries, a robust "virtual library" available 24/7 through the Library's popular website, a Mobile Services division, as well as leased storage and shops space. The Central Library provides library services for downtown residents and workers, is a hub for planning and developing systemwide programs and services, critical computer and Wi-Fi access for people without internet service, community meeting rooms and an auditorium for cultural and educational programs. The 26 neighborhood libraries provide services and programs close to where people live, go to school and work, and serve as neighborhood anchors for lifelong learning, civic engagement, and economic vitality. In 2019, The Seattle Public Library (SPL) hosted nearly five million in-person visitors and circulated 12.6 million items. More than 12,000 attended the Library's adult learning programs, 34,000 attended STEM-focused Summer of Learning activities and over 1,200 attended homework help sessions. The 2008 Library Levy, known as "Libraries for All", increased the amount of physical space by 80%. The next 2012 Library Levy provided funding to maintain the five new and 22 updated libraries. The 2019 Library Levy focuses on asset preservation and includes seismic retrofits at three century-old Carnegie-era branches.

Existing Mitigation Capability	Capability Type	Description	Hazard Mitigated
Library Levy	Financial	The 2019- 2026 voter-approved Library Levy funds capital projects, services and programs at all 27 libraries. • Included funding for seismic retrofits for three Carnegie-era branches (Green Lake, University and Columbia)	Earthquakes
Capital Improvement Program (CIP)	Financial	Develops capital projects for library facilities and coordinates with CBO to prepare the CIP, a six-year financial planning tool that identifies future capital investments and potential strategies for funding those investments. Recent accomplishments include:	Earthquakes



		Recent CIP was informed by an SDCI URM building survey that identified seven unreinforced masonry (URM) libraries. Three libraries were identified as high vulnerability (Green Lake, University and Columbia) and four libraries were medium vulnerability.	
Library Programs	Education and Outreach	Host a variety of educational displays and programs which in past have programs related to disaster preparedness, earthquakes, and other mitigation-related topics.	All Hazards

5.4.20 Seattle Parks and Recreation (SPR)

Seattle's Department of Parks and Recreation (SPR) works with all City residents to be good stewards of the environment and to provide safe, welcoming opportunities to play, learn, contemplate, and build community. Seattle Parks and Recreation manages 400 parks and open areas in its approximately 6,200-acre park system. This includes 224 parks, 185 athletic fields, 112 neighborhood play areas, nine swimming beaches, 18 fishing piers, four golf courses, and 22 miles of boulevards. Other Department of Parks and Recreation facilities include 151 outdoor tennis courts, 24 community centers, eight indoor and two outdoor swimming pools, 27 wading pools, a nationally recognized Rose Garden, and the Seattle Aquarium. The Woodland Park Zoological Society operates the zoo with financial support from the City.

Existing Mitigation Capability	Capability Type	Description	Hazard Mitigated
Asset Management Plan (AMP)	Planning	Maintain and update AMP actions to keep the SPR assets in safe and operable condition and to maintain a Tier 1 sheltering system. Recent accomplishments include: Installation of Emergency Generators at Tier 1 Emergency Shelters at Garfield Community Center and Southwest Teen Life Center and Pool Helene Madison Pool seismic upgrade Hiawatha Community Center seismic upgrade Magnolia Community Center seismic upgrades Magnuson Building 11 seismic retrofit Cal Anderson Fountain discharge retrofit Freeway Park Fountains (3) retrofit Emma Schmitz Memorial Park seawall	All Hazards
Urban Forest Management	Maintenance	Maintain healthy forest canopy, provides slope stability in environmentally critical areas and reducing carbon in air.	Windstorms, Snow and Ice, Power Outages, Heat Events, Landslides



Capital Improvement Program (CIP)	Financial	Develops capital projects and coordinates with CBO to prepare the CIP, a six-year financial planning tool that identifies future capital investments and potential strategies for funding those investments. SPR uses the AMP which measures each potential capital project by criteria including safety, asset preservation, race and social justice, legal obligation, and improvements in efficiency to set priorities for capital projects.	All Hazards
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5.4.21 Seattle Public Utilities (SPU)

Seattle Public Utilities (SPU) is comprised of four major utilities: water, drainage, wastewater, and solid waste. The water utility provides a reliable water supply to more than 1.5 million customers in King County; the drainage utility manages stormwater; the wastewater utility collects and disposes of sewage and storm water; and the solid waste utility collects and disposes of recycling, yard waste, and residential and commercial garbage. SPU's mission is to provide vital services to the community that are equitable, environmentally responsible, and resilient. Resilience is a system's ability to incur fewer negative impacts and recover more quickly from stresses and shocks, while adapting to new conditions and opportunities. As a community-centered utility, SPU seeks to proactively address community needs and risks to improve resilience.

Existing Mitigation Capability	Capability Type	Description	Hazard Mitigated
General Response Planning, and Response Capabilities	Planning, Administrative and Technical	SPU assesses and mitigates hazard risks to minimize disruptions to water supply, drainage, wastewater, and solid waste services. Accomplishments include: Updated SPU's Continuity of Operations Plan (2018, 2021). Completed SPU's Emergency Management Logistics Plan (2020). Completed the first Comprehensive Emergency Management Plan (2018). Completed the Water Utility's Emergency Response Plan (2020) and Risk and Resilience Assessment (2020) per America's Water Infrastructure Act. Updating Damage Assessment Plan and Training Program (2-year cycle). Completed the Ship Canal Water Quality Incident Management Plan (2020). Completing the Solid Waste Management Plan Amendment (2021) that incorporates resilience to hazards. Updated the Solid Waste Debris Management Plan including contracts (2018). SPU's Wet Weather Readiness and Response Program responds to in-city flooding. SPU's Spill Response Team responds to spills impacting drainage and wastewater, and water systems. SPU's Watershed Wildland Fire Team responds to wildfire in the municipal watersheds. SPU's Operation Response Center (24-hour dispatch) with expanded remote working capabilities and with backup at the North Operations Center.	All Hazards
Emergency Preparedness	Education and Outreach	SPU supports employees, the public, customers, and partners in being prepared. Accomplishments include: • Employee preparedness programs, including annual field crew trainings and a Continuity of Operations Plan exercise (2020).	All Hazards



	Manager and all the section of the control of a CDU. All the CDU is a control in the CDU.	
	 SPU has developed tools and resources to assist employees and community members. Distributed "SPU for 2" Preparing for the Big One booklet, guides and other materials during preparedness campaigns to encourage staff and their communities to prepare for disasters or emergencies. 	
	Continuing partnerships with local community leaders and businesses for Partners in Preparedness annual event and the Annual Night Out Ambassador Program.	
	SPU manages wastewater, storm water, and water quality programs and capital projects. These programs are in part required under the National Pollution Discharge Elimination System and a Consent Decree with the Department of Justice, US Environmental Protection Agency (EPA), and the Washington State Department of Ecology. Accomplishments include: • Completing a Wastewater System Seismic Assessment (2021).	
	Analyzed risk and likelihood of failure for many types of wastewater and drainage assets and have begun capital planning, to address vulnerabilities.	Storms, Flood,
Planning and	Revised storm water code (2021) and Directors Rule to protect against flooding, pollution, landslides, and erosion.	
Regulatory	 Performed Structural Storm Water control projects that include flood mitigation through the use of Green Stormwater Infrastructure. 	Landslides
	Completion of the Wastewater System Analysis (2019), which in part analyzed sewer system flooding and sewer backups.	
	Completion of the Drainage System Analysis (2020), which in part analyzed property and road surface flooding.	
	 Implementing the Plan to Protect Seattle's Waterways (2015), which reduces combined sewer overflows that occur during storm events. 	
	Seattle Public Utilities (SPU) completed its first water system seismic vulnerability assessment in 1990. This comprehensive assessment evaluated essentially all of SPU's water system storage reservoirs and tanks, pump stations, transmission pipelines, and support buildings and facilities. The 1990 seismic vulnerability assessment was the impetus for a seismic upgrade program that led to approximately \$100 million of seismic upgrades and facility replacements.	
	Since the 1990 study was completed, there have been several significant developments that affected SPU's seismic mitigation program:	Storms, Flood, Earthquake, Landslides Earthquake, Landslide
Administrative	Major earthquakes in Northridge, Kobe, Christchurch and Tohoku that show water systems remain highly vulnerable to large earthquakes.	
Technical and	The realization that the many Western Washington crustal fault zones, including the Seattle Fault Zone that runs directly below Seattle, are active.	
Financial	The Uniform/International Building Code has significantly evolved since 1990.	
	Earthquake-resistant ductile iron pipe that has performed exceptionally well in Japan is now available in the United States.	
	In 2018, SPU completed a new water system seismic vulnerability assessment that incorporated the developments listed above. The most significant finding of the 2018 study is that SPU's transmission and distribution pipeline systems would be expected to sustain significant damage during a catastrophic earthquake. Restoring even minimal service to all of SPU's customers may take months. Additionally, several facilities that were previously believed to be seismically robust were	
	Regulatory Administrative,	Preparing for the Big One booklet, guides and other materials during preparedness campaigns to encourage staff and their communities to prepare for disasters or emergencies. Continuing partnerships with local community leaders and businesses for Partners in Preparedness annual event and the Annual Night Out Ambassador Program. SPU manages wastewater, storm water, and water quality programs and capital projects. These programs are in part required under the National Pollution Discharge Elimination System and a Consent Decree with the Department of Justice, US Environmental Protection Agency (EPA), and the Washington State Department of Ecology. Accomplishments include: Completing a Wastewater System Seismic Assessment (2021). Analyzed risk and likelihood of failure for many types of wastewater and drainage assets and have begun capital planning, to address vulnerabilities. Revised storm water code (2021) and Directors Rule to protect against flooding, pollution, landslides, and erosion. Performed Structural Storm Water control projects that include flood mitigation through the use of Green Stormwater Infrastructure. Completion of the Wastewater System Analysis (2019), which in part analyzed sewer system flooding and sewer backups. Completion of the Drainage System Analysis (2020), which in part analyzed property and road surface flooding. Implementing the Plan to Protect Seattle's Waterways (2015), which reduces combined sewer overflows that occur during storm events. Seattle Public Utilities (SPU) completed its first water system seismic vulnerability assessment in 1990. This comprehensive assessment evaluated essentially all of SPU's water system storage reservoirs and tanks, pump stations, transmission pipelines, and support buildings and facilities. The 1990 seismic vulnerability assessment was the impetus for a seismic upgrade program that led to approximately \$100 million of seismic upgrades and facility replacements. Administrative, Technical and Financial Building Code has significantly evolve

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		The water system seismic mitigation program direction was updated to reflect the 2018 seismic study findings. In addition to instituting new seismic pipeline standards for all water mains, several critical transmission pipeline locations and critical facilities were identified for seismic upgrade. Earthquake emergency preparedness and response measures are also being augmented. Completed seismic upgrades to four terminal reservoirs. Completed water system seismic vulnerability assessment and updated seismic mitigation plan. Developed and instituted seismic design standards for water mains. Installed earthquake resistant ductile iron pipe in areas subject to pipe damaging permanent ground displacements. Wrote earthquake hazard-specific response plan for the water system. Began developing post-earthquake isolation and control plan to mitigate pipeline damage effects. Identified pipeline emergency repair material deficiencies and developed plan to obtain these materials. Initiated Trenton, Magnolia, Riverton and Eastside Tank seismic upgrade projects. Installed drains in ongoing landslide area to reduce ongoing sliding and reduce potential sudden slides in a seismic event.	
		Initiated more comprehensive/detailed study of SPU water system transmission pipelines.	
Dam Safety Program	Planning and Administrative	 SPU monitors 14 dams to ensure safe operation of reservoirs and storm water detention systems. Accomplishments include: Development of Emergency Action Plans for SPU Dams. Updated Annually, Rewritten every 5 years. Tabletop and Functional Exercises with Emergency Action Plans for SPU Dams. Completion of SF Tolt Dam Surveillance and Monitoring Report to FERC (annually). Physical Modeling of Tolt Dam Valve 15 for extreme hydraulic conditions. 2019 SF Tolt Emergency Action Plan Full-Scale Exercise. 2018 SF Tolt Inundation Study (identify flooding risks). 2017 SF Tolt Ring Gate Rehabilitation. 2017 SF Tolt Part 12D Follow-up Investigations including Tolt Spillway Condition Assessment and Hydraulic Modeling. Critical Infrastructure Protection: security enhancements at SPU facilities. 	Flood, Dam Failure
Climate Change Adaptation Program	Planning and Administrative	SPU is committed to understanding and preparing for the impacts that climate change will have on our communities, infrastructure, and essential services, and to reducing the utility's contribution to climate change by: 1) Assessing potential impacts to the water supply, drainage, wastewater, and solid waste systems; tidally influenced infrastructure; and integrating this information into the decision-making process; 2) Collaborating with water utilities, academia, philanthropy, City departments and other regional public agencies, community-based organizations, and the science community locally and nationally to enhance Seattle's capacity to prepare; 3) Centering frontline communities in the planning and preparedness process. Assessments of potential climate change impacts by SPU include:	Drought, Flood, Wildfire, Excessive Heat Events

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	 Repeated scientific study of hydrology and water supply, as well as water demand. 		
		Study of extreme precipitation events and their effects on urban drainage.	
		Mapping of exposure to sea-level rise.	
		Mapping of urban heat islands and exposure to heat stress.	
	 Evaluation wildfire risk in the municipal watersheds and implementation of climate-adaptive forest management. Measures to reduce vulnerability could include: 		
		New infrastructure projects and modifications to existing infrastructure and facilities.	
	Changing the way infrastructure is operated to reflect changing conditions.		
	Reducing greenhouse gas emissions through fleet electrification and facility improvements.		
Embedding climate information into asset management decision-making tools.			
Developing early-warning systems for urban flooding.			
Amending or implementing new regulations, codes, and policies.			
	Supporting capacity building in frontline communities.		
		SPU CIPs allocate funds to rehabilitate, improve, and add to SPU's capital facilities for water, drainage and wastewater, and solid waste utilities. SPU CIP Facilities Projects related to hazard mitigation include:	
Facility Capital Improvements	Financial	New Watershed Headquarters Building (2018) that serves as an incident management center for wildfire and other incidents.	Earthquake, Wildfire, Drought
1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		New North Transfer Station (2016) is built to current seismic standards with emergency backup generator.	
		New Morse Lake Pump Plant (2015) to provide access to water when the lake level is low due to drought.	

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5.5 Continuity of Operations Planning

One notable city-wide planning capability is the requirement that all City departments maintain Continuity of Operations (COOP) plans. These plans play a key role in mitigating the impacts of hazards by ensuring that departments are planning to minimize the potential disruption to their essential functions that may result from a disaster. Key plan information includes:

- Identification of department essential functions.
- Identification of alternate facilities that can be used if the department's normal facility is damaged or uninhabitable.
- Establishment of recovery time objectives for essential functions.
- Assignment of roles and responsibilities for continuity operations.

COOP plans are a vital part of the basic foundation that supports the City's response to and recovery from disasters. Without them, work following a major event is made much more difficult and chaotic. With them our efforts in restoring services and bringing a sense of normalcy to the City will happen quicker and minimize the long-term impacts that disasters have on communities.

5.6 Coordination with Community Partners

The City of Seattle is not alone in its efforts to create a more resilient community through hazard mitigation and will actively pursue strategies to ensure effective coordination and integration with the private sector, both for-profit and not-for-profit, including the County's critical infrastructure, key resources, other business and industry components, and not-for-profit organizations (sometimes called nongovernmental organizations (NGOs), including those serving special needs populations, engaged in mitigation activities. These efforts are ongoing, and the City has proactively identified enhanced coordination with community partners as a mitigation action in this update of the plan (OEM1).

Table 8 - Community Partners by Sector

Education	Business and Industry
Seattle Public Schools	Greater Seattle Business Association
Seattle Colleges	Seattle Chambers of Commerce
University of Washington	Port of Seattle
Seattle University	Local Businesses
Seattle Pacific University	
Finance	Healthcare
Area Financial Institutions	Area Hospitals and Healthcare Facilities
Private Utilities	Transportation
Puget Sound Energy	Burlington Northern Santa Fe Railroad
Seattle Steam	King County Metro
Telecommunications Providers	Seattle-Tacoma International Airport
	Sound Transit
	Washington State Ferries

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5.7 National Flood Insurance Program Participation



C2. Does the Plan address each jurisdiction's participation in the NFIP and continued compliance with NFIP requirements, as appropriate? (Requirement §201.6(c)(3))

The Seattle Department of Construction and Inspections manages the City's NFIP. The City has established and maintained eligibility in the Regular Phase of the NFIP since 1977. Seattle Municipal Code Chapter 25.06 is the floodplain management chapter.

On February 19, 2020, FEMA published a Flood Hazard Determination adopting a new Flood Insurance Rate Map (FIRM) and Flood Insurance Study (FIS) for all jurisdictions in King County, including Seattle. FEMA requires that all jurisdictions within King County adopt the new FIRM and FIS within six months which was August 19, 2020. Additionally, local FEMA officials reviewed Seattle's floodplain regulations and this review directed the minimum amendments to the Floodplain Development Regulations (SMC 25.06) to meet 44 CFR Section 60.3 (d and e) for the August 19, 2020 deadline.

In addition to adopting the new FIRM and FIS, the City of Seattle is required to have floodplain regulations that apply to the new maps that did not apply to the existing 1995 FIRM and FIS. These requirements come from the NFIP regulations in Title 44 of the Code of Federal Regulations (CFR). Specifically, 44CFR section 60.3e contains regulations for coastal high hazard flood zones, which were not identified on the 1995 maps. These coastal flood zones are designated as VE zones on the new FIRM.

Seattle Municipal Code Chapter 25.06 was amended by Council Bill Number 119832 (2020) to adopt new interim Floodplain Development Regulations and floodplain maps, and these took effect on August 23, 2020. These interim regulations will be effective for approximately six months while the City works on permanent regulations.

The most recent Community Assistance Visit by the Washington State Department of Ecology was conducted on August 6, 2008, and the City was certified as a participant in good standing in the NFIP. A new Community Assistance Visit has not yet been scheduled.

Within the Seattle city limits, there are currently twelve properties identified as Repetitive Loss and one property identified as Severe Repetitive Loss according to NFIP criteria.

6 MITIGATION STRATEGY

6.1 General

Chapter 6 describes the City of Seattle's mitigation strategy which is the primary focus of the City's mitigation planning efforts. This strategy represents the blueprint for the approach chosen by the City to reduce or prevent losses flowing from hazards identified in the SHIVA.

The strategy is made up of three main required components: mitigation goals and objectives, mitigation actions, and a mitigation action plan for implementation (see Figure 5). These components provide the framework to identify, prioritize, and implement actions to reduce risk from hazards.

Figure 5 - Mitigation Strategy Process

Mitigation Goals and Objectives

General guidelines that explain what the community wants to achieve with the plan.

Mitigation Actions

Specific projects and activities that help acheive the goals.

Mitigation Action PlanDescribes how the mitigation actions will be implemented and prioritized.

6.1.1 Maximizing Loss Reduction

While this mitigation strategy is meant to be comprehensive in nature and address all hazards identified in the SHIVA, the City also recognizes that there are some hazards that pose greater risk to the community in terms of potential losses both in terms of impact to life and to property and the environment. In the City of Seattle's case, the hazard identified as having the potential for the greatest impact to life and property is earthquake. This focus on reducing the City's vulnerability to seismic events is due to following drivers:

- Earthquakes are Seattle's top hazard with the highest combination of likelihood and potential destructiveness.
- Seattle's built environment, which includes vulnerable infrastructure and building types such as unreinforced masonry buildings, creates an increased risk.

The City continues to reduce vulnerability to seismic risk through the Seismic Retrofit Facilities Improvement Program. This program, managed by the Department of Finance and Administrative Services, provides the City with an opportunity to address facilities at risk and support decision making regarding seismic retrofit projects. The mitigation strategy outlined in this chapter will inform how to increase the City's resiliency and reduce the risk of downtime to critical City services post-earthquake.

In addition to a focus on areas of greatest loss, the planning process includes tracking of repetitive loss. Although Seattle does not have a large exposure to repetitive losses due to river flooding, as many communities do (see Section 5.7 on National Flood Insurance Program), as part of the annual review process the City will revisit and address any recurring loss trends that emerge across all hazards.

6.2 Mitigation Goals



C3. Does the Plan include goals to reduce/avoid long-term vulnerabilities to the identified hazards? (Requirement §201.6(c)(3)(i))

Mitigation goals are intended to represent what the City seeks to achieve through mitigation plan implementation. The goals are general guidelines and provide a framework for identification of more detailed objectives and actions. The MWG reviewed the goals and objectives from the 2015 plan update and confirmed these goals and objectives for the 2021 update.



GOAL 1: Protect life and safety and promote community resiliency.

- Objective 1.1. Conduct hazard specific public outreach to vulnerable areas.
- Objective 1.2: Reduce the possibility of damages and losses resulting from disease/pandemic hazards.
- Objective 1.3: Promote community resiliency through a comprehensive approach to preparing for the impacts of a changing climate.
- Objective 1.4: Increase the resiliency of the City's food system.
- Objective 1.5: Enhance the City's response capacity.

GOAL 2: Safeguard critical infrastructure and ensure continuity of service.

- Objective 2.1. Ensure system redundancies and backup power are available to support key City functions.
- Objective 2.2. Ensure protection of the City's information technology infrastructure.

GOAL 3: Protect public and private property.

- Objective 3.1: Reduce the possibility of damages and losses to City facilities and infrastructure from earthquakes and other geo-physical hazards.
- Objective 3.2: Reduce the possibility of earthquake-related damages and casualties due to Unreinforced Masonry Buildings.
- Objective 3.3: Reduce the possibility of damages and losses resulting from weather hazards.
- Objective 3.4: Reduce the possibility of damages and losses resulting from transportation and infrastructure hazards.
- Objective 3.5: Reduce the possibility of damages and losses resulting from intentional acts of destruction.
- Objective 3.6: Ensure that City building codes reflect the latest standards in seismic safety.

GOAL 4: Protect the natural environment and cultural and historic resources.

- Objective 4.1: Determine the earthquake vulnerability of historic landmarked properties.
- Objective 4.2: Reduce the use of or minimize the impacts of the use of potentially hazardous substances in City operations.

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GOAL 5: Ensure a resilient economy.

Objective 5.1. Collaborate with local business to promote hazard mitigation.

GOAL 6: Promote a collaborative and integrated mitigation program.

- Objective 6.1: Incorporate hazard mitigation into other City plans and programs.
- Objective 6.2. Engage external partners in the City's mitigation planning process.

6.3 Mitigation Actions



C4. Does the Plan identify and analyze a comprehensive range of specific mitigation actions and projects for the [City of Seattle] being considered to reduce the effects of hazards, with emphasis on new and existing buildings and infrastructure? (Requirement §201.6(c)(3)(ii))

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A mitigation action is a specific action, project, activity, or process taken to reduce or eliminate long-term risk to people and property from hazards and their impacts. Implementation of mitigation actions helps achieve the City's mitigation goals and reduce vulnerability to threats and hazard identified in the plan. Mitigation plan regulations require the City to identify and analyze a comprehensive range of specific mitigation actions and projects to reduce the impacts identified in the City's risk assessment.

See Appendix A for the full text of the SHIVA.

6.3.1 Review of 2015 Hazard Mitigation Actions

As part of the mitigation strategy update, all mitigation actions identified in the 2015 plan were evaluated to determine what the status of the action was and whether any ongoing or incomplete actions should be included as actions in the 2021 plan update.

See Table 9 for an overview of the status of all actions from the 2015 plan update.



Table 9 - Status of 2015 Mitigation Actions

Actions are listed alphabetically by department acronym.

Action No.	2015 Mitigation Action	Type of Action	Status	Comments
DON-1	Conduct survey of landmarks/historic district resources that have had seismic upgrades/life safety upgrades.	Assessments and Studies	Complete	Part of the work conducted in DPD-1.
DPD-1	Prepare comprehensive list of unreinforced masonry buildings.	Assessments and Studies	Complete	Current department is SDCI.
DPD-2	Update Seattle structural codes to current standards	Plans and Regulations	Ongoing	Current department is SDCI. New seismic standards will be adopted in 1Q 2021. Updates to the structural codes happen regularly. Unclear at this point what structural code changes will be required for future updates.
DPD-3	Identify City-owned unreinforced masonry buildings.	Assessments and Studies	Complete	Current department is SDCI. Information will be used to prioritize retrofits of City-owned URM buildings.
FAS-1	Develop analytical tools to support the asset planning program.	Plans and Regulations	Complete	Completed seismic risk assessment demonstration project completed along with 2015 Seattle HMP update. The project developed a practical screening methodology that can be utilized city-wide to evaluate seismic risks, prioritize mitigation actions and reduce seismic risk over time. Carried forward in the 2021 Seattle HMP as a capability.
FAS-2	Seismic upgrade of Charles Street – Fleets Vehicle Maintenance.	Infrastructure/Capital Project	Incomplete	High priority but on hold pending funding. Dropped and replaced with FAS 1 - Initiate feasibility studies to determine seismic upgrade of critical facilities. This is an ongoing action to conduct assessments and studies to address the earthquake hazard.
FAS-3	Continue the Emergency Generator Program.	Infrastructure/Capital Project,	Ongoing	Use excess capacity on the Seattle Animal Shelter emergency generator to support other critical operational functions. This a non-structural project to address power outages related to Winter Storm, Earthquakes, etc. High priority but on hold pending funding. Electrical components will be evaluated to ensure proper sizing for capacity requirements. This determines costs for potential upgrades.



Action No.	2015 Mitigation Action	Type of Action	Status	Comments
FAS-4	Investigate and perform feasibility studies of new technologies for hazard mitigation.	Assessments and Studies	Ongoing	Dropped and replaced with FAS 2 - Install ShakeAlert technology into express elevator in SMT. This is non-structural project to be completed in next 1-3 years to address earthquake hazards. This project is ongoing through Q2, 2021. Anticipated costs to be \$15,000 and funded through operations budget. Project co-sponsored by OEM to connect city facilities to the USGS supported earthquake early warning system.
FAS-5	Seismic upgrade of South Precinct.	Infrastructure/Capital Project	Incomplete	Dropped and replaced with FAS 1 - Initiate feasibility studies to determine seismic upgrade of critical facilities. High priority but on hold pending funding.
FAS-6	Complete ASCE 31-03 Tier 2 seismic studies on (10) critical FAS facilities.	Assessments and Studies	Complete	Conducted detailed study of Charles Street Vehicle Maintenance Garage and South Precinct. Using the ASCE 31-03 methodology, CD was able to conduct more in-depth review of facilities for structural deficiencies and provided prescriptive retrofit recommendations for future capital projects. Carried forward in 2021 Seattle HMP as a Capability.
FAS-7	Conduct a workshop to share methodology and lessons learned from the seismic risk assessment demonstration project with other departments and building owners	Education and Awareness	Complete	Seismic Prioritization Workshop brought together approx. 70 stakeholders throughout the city to share and exchange mitigation projects, challenges, and successes. Participants included facility planners, asset managers, emergency managers for entities with a portfolio of multiple buildings. Carried forward in 2021 Seattle HMP as a Capability.
HSD-1	Increase the quantity and quality of food available through the emergency food system for people at risk for food insecurity. Through the 3-year investment period work with selected agencies to increase coordination, efficiency, and resiliency of the food system.	Plans and Regulations	Complete	Increased access to healthy foods via HSD and OSE contracts and partnerships, and other City departments. Examples include funding for food banks, congregate meal programs, bulk buy food ordering to purchase discounted food for distribution to food banks and meal programs, investments in farm-to-table programs, new BIPOC grassroots projects.
ITD-1	Upgrade essential network routers, firewalls, and switches for City of Seattle information technology systems.	Infrastructure/Capital Project	Incomplete	Dropped due to ongoing standard IT upgrades and no definable project
ITD-2	Add upgrades to SONET as necessary to improve capacity of existing fiber optic network.	Infrastructure/Capital Project	Incomplete	Dropped due to ongoing standard IT upgrade and no definable project
ITD-3	Upgrade telecommunications systems: Implement Unified Communications System	Infrastructure/Capital Project	Complete	Implemented new City of Seattle digital telecommunications technology

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Action No.	2015 Mitigation Action	Type of Action	Status	Comments
ITD-4	Creation of citywide next generation data center site and a secondary alternate data center site for the City of Seattle.	Infrastructure/Capital Project	Complete	Stood up new data centers, West and East.
ITD-5	Implement controls on City owned desktop systems that enforce policy and prohibit installation of nonapproved applications.	Infrastructure/Capital Project	Complete	Prevents employees from loading and using unauthorized software
ITD-6	Implement technology for the detection of command and control computer traffic for compromised desktop systems.	Infrastructure/Capital Project	Complete	Provides network & system monitoring, security and risk oversight for cybersecurity
ITD-7	Implement technology to routinely inventory installed, non-Microsoft applications to determine to the extent to which upgrade or patching is required. Transition the information to operations for patch/upgrade of the systems.	Infrastructure/Capital Project	Complete	Provides IT work management system to manage applications, network, systems, and devices
OEM-1	Identify opportunities for integration of community partners into the City's mitigation planning program	Education and Awareness	Ongoing	OEM worked with Community Roots, an affordable housing developer/provider, to secure FEMA funds to complete a seismic retrofit of one building in their portfolio.
OEM-2	Tailor public education messaging to emphasize earthquake preparedness and mitigation in programs delivered in liquefaction-prone areas of the city and on the OEM website.	Education and Awareness	Ongoing	Between 2015 and 2020, OEM conducted approximately 140 public education programs at locations withing identified liquefaction prone areas. All of these programs included information on earthquake risk and preparedness. Ongoing but not emphasis on liquefaction areas. Hazard explorer.
OEM-3	Strengthen awareness of and focus on health systems/disease prevention in the mitigation program.	Education and Awareness	Ongoing	Public health impacts associated with fire smoke and pandemic have become more urgent based on recent events. Learnings from these incidents will shape future education and awareness efforts.
OEM-4	Encourage the chambers of commerce and other business advocates to sponsor business efforts to prepare for and mitigate the impacts of hazards. (Ref: City-wide Emergency Management Multi-Year Strategic Plan 2015 – 2017 Action Item 6.c.2.)	Education and Awareness	Complete	OEM led 277 business preparedness programs between 2015 and 2020. In 2018 OEM developed a "Preparing Your Workplace" guide with input from small businesses and promoted to chambers and business improvement areas in the city.
OSE-1	Develop Climate Preparedness Strategy	Plans and Regulations	Ongoing	Scope, policies and plans in development. Office is not resourced to work on preparedness and under-resourced for mitigation.

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Action No.	2015 Mitigation Action	Type of Action	Status	Comments
P&R-1	Assessment and seismic retrofit of the North Shops (Densmore)	Infrastructure/Capital Project	Complete	A roof project on the facility included seismic Work. North Shops building now meets current seismic code.
P&R-2	Conduct an assessment of remaining Parks Community Centers and pools for seismic retrofit and other renovations needed for service as secondary emergency shelters.	Assessments and Studies	Complete	Study of pools completed. Bids put out on seven pool buildings. Seismic retrofits completed on two pools, and studies completed on five other pools. Seismic upgrades to Madison, structural work done at Queen Anne, damaged and rotting beams identified in assessments. Seismic retrofits will be made to roofs of pools when it is time for replacement. Community Centers: Loyal Heights, South Park, Magnolia, Hiawatha, Ballard, Ravenna Eckstein conducted seismic evaluations for these locations.
				Project in design and planned to begin construction at Magnolia and Hiawatha CC. Queen Anne and Madison pools are now safer and less life safety risk. More in line with current seismic code. Magnolia and Hiawatha CC will now meet current seismic code.
P&R-3	Identify illicit/improper drainage systems by private residents, impacting steep slope areas (in conjunction with SDOT and SPU).	Plans and Regulations Education and Awareness	Ongoing	More work needed. No active projects and no illicit connections fixed. SPR and SPU coordinating on project in Deadhorse Canyon to potentially address drainage impacting steep slopes. Coordination ongoing between departments. Carried forward to 2021 Seattle HMP.
SC-1	Design and install a dedicated power supply and emergency generator and transfer switch in the Seattle Central Armory	Non-Structural Mitigation Measures	Incomplete	No activity on this project since fail to receive a grant. Carried forward to 2021 Seattle HMP.
SC-2	Conduct an electrical assessment/study to determine the best options for installing generators for in key facilities.	Assessments and Studies	Ongoing	need emergency generator for CUP and replace existing generator for Playhouse, which is obsolete, and no replacement parts are available. Completed campus wide preliminary electrical assessment.
SC-3	Reroof and make minor electrical, plumbing and storage improvements to the Seattle Center Pavilion to allow it to be used for sheltering purposes in inclement weather and other hazard conditions.	Infrastructure/Capital Preparedness and Response	Incomplete	Project dropped. Building demolished as part of new Arena.
SCL-1	SCL Systems Operations Center seismic retrofit design	Infrastructure/Capital Project	Complete	2018: Current estimate is \$5 million. 2019 - fully designed and put out to bid. Construction in 2020.
SCL-2	Seismic review of vaults and substations to update 1993 study	Assessments and Studies	Incomplete	Determine if this study still needed. Retrofit design work at individual substations is ongoing.

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Action No.	2015 Mitigation Action	Type of Action	Status	Comments
SCL-3	Substation seismic upgrade	Infrastructure/Capital Project	Incomplete	In year 4 of a 15-year process to re-do base isolation. Carried forward in 2021 Seattle HMP as an Action.
SCL-4	Hazard tree mitigation (vegetation management) near SCL Right-of-Way	Non-Structural Mitigation Measures	Ongoing	Required regular maintenance work. Carried forward in 2021 Seattle HMP as a Capability.
SCL-5	Provide seismically designed storage racks for critical parts and supplies	Non-Structural Mitigation Measures	Incomplete	No recorded progress to date.
SCL-6	Secure tall furniture at SCL facilities	Non-Structural Mitigation Measures	Incomplete	No recorded progress to date.
SCL-7	Map cell towers and identify feeders	Assessments and Studies	Incomplete	Currently no capacity to do this project.
SCL-8	Remove/sample PCB transformers	Natural Systems Protection	Ongoing	2019 - part of normal business practice; consider moving to capability section
SCL-9	Preposition supplies needed for restoration efforts at secure locations	Preparedness and Response	Ongoing	2019 - part of normal business practice; consider moving to capability section
SCL-10	Install impact recorders at substations	Non-Structural Mitigation Measures	Incomplete	Need for action to be determined.
SCL-11	Conduct study of downstream consequences from dams to update and improve inundation maps	Assessments and Studies	Complete	Dam Safety Program produced new dam failure inundation models for federally licensed dams; notification and evacuation application tested in 2019. Provides more detailed illustration of risk and timing of inundation for public notification and evacuation planning.
SCL-12	Retrofit electrical transmission towers in Snohomish County against landslide damage.	Infrastructure/Capital Project	Incomplete	2018: Project designed, and application submitted for FEMA funding. 2019: Project pending funding. Currently an alternate for HMGP funding.

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Action No.	2015 Mitigation Action	Type of Action	Status	Comments
SDOT-1	Bridge Seismic Retrofit Phase III	Infrastructure/Capital Project	Ongoing	Seismic retrofits for 16 bridges were included Move Seattle Levy. 2 bridge - Construction completed for Cowen Park Bridge, Howe St. Bridge 2 bridges - Design completed & waiting for approval to AD and go to construction: SW Andover Pedestrian Bridge, 8th Ave. NW/NW 133rd St. Bridge 13 bridges - Seismic recommendations reports completed & design and construction deferred due to insufficient funding: Fremont Bridge, Ballard Bridge, Delridge Way Pedestrian Bridge, 15th Ave. NE/NE 105th St. Bridge, 1st Ave. S. Viaduct/Argo Bridge, 4th Ave. S. Viaduct/Argo Bridge, 4th Ave. S. Bridge (Main to Seattle Blvd), McGraw St. Bridge, W., Admiral Way N. Bridge, Admiral Way S. Bridge, N. 41st Pedestrian Bridge, 15th Ave. NW/Leary Way Bridge
SDOT-2	Conduct a Transportation Operations Center implementation assessment to combine the Traffic Management Center (TMC), dispatch, construction coordination, customer inquiry and call center, and emergency operations functions into a 24/7 work center.	Assessments and Studies	Complete	Assessment is complete in 2016. Department readiness and response communications have been streamlined and improved. Response times improved. Incidents in the right of way cleared more efficiently. Carried forward in 2021 Seattle HMP as a Capability.
SDOT-3	Traffic Management Center (TMC) expansion to 24/7 operations (TMC expansion construction, FTE).	Infrastructure/Capital Preparedness and Response	Complete	SDOT's TOC continues to be a critical tool in managing and responding to the City's transportation network. Other agencies such as WSDOT and KC Metro rely on the TOC for regional coordination efforts. Carried forward in 2021 Seattle HMP as a Capability.
SDOT-4	Conduct a security threat assessment of the Seattle rail corridor to identify risk associated with new volume of oil train movement.	Assessments and Studies	Incomplete	While the risk still exists, SDOT does not own the assets and is a support agency. With the layers of regulations related to the rail system, and no authority, SDOT's efforts would be applied to other projects.
SDOT-5	Implement Seattle rail corridor access control measures (fencing, security cameras, improved right of way management).	Non-Structural Mitigation Measures	Incomplete	While the risk still exists, SDOT does not own the assets and is a support agency. With the layers of regulations related to the rail system, and no authority, SDOT's efforts would be applied to other projects.
SDOT-6	Conduct a Seattle earthquake damage spot arterial repair planning/exercise.	Preparedness and Response	Incomplete	The need to test post-earthquake arterial spot repairs still exists. Carried over to 2021 Seattle HMP as an Action.
SDOT-7	Separation of rail and arterial right-of-way for S. Lander Street Grade.	Infrastructure/Capital Project	Complete	Improved reliability of a key east/west arterial in the SODO area. Eliminated the potential for pedestrian/vehicle and train collisions.

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Action No.	2015 Mitigation Action	Type of Action	Status	Comments
SPU-1	Develop a plan to protect the drinking water system from earthquakes.	Plans and Regulations	Complete	The completed seismic study provides a good understanding of how the drinking water system will be impacted by a catastrophic earthquake. Based on these findings, SPU has developed a short- and long-term plan, for the next 50 years, that provides a steady path for making significant investments to improve seismic resilience.
SPU-2	Improve Thornton Creek Confluence to reduce upstream flooding and downstream flows.	Infrastructure/Capital Project Natural Systems Protection	Complete	The project removed an undersized culvert, restored the creek channel and provided increased flood storage by removing four homes and 2 acres of fill, which allowed for reconnection of 2.5 acres of floodplain habitat.
SPU-3	Accelerate flooding and sewer backup prevention projects in the Broadview and South Park neighborhoods.	Infrastructure/Capital Project	Incomplete	The South Park Flood Control Pump Station when complete will facilitate drainage to the Duwamish when the tide is high, reducing flooding. The pump station project is in construction and is scheduled to be complete by end of 2021. The South Park Conveyance Project partners with SDOT to improve streets with pavement and provide drainage infrastructure to convey flows safely to the pump station; this project will complete design in 2021 and will be in construction for two years, completing in 2023. The 12 th Ave NW Basin Drainage Improvement project builds drainage infrastructure to address priority flooding areas in the Broadview area. Design completes in 2021 and construction will continue through 2022. Carried forward in this 2021-26 HMP as an action item.
SPU-4	Create a comprehensive emergency plan for maintaining and restoring essential services in emergencies.	Plans and Regulations	Complete	The CEMP was prepared by SPU Emergency Management to provide planning and program guidance for implementing emergency management programs and plans. The CEMP assists SPU to maintain the capability to provide critical services during an emergency or large-scale disaster.
SPU-5	Prepare for water supply and utility system threats that may occur from climate change.	Plans and Regulations Natural Systems Protection	Ongoing	A climate change analysis for the City of Seattle water supply was completed for the 2019 Water System Plan. Progress and next steps are detailed in the plan.

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6.3.2 2021 Mitigation Actions

In order to achieve the mitigation goals identified above, the City has identified a comprehensive series of mitigation objectives and supporting actions that are focused on reducing vulnerability and maximizing loss reduction. The actions can typically be broken out into the following types of activities:

- Plans and Regulations. Regulatory actions or planning processes that result in reducing vulnerability to hazards.
- **Assessments and Studies.** Actions taken to better understand the potential impacts of identified hazards. An example would be seismic studies of City facilities.
- Infrastructure/Capital Projects. Actions taken to modify existing buildings or structures to protect them from a hazard.
- **Non-Structural Mitigation Measures.** Physical actions taken that don't include structural modifications. An example would be efforts to secure furniture or installation of backup generators.
- **Natural Systems Protection.** Actions that, in addition to minimizing hazard losses, preserve or restore the functions of natural systems.
- **Education and Awareness.** Actions taken to inform and educate residents, elected officials, and property owners about hazards and potential ways to mitigate them.

All mitigation actions identified in the plan are addressed in the Mitigation Implementation Plan provided in Section 6.5. The actions include both interim- and long-term strategies for reducing vulnerability to hazard.

6.3.3 2021 Mitigation Actions by Hazard

The 47 mitigation actions identified in the 2021 update of the Seattle HMP are intended to address natural, technological and human-caused hazards. The HMP is comprehensive in addressing all of the hazards identified in the SHIVA, and the inclusion actions to address multiple hazards.

See Table 10 which identifies which hazards are addressed by each mitigation action.

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Table 10 - Mitigation Actions by Hazard

Hazard listed in order of ranking in SHIVA		FAS		HSD	Œ			OEM		CDGC	20 10	3			SCL				SUCI	5		SDOT			SPL				SPR											SPU								
	1	2	3	1	1	1	2	3	4	1	1	1	2	3	4	5	6	7	1	1	2	3	4	5	1	1	2	3	4	5	6	1	2	3	4	5	6	7	8	9	1 0	1	1 2	1 3	1 4	1 5	1 6	1 7
All Hazards				Х	х	Х	X			Х														X																								
Earthquakes	х	х	Х					Х	X			X	Х	X	x	X	X	x	X	X	X	х	Х		X			Х				Х	X	Х	Χ	х	Х				X	Х	Х		х	х		Х
Snow and Ice Storms	Х																	Х								Х				Х						Х												
Windstorms	х																	X												Х				х									Х		Х			
Power Outages	Х																	Х		Х														Х		Х									Х			
Cyber-attack/ Disruption										Γ	Γ					Γ			Γ			Γ	Γ																									
Landslides																													X	Х						Х							Х					Х
Disease Outbreaks																																																
Flooding										X																	Х		X			Х				Х		X	X		X		Х	х			X	X
Excessive Heat Events										Х																Х				Х									X									
Tsunamis and Seiches																																X				Х												
Infrastructure & Structural Failures										Х										Х	х	Х	Х				Х		Х		Х	Х				х							Х					Х
Fires, Including Wildfire																																								Х					Х			
Transport Incidents																			Х	Х																												
Water Shortages																											Х				X										Х		Х		Х		Х	
Social Unrest																																																
Attacks																																																
Haz Mat Incidents																										Х																						
Volcano Hazards																																																

6.4 Evaluating and Prioritizing Mitigation Actions

Once mitigation actions were identified, the MWG, and other key stakeholders went through the exercise of evaluating and prioritizing each action to determine which actions are most suitable for the City to implement. A Mitigation Action Worksheet was developed for each action that included the following information:

- Description of the action.
- Action status.
- Type of action.
- Mitigation goals supported by the action.
- Lead and supporting departments.
- Timeline for implementation and expected life of the action.
- Hazards addressed by the action.
- Anticipated cost and funding source.
- Race and Social Justice Focus Areas.
- Location description.
- Geographic area (citywide, district, neighborhood) that will benefit from this action.

See Appendix D for a sample worksheet, worksheet instructions, and completed worksheets for all actions identified in the plan.

6.4.1 STAPLEE Analysis

In addition to the information developed above, each action was self-evaluated using STAPLEE criteria as described in Table 11. Evaluators were asked to rate each STAPLEE criteria to come up with a total score that determined the relative suitability of each action.

Table 11 - STAPLEE Criteria

STAPLEE Criteria	Evaluation Rating
S: Is it Socially acceptable?	
T: Is it Technically feasible and potentially successful?	
A: Does the responsible agency/department have the Administrative capacity to execute this action?	High
P: Is it Politically acceptable?	Medium
L: Is there Legal authority to implement?	Low
E: Is it Economically beneficial?	
E: Will the project have either a neutral or positive impact on the natural Environment? (score a 3 if positive impact, 2 if neutral impact)	

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6.4.2 Mitigation Effectiveness Analysis

In addition to the STAPLEE analysis, MWG members rated each action on criteria for effectiveness in achieving loss reductions or other City goals listed in Table 12.

Table 12 - Mitigation Effectiveness Criteria

Criteria	Evaluation Rating
Will the implemented action result in lives saved?	High Medium Low
Will the implemented action result in a reduction of disaster damage?	High Medium Low
Will the action provide multiple community benefits beyond mitigation?	High Medium Low
Will the action involve collaboration between City departments and/or the community?	High Medium Low
Will the action reduce hazard vulnerability for BIPOC communities?	High Medium Low

The STAPLEE and Mitigation Effectiveness ratings for each mitigation action identified in this plan will serve as one of the tools the City uses in prioritizing what mitigation actions it wishes to pursue during the next planning cycle. Of course, actions may also become a higher priority based on available funding, emerging hazards, or because they align with priorities identified in other planning efforts.

FEMA regulations do not require a formal cost-benefit analysis for hazard mitigation plans; however, a formal cost-benefit analysis of mitigation measures is required in order to be approved for Hazard Mitigation Grant Program funding. Therefore, a more formal cost-benefit analysis will be conducted as a component of any future mitigation grant applications.

6.5 2021-2026 Mitigation Implementation Plan

The mitigation implementation plan (Table 13) lays the groundwork for how the mitigation plan will be incorporated into existing planning mechanisms and how the mitigation actions will be prioritized, implemented, and administered by the City. The implementation plan includes both short-term strategies that focus on planning and assessment activities, and long-term strategies that will result in ongoing capability or structural projects to reduce vulnerability to hazards.

The "Loss Avoidance Rating" shown in Table 13 is derived from two mitigation effectiveness criteria:

- Will the implemented actions result in lives saved?
- Will the implemented action result in a reduction of disaster damage?

Each project was scored as follows:

High + High = score of 6



- High + Medium = score of 5
- Medium + Medium = score of 4
- High + Low = score of 3
- Medium + Low = score of 2
- Low + Low = score of 1

See Appendix D for more details. It contains Mitigation Action Worksheet instructions and detailed Mitigation Action Worksheets for the 47 actions listed in Table 13.



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Table 13 - 2021-2026 Mitigation Implementation Plan (by Department)

Lead Depart/ Action #	2021-2026 Mitigation Action	Action Status	Type of Action	Goals Supported	Supporting Departments	Timeline	Anticipated Cost	Funding Available	Loss Avoidance Rating
FAS1	Modify the Seattle Animal Shelter electrical system to accommodate excess power from emergency generator.	New	Non-Structural Measures	Life and Safety Property Protection	Seattle Animal Shelter and Capital Development	3-5 years	TBD	No	2
FAS2	Seismic Retrofit Facilities Improvement Program	Potential	Assessments and Studies	Life and Safety	N/A	5 years +	TBD	No	5
FAS3	Install ShakeAlert Technology into SMT Elevators.	New	Non-Structural Measures	Life and Safety Critical Infrastructure Protection Property Protection	Facility Operations	1-3 years	\$15,000	Yes	2
HSD1	Develop a strategic feeding plan to increase capacity for emergency feeding.	New	Plans and Regulations	Life and Safety	OSE, DON	1-3 years	TBD	Anticipated	2
ITD1	Create stand-alone Communication Site on Wheels to provide localized communications via radio, cellular, Wi-Fi and Point to Point Network.	New	Non-Structural Measures	Life and Safety	SCL, SDOT, SFD, SPD, SPU, FAS, SP&R, HSD, SDCI	1-3 years	\$ 600,000	No	6
OEM1	Expand partnerships for community-led mitigation projects.	New	Plans and Regulations	Life and Safety Property Protection Natural Resource Protection Resilient Economy	DON, OH	3-5 years	TBD	No	4
OEM2	Undertake an analysis to better integrate equity into hazard mitigation program.	New	Assessments and Studies	Integrated Planning		3-5 years	TBD	No	2
OEM3	Update Home Retrofit Education Program materials and guidance to reflect latest changes in design and permitting.	Existing	Education and Awareness	Life and Safety Property Protection	SDCI	3-5 years	TBD	No	5
OEM4	Ongoing support for URM Retrofits	Existing	Plans and Regulations	Life and Safety Property Protection		1-3 years	TBD	No	6



Lead Depart/ Action #	2021-2026 Mitigation Action	Action Status	Type of Action	Goals Supported	Supporting Departments	Timeline	Anticipated Cost	Funding Available	Loss Avoidance Rating
OPCD1	Provide policy guidance regarding resilience, climate adaptation, and hazard mitigation in the Comprehensive Plan Update.	New	Plans and Regulations	Life and Safety Integrated Planning Critical Infrastructure Protection Property Protection Resilient Economy Natural Resource Protection	All Depts	1-3 years	\$ 500,000	Anticipated	1
OSE1	Duwamish Valley Program Resilience and Adaptation Planning will study potential for creating a "resilience district" and the construction of protective multi-purpose sea-level rise infrastructure.	New	Assessments and Studies	Life and Safety Critical Infrastructure Protection Property Protection Resilient Economy Integrated Planning	OPCD, SPR, SPU, SDOT, OH, MO	< 1 year	\$600,000	Yes	3
SCL1	SCL Systems Operation Center Seismic Retrofit	Existing	Infrastructure/ Capital Projects	Life and Safety Critical Infrastructure Protection Property Protection Resilient Economy		1-3 years	\$ 2,700,000	Anticipated	4
SCL2	Seismic Review of Vaults & Substations, an update of a 1993 study.	Existing	Assessments and Studies	Life and Safety Critical Infrastructure Protection		1-3 years	\$ 200,000	Anticipated	4
SCL3	Seismic upgrade of 14 substations.	Existing	Infrastructure/ Capital Projects	Life and Safety Critical Infrastructure Protection		3-5 years	\$ 8,400,000	Yes	4
SCL4	Non-structural Mitigation at SCL Facilities to install seismically designed storage racks for critical parts and supplies, and secure furniture.	Existing	Non-Structural Measures	Life and Safety Critical Infrastructure Protection Property Protection		1-3 years	TBD	Yes	3
SCL5	Install Seismic Impact Recorders at Substations.	Existing	Non-Structural Measures	Life and Safety Critical Infrastructure Protection		1-3 years	TBD	No	3
SCL6	Map Cell Towers & Identify Feeders.	Existing	Assessments and Studies	Critical Infrastructure Protection		1-3 years	TBD	Yes	3
SDCI1	Ongoing Support for URM Retrofits to update URM inventories and proposed technical standard.	Existing	Plans and Regulations	Life and Safety Property Protection		3-5 years	TBD	Yes	6

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Lead Depart/ Action #	2021-2026 Mitigation Action	Action Status	Type of Action	Goals Supported	Supporting Departments	Timeline	Anticipated Cost	Funding Available	Loss Avoidance Rating
SDOT1	Seismically retro fit a 66-year old timber and steel seawall that support the roadway and sidewalk of N. Northlake Way.	New	Infrastructure/C apitol Projects	Life and Safety Critical Infrastructure Protection Property Protection Natural Resource Protection	SDCI	1-3 years	\$ 20,000,000	Anticipated	3
SDOT2	Strengthen and seismically upgrade the West Seattle High Bridge.	New	Infrastructure/C apitol Projects	Life and Safety Critical Infrastructure Protection Property Protection Resilient Economy Integrated Planning	WSDOT, US Coast Guard, Port of Seattle, NW Seaport Alliance	1-3 years	\$47,000,000	Anticipated	6
SDOT3	Post-Earthquake Arterial Damage Spot Repair Planning and Exercise.	New	Education and Awareness	Life and Safety Critical Infrastructure Protection Resilient Economy Property Protection		< 1 year	\$80,000	No	4
SDOT4	Bridge Seismic Retrofit Program has identified 14 bridges for retrofits. 10 bridges are funded by Move Seattle Levy, and 4 bridges are in need of funding.	Existing	Infrastructure/ Capital Projects	Life and Safety Critical Infrastructure Protection Resilient Economy		1-3 years	\$37,260,000	Yes	5
SDOT5	Vision Zero is a plan to reduce speed limits and add pedestrian signals to reduce ped/vehicle collisions which have increased during the pandemic.	Existing	Plans and Regulations	Life and Safety Critical Infrastructure Protection	SFD, KC, WSDOT	3-5 years	\$ 75,000,000	Yes	5
SPL1	Seismic Retrofit of three historic libraries- Green Lake, U-District and Columbia City.	New	Infrastructure/ Capital Projects	Life and Safety Critical Infrastructure Protection Property Protection		3-5 years	\$13,800,000	Yes	6
SPR1	Improvements to community centers to ensure they can serve as Clean Air and Cooling Centers .	Existing	Infrastructure/ Capital Projects		SCL, OEM, HSD	3-5 years	TBD	Anticipated	3
SPR2	Mitigate Impacts to Park Property and Assets Resulting from Flooding, High Tides and Sea Level Rise.	Existing	Assessments and Studies	Property Protection Natural Resource Protection	SPU	< 1 year	TBD	Yes	2

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Lead Depart/ Action #	2021-2026 Mitigation Action	Action Status	Type of Action	Goals Supported	Supporting Departments	Timeline	Anticipated Cost	Funding Available	Loss Avoidance Rating
SPR3	Seismic Retrofits of SPR Programmed Buildings	Existing	Infrastructure/ Capital Projects	Life and Safety Property Protection Natural Resource Protection	Office of Emergency Management/ Facilities and Administrative Services	<1 year	\$10,000,000 - \$20,000,000	Anticipated	6
SPR4	Mitigation of Potential Damage to Environmentally Critical Areas from weather-related hazards.	Existing	Infrastructure/ Capital Projects	Critical Infrastructure Protection Property Protection Integrated Planning	Seattle Parks and Recreation Facilities.	3-5 years	\$ 5,000,000	No	5
SPR5	Steep Slope Restoration of Coastal and Inland Areas	Existing	Natural System Protection	Natural Resource Protection Life and Safety Property Protection	Finance and Performance Management/ Green Seattle Partnership	< 1 year	\$ 6,000,000	No	3
SPR6	Mitigate Impacts to Park Property and Assets Resulting from Water Shortage by maintaining and strategically updating the water shortage contingency plan and implementing water reuse.	New	Natural System Protection	Natural Resource Protection	SPU	< 1 year		Yes	2
SPU01	Evaluate Wastewater Pump Stations for flooding and sea-level rise as they are upgraded or replaced. Potentially impacted pump stations will be modified to improve reliability and increase capacity.	New	Assessments and Studies	Critical Infrastructure Protection		1-3 years	\$ 100,000	Yes	2
SPU02	Seismic Upgrade and Rehabilitation for Eastside Reservoir in Bellevue and Riverton Reservoir in SeaTac.	New	Infrastructure / Capital Projects	Life and Safety Critical Infrastructure Protection		3-5 years	\$ 24,000,000	Anticipated	5
SPU03	Augment Water Pump Station with Emergency Generators.	New	Infrastructure / Capitol Projects	Critical Infrastructure Protection		3-5 years	\$ 1,000,000	Anticipated	3
SPU04	Magnolia Elevated Tank and Trenton Standpipes Recoating and Seismic Upgrade.	New	Infrastructure / Capitol Projects	Life and Safety Critical Infrastructure Protection		3-5 years	\$ 23,000,000	Anticipated	3

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Lead Depart/ Action #	2021-2026 Mitigation Action	Action Status	Type of Action	Goals Supported	Supporting Departments	Timeline	Anticipated Cost	Funding Available	Loss Avoidance Rating
SPU05	Complete the Shape Our Water Integrated Plan for drainage and wastewater systems that will assess impacts of flooding, sea-level rise, earthquakes, and identify investments to improve system and community resilience. Project implementation will follow plan completion.	New	Plans and Regulations	Integrated Planning Resilient Economy Natural Resource Protection Property Protection Life and Safety Critical Infrastructure Protection	SDOT, SPR, OPCD, DON, King County, community, and private sector stakeholders	1-3 years and beyond for implementa tion	TBD	Yes	5
SPU06	Install Piezometers / leachate extraction wells on east slope of Kent Highland Landfill to monitor the stability of the slope and mitigate slope failure risk.	New	Plans and Regulations	Life and Safety Critical Infrastructure Protection	WADOE, USEPA	1-3 years	\$ 200,000	Yes	5
SPU07	Implement flooding and sewer backup projects in Broadview, South Park and Beacon Hill neighborhoods.	Existing	Infrastructure/ Capital Projects	Property Protection	SDOT	Immediate	\$ 20,000,000	Yes	3
SPU08	Add system capacity and resilience to climate change impacts, and decrease polluted runoff, through funding community-identified green stormwater infrastructure projects.	New	Infrastructure/ Capital Projects	Property Protection Natural Resource Protection Integrated Planning		3-5 years	\$ 20,000,000	Yes	2
SPU09	Develop a Wildfire Strategic Plan to study potential wildfire impacts on water supply watersheds, identify, and implement mitigation strategies.	New	Plans and Regulations/Ca pital Projects	Life and Safety Critical Infrastructure Protection Natural Resource Protection Resilient Economy Integrated Planning	USFS, Washington State University, University of Idaho, SCL	1 year for the plan and beyond for implementa tion	TBD	Yes for Plan, TBD for mitigation strategies	5
SPU10	Perform seismic assessment of Cascade Dam and design seismic upgrade.	New	Assessments and Studies	Life and Safety Critical Infrastructure Protection Property Protection Natural Resource Protection Resilient Economy		0-5 years and beyond	TBD	Anticipated	6
SPU11	Begin implementing short- and long-term Water System Seismic Upgrade Plan to improve water system seismic resilience.	Existing	Infrastructure/ Capital Projects	Life and Safety Critical Infrastructure Protection Property Protection Resilient Economy Integrated Planning		0-5 years and beyond	TBD	Anticipated	6

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Lead Depart/ Action #	2021-2026 Mitigation Action	Action Status	Type of Action	Goals Supported	Supporting Departments	Timeline	Anticipated Cost	Funding Available	Loss Avoidance Rating
SPU12	Design of the Landsburg Flood Passage Project that will allow flood waters and large woody debris to pass around the dam to prevent dam failure.	New	Infrastructure/ Capital Projects	Life and Safety Critical Infrastructure Protection Property Protection Natural Resource Protection		1-5 years	TBD	Anticipated	6
SPU13	City acquired a 0.9 acre residential parcel to create the Lake City Floodplain Park to restore and reconnect floodplain in the North Branch of Thornton Creek. When complete it will contain floodplain and upland habitat and increase access to open space for the Lake City community.	New	Natural System Protection Infrastructure/ Capital Projects	Life and Safety Property Protection Natural Resource Protection Integrated Planning	SPR, Mid Sound Fisheries Enhancement Group	1-3 years	TBD	Anticipated	2
SPU14	Cedar Falls Power Service Upgrade that will improve quality, capacity, and redundancy of electrical service for the Cedar River Watershed. Phase I of a potential 2 phase project.	New	Natural System Protection	Critical Infrastructure Protection	SCL	1-3 years and beyond	\$12,000,000	Yes	5
SPU15	Comprehensive Peak Flow Program to replace undersized culverts in the drinking water watersheds to account for flood events and near-term climate change.	New	Infrastructure/ Capital Projects	Critical Infrastructure Protection Natural Resource Protection		1-5 years and beyond	\$2,000,000	Anticipated	2
SPU16	Study and design of a project to increase storage capacity for the Chester Morse Reservoir during drought conditions and provide new opportunities to lower the reservoir more quickly during flood conditions in the fall and winter.	New	Infrastructure/ Capital Projects	Critical Infrastructure Protection Property Protection Natural Resource Protection	SCL	1-5 years	TBD	Anticipated	4
SPU17	Design and repair/replace of the Tolt Dam Spillway used to release water from the Tolt Reservoir in flood and other emergency conditions.	New	Infrastructure/ Capital Projects	Critical Infrastructure Protection Property Protection Natural Resource Protection	SCL	1-5 years	\$9 -22,000,000	Yes	6

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7 PROGRAM IMPLEMENTATION

Chapter 7 provides an overview of the overall strategy for plan maintenance and outlines the method and schedule for monitoring, updating, and evaluating the plan. The chapter also discusses incorporating the plan into existing planning mechanisms and how to address continued public involvement.

The Seattle HMP is intended to be a "living" document that will help inform all interested parties about the City of Seattle's natural hazard mitigation policies and projects. It will be reviewed and updated on a regular basis. The mitigation strategy will guide for City of Seattle departments in determining projects and priorities for FEMA assistance and other mitigation funding.

7.1 Plan Adoption



E1. Does the Plan include documentation that the plan has been formally adopted by the [Seattle City Council]? (Requirement §201.6(c)(5))

44 CFR §201.6(c)(5) requires that the Seattle HMP be formally adopted by the Seattle City Council. City Council formally adopted the 2015 update of the Seattle HMP on [INSERT DATE]. This plan was approved by FEMA on [INSERT DATE].

See the front matter of this plan for adoption and approval materials.

7.2 Keeping the Plan Current



A6. Is there a description of the method and schedule for keeping the plan current (monitoring, evaluating and updating the mitigation plan within a 5-year cycle)? (Requirement $\S 201.6(c)(4)(i)$)

7.2.1 Monitoring and Evaluating the Plan

OEM is responsible for coordinating annual review of the Seattle HMP and making appropriate revisions. On an annual basis, OEM will gather monitoring information and convene the MWG to review the plan to ensure that all information is current.

Prior to the MWG meeting, departments will track and report the following information on those mitigation actions for which they are the lead:

- Mitigation accomplishments for completed actions, including documentation of actual losses avoided and benefits achieved.
- Overall status of mitigation actions, including justification for any cancelled actions.
- Status of funding for mitigation actions, such as the CIP, levies, and other grant funding.

The MWG will meet to consider the following and determine if any interim changes to the Seattle HMP are needed:

- Emerging or increasing hazards (e.g., wildfire smoke), damage trends and repetitive losses.
- Identification of new mitigation needs and potential new mitigation opportunities and actions.
- Changes in membership to the MWG.
- After-Action Reports or lessons learned reports issued to inform what new initiatives or actions should be added, or how to integrate mitigation into any recovery efforts. A specific mitigation

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question was added to the After Action Report survey to capture mitigation actions identified from real world events and exercises.

- Regional perspectives from external partners.
- Major updates of long-range policies and plans underway where mitigation principles or actions can be more fully integrated (e.g., comprehensive plan, climate action plan, capital improvement plan, major levy funding plans, zoning and building codes).
- Potential community partnerships and investments in community-led projects.
- Supporting OEM's equity analysis of mitigation program and actions, as well as learning from
 relevant analyses from other equity initiatives such as OPCD Equitable Development Initiative, Risk
 of Displacement Indicators and OSE Environmental Justice Committee.

The results of the annual review will be compiled into an Annual Mitigation Status Report that will be made available to key stakeholders and the public.

7.2.2 Updating the Plan

Every five years, OEM and the MWG will conduct a revision of the plan based on a thorough evaluation and community engagement. The MWG will develop an updated set of proposed mitigation actions based on emerging needs and the ongoing monitoring and evaluation of the plan and its component actions. The resulting draft plan will be made available for public comment. After the public comments have been reviewed and adjudicated, the plan will be approved by the groups identified in External Plan Review and Approval Summary table in the City of Seattle Emergency Management Planning Policy.

Work on the next update of the Seattle HMP will begin in 2025 and will be adopted in 2026. OEM intends to use the process described in Section 2.0 of this document with some modifications. The future process may include more in-person meetings and public outreach that was not possible in 2020 because of the pandemic.

7.3 Continued Public Involvement



A5. Is there discussion of how the [City of Seattle] will continue public participation in the plan maintenance process? (Requirement §201.6(c)(4)(iii))

Public involvement is a key component of the plan implementation and update process. The City will prepare and make available via the OEM website an Annual Mitigation Status Report providing an update on the implementation of the current Seattle HMP. OEM's monthly newsletter offer additional opportunities to highlight progress of individual mitigation projects.

The DMC is a broad stakeholder group of senior City staff, emergency management professionals and engaged community volunteers that support the City's Emergency Management Programs. This group is another way to raise awareness or get feedback on mitigation projects and issues on a continuous basis.

OEM has included a mitigation action to expand partnerships between the City and community-based organizations to plan, fund and implement mitigation projects. Implementation will involve targeted outreach to high priority community service organizations. In coming years, the City will make investments in more community-led projects. This could lead to increased level of community involvement in mitigation projects and programs.

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RECORD OF CHANGES

Change Number	Section	Date of Change	Individual Making Change	Description of Change

APPROVALS AND ADOPTION RECORDS

Approval/Adoption Body	Date of Action	Notes		

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June 8, 2021 OEM Director Curry Mayer



WHAT IS THE ALL-HAZARDS MITIGATION PLAN (HMP)?

- Comprehensive document
- Detailed information about the types of hazards we face (SHIVA)
- Actions we can take before disaster strikes
- Approved by Federal Emergency Management Agency
- Keeps Seattle eligible for FEMA mitigation grants

WHAT'S NEW FOR THIS UPDATE?

- More departments engaged
- Listing of major citywide plans, codes and funding levies
- Evolving information on community-led investments
- Adjust criteria to reflect values

 RSJI, collaboration, multiple
 benefits



WHAT DO WE PLAN TO DO IN THE FUTURE?

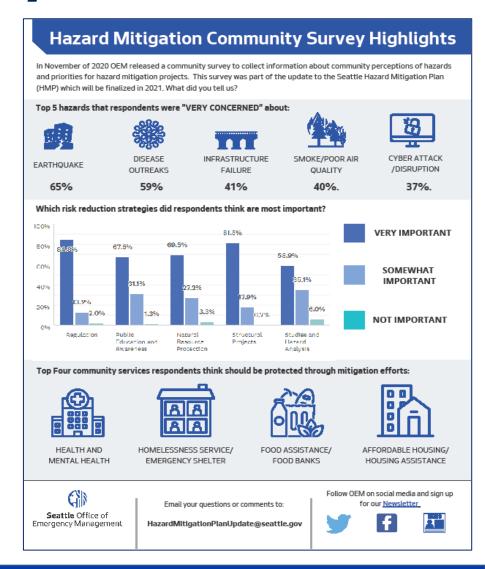
Some of the 47 mitigation projects in the updated HMP:

- Seismic retrofits of bridges and dams
- Seismic retrofit of three Carnegie branch libraries
- Integrate hazard mitigation policies into the next Comprehensive Plan update
- Design multi-purpose infrastructure to protect South
 Park from sea level rise
- Replace the retaining wall on N Northlake Way
- Seismic upgrades for the Riverton and Eastside reservoirs



Community Survey Results

- Earthquakes are the hazard of greatest concern
- Priority facilities:
 - health & mental health,
 - homelessness services /emergency shelters,
 - food banks, and
 - affordable housing



FEMA Hazard Mitigation Grants

- Awarded in excess of \$23 million + in FEMA funding for projects and planning
- Pending applications:
 - Three (3) seismic applications pending
 - Totaling more than \$21 million

S augen				Award Project	Reimburse			
Mitigation Project Title	Hazard	Funding Source	Award Date		ment level	Lead Department	Principal Benficiary(ies)	Status
University Bridge Seismic	Earthquake	HMGP - DR 981	Aug-95	\$ 900,000	87.5%	SDOT [Seattle Eng. Dept.]	SDOT [Seattle Eng. Dept.]	Completed
Bridge Six Seismic Project **	Earthquake	HMGP - DR 1979	Aug-97	\$ 3,337,630	87.5%	SeaTran	SeaTran	Completed
Fire Station 2 & 18 Seismic Retrofit	Earthquake	HMGP - DR 1100	May-97	\$ 1,096,000	87.5%	ESD [Facilities]	Seattle Fire	Completed
Duwamish Head Stabilization Project	Landslide	HMGP - DR 1159	Mar-99	\$ 2.187,500	87.5%	SPU [DWU]	Parks, Private Property Owners	engineering award!
Duwamish Head Stabilization Project	Landsiide	HMGP - DK 1159	Mat-99	\$ 2,187,500	87.3%	SPO (DWO)	Parks, Private Property Owners	awardi
North Queen Anne Dr. Bridge Seismic Retrofit	Earthquake	HMGP - DR 1361	Aug-02	\$ 1,200,000	87.5%	SDOT	SDOT	Completed
							Low Income Private Property	
Low Income Home Seismic Retrofit	Earthquake	HMGP - DR 1361	Jan-03	\$ 1,000,000	87.5%	SPD/OEM	Owners	Completed
Mitigation Plan Development	All Hazards	HMGP - DR 1361	Oct-03	\$ 100,000	87.5%	SPD/OEM	Citywide Plan	Completed
witigation Flan Development	All Hazarus	HWIGF - DK 1301	OCC-03	3 100,000	67.3%	SFD/OEM	Citywide Flair	Completed
South Lake Union Armory Building Seismic Retrofit	Earthquake	PDMC 2005	Nov-05	\$ 713,229	75%	Parks	Parks & MOHAI (current tenant)	Completed
							FFD & multiple tenant	
Gas Shut Off Valves Project	Earthquake & Fire	HMGP - DR 1671	Sep-08	\$ 200,000	87.5%	FFD	departments	Completed
O A Cit. Ct. Scientis Beterite	Familia de la constanta de la	HMGP - DR 1671	A= 00	\$ 780,000	87.5%	Da alsa	Darka ESE C Challesian	C
Queen Anne Community Center Seismic Retrofit	Earthquake	HWIGH - DK 10/1	Aug-08	\$ 780,000	87.3%	Parks	Parks; ESF 6 Sheltering SDOT, Seattle Steam, hospitals,	Completed
Post Alley Areaway Seismic Retrofit	Earthquake	HMGP - DR 1682	Oct-10	\$ 589,055	87.5%	SDOT	Pioneer Square	Completed
Urban Flood Hazard Identification Project	Urban Flooding	HMGP - DR 1817 & 1825 5% Fo	Nov-10	\$ 208,500	87.5%	SPU	SPU	Completed
Jefferson Community Center Seismic Retrofit	Earthquake	HMGP - DR 1817 & 1825	May-11	\$ 1,371,198	87.5%	Parks	Parks; ESF 6 Sheltering	Completed
defierson community center seismic ketronic	carinquake	NWGP - DK 1617 & 1625	IVIdy-11	\$ 1,571,198	87.3%	PdIKS	Parks; car o aneitering	Completed
URM Public Education and Outreach	Earthquake	HMGP DR 4056 5% Funding	Jul-12	\$ 71,905	87.5%	DPD	DPD	Completed
Mitigation Plan Update & Seismic Assessment	All Hazards	PDMC 2011	Nov-11	\$ 379,220	75%	OEM & FAS	Citywide Plan	Completed
Columbia St. Areaway Seismic Retrofit	Earthquake	HMGP - DR 4243	May-17	\$ 1,737,885	87.5%	SDOT	SDOT	Completed
Columbia St. Aleaway Seisinic Netronic	Lattiquake	TIMIGE - DK 4243	IVIGY-17	\$ 1,737,003	07.376	3501	3501	completed
							Community Roots Housing	
Bremer Apartments Seismic Retrofit	Earthquake	PDM 2018	May-20	\$ 5.016.312	75%	Office of Emergency Management	(formerly Capitol Hill Housing) & Office of Housing	In progress
oremen Approximents seisinic neuvint	Lui diquake	1 Din 2010	Iviay-20	V 3,010,312	/376	wanagement	Office of Housing	iii piugicaa
9th Ave NIM Bridge Colomic Petrofit	Earthquake	HMGP DR 4309	Oct-20	\$ 2,691,045	87.5%	SDOT	SDOT	In progress
8th Ave NW Bridge Seismic Retrofit	Lai tilquake	Award Total:	UCI-20	\$ 23,579,479	87.5%	3001	3001	In progress
		Awaru Total.		\$ 23,379,479				
Pending Applications								
Hiawatha Community Center Seismic Retrofit Proj		PDMC 2019		\$ 704,634	75%	Parks & Recreation		
Northlake Retaining Wall Seismic Retrofit Project Tolt Water Supply Pipeline Seismic Resiliency Pro		BRIC 2020 BRIC 2020		\$ 17,637,637 \$ 2.876,336	75% 75%	SDOT SPU		
rost water supply ripeline seismic kesillency Pro	cordiquake	DN1C 2020		\$ 2,070,330	/3%	310		

Next steps...

- Promulgate to Council for their approval
- Final review & approval by:
 - WA State Emergency Management Division
 - FEMA

MITGATION WORK GROUP MEMBERS

ARTS	Flossie Pennington	ОН	Dan Foley	SFD	Andy Collins
СВО	Jennifer Devore Kara Main Hester	OPCD	Patrice Carroll David Goldberg	SPL	Dennis Reddinger
DON	Sarah Sodt	OSE	TBD	SPR	Jon Jainga Scott Stevens
FAS	Elenka Jarolimek Julie Matsumoto	PH- SKC	Addison Houston	SPR/ SPU	Cynthia McCoy
HSD	Jill Watson	SC	Jae Lee	SPU	Michael Godfried
ITD	Lawrence Eichhorn Mary Wylie	SCL	Jana Elliot Brittany Barnwell	PoS	Kati Davich
OED	Jessica Sidhu	SDCI	Micah Chappell	SHA	Jared Cummer
OEM	Erika Lund TJ McDonald Laurel Nelson Lucia Schmit	SDOT	Patti Quirk	SPS	Benjamin Coulter

^{**}New for 2021 HMP





SEATTLE CITY COUNCIL

600 Fourth Ave. 2nd Floor Seattle, WA 98104

Legislation Text

File #: Inf 1823, Version: 1

Criminal Legal System Strategic Plan



Realigning Seattle's Criminal Legal System through a Public Health Approach:

The intersection between Community wisdom and evidence-based practices

Carlos D. Lugo
Analyst
Seattle City Council Central Staff



CRIMINAL LEGAL SYSTEM STRATEGIC PLAN

Carlos D. Lugo, Analyst, Seattle City Council Central Staff

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Executive Summary

The following is a summary of the work regarding Council's Criminal Legal System (CLS) realignment project. Specifically, it addresses (1) the project's background and scope; (2) methodology; (3) a synopsis of my recommendations.

Project Scope

Council adopted Council Budget Action (CBA) 12-22-B-1 and CBA 19-1-B-1 as part of the City's 2019 Adopted Budget. These budget actions authorized and funded one term-limited position in the City's Legislative Department and one permanent position in the Office for Civil Rights (OCR) to coordinate institutional and community stakeholder engagement about how the City could realign the municipal CLS. As CBA 19-1-B-1 requested a strategic plan to implement some of the recommendations already provided to the City about the CLS through previous Citysponsored engagements (e.g. Racial Equity Toolkits) and taskforces (e.g. Seattle Reentry Taskforce, Bail Reform Taskforce), this effort focused on actions that the City could take and does not address practices in the larger CLS outside of the City's purview (i.e. policies instituted at the County, State, or Federal levels). Informed by the Sequential Intercept Model (SIM) which breaks down the CLS into intercepts corresponding with opportunities for alternative interventions to reduce system-involvement, I specifically looked at potential alternative responses at Intercepts Zero (community services), One (emergency response/police), and Two (pretrial and initial court appearances) that (1) are aligned with previously-given community feedback; (2) could address racial disproportionality in arrests and incarceration; and (3) align the system with evidence-based practices intended to reduce negative outcomes for individuals suspected of having committed a crime while reducing recidivism.

It is important to note that while I am a member of Central Staff, my approach on this project was that of a consultant and deviated from the traditional Central Staff role in that the strategic plan offers recommendations on how to realign the CLS instead of offering non-partisan policy analysis. This shift in focus was by design based on the direction given by the previous Central Staff Director.

Methodology

In line with Council's direction and the Reentry Taskforce's recommendation in its 2018 Final Report to center the experiences of those impacted by the municipal CLS without overburdening those communities, I began developing the strategic plan with a review and analysis of feedback that the City and King County gathered through previous CLS-related community engagement sessions (Racial Equity Toolkits, Human Services Department Co-Design Report, etc.) as well as through a review of community-produced policy and advocacy briefs. This process was responsive to criticism that the City repeatedly asks community members for recommendations and then fails to act on those recommendations. Community leaders advised that this pattern creates community fatigue as community members repeatedly engage with City government without seeing results or actions that reflect community input. I

then compiled recurring themes in those documents into Guiding Principles which served as a foundational document for the rest of my approach on the project. Those principles are:

- The City should engage directly impacted communities on a consistent basis and involve them in the decision-making and solutions. It should also partner with directly impacted communities and community-based organizations to ensure accountability and cultural competence. CLS reform/realignment should lead with a race and social justice equity lens. It should also honor human dignity.
- Reform/realignment efforts should honor and acknowledge community's history of organizing for change.
- The Seattle Police Department should improve its relationship with historically under resourced communities through an increase in positive interactions.
- The City should reduce unequal and disparate treatment faced by Black, Indigenous, People of Color (BIPOC) communities in the criminal legal system.
- The City should compassionately and competently engage with vulnerable members of the community experiencing homelessness and mental illness.
- There should be alternatives to a formal law enforcement presence that community can rely on that decrease surveillance and emphasize de-escalation, mediation and treatment, i.e. Community Service Officers (CSOs), alternatives to 911, and other avenues for resolution without legal entanglement.
- The City should increase opportunities for diversion, decriminalization, and alternatives to arrest to reduce the use of jail as well as surveillance through the probation system.
- The City should reduce incarceration by renegotiating and seeking to eliminate the jail bed "floor" in its contract with the King County jail.
- CLS reform should incorporate opportunities for restorative justice practices.
- The City should examine the root causes of why people are in jail and shift resources to address those needs.
- The City should acknowledge that involvement in the CLS (overall and not specifically
 the City's municipal system) is often preceded by a variety of social factors including
 homelessness, child protection services (CPS) intervention, and poverty among other
 risk factors. Therefore, CLS reform should also include interventions in expanding access
 to [economic] resources and social services for vulnerable communities.

From there, the strategic plan design process took two separate tracks: Track One consisted of research into theories on the causes of crime as well as best practices and expert recommendations on creating effective alternatives to the traditional CLS that were in line with the Guiding Principles. Track Two centered on generating updated community-produced recommendations through the formation of a community taskforce (in partnership with the Seattle Office for Civil Rights). The taskforce was comprised of nine individuals from historically under resourced communities who either (a) had direct lived experience with incarceration or probation or (b) supported family or community members through incarceration. In addition to generating a set of updated community recommendations based on taskforce members' lived

experience, OCR and I had an additional goal of building community knowledge of how the CLS operates.

Track One recommendations center the Risk-Need-Responsivity (RNR) model which is rooted in behavioral psychology and whose principles have been highlighted by entities such as the United States' Department of Justice, the National Center for State Courts, and the Crime & Justice Center as effective recommendations for implementing evidence-based practices that can reduce recidivism (by 35 percent). The model is concerned with addressing the causes of crime through reduction of criminogenic needs (unmet needs that can increase an individual's propensity to engage in criminal law violations) and is comprised of three main principles:

- Risk Principle The risk principle states that services and interventions should be matched to an individual's risk to reoffend and that intensive services should be reserved for individuals who are at the highest risk for recidivating.
- Need Principle The need principle states that interventions should focus on addressing criminogenic needs (e.g. current unemployment, housing insecurity, etc.).
 Responsivity Principle The responsivity principle states that interventions should employ behavioral, social learning and cognitive behavioral influence and skill building strategies (General Responsivity). They should also be delivered in a way that is responsive to clients' learning styles (Specific Responsivity). This includes, "building on strengths; reducing personal and situational barriers to full participation in treatment; establishing high-quality relationships; delivering early and often on matters of personal interest; and starting where the person is at."

According to the research, risk and needs can be determined through the use of a validated assessment instrument that evaluates eight different factors:

- Previous conviction history;
- History of gang involvement (antisocial associates);
- Endorsement of attitudes supporting violence/manipulation (Antisocial behavior/Personality pattern);
- Problems in familial/intimate relationships (poor relationship quality with little mutual caring or respect);
- Lack of high school degree/GED;
- Current unemployment;
- Substance use disorder;
- Homelessness/housing insecurity (not traditionally a factor in the RNR model, but the Center for Court Innovation found that it should be included for the misdemeanor population).²

¹ Andrews, D.A. & Bonta, James, "Risk-need-responsivity model for offender assessment and rehabilitation 2007," *Public Safety Canada*, https://www.publicsafety.gc.ca/cnt/rsrcs/pblctns/rsk-nd-rspnsvty/index-en.aspx

² Rempel, Michael et al. "Understanding Risk and Needs in the Misdemeanor Population: A Case Study in New York City, *The Center for Court Innovation*, May 2018.

Track Two recommendations were generated by the taskforce members through 24 weekly sessions organized by OCR and myself; and facilitated by David Heppard from the Freedom Project. During that time, taskforce members met virtually with members from communitybased organizations such as Decriminalize Seattle, King County Equity Now, and Northwest Community Bail Fund to learn about those organizations' work and ideas on alternatives to the CLS. They also met with representatives from social service providers serving CLS-involved clients as well as staff from City institutions including the Community Police Commission (CPC), the City Attorney's Office (CAO), and the Seattle Municipal Court (SMC). OCR and I assumed a support staff role and compiled the taskforce's recommendations into a slide deck (see attached) that the taskforce members presented to SMC and CAO leadership as well as to Councilmembers Herbold and Morales. The contracted facilitation team in conjunction with OCR staff will produce the taskforce's report, which is expected to be completed in late May and will be included in my final report. While there are points of overlap between both tracks' recommendations, such as ending pretrial detention, expanding 911 alternative responses, and allocating funding toward preventative measures to reduce the likelihood of CLS involvement, there are differences in approaches on implementation steps and the scope of the City's involvement in relying on existing institutions to address criminal violations. In particular, some taskforce members disagree with introducing risk/need assessment tools. This and other differences will be noted in the taskforce's final report.

Overview of Track One Recommendations

The RNR model provides an evidence-based understanding of the risk/need factors that can precipitate an individual's continued involvement with the CLS. As criminogenic needs are dynamic, the City's responses at each intercept in the CLS can positively or negatively impact those needs. Through the use of public health principles that incorporate this information, the City can reduce the CLS' harm while envisioning an evidence-based public safety model that is rooted in prevention, treatment, and support instead of punitive responses. Public health approaches aim to provide the maximum benefit for the largest number of people and programs based on public health approaches are designed to expose a broad segment of a population to prevention measures by addressing the causes of the health problem. Specifically, Track One recommendations are that the City consider the following investments and policy changes. Clearly, the City will need to evaluate these recommendations in the context of limited funds to determine which investments can be prioritized for near-term implementation:

- Increase its investments in non-police 911 alternatives, including but not limited to interventions such as the Seattle Fire Department's Health One program. It should also update its emergency dispatch protocols to expand the use of alternative responses.
- Change City laws and policing practices such that the Seattle Police Department (SPD)
 employs alternatives (such as issuing summonses) to arrests for misdemeanor crimes
 except for specific circumstances such as those crimes where State law mandates
 arrests (Domestic violence and Driving Under the Influence DUI).

- Establish and fund new programs that:
 - o promote community-based pretrial release; and
 - eliminate the burden of cash bail on economically disadvantaged individuals in the pre-trial stage.
- Expand diversion alternatives, preferably at the pre-filing stage to reduce some of the costs associated with criminal trials (e.g. CAO and SMC staffing) and eliminate the creation of criminal records. By employing validated risk/need assessments at the pre-filing stage (by either the CAO or a community-based contracted partner) to match individuals with an appropriate level and type of support, the City can reduce recidivism and incarceration by addressing criminogenic needs.
- Increase funding in social services that can reduce criminogenic needs to bring diversion programs to scale and make diversion in lieu of prosecution the City's primary response to misdemeanor law violations.
- Continue negotiations with King County on amending the jail contract to reduce spending on jail services over time as the City implements reductions in arrests, pretrial detention, and punitive post-trial incarceration.
- Reinvest any savings from reduced jail and court use in historically under-resourced communities. In partnership with these communities through a participatory budgeting process, the City should focus its investments in programs that can reduce criminogenic needs and adverse childhood experiences (ACEs). This includes childcare, health and mental health services, employment services, early education and family support programs, affordable housing, etc.

Chapter 1: Criminal Legal System Strategic Plan Background & Overview

Background

In the past several years, Council has asked Central Staff and the Executive to examine and implement a number of initiatives spanning the range of the criminal legal system (CLS) and its interaction with and impacts on communities. For example, in 2015, Council passed the Zero Youth Detention Resolution (Resolution 31614 sponsored by former Councilmember Mike O'Brien) endorsing a vision that Seattle become a city that eliminates the need for youth incarceration; and in 2017, Council unanimously passed a police accountability law (Ordinance 125315) that created, "an integrated structure of community input and civilian oversight through a new Office of Inspector General (OIG), a strengthened Office of Police Accountability (OPA), and a permanent Community Police Commission (CPC)," which had been a temporary body created by the City's Consent Decree with the Department of Justice (DOJ).

More recently, Council repealed prostitution and drug loitering laws as was recommended by the City's Reentry Workgroup's Final Report and set aside \$28 million in the 2021 Adopted Budget for participatory budgeting to fund community priorities and an additional \$30 million for community safety investments that will be informed by recommendations from the Equitable Communities Initiative Task Force. Mayoral administrations, the City Attorney's Office (CAO) and the Seattle Municipal Court (SMC) have also sought to reform the CLS through various initiatives including youth violence prevention programs and both pre-filing and post-filing diversion programs.

While Breonna Taylor and George Floyd's homicides at the hands of the Louisville and Minneapolis police officers were a catalyst for nationwide demonstrations against police brutality, historically under resourced communities in Seattle have been demanding government action against racial disproportionality and inequities in the CLS for many years. In the past decade alone, organizing by these communities following SPD's unjustified fatal shooting of Nuu-chah-nulth First Nations woodcarver, John T. Williams, has led to recognition by the City and the DOJ that SPD engaged in "a pattern or practice of constitutional violations regarding the use of force that result from structural problems, as well as serious concerns about biased policing." Further community mobilization over CLS issues revolved around halting the construction of King County's new youth detention center, halting the construction of a new SPD North Precinct, reducing the size of the SMC's probation program, and most recently reducing the size of SPD's budget to invest in community support programs.

³ American Civil Liberties Union of Washington, "Timeline of Seattle Police Accountability," https://www.acluwa.org/pages/timeline-seattle-police-accountability

⁴ United States Department of Justice, "Investigation of the Seattle Police Department," https://www.justice.gov/sites/default/files/crt/legacy/2011/12/16/spd_findletter_12-16-11.pdf

What is the problem?

While the City has made advances in reshaping the municipal CLS, Central Staff advised Council in a 2018 Budget Issue memorandum that "the City does not currently coordinate across departments to set and align overall policy, outcomes, and investments or direct that a coordinating body vet all initiatives regarding the criminal legal system to ensure alignment...[and] there does not appear to be a coordinated approach to involve and not overburden communities most impacted by the criminal legal system to inform policy, outcomes, or investments." Additionally, the Reentry Workgroup (created through Resolution 31637 sponsored by former Council President Bruce Harrell) recommended that the City's independently elected branches, "work closely to build a coherent strategy; one that is coordinated and aligned with identifiable values and objectives developed in partnership with communities that have been most impacted by the criminal legal system." 5

In response to this and advocacy from the Budget for Justice (BfJ) coalition around cutting SMC's probation funding during the fall of 2018, Council adopted Council Budget Action (CBA) 12-22-B-1 and CBA 19-1-B-1 as part of the City's 2019 Adopted Budget. These budget actions authorized and funded complimentary positions in the City's Legislative Department and the Office for Civil Rights (OCR) to coordinate institutional and community stakeholder engagement to realign the municipal CLS. In terms of the scope and focus of the realignment project, Council President (then-Public Safety Committee Chair) Lorena Gonzalez stated, "As opposed to having the lead agencies being institutions that are rooted and based in the criminal justice system, we're looking at ways to invest in community-based organizations that are centered in a harm reduction approach for the purposes of making sure that we are meeting the needs of people who might be involved with the criminal justice system that again is rooted in community spaces as opposed to rooted in law enforcement which is fundamentally our prosecutors and our court system."

What was the approach?

In line with Council's direction and the Reentry Taskforce's recommendation in its 2018 Final Report to center the experiences of those impacted by the municipal CLS without overburdening those communities, I began developing the strategic plan with a review and analysis of feedback that the City and King County gathered through previous CLS-related community engagement sessions (Racial Equity Toolkits, Human Services Department Co-Design Report, etc.) as well as through a review of community-produced policy and advocacy briefs. This process was responsive to criticism that the City repeatedly asks community members for recommendations and then fails to act on those recommendations. Community leaders advised that this pattern creates community fatigue as community members repeatedly engage with City government without seeing results or actions that reflect community input.⁷

⁵ Seattle Office for Civil Rights, "Seattle Reentry Workgroup Final Report," https://www.seattle.gov/Documents/Departments/CivilRights/Reentry%20Workgroup%20Final%20Report.pdf

⁶ Seattle City Council Select Budget Committee Meeting, 9/27/2019 (OCR budget presentation)

⁷ Alcantara-Thompson, Deann, "Report for Bail Reform Workgroup," Seattle Office for Civil Rights.

Through the review of previous engagement efforts, I sought to identify previously documented answers to the following questions:

- What does safety look like for you and your community? What should City government's role be in achieving that safety;
- What should accountability look like to the victim or community from the individual who broke the law;
- What should accountability look like from the institutions that make up the CLS;
- What should be the underlying values/principles driving the City's CLS;
- What are ways to minimize the CLS' harm to communities;
- What are short-term and long-term goals that CLS reform efforts should address; and
- How should we measure success or failure in the CLS?

I then compiled recurring themes that were responsive to these questions into Guiding Principles which served as a foundational document for the rest of the project. Those principles are:

- The City should engage directly impacted communities on a consistent basis and involve them in the decision-making and solutions. It should also partner with community and community-based organizations to ensure accountability and cultural competence. CLS reform should lead with a race and social justice equity lens. It must also honor human dignity.
- Reform efforts should honor and acknowledge community's history of organizing for change.
- The Police Department should improve its relationship with communities through an increase in positive interactions.
- The City should reduce unequal and disparate treatment in the CLS.
- The City should compassionately and competently engage with vulnerable members of the community experiencing homelessness and mental illness.
- There should be alternatives to a formal law enforcement presence that community can rely on that decrease surveillance and emphasize de-escalation, mediation and treatment, i.e. Community Service Officers (CSOs), alternatives to 911 and other avenues for resolution without legal entanglement.
- The City should increase opportunities for diversion, decriminalization, and alternatives to arrest to reduce the use of jail as well as surveillance through the probation system.
- The City should renegotiate the jail bed "floor" in its contract with the King County jail.
- CLS reform should incorporate opportunities for restorative justice practices.
- The City should examine the root causes of why people are in jail and shift resources to address those needs.
- The City should acknowledge that involvement in the CLS is preceded by a variety of social factors including homelessness, CPS intervention, racist discipline against youth of

color, lack of resources, and poverty among other risk factors. Therefore, CLS reform must also include actionable interventions in expanding access to resources for vulnerable communities.

From there, the project bifurcated into two separate tracks. Track One consisted of research into theories on the causes of crime as well as best practices and expert recommendations on creating effective alternatives to the traditional CLS that were in line with the Guiding Principles. Track Two centered on generating updated community-produced recommendations through the formation of a community taskforce (in partnership with the Seattle Office for Civil Rights).

The taskforce was comprised of nine individuals from historically under resourced communities who either (a) had direct lived experience with incarceration or probation or (b) supported family or community members through incarceration. In addition to generating a set of updated community recommendations based on taskforce members' lived experience, OCR and I had an additional goal of building community knowledge of how the CLS operates. Through 24 weekly sessions facilitated by David Heppard from the Freedom Project, taskforce members met virtually with members from community-based organizations such as Decriminalize Seattle, King County Equity Now, and Northwest Community Bail Fund to learn about those organizations' work and ideas on alternatives to the CLS. They also met with representatives from social service providers serving CLS-involved clients as well as staff from City institutions including the CPC, the CAO, and the SMC. OCR and I assumed a support staff role and compiled the taskforce's recommendations into a slide deck (see attached) that the taskforce members presented to SMC and CAO leadership as well as to Councilmembers Herbold and Morales.

The contracted facilitation team in conjunction with OCR staff will produce the taskforce's report, which is expected to be completed in late May. While there are points of overlap between both tracks' recommendations, such as ending pretrial detention, expanding 911 alternative responses, and allocating funding toward preventative measures to reduce the likelihood of CLS involvement, there are differences in approaches on implementation steps and the scope of the City's involvement in relying on existing institutions to address criminal violations. In particular, some taskforce members disagree with introducing risk/need assessment tools. This and other differences will be noted in the taskforce's final report.

What is the City's CLS?

As Council directed that this project focus on realigning the City's CLS instead reforming it, this section will review the system as it currently exists, look at its philosophical underpinnings, and evaluate whether current practices are in line with current research on furthering public safety goals.

Through the CLS, all three independently elected branches of government are involved in maintaining public safety. While an individual's initial experience with the City's CLS may come

through contact with an SPD officer over the course of an arrest, the officer's decision to carry out the arrest is predicated on establishing probable cause that the suspect committed a misdemeanor or gross misdemeanor (more serious crimes such as murder or armed robbery are felonies) in violation of the City's criminal code (<u>Title 12A</u> of the City's Municipal Code). The Municipal Code reflects state level statutes (<u>RCW Title 9A</u>) enacted by the State Legislature as well as ordinances passed by City Council. It also prescribes penalties for violating the criminal code.

If an SPD officer conducts an arrest, the person suspected of committing the crime is typically booked into the King County Jail and SPD refers the matter to the CAO for possible prosecution if it is a misdemeanor or gross misdemeanor. Felony matters are referred to the King County Prosecuting Attorney's Office (KCPAO) as are non-driving offenses involving juveniles. Following SPD's referral, prosecutors from the CAO's criminal division evaluate the case and based on the presented circumstances, decide whether to file charges, decline prosecution, or refer the individual for diversion. In situations where CAO decides to prosecute, the individual suspected of committing the crime is brought before SMC judges who review whether probable cause exists to proceed to trial and if so, set bail and pretrial release conditions, adjudicate the matter, and upon a finding of guilt by a jury or the judge, impose a sentence within the range of penalties in the Municipal Code. Lastly, SMC also operates the City's Programs and Services Division (probation services) which supervises SMC-sentenced individuals by monitoring compliance with court-issued conditions and provides connections to social services.

In evaluating the City's CLS, one of the central recurring questions was – what are the goals that the CLS, as it has been organized, is attempting to achieve. According to the section $\underline{12A.02.040}$ in the Municipal Code, the purpose of the City's criminal code is to:

- To forbid and prevent conduct that unjustifiably and inexcusably inflicts or threatens harm to individual or public interests;
- To safeguard conduct that is without culpability from condemnation as criminal; and
- To give fair warning of the nature of the conduct declared to constitute an offense.

Similarly, as part of its mission statement, the CAO's criminal division's <u>website</u>, states that it works to:

 Ensure respect for and compliance with criminal municipal ordinances by holding offenders accountable through fair and effective prosecution and enforcement.

The central themes in both of these documents is that these City institutions are striving to prevent crime and increase public safety by holding suspected lawbreakers accountable through publication of prohibited conduct and potential punishments as well as prosecution which can lead to imposition of the prescribed punishment. While CAO can use prosecutorial discretion to offer individuals non-punitive diversion options, the threat of punishment for non-compliance remains a central tenet in the way the system operates as under state-law, a conviction for a misdemeanor can result in a fine of up to \$1,000 and/or imprisonment for up

to 90 days. Conviction for a gross misdemeanor can result in a fine of up to \$5,000 and/or imprisonment for up to 364 days.

The City's reliance on punishment and the threat of punishment is common to the CLS in the United States. Indeed, the DOJ's National Institute of Justice identifies punishment and incapacitation through incarceration as "a linchpin of United States sentencing policy." If the City is to take a critical look at its CLS, it is important to review what the theoretical purpose of punishment is and whether reliance on punishment is an effective method of promoting public safety.

What are the objectives of punishment in the CLS?

According to criminal justice theory, the traditional objectives of criminal punishment are retribution, deterrence, incapacitation, and rehabilitation. This section provides a brief overview of each of these and evaluates them against Community's Guiding Principles and research.

Retribution is defined as the desire to punish law violators for their transgression; and it "operates on a consensus model of society where the community, acting through a legal system of rules, acts 'rightly,' and the criminal acts 'wrongly'." ¹⁰ As the transgression of societal norms and expectations is central to the theory of punishment as retribution, it does not generally concern itself with evaluating whether punishment is effective in reducing crime nor does it take into consideration societal causes of crime or whether an individual's circumstances in regard to poverty or mental illness may have contributed to their committing the crime. Society and lawmakers, as its representatives in a democratic republic, may decide that punishment as retaliation has a place in the felony system for more serious crimes. This may be particularly true in regard to violent crimes against persons, such as in cases of rape and murder. For misdemeanor-level crimes, however, City Council has emphasized centering the experiences of historically under resourced communities and through the Guiding Principles document, community has espoused values antithetical to the idea of retribution as a driving force in the City's CLS. Rather than retribution, community has asked that the City, "acknowledge that involvement in the CLS is preceded by a variety of social factors including homelessness, CPS intervention, racist discipline against youth of color, lack of resources, and poverty among other risk factors." Community has also asked that the City "compassionately and competently engage with vulnerable members of the community experiencing homelessness and mental illness."

Deterrence as an objective of punishment is predicated on the idea that aversion to possible punitive consequences will deter individuals from committing crimes. It supposes that individuals will make a rational choice that the consequences of breaking the law will outweigh

⁸ National Institute of Justice, "Five Things About Deterrence," https://nij.ojp.gov/topics/articles/five-things-about-deterrence#addenda

⁹ Banks, Cyndi, "Criminal Justice Ethics: Theory and Practice," Sage Publishing, January 2019 ¹⁰ Ibid.

any perceived benefits from their crime. Research, however, does not show that it is generally effective, as "there exists no scientific basis for expecting that a deterrence policy, which does not involve an unacceptable interference with human rights, will do anything to control the crime rate." One of the major problems with deterrence is that the certainty of being caught has a greater impact on reducing crime than the severity of punishment. In order to ensure that individuals are caught, however, deterrence-based public safety often relies on increased surveillance and policies such as broken windows and order-maintenance policing (OMP). These practices were implemented in New York City during Mayor Giuliani's administration; and an evaluation of those practices by the United States Commission on Civil Rights cited research that this type of surveillance disproportionately impacted historically under resourced communities with residents stating that, "they feel they are being watched when they wake up and see police in their courtyards; they see police in their hallways at school; and they are constantly alerted to the NYPD's presence through police standing on street corners."

Relying on punishment as deterrence in the misdemeanor system also ignores that for crimes of poverty, an individual's immediate need may outweigh any threat of punishment. An April 2019 NPR/KUOW article about thefts at Seattle-area Goodwill stores highlights some of these incidences where homeless individuals were arrested, prosecuted, and in some cases jailed for shoplifting items necessary for their survival. For example, a homeless man spent 19 days in jail for stealing t-shirts, socks, and headphones which had a combined value of \$36.99. In another example, a 47-year-old man was caught attempting to steal a sweatshirt, a shirt, and a pair of sweatpants totaling \$29.97. "When the Goodwill loss prevention officer caught him and asked why he took the clothes, the man said he was homeless – he needed them."14 Incapacitation is another reason for why the CLS inflicts punishment. Incarceration, whether through jail (county facility holding people sentenced to under 365 days) or prison (state facility for those sentenced to over 365 days), isolates the law violator from society and largely eliminates the possibility that they can commit additional crimes during their period of detention. Traditional probation practices can also serve a similar purpose. While the individual on probation has a greater degree of liberty in comparison to an incarcerated individual, probation conditions and their enforcement through supervision are intended to restrict or incapacitate the individual from the opportunity to commit crime.

As with the previously mentioned theories underlying punishment, incapacitation has a weak connection to increasing public safety and reducing crime. In an "evidence brief," addressing incarceration, the Vera Institute of Justice wrote "Although studies differ somewhat, most of the literature shows that between 1980 and 2000, each 10 percent increase in incarceration

¹¹ Ibid

¹² National Institute of Justice, "Five Things About Deterrence," https://nij.ojp.gov/topics/articles/five-things-about-deterrence#addenda

¹³ United States Commission on Civil Rights, "The Civil Rights Implications of 'Broken Windows' Policing in NYC and General NYPD Accountability to the Public, March 2018, https://www.usccr.gov/pubs/2018/03-22-NYSAC.pdf
¹⁴ Brownstone, Sydney, "A homeless man steals clothes from a Seattle Goodwill, goes to jail. His story isn't unusual," April 17, 2019, https://www.kuow.org/stories/a-homeless-man-steals-clothes-from-a-seattle-goodwill-goes-to-jail-his-story-isn-t-unusual

rates was associated with just a 2 to 4 percent lower crime rate...[and that since 2000], the increased use of incarceration accounted for nearly zero percent of the overall reduction in crime."¹⁵

As is the case with retribution, incapacitation does not concern itself with addressing the causes of crime and thus fails as a future-looking public safety strategy since there is no evidence-based function to prevent reoffending. While there is an undeniable logic that incapacitation limits individuals' ability to commit additional crimes throughout their period of incapacitation, reliance on this view as a justification for punishment ignores that 100 percent of people will be released from the City's misdemeanor system and that in many cases, research demonstrates that they will release in a worse condition than when they entered with a higher likelihood of recidivating. This is particularly true in regard to incapacitation through incarceration which destabilizes an incarcerated individual's beneficial connections through separation from prosocial support systems such as family, housing, and employment. A more in-depth discussion about incarceration's harm is contained in a latter section on the Risk-Needs-Responsivity model.

Additionally, incarceration often has a negative effect on the families and communities of those held in custody. Prior to their incarceration, the individual may have provided financial or non-financial support such as child or elder care. Losing this support can further destabilize the individual's family; and there is strong evidence that having an incarcerated parent is particularly harmful to children. Having an incarcerated parent has been linked to elevated levels of aggression, depression, and anxiety and "children's well-being can be affected through multiple pathways, including reduced economic resources, traumatic removal of the family member, and stigmatization." Research also shows that incarceration's harmful effects impact community members outside of the incarcerated individual's family. In a 2015 article published in the American Journal of Public Health, researchers found that after controlling for - neighborhood and individual-level factors, people living in areas with a high prison incarceration rate were found to have a higher likelihood of meeting diagnostic criteria for Major Depressive Disorder and Generalized Anxiety Disorder. The family is a support to the family of the famil

Rehabilitation, the final theory underlying punishment, is based on the notion that the government can, "apply treatment and training to the offender so that he is made capable of returning to society and functioning as a law-abiding member of the community." Unlike the

¹⁵ Steman, Don, "The Prison Paradox: More Incarceration Will Not Make Us Safer," *Vera Institute of Justice*, July 2017, https://www.vera.org/downloads/publications/for-the-record-prison-paradox 02.pdf

¹⁶ Gjelsvik, Annie et al. "Adverse childhood events: incarceration of household members and health-related quality of life in adulthood." *Journal of health care for the poor and underserved* vol. 25,3 (2014), https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4897769/

¹⁷ Hatzenbuehler, Mark L et al. "The Collateral Damage of Mass Incarceration: Risk of Psychiatric Morbidity Among Nonincarcerated Residents of High-Incarceration Neighborhoods." *American Journal of Public Health* vol. 105,1 (2015), https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4265900/

¹⁸ Clarke, Donald C. et al. "Punishment". *Encyclopedia Britannica*, 14 Mar. 2016, https://www.britannica.com/topic/punishment

other theories discussed above, rehabilitation does concern itself with attempting to help the person who violated the law. As it is practiced, however, rehabilitation is often used as a justification for incapacitation through incarceration or probation. For example, in RCW 9.94.049, the state legislature defined correctional institutions as facilities such as prisons and jails operated, "primarily for the purposes of punishment, correction, or rehabilitation following conviction of a criminal offense." Used in this context, rehabilitation creates analogous harm to that caused by incapacitation as it also removes an individual from prosocial support systems. Rehabilitation that relies on incapacitation is also counter to Community's Guiding Principles as community members have repeatedly voiced that, "the City must increase opportunities for diversion, decriminalization and alternatives to arrest to reduce the use of jail as well as surveillance through the probation system."

In their conclusion to the article, "Prisons Do Not Reduce Recidivism: The High Cost of Ignoring Science," the authors present a scenario that is relevant to this discussion concerning the City's current practices in the CLS:

Imagine a medical system in which very sick and mildly sick patients are hospitalized with virtually no idea of whether they will emerge cured, terminally ill, or unchanged. Theories abound, however. On one side, we have those arguing that hospitals make patients less ill than if left in the community. On the other side, we have those arguing that hospitals expose patients to disease risk factors...

Those institutionalizing sick patients claim that they have a "gut-level feeling" that hospitalization has curative effects. After all, they know a bunch of patients who reentered the community and did not get sick again. They do not need to consult any scientific studies to know that hospitals reduce repeated illness. If this situation were to occur, the public would call those in the medical profession quacks, file endless lawsuits for malpractice, and demand studies to prove which interventions were safe or unsafe. But if we were to substitute the word 'imprisonment' for 'hospitalization' in the previous paragraph, we would be roughly describing the current use of prisons and of correctional policy. ¹⁹

Although the authors were writing about the felony system, much of their observation holds true for the City's misdemeanor system. Contrary to the "gut-level" <u>assertions</u> that the City has a prolific offender problem because it is charging too few people, policy makers should instead look toward evidence-based models that address the causes of crime. The City may have inherited a legacy CLS, but research provides a roadmap to a more effective, less harmful alternative that is more in line with its values.

06.04.21

¹⁹ Cullen, Francis T., et al. "Prisons Do Not Reduce Recidivism: The High Cost of Ignoring Science." *The Prison Journal*, vol. 91, no. 3_suppl, Sept. 2011, pp. 48S-65S

If punishment does not work to reduce crime, then what does?

The Risk-Need-Responsivity (RNR) model is one of the most influential models for the assessment and treatment of individuals who have violated the law.²⁰ RNR was developed by Canadian psychologists/criminologists and has been extensively studied in Canada and the United States. The model is rooted in behavioral psychology and entities such as the United States' DOJ, the National Center for State Courts, and the Crime & Justice Center have highlighted RNR principles within their recommendations for implementing evidence-based practices to reduce recidivism.²¹

RNR is concerned with addressing the causes of crime through reduction of criminogenic (likely to cause criminal behavior) needs and is comprised of three main principles.

- Risk Principle The risk principle states that services and interventions should be matched to an individual's risk to reoffend and that intensive services should be reserved for individuals who are at the highest risk for recidivating.
- Need Principle The need principle states that interventions should focus on addressing criminogenic needs.
- Responsivity Principle The responsivity principle states that interventions should employ behavioral, social learning and cognitive behavioral influence and skill building strategies (General Responsivity). They should also be delivered in a way that is responsive to clients' learning styles (Specific Responsivity). This includes, "building on strengths; reducing personal and situational barriers to full participation in treatment; establishing high-quality relationships; delivering early and often on matters of personal interest; and starting where the person is at."²²

According to traditional RNR, there are eight core criminogenic needs/risks that increase an individual's propensity for further involvement in the CLS. Previous criminal history is the only static factor while the rest are dynamic. By targeting the dynamic factors, RNR not only reduces recidivism but also aligns with Community's Guiding Principles by addressing the root causes of why individuals are in jail and shifting resources to address those needs.

It is important to note at this point in the discussion that the King County Department of Public Defense (DPD) and anti-racist community activists have expressed concern over the use of risk assessments, particularly in regard to their use by judges during the bail stage to determine bail amounts or release conditions based on risk levels to reoffend and past failures to appear in court. Given that communities of color experience systemic racism and overpolicing leading to disproportionate involvement in the CLS, there is validity to these concerns as risk in the context of pretrial risk assessments is largely determined by an individual's criminal record and

²⁰ Andrews, D.A. & Bonta, James, "Risk-need-responsivity model for offender assessment and rehabilitation 2007-06," *Public Safety Canada*, https://www.publicsafety.gc.ca/cnt/rsrcs/pblctns/rsk-nd-rspnsvty/index-en.aspx

²¹ Warren, Roger K., "Evidence-Based Practice to Reduce Recidivism: Implications for State Judiciaries, *Crime and Justice Institute*, August 2007, https://info.nicic.gov/nicrp/system/files/023358.pdf

²² Andrews, D.A. & Bonta, J., *The Psychology of Criminal Conduct – 5th ed.*, Routledge, 2010

history of missing court dates. This can lead to individuals from Black, Indigenous, and People of Color (BIPOC) communities being overrepresented in pretrial incarceration.

While RNR and RNR-based risk assessments do incorporate criminal history as a static factor in evaluating risk/need levels, it is one of various factors that these assessments use. Moreover, unlike the pretrial risk assessments, RNR-based risk/needs assessments would not be used to determine who should be incarcerated but rather the level and types of services offered in lieu of prosecution. In their core principles of RNR, the authors make this point by highlighting that cognitive behavioral therapy (CBT) and human services are more effective than correctional sanctions in reducing recidivism and that "the typical legal and judicial principles of deterrence, restoration, just desert, and due process have little to do with the major risk/need factors... [I]t is through human, clinical, and social services that the major causes of crime may be addressed."²³ The authors also note that treatment is more effective in a community setting than in a carceral one. In terms of RNR's effectiveness in reducing future CLS involvement, "the available data indicate that if there is a response to just one of the individual's criminogenic needs, recidivism can be lowered. If there is a response to at least three, recidivism can be lowered substantially (up to 35 percent)."²⁴

Within the United States, implementation of the RNR model has been principally focused on the felony system where it is used to design rehabilitative programming for incarcerated individuals as well as those under probation supervision. The Center for Court Innovation (CCI), however, conducted research on New York's misdemeanor population and adapted it to the misdemeanor cohort. While there was overlap in assessed risks/needs between individuals involved in the felony system and individuals in the misdemeanor system, CCI found that there was some variation with the strongest predictors for misdemeanor crime being:

- History of gang involvement (antisocial associates)
- Endorsement of attitudes supporting violence/manipulation (Antisocial behavior/Personality pattern)
- Problems in familial/intimate relationships (poor relationship quality with little mutual caring or respect)
- Lack of high school degree/GED
- Current unemployment
- Substance use disorder
- Homelessness/housing insecurity (not traditionally a factor in the RNR model but CCI found that it should be included for the misdemeanor population)²⁵

²³ Ibid.

²⁴ Adults with Behavioral Health Needs Under Correctional Supervision: A Shared Framework for Reducing Recidivism and Promoting Recovery, The Council of State Government, 2012

²⁵ Rempel, Michael et al. "Understanding Risk and Needs in the Misdemeanor Population: A Case Study in New York City, *The Center for Court Innovation*, May 2018.

Neither the original RNR model nor CCI's misdemeanor adaptation found that mental illness is a criminogenic risk. However, both state that untreated mental illnesses can affect an individual's responsiveness to interventions targeting criminogenic needs and for that reason, it should be addressed as part of the specific responsivity principle.

Aside from providing guidance as to what interventions work to reduce CLS involvement, the RNR model also offers an indictment of the traditional CLS. Since criminogenic risk factors are dynamic, a person's risk of recidivism may be increased if their access to housing, employment, and prosocial relationships are negatively impacted through incarceration or other punitive measures. Indeed, a study carried out in Kentucky found that during pretrial detention, low and medium risk defendants held for two to three days were more likely to commit new crimes pretrial and post-adjudication. And if their incarceration went up to eight to 14 days, they were 51 percent more likely to commit crimes 2 years after disposition. Similarly, a study reviewing outcomes for misdemeanor pretrial detention in Harris County, TX found that incarceration is "associated with a 30 percent increase in new felony charges and a 20 percent increase in new misdemeanor charges, a finding consistent with other research suggesting that even short-term detention has criminogenic effects." ²⁷

The traditional CLS' destabilizing impacts have been noted by SPD's Executive Director of Strategic Initiatives, Dr. Christopher Fisher. In an <u>article</u> co-authored with Seattle University faculty, Fisher et al. wrote:

Despite the lower-level nature of misdemeanors, the negative impact on individuals arrested for misdemeanor crime is far-reaching and can end in punishment more taxing than criminal penalties leading to housing difficulties, lack of stability in employment, financial loss, and deportation. Individuals arrested, referred, and charged for misdemeanors are stigmatized, punished, and burdened in similar ways to those charged for felonies.²⁸

The destabilizing effects created by jail detention were also expressed through the personal experiences of the City's Reentry Workgroup members, with one individual stating that:

In three days, a person's life can be totally uprooted. If you are in jail three days, that's enough time for life to be broken. From loss of income, three days of not showing up to work is a lost job, with any job. It can cause issues with CPS if no one can pick up your kids. It can be the catalyst for homelessness. My god, even just three days. It can increase financial burdens from late fees, if bills or rent aren't paid on time. It can cause a loss of food. Just in three days. A life can be ruined.²⁹

²⁶ Lowenkamp C. et al., "The Hidden Costs of Pretrial Detention," Laura and John Arnold Foundation, November 2013.

²⁷ Heaton P. et al., "Downstream Consequences of Misdemeanor Pretrial Detention," Stanford Law Review, vol. 69, March 2017

²⁸ Helfgott, Jacqueline B et al, "Crisis-flagged Misdemeanors in Seattle: Arrests, Referrals, Charges, and Case Dispositions, *Criminology, Criminal Justice, Law & Society,* vol. 20, no. 2, 2019, pp. 59–85

 $^{^{\}rm 29}$ Seattle Office for Civil Rights, "Seattle Reentry Workgroup Final Report,"

https://www.seattle.gov/Documents/Departments/CivilRights/Reentry%20Workgroup%20Final%20Report.pdf

Implementing RNR through Public Health Principles

The RNR model provides a clearer understanding of the risk/need factors that can precipitate an individual's continued involvement with the CLS. By using public health principles that incorporate this information, the City can reduce the CLS' harm while envisioning an evidence-based public safety model. Public health approaches aim to provide the maximum benefit for the largest number of people and programs based on this approach are designed to expose a broad segment of a population to prevention measures by addressing the causes of the health problem.

In adapting the public health model to CLS realignment, the City can look to the World Health Organization's (WHO) recommended approach in its <u>Global Campaign for Violence Prevention</u>. This consists of four steps:

- 1. Defining the problem through the systematic collection of information about the magnitude, scope, characteristics, and consequences of violence.
- Establishing why violence occurs using research to determine the causes, the factors that increase or decrease the risk of violence, and the factors that could be modified through interventions.
- 3. Finding out what works to prevent violence by designing, implementing, and evaluating interventions.
- 4. Implementing effective and promising interventions in a wide range of settings. The effects of these interventions on risk factors and the target outcome should be monitored, and their impact and cost-effectiveness should be evaluated.

Given that RNR establishes the factors that can increase or decrease an individual's propensity to engage in criminal activity and provides guidance on addressing those factors through clinical and social service interventions, the next step is to evaluate where opportunities exist to begin implementing those interventions. The Sequential Intercept Model (SIM) (Figure 1) can help in this endeavor.

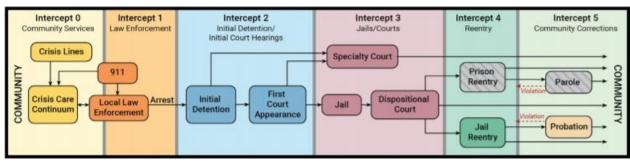


Figure 1: Sequential Intercept Model

Source: Policy Research Associates, Inc.

The SIM is a conceptual model based on public health principles that provides a visualization of how individuals come into contact with and move through the CLS' different stages. It was originally developed to provide a framework to use when considering the interface between the CLS and the mental health system.³⁰

By breaking the CLS down into six intercepts corresponding to key decision points where interventions could prevent individuals from entering or penetrating deeper into the CLS, the model is intended to help communities, "identify resources and gaps in services at each intercept and develop local strategic action plans," in order to further goals such as preventing initial CLS involvement, decreasing jail admissions, and engaging individuals in treatment for the purposes of minimizing the time spent moving through the CLS. Intercepts are intended to function as filters to prevent further penetration into the CLS and "ideally, interventions would be front-loaded to 'intercept' people early in the system." ³²

This report relies on Community's Guiding Principles, RNR principles and the SIM's framework to identify current CLS practices that produce unnecessary harm. In the following sections, it makes recommendations for alternative responses in Intercepts 1 and 2 that incorporate evidence-based practices and provides examples of successful reforms undertaken by other jurisdictions within the United States. It concludes with additional recommendations targeted toward Intercept 0 that if implemented, can reduce the initial probability that individuals will become entangled with the CLS. Given the centrality of Community's Guiding Principles in designing the realignment framework, each chapter opens with the Principles relevant to that intercept.

³⁰ Please see https://store.samhsa.gov/sites/default/files/d7/priv/pep19-sim-brochure.pdf for a more detailed introduction to the SIM and its intercepts.

³¹ The Sequential Intercept Model (SIM), Substance Abuse and Mental Health Services Administration (SAMHSA), https://www.samhsa.gov/criminal-juvenile-justice/sim-overview

³² Willison, Janeen B. et al, "Using the Sequential Intercept Model to Guide Local Reform: An Innovation Fund Case Study," *Urban Institute*, Oct. 2018, https://www.safetyandjusticechallenge.org/wp-content/uploads/2018/10/2018.10.11 Using-the-SIM finalized.pdf.

Chapter 2: Intercept One Alternatives

Community Guiding Principles responsive to Intercept One:

- SPD should improve its relationship with community through an increase in positive interactions.
- There should be alternatives to a formal law enforcement presence that community can rely on that decrease surveillance and emphasize de-escalation, mediation, and treatment.
- The City should compassionately and competently engage with vulnerable members of the community experiencing homelessness and mental illness.
- The City should increase opportunities for diversion, decriminalization, and alternatives to arrest to reduce the use of jail as well as surveillance through the probation system.

An individual's involvement with the CLS traditionally begins at Intercept One which includes 911 and local law enforcement responses. As the initial point of intersection with the formal system, this intercept also provides the first opportunity to create off-ramps to deeper CLS penetration as well as harm from unnecessary police interactions and jail detention. Given the disproportionate rates of arrest for Indigenous and Black community members, alternative actions at this intercept can also begin to address disproportionate downstream impacts to those communities.

Over the past decade, the City has made significant investments in this intercept such as with the Community Service Officer program and the City's partnership with King County to fund the DESC Mobile Crisis Team. During the 2020 summer budget rebalancing and the 2021 budget deliberations, the City made additional investments in Intercept One programs. For example, Council allocated \$50,000 to the Human Services Department (HSD) to contract with a community-based organization to develop recommendations on how to scale a non-police 911 response system similar to the Crisis Assistance Helping Out On The Streets (CAHOOTS) model in Eugene, OR and the Support Team Assisted Response (STAR) model in Denver, CO. It also expanded the Seattle Fire Department's (SFD) Health One program (originally proposed in the 2019 budget by then-Budget Chair Sally Bagshaw) from one to three units, appropriated \$1 million to the Human Services Department (HSD) to support the creation/expansion of neighborhood-based mobile crisis teams, and continued its investment in the Community Critical Incident Responders (CCIR) program operated by Community Passageways. Through the CCIR program, trained community-based teams monitor safety in high risk areas and respond to incidents of violence in partnership with local law enforcement.

As the City increases its investments in Intercept One programs and stands up a new <u>Seattle Emergency Communications Center</u> to answer and triage 911 calls, it should update its dispatch protocols to expand the use of alternative responses such as Health One. Currently, SPD's dispatch completes primary 911 screening and the majority of calls for wellness checks and

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³³ See appendix for a Central Staff memo with a comprehensive list of City-funded Intercept One programs

behavioral health (BH) crises are retained by SPD. While SPD has a <u>Crisis Response Team</u> (CRT) available to respond to BH calls, Health One provides a needed resource for wellness checks and BH calls that does not involve sworn officers as the combination of an armed police response and individuals in the throes of BH crisis can lead to deadly situations. Indeed, an article published in the American Journal of Preventative Medicine analyzed deaths in 17 states due to the use of lethal force by law enforcement and estimates that 25 percent to more than 50 percent of fatal encounters with law enforcement involve individuals with mental illness. Moreover, the same article noted the racial disproportionality in these fatal shootings as Black individuals were, "substantially over-represented relative to the U.S. population, comprising 34 percent of victims but only 13 percent of Americans, and with legal intervention death rates 2.8 times higher than those among whites." ³⁴

A February 2021 article in the South Seattle Emerald, titled "Who Can We Call?" provides a recent example of the need for alternative 911 responses to BH situations. The author wrote that she encountered an unknown man in her backyard who appeared to exhibit behavioral health issues:

I had my next meeting, but it was by phone so I sat distractedly trying to monitor the situation. I told my colleague what had just happened and that the man was still outside. I definitely didn't want to call the police, but I wondered who I could call.

My colleague's husband advised me to call 911 and coached me to ask for a mental health professional. He explained there was a program that got routed through 911 dispatch, but that I could request someone other than police. So I tried that, but the dispatch operator said that an officer would first have to come out to make an assessment before referring a social work intervention. "I don't want to do that," I said. "Can't you just skip that part and call the mental health professional?" The operator reiterated that it didn't work that way...

In contrast to Seattle, cities such as Eugene, OR dispatch 911 alternatives (CAHOOTS) to respond to wellness checks and non-violent situations with a BH component. According to data published by the White Bird Clinic which operates CAHOOTS, their teams comprised of a medic and a crisis worker with extensive training in BH responded to roughly 24,000 calls in 2019 and police backup was only requested 250 times.³⁵ By continuing to expand Health One-type alternatives and amending the dispatch protocol to route additional calls to them, the City could also see budget savings through the reduced use of police services. Per the City's contract with the Seattle Police Officers Guild (SPOG), this change would likely require bargaining as SPD owns that body of work.

³⁴ DeGue, Sarah et al, "Deaths Due to Use of Lethal Force by Law Enforcement: Findings from the National Violent Death Reporting System, 17 U.S. States, 2009–2012," *The American Journal of Preventative Medicine*, vol 51, no 5, November 2016.

³⁵ White Bird Clinic, "CAHOOTS Media Guide 2020," https://whitebirdclinic.org/cahoots/

Currently, Health One is directly dispatched to .03 percent of incoming calls and acts as secondary responders to an additional .06 percent of incoming calls.³⁶ In contrast, CAHOOTS teams answered 17 percent of the Eugene Police Department's overall call volume in 2017 and the White Bird Clinic reports that the program saved the City of Eugene an estimated \$8.5 million in public safety spending annually.³⁷

In addition to increasing alternatives to armed police responses, the City can address the harm from jail incarceration by reducing the use of arrests in cases where SPD does respond to incidents.

What is the law and current practice regarding arrests?

Under state law (RCW 10.30.100), repeat driving under the influence (DUI) offenses and certain domestic violence offenses require mandatory arrests. For other crimes, however, officers have discretion on whether to carry out the arrest. This is also reflected in the Seattle Municipal Code (12A.02.140), which states that SPD officers "may arrest without a warrant if the officer has probable cause to believe that the person committed a crime." The municipal code also provides officers an alternative to arrest as they are authorized to "serve the arrested person with a citation and notice to appear in municipal court in lieu of continued custody, as provided for by the Rules of Courts of Limited Jurisdiction."

Under those rules, which are promulgated by the Washington State Administrative Office of the Courts, an officer is asked to consider³⁸:

- Whether the individual has identified themselves satisfactorily;
- Whether detaining the individual is reasonably necessary to prevent imminent bodily harm to themselves or others, injury to property, or breach of the peace;
- Whether the person has sufficiently reasonable ties to the community to assure his or her appearance in court or if there is a substantial likelihood that they will refuse to appear; and
- Whether the individual has failed to appear in court on previous occasions when they have been issued a citation.

If the suspect meets eligibility requirements, they may also be referred to the Law Enforcement Assisted Diversion (LEAD) program which connects the individual with intensive case management and social services (LEAD will be discussed in greater detail in the following chapter).

According to the <u>SPD manual</u>, once an officer has established probable cause, informed the individual of the reason for their arrest, and advised them of their Miranda Rights, they will notify a sergeant and complete an arrest report. Sergeants will then screen the arrest prior to

³⁶ Health One dispatch data was compiled by the City Budget Office (CBO) and shared with Central Staff

³⁷ White Bird Clinic, "CAHOOTS Media Guide 2020," https://whitebirdclinic.org/cahoots/

³⁸ Criminal Rules for Courts of Limited Jurisdiction, "CrRLJ 3.2 - Release of Accused."

the individual being booked into jail or released.³⁹ As an alternative to arresting and booking when doing so is not legally mandated, the SPD Manual allows for Criminal Citations and the Charge-by-Officer (CBO) program.⁴⁰ The former is reserved for criminal traffic offenses⁴¹, while the latter may be used for most other misdemeanors with the exception of incidents involving juvenile suspects, prostitution-related offenses, sexual exploitation, thefts referred through the Retail Theft Program, or crimes which require follow up by a detective.⁴² If an officer chooses to use either of these options, the report submitted to the sergeant must articulate probable cause and contain sufficient information documenting the suspect's identity such as their name, date of birth, last known address, and physical description. Following approval, the suspect can be released, and the report is forwarded to the CAO for its review and charging decision. In cases where prosecutors decide to file charges, the SMC Court Clerk will issue a mail summons to the defendant's last known address informing them of their first court date.

The Reentry Workgroup's report notes that based on conversations with SPD, there are no written guidelines outlining the situations when non-legally mandated arrests should be carried out. In the absence of such guidelines, arrest decisions are "largely left up to each individual officer's discretion with some oversight, in that each arrest be approved by a supervisor." ⁴³ Indeed, neither the criminal citation nor CBO policies in the SPD manual offer guidance on when they should be used.

In 2016, Seattle University released its *Trends in Misdemeanor Arrests, Referrals, and Charges* report which compiled and analyzed data provided by SPD, CAO, and SMC. In line with SPD's arrest data, misdemeanor arrests are categorized into four different enforcement types:

- Arrested (SPD booking)
- Outside agency arrest (e.g. Department of Corrections)
- Summons (order to appear in court issued by SMC when suspect not in custody)
- Citations (issued for misdemeanor moving violations)

As is shown in Figure 2, under current practices, arrests leading to jail bookings accounted for about 50 to 55 percent of SPD enforcement between 2009 and 2016. For that same period, summons were used in about 18 to 26 percent of cases while citations were used in fewer than 10 percent of cases.

³⁹ SPD Manual 6.010 - Arrests

⁴⁰ Please see appendix for SPD's response to <u>SLI SPD-1-B-1</u> which requested a report of the Department's use of the Charge-by-Officer program.

⁴¹ SPD Manual 16.230 – Issuing Tickets and Traffic Contact Reports

⁴² SPD Manual 15.020 – Charge-By-Officer (CBO)

⁴³ Seattle Office for Civil Rights, "Seattle Reentry Workgroup Final Report," October 2018.

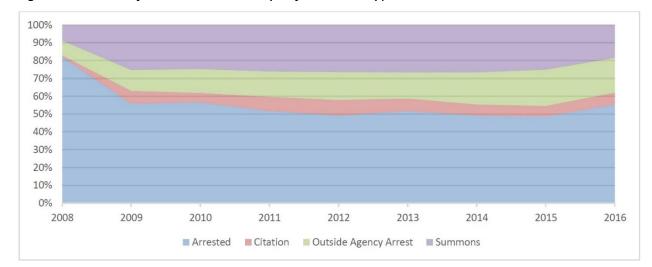


Figure 2: Percent of Total SPD Arrests by Enforcement Type⁴⁴

Expanding the Use of Alternatives to Arrest and Jail booking

CLS reform efforts on the local and national level have begun focusing on expanding alternatives to arrest as a way to reduce harm to individuals and communities. For example, in its Final Report, the Reentry Workgroup recommended that the City increase the use of citations or summons by SPD for nonviolent misdemeanors. The Workgroup stated that there are cases where, "arrests are required by state law and necessary to prevent future violence, [but] there are many times when arrests are not necessary or required but still occur." As a result, one of the Workgroup's recommendations was that SPD should develop guidelines to limit arrests for misdemeanor offenses.

At the national level, President Obama's Task Force on 21st Century Policing recommended that "law enforcement training policies should emphasize de-escalation and alternatives to arrest or summons in situations where appropriate," and the International Association of Chiefs of Police (IACP) released a <u>report</u> in 2016 which reviewed existing literature on the use of arrest alternatives. While recommending further study, it found that existing research supports the conclusions that citations and summons in lieu of arrest can⁴⁶:

- Reduce the burden that individuals face from involvement in the CLS as it bypasses, "many of the hardships associated with arrest and detention, including financial burdens, damage to reputation, and inability to work;
- Reduce jail overcrowding as those accused of non-violent misdemeanor offenses would not be put through the booking and pre-trial detention process;

⁴⁴ Helfgott J.B., Parkin W., Fisher C., & Kaur, S. Trends in Misdemeanor Arrests, Referrals, & Charges in Seattle – Final Report. Seattle University, October 2018.

⁴⁵ President's Task Force on 21st Century Policing, "Final Report of the President's Task Force on 21st Century Policing," 2015.

⁴⁶ The International Association of Chiefs of Police, "Citation in Lieu of Arrest: Examining Law Enforcement's Use of Citation Across the United States," April 2016.

- Enhance community-police relations since employing arrest alternatives stops the unnecessary removal of individuals from their families and communities; and
- Conserve law enforcement resources to focus on more serious crimes as the citationissuance process takes 24 minutes on average while an arrest takes 86 minutes.

Employing arrest alternatives can also be a method of reducing the harm that other stages of the CLS inflict on already disproportionately impacted communities. As the entry point into the system, disproportionality created by differences in arrest rates create consequences which percolate through the rest of the system. For example, as Figure 3 shows, there are massive disparities in the misdemeanor arrest rates for Indigenous and Black individuals as compared to Whites and Asians (due to SPD data collection practices at that time, data on Latinx arrest rates are not available). The first two groups have rates of about 10,000 arrests per 100,000 individuals.

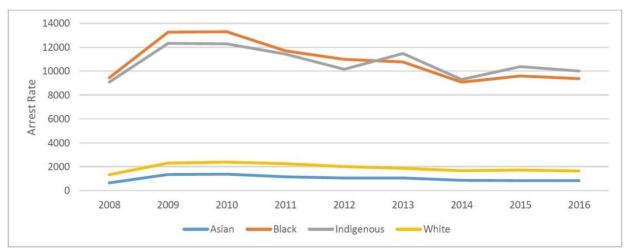


Figure 3: SPD Misdemeanor Arrest Rates by Race per 100,000 population, Ages 18-65⁴⁷

As the majority of these arrests lead to jail bookings, a greater share of the Indigenous and Black populations will be subject to pretrial detention before their initial court appearances.

What happens after an arrest?

Following arrest and booking into the King County jail on a misdemeanor crime, individuals meet with personal recognizance (PR) screeners from the SMC. Depending on criteria such as the level of the charge, previous criminal history, history of failing to appear at previous court hearings, and ties to the community, the person may be released on their own recognizance with a promise to appear in court. If they are denied release on PR, individuals who are not charged with a disqualifying offense, such as domestic violence assault, and who have the financial means to do so can post the bail amount set by a predetermined bail schedule. Bail for misdemeanor crimes is generally set at \$500, while gross misdemeanors are set at \$1,000.

⁴⁷ Helfgott J.B., Parkin W., Fisher C., & Kaur, S. Trends in Misdemeanor Arrests, Referrals, & Charges in Seattle – Final Report. Seattle University, October 2018.

According to aggregated data shared by SMC covering 2018 and 2019, 94 percent of individuals booked on misdemeanor charges are not released during the PR screening stage. Compounding the racial disproportionality at the point of arrest, Indigenous and Black individuals had a lower rate of release at this stage when compared with Asian/Pacific Islander and White individuals as they were either not eligible for PR based on the Court's criteria or were unable to post the default bail amount.

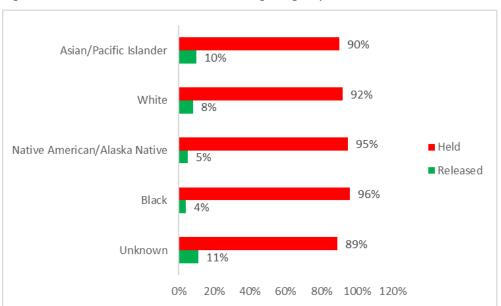


Figure 4: Release Actions at PR Screening Stage by Race⁴⁸

Charged individuals who cannot post the default bail are held in jail until their arraignment which under court rules must happen within 48 hours after booking for in-custody cases. During this initial appearance before an SMC judge, the court determines whether to release the individual with or without conditions such as day reporting or whether to raise/lower the bail amount.

How have other jurisdictions increased the use of citations or summons?

Should Council choose to take action to increase arrest alternatives, the City of New Orleans and New York State provide examples of how to do so through legislative action. In 2008, the New Orleans City Council enacted an <u>ordinance</u> limiting police discretion in arrests for non-domestic violence violations of the City's criminal code. Except for circumstances meeting specific criteria, such as if a suspect is acting violently, states their intent to harm themselves, harm other, or damage property, or in situations where an officer determines that an arrest, "is absolutely necessary," police are expected to issue summonses in lieu of conducting an arrest and booking the suspect into jail. When arrests are made, the law requires that officers provide

⁴⁸ Seattle Municipal Court Research, Planning and Evaluation Group, "Pre-Trial Releases at Seattle Municipal Court," March 25, 2021.

a written statement on the arrest affidavit detailing why the case met one of the ordinance's exceptions.

The Vera Institute of Justice partnered with the New Orleans City Council to study the effects of the summons ordinance. In an April 2010 presentation, Vera reported that pre-enactment, New Orleans police officers issued summonses in 24.4 percent of cases while using arrests 75 percent of the time. In October 2009, the use of summons had risen to 31.5 percent of cases while arrests were used 68.5 percent of the time.⁴⁹

Vera's presentation noted that police officers continued to arrest at high rates for public intoxication cases and attributed this to textual similarities between the summons ordinance and the section of the municipal code criminalizing public intoxication. As stated previously, the former permits arrest in situations where an individual threatens harm to themselves, others, or property. The latter criminalizes being intoxicated to the degree that the individual may endanger themselves, others, or property. Vera projected that this overlap was responsible for public intoxication offenses resulting in arrest 93 percent of the time. Given the high arrest rate for this specific crime, Vera's analysis also provided data on summons use when public intoxication offenses were excluded. With this adjustment, the use of summons increased to 41 percent of cases with arrest used in the other 59 percent.⁵⁰ A follow up report released in July 2011 showed a further increase with summonses used in 70 percent of cases.⁵¹

Figure 5: New Orleans Rate of Summons & Arrest Use Proceeding & Following Enactment of Summons Ordinance⁵²

	Summons Issued	Custodial Arrest
Pre-enactment 2008	24.4%	75%
October 2009	31.5%	68.5%
September 2010	49.8%	50.2%
October 2009 excluding public intoxication	41%	59%
September 2010 excluding public intoxication	58.6%	41.4%
June 2011 excluding public intoxication	70%	30%

The State of New York is another example of a jurisdiction that passed legislation to reduce the use of jail for misdemeanor law violations. New York State law allowed for the issuance of desk appearance tickets (DATs) in lieu of booking but the legislature mandated their use for most misdemeanor crimes excluding domestic violence and sexual exploitation offenses as part of the bail reform package it passed in April 2019.⁵³ When using DATs, police officers arrest the

⁴⁹ Vera Institute of Justice, "Use of Summonses and Custodial Arrests for Municipal Offenses," April 7, 2010. ⁵⁰ Ibid.

⁵¹ The PFM Group, "A 21st Century Criminal Justice System for the City of New Orleans," October 2012

⁵² Data compiled from Vera's April 7, 2010 report, Criminal Justice Leadership Alliance's September 2010 report, and PFM Group's October 2012 report.

⁵³ Rempel M. & Rodriguez K., "Bail Reform in New York: Legislative Provisions and Implications for New York City, Center for Court Innovation, April 2019.

suspect and transport them to the precinct. After verifying the suspect's identity, fingerprinting, screening for warrants and reviewing failure to appear for court (FTA) history, which may lead to disqualification, officers will contact the court for an arraignment date.⁵⁴ After the suspect receives and signs the DAT, they are released pending their court appearance. By law, the appearance date must be within 20 days of when the DAT is issued. This timeframe is in line with research conducted by the New York Criminal Justice Agency showing a correlation between higher FTA levels and the amount of time elapsed from when the DAT was issued.⁵⁵ New York's bail reform law did not go into effect until January 1, 2020 and comprehensive evaluations of its impacts are ongoing.

While the New Orleans example demonstrates that alternative to arrest ordinances can work to reduce jail detention, there are Seattle-specific issues that would require further study and consultation with community to avoid unintended consequences.

According to an <u>analysis</u> of filing times for out-of-custody cases conducted by former mayoral public safety advisor, Scott Lindsay, it takes CAO prosecutors an average of 187 days to file misdemeanor charges.⁵⁶ As referenced above, FTA levels can rise the longer that it takes for an individual to have their initial court appearance (see Figure 6).

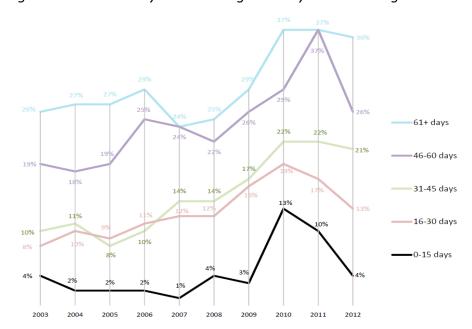


Figure 6: New York City FTA at arraignment by time to arraignment⁵⁷

⁵⁴ New York City Patrol Guide Procedure Number: 208-27 – Desk Appearance Ticket General Procedure.

⁵⁵ Phillips M., The Past, Present, and Possible Future of Desk Appearance Tickets in New York City: Final Report, New York City Criminal Justice Agency, March 2014.

⁵⁶ Lindsay, Scott, "System Failure Part 2: Declines, Delays, and Dismissals,"

⁵⁷ Phillips M., The Past, Present, and Possible Future of Desk Appearance Tickets in New York City: Final Report, New York City Criminal Justice Agency, March 2014.

Given current staffing levels and practices within the CAO's Criminal Division, it is likely that FTAs and SMC-issued warrants as a result of those FTAs will rise if a New Orleans or New York-type ordinance is passed before the City addresses CAO's timeline for filing charges. Rather than reduce jail incarceration, this would likely serve as a net widener as more people would have bench warrants leading to a higher probability of arrest.

In his <u>response</u> to Scott Lindsay's System Failure reports, City Attorney, Pete Holmes, addressed this delay, stating:

I have 31.5 prosecutors on my team to manage all legal processes associated with 14,000+ police referrals every year. We review every referral, and Theft is the most frequently charged offense by my office. I have envisioned for years an office where sworn, trained prosecutors have the capacity to review all police reports within 24 hours and make charging decisions within 48-72 hours--simply because justice delayed is justice denied. We still aren't there. Without more prosecutors and prosecution support staff, it will continue to take time to file those cases.

Increasing the number of CAO prosecutors would reduce the delay in filing charges but it would also increase the CLS' size. Given that community has asked that the City abstain from increasing spending on the CLS, the City could consider funding additional CAO staff through potential savings from a reduction in police services originating from implementation of the Intercept One interventions recommended in this Chapter. Council could also impose provisos on any additional funds to constrain how they are used. For example, it could specify that those appropriations can only be used for paralegal support staff or for prosecutors to solely work on reviewing SPD referrals and diversion.

Chapter 3: Intercept Two Alternatives

Community Guiding Principles responsive to Intercept Two:

- The City should reduce unequal and disparate treatment in the CLS.
- The City should compassionately and competently engage with vulnerable members of the community experiencing homelessness and mental illness.
- CLS reform should incorporate opportunities for restorative justice practices.
- The City should examine the root causes of why people are in jail and shift resources to address those needs.
- There should be alternatives to a formal law enforcement presence that community can rely on that decreases surveillance and emphasize de-escalation, mediation, and treatment.
- The City should increase opportunities for diversion, decriminalization, and alternatives to arrest to reduce the use of jail as well as surveillance through the probation system.

Following arrest or issuance of a citation or summons for a misdemeanor offense, SPD will refer the case to CAO for a decision on whether to file charges. Intercept Two begins at this stage and encompasses initial court hearings and processes. This intercept provides an opportunity for the City to further address the harm as well as racial and economic disparities created by pretrial detention through the bail process. It is also where the City can strengthen and expand prefile diversion options to ensure accountability for law violations while treating the causes of crime through application of the RNR model.

As with Intercept One, the City has made investments in Intercept Two programs over the few years. In 2017, Councilmember Lisa Herbold sponsored Statement of Legislative Intent (SLI) 303-1-A-2 which requested that CAO form a workgroup with SMC and OCR to produce a report exploring whether and how the City could reform its bail practices. The City also invests in various diversion options such as the CHOOSE 180 workshop for young adults as well as through its partnership with King County to fund the Familiar Faces Initiative programs. It is also starting a domestic violence diversion program in partnership with Gay City to serve the young adult population.

Bail and Pretrial Detention

As noted in the previous chapter, arrested individuals held in the King County jail who cannot post the default bail are held in jail until their arraignment. During this initial appearance before an SMC judge, the court reviews whether there is probable cause to believe that the accused has committed the crime charged and sets a bail amount and release conditions.

SMC's bail decisions are informed by the Criminal Rules for Courts of Limited Jurisdiction (CrRLJ) promulgated by the State's Administrative Office of the Courts. Under Rule 3.2, "Release of Accused," individuals charged with misdemeanor crimes have a presumption of release on personal recognizance unless the judge determines that a promise to return is not sufficient to

assure their reappearance or if the accused individual is likely to commit a violent crime or intimidate a witness. If the court finds that these risks exist, CrRLJ 3.2 states that judges must impose the least restrictive release conditions reasonably necessary to ensure compliance. This can include prohibiting the individual from contacting specific people or implementing geographical restrictions on the accused individual's movement.

When determining release conditions, Rule 3.2 also directs judges to consider the individual's "employment status and history, enrollment in an educational institution or training program, participation in a counseling or treatment program, performance of volunteer work in the community, participation in school or cultural activities or receipt of financial assistance from the government; the accused's family ties and relationships; the accused's reputation, character and mental condition; [and] the length of the accused's residence in the community." As with the data presented on PR in the previous chapter, release and bail conditions during arraignment also have a disproportionally negative impact on the Black and Indigenous communities. According to SMC data for 2018 and 2019 (Figure 7), a smaller percentage of Black and Indigenous community members were released on PR or with conditions such as electronic home monitoring (EHM) during the arraignment stage and a greater percentage had bail set.⁵⁸

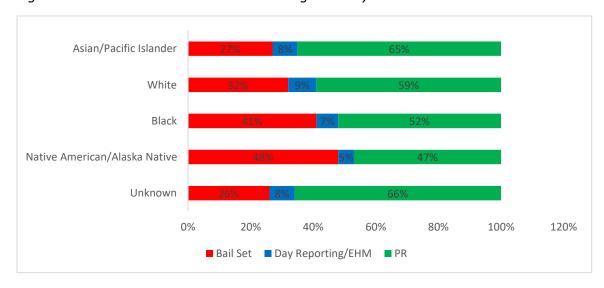


Figure 7: Bail and Release Decisions at Arraignment by Race

Negative Effects of Pretrial Detention

There is increasing recognition that the cash bail system creates a two-tiered justice system where individuals with financial means will be able to secure their release while economically disadvantaged people accused of the same or lesser crimes will remain in jail. Given that indigent defendants comprise 90 percent of the booked population and that there is a well-documented economic disparity between the different communities in Seattle (see Figure 8), a

⁵⁸ Seattle Municipal Court Research, Planning and Evaluation Group, "Pre-Trial Releases at Seattle Municipal Court," March 25, 2021.

bail system that is at least partially based on ability to pay will necessarily have disproportionate racial impacts.

Figure 8: Seattle Population and Wealth Demographics⁵⁹

Data Measure	Seattle
Median Household Income	\$85,654
White	\$96,333
Black or African American	\$39,936
Asian	\$77,470
Hispanic or Latinx	\$64,240
American Indian or Alaska Native	\$31,519
Income Poverty Rate	11.0%
White	7.6%
Black or African American	27.2%
Asian	17.3%
Hispanic or Latinx	15.1%
American Indian or Alaska Native	32.3%

Indeed, former SMC and current KING COUNTY Superior Court Judge Theresa Doyle, addressed the wealth and racial implications of bail in a 2016 King County Bar Bulletin:

Poor defendants who may pose little or no risk of violence or not appearing in court can languish in jail awaiting trial. Wealthy defendants at high risk for violence or flight can remain free by posting cash or property. Taxpayers pay the high costs of detaining people unnecessarily. Society bears the non-economic costs of lost employment, housing, family support, public benefits, and financial and emotional security for the children of the incarcerated person.

Racial disparities are worsened under a money bail system. Studies show that judges, like most others in our society, suffer from implicit racial bias, and that the race of the accused affects release and bail decisions...The money bail system contradicts the presumption of innocence, discriminates on wealth, fails to ensure public safety, jails people unnecessarily, imposes high social costs, and drives up jail costs.⁶⁰

Judge Doyle's observation regarding bail's detrimental effects on under resourced communities has also been voiced by leaders from those impacted communities. In the Community Report for the Bail Reform Workgroup, individuals from the City's East African community stated that bail practices are "crippling our community. People who can't afford to pay, that's huge for the family emotionally."⁶¹

⁵⁹ "Racial Wealth Divide in Seattle," Prosperity Now, March 2021, https://prosperitynow.org/sites/default/files/Racial%20Wealth%20Divide %20Profile Seattle FINAL 3.2.21.pdf

⁶⁰ Doyle, T., "Fixing the Money Bail System," King County Bar Association Bulletin, April 2016

⁶¹ Alcantara-Thompson, D., "Report for Bail Reform Workgroup," 2019.

Compounding the disproportionate individual and societal costs of the current bail system, research also shows that pretrial detention can contribute to negative trial adjudication outcomes through a higher likelihood of convictions primarily through increases in guilty pleas. As the Stanford University Law Review article evaluating misdemeanor pretrial detention in Harris County, TX (referenced in Chapter One) states:

For misdemeanor defendants who are detained pretrial, the worst punishment may come before conviction. Conviction generally means getting out of jail; people detained on misdemeanor charges are routinely offered sentences for "time served" or probation in exchange for tendering a guilty plea. And their incentives to take the deal are overwhelming. For defendants with a job or apartment on the line, the chance to get out of jail may be impossible to pass up. Misdemeanor pretrial detention therefore seems especially likely to induce guilty pleas, including wrongful ones.⁶²

The increase in conviction rates for those held pretrial is stark. For example, the Harris County study found that those detained in jail during the pretrial stage were 25 percent more likely to be convicted primarily due to their pleading guilty as opposed to individuals with comparable charges who were released. Similar studies evaluating outcomes for detained misdemeanor and felony defendants in New York City and Philadelphia also found higher conviction rates through guilty pleas for detained individuals at 14 percent and 13 percent respectively when compared to those who were released. Moreover, the Harris County and Philadelphia studies also found that pretrial detention was correlated with an increase in post-conviction incarceration rates and sentence length when individuals were sentenced to jail or prison sentences. Individuals in Harris County were 43 percent more likely to be sentenced to a jail term and those in Philadelphia faced a 42 percent increase in their sentences. The increase in sentence length was also found for similarly situated individuals in New York City who faced increased jail sentences by 40 percentage points in misdemeanor cases.

While Central Staff was not able to find Seattle-specific studies evaluating the prevalence of increased conviction or sentencing rates for pretrial detained individuals, Judge Doyle's article did address the sentencing problem and its potential causes, "Judges have discussed concerns about the unconscious influence that a defendant's custody status has on their sentencing decisions. With an out-of-custody defendant, the judge has to make an affirmative decision to send the person to prison or jail rather than imposing an alternative. An in-custody defendant is already there."

⁶² Heaton P. et al., "Downstream Consequences of Misdemeanor Pretrial Detention," *Stanford Law Review*, vol. 69, March 2017

⁶³ Ibid.

⁶⁴ Leslie, E. et al., "The Unintended Impact of Pretrial Detention on Case Outcomes: Evidence from New York City Arraignments," *Journal of Law and Economics*, vol. 60, August 2017

⁶⁵ Independent Commission on New York City Criminal Justice and Incarceration Reform, "A More Just New York City," July 2018.

⁶⁶ Doyle, T., "Fixing the Money Bail System," King County Bar Association Bulletin, April 2016

Recommendations on Addressing Bail

Under the state constitution, Washington State is a right to bail state. Article I, section 20 states that criminal defendants "shall be bailable by sufficient sureties." The only exception to this is if the defendant is charged with a capital crime where the punishment is a possible life sentence. In that type of felony case, a judge can deny bail and the charged individual could be held in preventive detention until the conclusion of their trial. As bail is codified in the state constitution, the City is limited in its options for reform since eliminating the practice would require action by the state legislature and a vote by the state electorate. Additionally, eliminating the right to bail outright could have the adverse consequence of expanding preventive detention for lower-level crimes.

In its <u>response</u> to SLI 303-1-A-2, the Bail Reform Workgroup analyzed various alternatives that City institutions could take to reduce or eliminate the use of cash bail and reported on outcomes such as expected racial equity impacts and evaluations of other jurisdictions' results. The strategies analyzed by the workgroup included:

- Pretrial risk assessments;
- Electronic home monitoring (e.g. ankle monitor)
- Day Reporting (daily/weekly check-ins with a probation counselor. SMC phased out its day reporting program in 2020);
- Unsecured Appearance Bonds (a bail amount is set but is only collected for FTA);
- Text messaging reminders (SMC began offering opt-in text reminders in 2020); and
- Pretrial release to a community-based group

Out of these options, the workgroup's analysis found that the last three were the least likely to contribute to racial disproportionality while showing effectiveness. Central Staff's analysis concurs with the Bail Reform Workgroup's findings and recommends that Council consider including appropriations during upcoming budget deliberations to fund community-based pretrial release programs since pursuing unsecured appearance bonds is under the CAO's purview and would not require legislative action. Additionally, funding community-based pretrial release programs works within the context of CrRLJ 3.2, which allows judges to release accused individuals to the custody of a person or organization and it is in line with Community's ask in the Guiding Principles that the City, "partner with community and community-based organizations to ensure accountability and cultural competence."

Another option for Council's consideration, which was not evaluated by the Bail Reform Workgroup, is to allocate funding for a community-operated bail fund. These are non-profit organizations which post bail for individuals who cannot afford to do so on their own. Faced with similar limitations to Seattle's in its ability affect state bail laws, King County appropriated \$400,000 in its 2019-2020 biennial budget to contract with a community bail fund (the contracting process is ongoing) and New York City created its own bail fund. New York's Liberty Fund provides individuals with case management and voluntary social service, housing, and job

training referrals as well as court reminders and emergency needs such as subway cards and food vouchers similar to what would be provided by community-based pretrial release.

Diversion and Addressing Criminogenic Needs

Diversion programs provide an alternative to traditional prosecution and case processing through the CLS. By diverting individuals at the system's front end, diversion programs can reduce or prevent unnecessary harm and collateral consequences from criminal prosecution while providing accountability and addressing criminogenic needs. Diversion programs also conserve City resources as the costs associated with criminal trials (prosecution and defense attorneys, court personnel, jail detention) are largely bypassed.

Front-end diversion relies on law enforcement and prosecutorial discretion and generally occurs at the pre-booking and pre-filing stages. In pre-booking diversion, law enforcement refers individuals to a program as an alternative to arrest or jail booking. In diversion at the prosecutor level, individuals who fulfill a diversion program's requirements can bypass having charges filed against them (pre-filing) or can have charges dropped if they have already been filed (post-filing or pre-trial). Individuals can also be diverted post-filing through their participation in court programs such as with SMC's Community Court, Veterans Treatment Court, Mental Health Court, Pre-Trial Diversion Program or its Domestic Violence Intervention Project (DVIP). While diversion at the pre and post-filing stages both avoid traditional prosecution, pre-filing diversion has additional benefits over post-filing diversion since it is an earlier intervention. Criminal charges, even if they have been dropped due to participation in diversion, can still negatively impact individuals' employment and housing since they can show up on criminal record searches. Pre-filing diversion can also conserve City resources since it would bypass staffing and administrative costs associated with Court processes. It is important to also highlight that when possible, front loading diversion at the pre-booking stage has greater benefits as compared to both pre-filing and post-filing since it is a more upstream intervention.

Expanding opportunities for diversion is one of the recurring recommendations expressed by communities disproportionately impacted by the CLS through the City's previous engagement efforts and in community-produced documents. For example, in its Final Report, the Seattle Reentry Workgroup (established by Resolution 31637) recommended expanding the use of prefiling diversion for individuals over the age of 25. This was echoed by the Budget for Justice Coalition in the divestment strategy it presented to Council and one of the Guiding Principles is that the City should incorporate restorative justice practices and focus on addressing the reasons why individuals become/stay involved in the CLS instead of relying on punitive measures such as jail and probation surveillance.

This chapter describes diversion programs that are currently utilized in Seattle and identifies where there are gaps in the existing diversion programming based on the RNR model. The key takeaways found in this chapter are that diversion programs targeting high utilizers of the CLS have limited space available for new clients and there is a scarcity of available community-

based treatment resources for existing clients. There is also a shortage of available diversion options for individuals posing a low risk to reoffend. A description of the City's current frontend diversion programs and an analysis of gaps based on the RNR model follows.

Current Practice

The City's available front-end diversion programs are:

- Law Enforcement Assisted Diversion/Let Everyone Advance with Dignity (LEAD)
- Vital
- Program for Assertive Community Treatment (PACT)
- Legal Intervention and Network of Care (LINC)
- CHOOSE 180
- Young Adult Family Domestic Violence Pre-Filing Diversion (Gay City)
- LELO/Driving with a suspended license (DWLS) diversion and relicensing

LEAD

LEAD was established as part of resolving litigation challenges to systemic racial disparity in Seattle drug arrests from 2001-2008, when Black people accounted for 63 percent of all those arrested in purposeful drug enforcement operations. At the time, thousands were arrested annually in Seattle on drug felonies, and it was common for someone convicted of delivering even .2 grams of narcotics to face a prison sentence of 5-10 years. Of all mid-sized US cities, Seattle had the second greatest racial disparity in drug arrests. EAD was meant to reduce reliance on the CLS to respond to issues related to drug activity, and to direct resources to those who had historically faced the brunt of over-criminalization.

Originally, LEAD was a strictly Intercept One intervention as it required a police referral in lieu of arrest. It later expanded into a hybrid model that allowed for social contact referrals. SPD officers could make these referrals based on known criminal activity relating to drugs without the individual being in custody. The program, as adapted in 2020, is now also an Intercept Zero program as it takes direct community referrals of individuals who chronically commit public order offenses, without the requirement of police referral. This avoids police involvement and can prevent calls to the 911 emergency response system altogether in many cases. LEAD provides long-term, harm reduction-based care for people with complex behavioral health needs.

Individuals referred to LEAD receive an assessment to determine the factors that led them to engage in criminal behavior. The factors evaluated include⁶⁸:

Prior CLS involvement;

⁶⁷ Beckett, K, "Race and Drug Law Enforcement in Seattle: Report for the American Civil Liberties Union and The Defender Association," September 2008.

⁶⁸ Public Defender Association, "LEAD Referral and Diversion Protocol," November 2018.

- History of gang involvement;
- Chemical dependency;
- Mental health issues;
- Lack of housing;
- Unemployment; and
- Lack of education

After enrollment, individuals receive assistance through a range of long-term wrap-around services such as transitional and permanent housing as well as drug treatment. In line with its harm reduction approach, sobriety is not a requirement for LEAD participation and new criminal activity does necessarily disqualify an individual from the program. Once an individual is enrolled, there is no expiration date for them to access LEAD services.

Vital

The King County Vital program provides comprehensive support and case management for individuals with behavioral health and substance use disorder who are frequently involved in the CLS. Most Vital participants are experiencing homelessness and require an intensive level of community-based support.

For an individual to meet Vital eligibility criteria, they must have (1) been booked into King County jails at least four times over two of the last three years; and (2) have a behavioral health and/or substance use disorder. While individuals can be referred to Vital at the front end of the CLS, referrals can also occur at different stages such as upon release from jail. As such, it is not strictly a prefiling diversion program.

Vital employs a harm reduction model and works with clients to define and support their self-identified goals. As with the LEAD program, there are no set timelines to transition clients out of Vital, sobriety is not required, and new criminal activity does not automatically result in termination. Vital services are provided by an Intensive Case Management Team (ICMT). Through the ICMT, the Vital program provides mental health and substance use disorder treatment that is integrated with primary health care and life skills development. The program includes a housing component and the ICMT works with the Seattle Housing Authority and Plymouth Housing Group to find permanent supportive housing (PSH) for Vital participants. The Vital program is at capacity and serves 60 individuals throughout the county.⁶⁹

PACT

PACT is a King County program that serves individuals with severe and persistent mental illness such as schizophrenia and other psychotic disorders. It is targeted toward individuals that due to their mental illness, have difficulty performing daily life activities and many PACT clients have had multiple encounters with crisis response systems such as mental health hospitalizations

⁶⁹ High-Barrier Individuals Working Group, "Progress Report," September 2019.

and the CLS. Over the past two years, 60 percent of new PACT clients had a recent competency order.⁷⁰

Through coordinated community-based treatment by a team of behavioral health specialists, PACT works with clients to help them understand how to reduce and manage their symptoms. It also aids with meeting basic needs like housing, employment, and transition toward independent living. PACT teams feature small caseloads of about 10 clients and services are provided without a fixed end date. The program has space for 270 clients, is at capacity, and has over 40 individuals on its waiting list.

LINC

LINC is a six to 12-month diversion program run by King County for individuals who have been accused of committing low-level felonies or misdemeanors and are likely to have legal competency raised. The program is intended to reduce referred individuals' further contact with the CLS and eliminate the need for competency evaluation or restoration services.

Under Washington State law, (<u>RCW 10.77.010</u>), criminal court proceedings cannot continue when a defendant lacks the capacity to understand the nature of the proceedings against them or is incapable of assisting in their own defense as a result of mental disease or defect. Competency is determined by the Court following a clinical evaluation. If an individual is found incompetent, the Court can order competency restoration or may dismiss the charges. Competency proceedings are comparatively rare in the City's misdemeanor system as legal competency is only raised for about eight percent of the near 7,400 individuals with cases before the SMC. Of those that complete the evaluation process, approximately 52 percent are found incompetent.⁷¹

The CAO determines eligibility based on charges (non-violent property crimes), recent or repeated competency concerns, and whether the individual has disqualifying convictions. If an individual has unmet behavioral health needs and appears eligible for LINC, their name is forwarded to the Community House Mental Health Agency (CHMHA) Competency Boundary Spanner for further screening. Individuals diverted to LINC receive intensive case management, peer support services, on-demand psychiatry and medication management and legal coordination to meet existing court obligations. The program has availability for 90 clients, but King County Behavioral Health and Recovery Division staff report that the program is serving 90+ individuals.

Young Adult Mainstream Pre-Filing Diversion - CHOOSE 180 and CAO

CHOOSE 180 in a direct partnership with the CAO is the City's mainstream pre-filing diversion program for young adults between the ages of 18 to 24 who are accused of committing misdemeanor crimes such as theft, assault, property destruction, criminal trespass, obstructing

⁷⁰ Ibid.

⁷¹ High-Barrier Individuals Working Group, "Initial Data Work on Competency and the Involuntary Treatment Act (ITA)," November 2019

an officer, and minor in possession (alcohol).⁷² The CAO determines eligibility and diverted individuals attend a half-day workshop led by CHOOSE 180 credible messengers with lived experience in the CLS.

During the session, individuals engage in small group discussions to identify the behaviors that led to their current situation and think about ways that they can avoid future problem behaviors. Participants are also offered support and referrals to resources such as substance use disorder/mental health treatment, employment and job readiness assistance, and discounted public transportation benefits. A CHOOSE 180 Pivot Point Specialist is funded to work with participants on a voluntary basis after the Workshop and some of those supportive relationships have lasted upwards of a year. SMC's Community Resource Center is also a partner and helps connects young adults post-workshop to resources. CHOOSE 180 is offered to individuals as a one-time diversion opportunity and future criminal charges would be pursued through traditional means. A goal of the program from the Racial Equity Toolkit is to "Eliminate racial disparities in percentage of cases filed against young adults (18-24)." In 2019, 64 percent of participants in the CHOOSE 180 diversion program identified as persons of color while only 27 percent identified as White (nine percent were unknown or did not wish to identify). Greater diversity in diversion should result in less disproportionality in the traditional system.

<u>DWLS 3 Pre-Filing Diversion/Relicensing — LELO, CAO, and FAS</u>

The DWLS diversion program is a partnership between Legacy of Equality, Leadership, and Organizing (LELO), a community-based organization, the CAO and Seattle's Finance and Administrative Services Division. The program targets individuals found to be driving with a suspended license due largely to economic circumstances, primarily an inability to pay traffic violations. The program began as a diversion program where the CAO screened for eligibility and participants had to complete an assessment and recovery plan that detailed the steps needed to be taken for them to regain their license. While re-licensing was the program's ultimate goal, participants did not have to be re-licensed to have their charges diverted. Even with LELOs assistance some participants remain unable to become relicensed due to financial constraints. LELO also helps participants with referrals to support services and the Community Resource Center also helps connect participants. In the CAO's continued commitment to address the inequities of DWLS 3, the CAO further expanded its use of prosecutorial discretion. Now rather than diverting the DWLS 3 charges with the threat of prosecution, the individuals have their charges declined and are referred to LELO for support.

Young Adult Family Domestic Violence Pre-Filing Diversion—Gay City and CAO

Gay City in a direct partnership with CAO is piloting a diversion program for young adults between the ages of 18 and 24 who are accused of committing a domestic violence

⁷² Seattle City Attorney's Office, "Community Report: Mainstream Pre-Filing Diversion Program – 2019."

⁷³ Seattle City Attorney's Office, "Report on Racial Equity Analysis: Seattle Pre-Filing Diversion Program, Young Adult Mainstream Misdemeanors," April 25, 2018.

⁷⁴ Seattle City Attorney's Office, "Community Report: Mainstream Pre-Filing Diversion Program – 2019."

misdemeanor against a non-intimate partner family member. The program is designed around the 5 Social Determinants of Health: Economic Stability, Education, Health/Health care, Neighborhood/Built Environment, and Social/Community Context. By addressing each determinant of health, individuals can more thoroughly remove oppressive barriers and increase equitable access to peoples' self-determination, liberation and joy. Participants will engage in a 5-week cohort model workshop series (Access to Change) where they will identify and set goals that build self-determination and self-accountability, establish actions plans for those goals, and determine the resources necessary to accomplish those action plans. Access to Change is facilitated with a trauma-informed and anti-violence analysis and the team is made up entirely of Black T/GNC staff and youth co-leads. The team will also engage with the harmed family member and seek to connect them to resources.

Existing Gaps and Limitations

In a joint publication addressing behavioral health needs for CLS-involved individuals, the Council on State Governments, the National Institute of Corrections, and the DOJ's Bureau of Justice Assistance provided the following framework to analyze resource allocation and categorize individuals based on criminogenic risk, substance abuse, and mental illness (Figure 9).

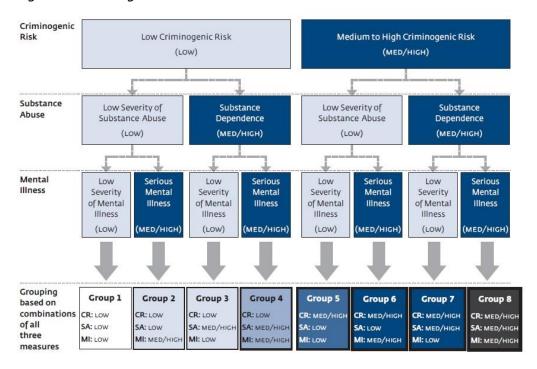


Figure 9: Criminogenic Risk and Behavioral Health Needs Framework⁷⁵

In line with the RNR model's risk principle, individuals categorized into groups five through eight (representing those with the highest criminogenic risk) should be targeted for intensive

⁷⁵ Adults with Behavioral Health Needs Under Correctional Supervision: A Shared Framework for Reducing Recidivism and Promoting Recovery, The Council of State Government, 2012

services. As LEAD, Vital, PACT, and LINC provide intensive case management through community-based services for individuals with behavioral health needs who have had repeated involvement in the CLS, the City's existing programming appropriately targets the right population. Additionally, many of the services provided by these programs are centered on treating substance use and mental health disorders, assisting in education and employment skills, and providing connections to transitional and PSH. This focus addresses several misdemeanor criminogenic risk/need factors with appropriate interventions.

While Vital, LINC, and PACT have not been independently evaluated, a University of Washington (UW) study of the LEAD program's effects on housing, employment and income found that during the 18-month evaluation period, LEAD participants were over twice as likely to obtain shelter in any given month following program enrollment and were 46 percent more likely to be on the employment continuum. The RNR model predicts that effective treatment of these risk/needs reduces repeat CLS involvement and the UW study found that LEAD participants had "60 percent lower odds of having at least one arrest subsequent to program entry," as compared to the Non-LEAD control group. Similarly, data released by the Vital program shows that, "over 78 percent of participants had fewer annual bookings in King County jail while enrolled in Vital than during the three years prior," and that, "the average number of annual bookings decreased over 35 percent."

As off-ramps to CLS involvement, the major limitation in these diversion programs is capacity in terms of space for new clients and scarcity of available community-based treatment resources. As referenced above, the LEAD program has exceeded its capacity with case managers serving an additional 19 clients over the maximum viable caseload. Similarly, the Vital program's 60 client spots are full. LINC and PACT serve a more specific subset of individuals but are also at capacity. This may be a contributing factor in the relatively small number of "high-barrier individuals" (the 500 most frequently identified suspects by SPD) enrolled in the existing intensive case management diversion programs. According to the September 2019 High-Barrier Individuals Working Group "Progress Report," only "seventy-three individuals, or 16 percent of the 465 identified high-barrier individuals, were identified as currently enrolled in one of the four programs presented as associated most directly with Familiar Faces (LEAD, LINC, PACT, or Vital)."⁷⁹ Over the past few budget cycles, expanding LEAD has been one of Council's priorities and during the 2021 budget deliberations, it adopted SLI HSD-006-A-001 (sponsored by CM Lisa Herbold) requesting that the Human Services Department (HSD) provide a report evaluating the public funding necessary to expand LEAD to a level where it can accept all priority qualifying referrals citywide.

⁷⁶ Clifasefi S., Collins S., & Lonczak H., Seattle's Law Enforcement Assisted Diversion (LEAD) Program: Within-Subjects Changes on Housing, Employment, and Income/Benefits Outcomes and Associations with Recidivism, Crime & Delinquency Journal, 2017.

⁷⁷ Clifasefi S., Collins S., & Lonczak H., Seattle's Law Enforcement Assisted Diversion (LEAD): Program Effects on Recidivism Outcomes, Evaluation and Program Planning Journal, 2017.

⁷⁸ High-Barrier Individuals Working Group, "Progress Report," September 2019.

⁷⁹ Ibid.

The scarcity of community-based treatment resources available to diversion programs was documented in a 2016 report commissioned by the State's Office of Financial Management (OFM) on diversion programs for individuals with mental illness. The report, which surveyed diversion opportunities such as LEAD, Vital, and PACT-type programs, found an urgent need for increased capacity for services such as outpatient and residential mental health treatment, chemical dependency treatment, and supportive service-rich housing.⁸⁰ Indeed, the City's Roots of the Homelessness Crisis website notes that the Seattle region's shortage of chemical dependency treatment availability leaves over 150 people on treatment waitlists every day. In terms of housing scarcity, King County's Behavioral Health and Recovery Division, which administers LINC, reports that for its 90+ clients, LINC has 10 respite beds and "a very small amount of housing" available through the Trueblood Settlement Transitional Supportive Housing program. As these beds "are generally full," the program must work to leverage external homeless and low-income housing resources. Similarly, LEAD reported in documents it submitted to Council and the Mayor's Office that it, "has no set-aside housing units or channel, and LEAD clients generally do not score high enough on the vulnerability prioritization index for Coordinated Entry to be eligible for permanent housing via CEA (King County's housing portal)."81

As homelessness and housing instability has been assessed as a major risk/need factor in the misdemeanor population, the City should look toward increasing its investments in PSH as a public safety measure as there is strong evidence that this type of housing, in particular, can decrease CLS involvement among the highest jail/emergency services utilizers. For example, building on previous research, a 2013 report by King County's Department of Community and Human Services evaluated the acute care and jail utilization impacts of King County-sponsored PSH programs. It found that eight of the nine programs reduced jail utilization for enrolled individuals with reductions in bookings ranging from 27 percent to 56 percent and reductions in jail days from 23 percent to 63 percent. This reduction in jail utilization as well as a corresponding reduction in the use of emergency health services resulted in significant cost savings:

Taking the cost estimates together, the data suggest that people involved in PSH programs would likely save, on average, approximately \$1,474 to \$33,125 per person on acute care and jail utilization during their first year in a PSH program. Cost savings would be predicted to be maximized for specific aspects of service utilization for programs that specialize in reducing such use.

Participants of PSH programs would also save costs associated with police and courts (associated with reduced jail stays) and shelter costs that are not accounted for in this report. Participants may also reduce utilization of state

⁸⁰ Jail Diversion for People with Mental Illness in Washington State: A Study Conducted for the State of Washington Office of Financial Management, Joplin Consulting, November 2016.

⁸¹ Public Defender Association, "LEAD Data Request for Mayor's Office," October 2019.

⁸² King County Department of Community and Human Services, "Impact of Supported Housing on Acute Care and Jail Utilization," June 2013

hospitals and prisons, which are not reported in this summary but discussed in some program-specific summaries.

Cost reductions based on reduced acute care and jail use can be viewed in the context of PSH costs. PSH operating costs in King County are \$10,000-\$15,000 per year and as such, the costs reduced from decreased acute care and jail utilization would likely offset program costs in addition to providing participants with a better quality of life.⁸³

Another gap in the City's existing diversion options is the lack of diversion programming for lower risk individuals. In the notes explaining the Criminogenic Risks and Behavioral Health Needs Framework, the authors note that, "missed opportunities for diversion from the criminal justice system are most likely to happen along the left (lower risk) of the flow chart." ⁸⁴ This observation holds true for Seattle as the City has three options for individuals who may fall within the lower risk categories represented in groups one through four – the Young Adult Mainstream Diversion--CHOOSE 180, DWLS/Relicensing program—LELO, and Young Adult Family Domestic Violence Diversion-Gay City.

As stated previously, CHOOSE 180 and Gay City serve young adults up to age 24. According to CAO Criminal Division staff, this limited age range was chosen due to recent science on brain development showing that young adults' brains do not fully mature until around age 25. Around 80 percent of the charges filed by CAO, however, involve individuals over the age of 25 (Figure 10).

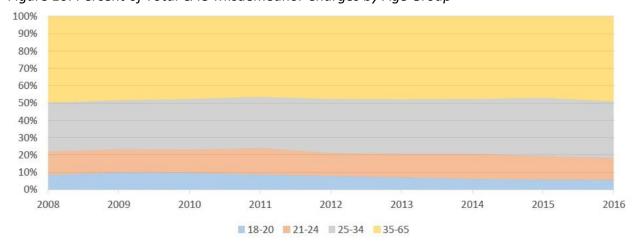


Figure 10: Percent of Total CAO Misdemeanor Charges by Age Group⁸⁵

⁸³ Ibid.

⁸⁴ Adults with Behavioral Health Needs Under Correctional Supervision: A Shared Framework for Reducing Recidivism and Promoting Recovery, The Council of State Government, 2012

⁸⁵ Helfgott J.B., Parkin W., Fisher C., & Kaur, S. Trends in Misdemeanor Arrests, Referrals, & Charges in Seattle – Final Report. Seattle University, October 2018.

While many of these individuals may fall into the higher risk categories that are served by LEAD, Vital, LINC, and PACT, the City does not currently offer a mainstream diversion option for those who are not repeatedly cycling through the CLS. The DWLS program is not age-restricted but it is intended to address only one specific crime.

In an effort to address this gap, Council adopted <u>SLI CJ-24-A-2</u> as part of the 2020 budget and asked CAO to provide a report evaluating the staffing, costs, and additional resources that would be required to create a mainstream diversion program for individuals in the 25+ age group. CAO published its <u>report</u> in May 2020 and is in the early stages of beginning the racial equity toolkit (RET) process.

As the City considers expanding diversion options for this group, it should explore restorative justice-based programing. Programs that rely on restorative justice (RJ) principles aim to address and repair harm caused when a crime is committed while holding individuals accountable. Since the RNR model's risk principle states that interventions should be matched to an individual's risk to reoffend, individuals with a lower risk level would require a lighter touch, which restorative justice conferencing could provide. During RJ conferencing, the person accused of committing the crime meets with the victim(s) (or a victim advocate if the victim does not want to participate) as well as community members to discuss the harm that their action caused to the individual victim(s) and to the greater community. As a group, they also evaluate possible restitution that can address or mitigate that harm. RJ-based programming is more common in the American juvenile justice system than in the adult system and as a result, evaluations for RJ-based programming largely focus on juvenile programs. While there is an absence of adult-level data in relation to juvenile-level data, the Washington State Institute for Public Policy (WSIPP) found in a meta-analysis of RJ-based programs that these programs do reduce recidivism for juvenile individuals assessed as low-risk and provided cost-savings over traditional case processing through prosecution.⁸⁶ RJ programs have also been shown to improve victim satisfaction in case outcomes as compared to traditional CLS processing.⁸⁷ Lastly, creating an RJ-based diversion alternative aligns with the Guiding Principles' ask that, "CLS reform should incorporate opportunities for restorative justice practices."

Operationalizing RNR-based Diversion

If the City is to align its practices in this intercept with the RNR model, diverting cases to the appropriate intervention must be the norm instead of resorting to prosecution. The City should ensure that to the greatest extent possible, the type of misdemeanor crime committed, and individuals' previous histories with diversion programs do not act as barriers to being offered diversion options. The reason for this is twofold. First, the Risk Principle does not equate the seriousness or type of crime with risk to reoffend. In other words, a person accused of harassment or assault is not high risk by virtue of their alleged offense. As explained by Dr.

⁸⁶ Washington State Institute for Public Policy, "Restorative justice conferencing or victim offender mediation for court-involved youth," 2019

⁸⁷ United States Department of Justice – Office of Justice Programs, "Effectiveness of Restorative Justice Programs," July 2017.

Douglas Marlowe, the Chief of Science, Law and Policy for the National Association of Drug Court Professionals:

High risk indicates that an event is more likely to occur than by chance or on average, and low risk indicates it is less likely to occur. In most instances, it does not refer to the seriousness or harmfulness of the event...If one person has a 60 percent chance of being arrested for drug possession and another has a 10 percent chance of being arrested for assault, the first person is likely to score higher on most commonly administered risk assessment tools.⁸⁸

Denying additional diversion opportunities if an individual commits additional crime is also problematic in light of the RNR model since absent information on an individual's assessed risk or criminogenic needs, it is possible that the person did not receive the type of services or intensity of services that would address their situation. In this context, the City would have expended resources on treatment that would likely be ineffective for that person and would then rely on punitive measures and punishment because the intervention did not work. In order to avoid this scenario and increase the probability of success, individuals should be assessed first (either by CAO or a contracted community-based organization) and then offered a diversion option matched to their risk/need level. Also, if individuals recidivate following their participation in a diversion option, they should be reassessed as they may require higher intensity services.

⁸⁸ Marlowe, D., "The Most Carefully Studies, Yet Lease Understood Terms in the Criminal Justice Lexicon: Risk, Need, and Responsivity," Policy Research Associates/SAMHSA Gains Center, www.prainc.com/risk-need-responsitivity/

Chapter 4: Intercept Zero Alternatives

Community Guiding Principles responsive to Intercept Zero:

- The City should engage directly impacted communities on a consistent basis and involve them in the decision-making and solutions. It should also partner with directly impacted communities and community-based organizations to ensure accountability and cultural competence. CLS reform/realignment should lead with a race and social justice equity lens. It should also honor human dignity.
- The City should examine the root causes of why people are in jail and shift resources to address those needs.
- The City should acknowledge that involvement in the CLS (overall and not specifically
 the City's municipal system) is often preceded by a variety of social factors including
 homelessness, child protection services (CPS) intervention, and poverty among other
 risk factors. Therefore, CLS reform should also include interventions in expanding access
 to [economic] resources and social services for vulnerable communities.

In 2017, the Substance Abuse and Mental Health Services Administration's (<u>SAMHSA</u>) GAINS Center, updated the sequential intercept model to include a new intercept – Intercept Zero. The goal of introducing Intercept Zero was to align systems and services and connect individuals with treatment before a behavioral health crisis begins or at the earliest possible stage of system interaction. With its focus on addressing mental health/health care needs at the earliest stages, Intercept Zero has been referred to as the "ultimate intercept."

In terms of the City's CLS realignment effort, Intercept Zero can play a similar role in that it is an opportunity for the City to increase its investments in early intervention programs to address criminogenic needs before individuals come into contact with system. Indeed, in its study on criminogenic needs in the misdemeanor population, the Center for Court Innovation found that, "individual criminal histories are - at least partially - shaped by the underlying needs in the first place... [and that] criminogenic needs influence why people commit their very first criminal act."⁸⁹

In line with the Community Guiding Principle listed at the beginning of this chapter that the City engage with directly impacted communities on a consistent basis and involve them in decision-making and solutions, the City could use a participatory budgeting (PB) process to allocate funding to community-generated proposals that address criminogenic needs. Indeed, the Council-funded Black Brilliance Project's (BBP) Final Report recommended that the City use a PB process to allocate investments to: housing and physical space, mental health, youth and children, crisis response and wellness, and economic development. Although the BBP did not specifically focus its research on interventions that could act as preventative measures to CLS-involvement, the broad categories of investments that it recommended could address several

⁸⁹ Rempel, Michael et al. "Understanding Risk and Needs in the Misdemeanor Population: A Case Study in New York City, *The Center for Court Innovation*, May 2018.

criminogenic needs associated with socio-economic disadvantages. For example, increasing targeted investments in affordable housing and economic development could contribute to lowering homelessness/housing insecurity and increasing economic opportunities for residents in historically under-resourced communities.

The importance of increasing social service investments in BIPOC communities as a public safety measure has also been expressed by Council President Gonzalez. In her speech referenced in this report's opening chapter regarding the CLS realignment project's scope, CP Gonzalez added that "This is quite literally undoing legacies and generations of harm caused by racism and institutional racism and this work is not going to get done in a couple of budget cycle...It is one piece of a very large complex puzzle that we just have to keep chipping away at." ⁹⁰

In addition to serving as a preventative measure to reduce the likelihood of future CLS involvement through the reduction of criminogenic needs, expanding upstream investments in historically under- resourced communities also aligns with the City's Race and Social Justice Initiative to reduce racial disparities and achieve racial equity. It is well documented that BIPOC communities in Seattle experience poverty at disproportionally high rates and as the United Way of King County wrote in its 2015 report on Understanding King County Racial Inequities, "circumstances such as homelessness, unemployment, lack of access to quality preschool programs and disengagement from school do not occur in isolation...[and that] People of color are disproportionately poor as a result of oppression, historical disadvantages and discriminatory practices that have been institutionalized." "91"

Preventing Adverse Childhood Experiences

The BBP's recommendation that the City also focus on increasing investments in programing for BIPOC children and youth represents an additional way of frontloading interventions in the ultimate intercept. Expanding beyond the Risk-Need-Responsivity model and criminogenic needs, research also shows that exposure to adverse childhood experiences (ACEs) can have a significant negative impact on children's development. ACEs are traumatic experiences (figure 11) which can cause toxic stress in children. Repeated exposure to toxic stress through multiple ACEs at that age can affect brain development and harm children's nervous, endocrine, and immune systems as well as the physical structure of their DNA.⁹² These types of changes can affect children's impulse control, attention, decision-making, and emotional regulation. Research also shows that children who experience higher levels of ACEs can struggle to learn and complete schooling. They are also at a higher risk for engaging in violent behavior and becoming involved in the juvenile CLS.⁹³

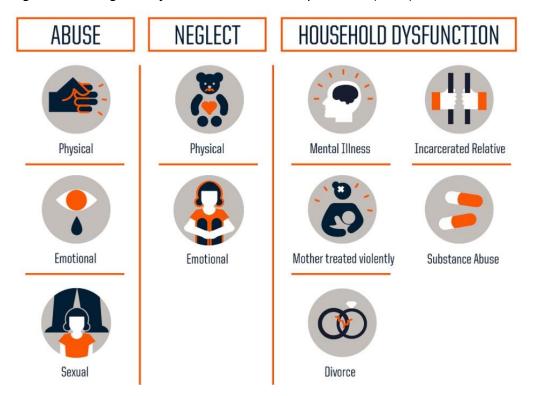
⁹⁰ Seattle City Council Select Budget Committee Meeting, 9/27/2019 (OCR budget presentation)

⁹¹ Murnan, F and Park, A, "Understanding King County Racial Inequities," United Way of King County, November 2015.

⁹² Centers for Disease Control and Prevention, "Preventing Adverse Childhood Experiences: Leveraging the Best Available Evidence," 2019

⁹³ Ibid.

Figure 11: Categories of Adverse Childhood Experiences (ACEs)



The impact of accumulated ACEs in children can have lifelong repercussions as they are correlated with an increase in harmful medical conditions in adults such as chronic health and mental health problems and substance abuse/misuse. Indeed, the Centers for Disease Control and Prevention (CDC) note that at least five of the top 10 leading causes of death in adults are associated with ACEs. ⁹⁴ The CDC also notes that adults who experienced higher levels of ACEs may face increased employment instability leading to struggles with finances, jobs, and family. These effects in turn can have a cyclical intergenerational impact on children who may experience ACEs themselves as a result. ⁹⁵

An additional harmful consequence for children who experience ACEs is an increased likelihood of incarceration and CLS involvement as adults. In a 2013 study comparing the rate of ACEs among individuals convicted of a crime with those of a control group found that the convicted individuals "reported nearly four times a many adverse events in childhood than an adult male normative sample." ⁹⁶

⁹⁴ Centers for Disease Control and Prevention, "Vital Signs – Adverse Childhood Experiences: Preventing Early Trauma to Improve Adult Health," https://www.cdc.gov/vitalsigns/aces/index.html

⁹⁵ Centers for Disease Control and Prevention, "Preventing Adverse Childhood Experiences: Leveraging the Best Available Evidence," 2019.

⁹⁶ Reavis J. et al., "Adverse Childhood Experiences and Adult Criminality: How long must we live before we possess our own lives," The Permanente Journal, Spring 2013.

Although there are individual and family <u>risk factors</u> that can increase the probability that a child will experience ACEs, there are community risk factors as well. These include communities with:

- high rates of violence and crime,
- high rates of poverty and limited educational and economic opportunities,
- · high unemployment rates,
- few community activities for young people,
- unstable housing and where residents move frequently; and
- communities where families frequently experience food insecurity

In light of the common link between many of the community risk factors, it is not surprising that:

A growing body of evidence indicates that poverty is highly comorbid with ACE exposure and that children living in poverty are more likely than their peers to experience frequent and intense adversities...A variety of childhood adversities have a root cause in family economic insufficiency, indicating that poverty may likely be the first adversity that many children experience. Poverty acts as a reinforcing mechanism, disproportionately burdening low-income families with stressors that give rise to adverse conditions, which then convey additional stress and cognitive dysfunction. The devastating effect of this negative feedback loop on the development of children is well documented, and childhood poverty has been strongly linked to a variety of negative outcomes across the life course."⁹⁷

The CDC states that preventing ACEs is one of its top priorities and in 2019, it published a report with strategies (figure 12) and guidance to assist communities in this effort. Due to the lifelong impact that ACEs can have on Seattle's youngest generations, preventing and reducing their impact should be a priority for the City as part of its CLS realignment effort. This is work, however, that a municipality cannot do alone. Given the scope of the problem, the amount of resources that would likely be required to address ACEs in a priority manner, and that families interact with multiple system actors, this effort would require strengthening existing partnerships and aligning goals with not only impacted communities and community-based organizations, but with other government institutions such as the public school district, and the state, county, and federal governments.

06.04.21

⁹⁷ Hughes, M. and Tucker, W., "Poverty as an Adverse Childhood Experience," North Carolina Medical Journal, vol. 79 no. 2, March 2018.

Figure 12: Strategies for Preventing ACEs

Strategy	Approach
Strengthen economic supports to families	Strengthening household financial security Family-friendly work policies
Promote social norms that protect against violence and adversity	 Public education campaigns Legislative approaches to reduce corporal punishment Bystander approaches Men and boys as allies in prevention
Ensure a strong start for children	Early childhood home visitation High-quality child care Preschool enrichment with family engagement
Teach skills	 Social-emotional learning Safe dating and healthy relationship skill programs Parenting skills and family relationship approaches
Connect youth to caring adults and activities	Mentoring programs After-school programs
Intervene to lessen immediate and long-term harms	 Enhanced primary care Victim-centered services Treatment to lessen the harms of ACEs Treatment to prevent problem behavior and future involvement in violence Family-centered treatment for substance use disorders

As part of its 2021 adopted budget, the City created a new <u>Safe and Thriving Communities</u> <u>division</u> within HSD that will work with community partners to expand the City's community building initiatives. As the City looks toward increasing investments in CLS prevention measures, it has multiple resources that it can consult in designing evidence-based community-centered programs that can prevent or treat ACEs. For example, in 2004, the <u>Washington State Institute for Public Policy</u> (WISPP) reviewed various early intervention programs and produced a <u>cost-benefit analysis</u> that included potential future savings in areas such as CLS expenditures. Examples of recommended programs listed in the report include early childhood education for low-income 3 and 4-year-olds, comprehensive home visits by nurses for low-income pre and post-natal women, and youth mentoring programs.

Additionally, since the 2012 passage of Engrossed Second Substitute House Bill (ESSHB) 2536, WSIPP and the University of Washington's Evidence-Based Practice Institute (EBPI) have created and periodically updated an inventory of programs and services focused on juvenile mental health, child welfare, and juvenile justice that are evidence-based, research-based, or are promising practices. Also, in 2012, the City Auditor worked with the Center for Evidence-Based Crime Policy (CEBC) at George Mason University to produce an evidence-based assessment of the City's crime prevention programs. This included evaluations of programs and services geared toward families/early intervention and community-based prevention.

In designing future contracts with community-based partners for CLS programming, the City should provide technical assistance with data collection and perform periodic program evaluations based on the data to evaluate whether investments produce the expected results. This is an important component of ensuring that programs are evidence-based in their design and operation as the CEBC assessment found that in 2012:

- 55 percent of the City's crime prevention programs had inconclusive evidence of their effectiveness,
- 13 percent had no supporting research or theoretical basis for their potential effectiveness; and
- Five percent had the potential to backfire and produce negative outcomes that could worsen crime rather than reducing it.

Case Examples of Successful Intercept Zero Interventions

This section provides brief case examples of two early intervention programs that have demonstrated long-term successes for participants and their communities. These examples represent Intercept Zero investments in children and families which were developed through community-based partnerships and which align with Community's Guiding Principles and evidence-based practices. Both of these programs are limited in terms of the size or the scope of the population served and if the City were to make comparable investments at the scale needed to match the beneficial impacts exhibited by these programs, it would require a revenue increase or a reprioritizing/refocusing of current spending. Nonetheless, the programs described below demonstrate the promise that these types of early investments can have as a long-term CLS realignment strategy.

Tangelo Park Program

Tangelo Park is a small mainly Black community of about 3,000 residents near Orlando, FL with a median income of around \$37,565 (for reference, Seattle's Black and Indigenous communities have respective median incomes of \$39,936 and \$31,519). In the 1980s and the beginning of the 1990s, Tangelo Park had the highest neighborhood crime rate in Central Florida. It had low property values; its schools faced declining test scores, high student absentee rates, and its high school had a dropout rate of close to 50 percent. 99

Over the course of the last 30 years, however, Tangelo Park has had many successes in transforming the lives of its community members. Beginning in 1993, the town began a partnership with philanthropist, Harris Rosen, to create a community-based initiative to invest

⁹⁸ Orange County Government, "An Orange County Neighborhood You Should Know: Tangelo Park Remains a Close-Knit and Unified Community," November 2019 - https://newsroom.ocfl.net/2019/11/an-orange-county-neighborhood-you-should-know-tangelo-park-remains-a-close-knit-and-unified-community/

⁹⁹ Weiss, E., "Tangelo Park Program: A Broader, Bolder Approach to Education," Economic Policy Institute, 2018 - http://www.boldapproach.org/case-study/tangelo-park-program-orlando-florida-a-broader-bolder-approach-to-education/

in children and families. With funding of close to \$13 million over the course of the partnership, the <u>Tangelo Park Program</u> (TPP) offers its residents at no cost:

- Childcare/Pre-school opportunities for children between the ages of two and four,
- Parenting classes and vocational/technical opportunities for parents of children enrolled in school,
- Full tuition, including room, board, and living expenses for every Tangelo Park high school graduate accepted by a vocational school, community college, or public university in Florida.¹⁰⁰

By 2003, Tangelo Park's crime rate for most crimes (excluding robbery) had dropped significantly with motor vehicle theft rates declining by 26 percent, assault rates by 21 percent and burglary rates by 46 percent. In comparison, communities within the same geographic area had a 20 percent increase in auto theft rates, a small (.3 percent) increase in assault rates, and a 10 percent decrease in burglary rates. ¹⁰¹ Additionally, the average home value increased from \$45,000 to \$150,000 between 1993 and 2018 (representing a 233 percent gain) and the high school graduation rate is now between 90 and 100 percent (figure 13). ¹⁰²

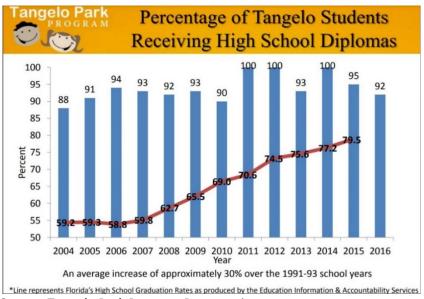


Figure 13: Percentage of Tangelo Park Students Receiving High School Diplomas vs FL Average

Source: Tangelo Park Program Presentation

A 2010 Western Ontario University evaluation of TPP's benefits on Tangelo Park residents estimated that higher education attainment levels "imply an average increase in lifetime

 ¹⁰⁰ Tangelo Park Program website - https://www.tangeloparkprogram.com/about/tangelo-park-program/
 101 Lochner, L., "Measuring the Impacts of the Tangelo Park Program on Local Residents," University of Western Ontario, December 2010 - https://economics.uwo.ca/people/lochner_docs/measuringtheimpacts_dec10.pdf
 102 Weiss, E., "Tangelo Park Program: A Broader, Bolder Approach to Education," Economic Policy Institute, 2018 - http://www.boldapproach.org/case-study/tangelo-park-program-orlando-florida-a-broader-bolder-approach-to-education/

earnings of \$50,000 per Tangelo Park student, with a total benefit to Tangelo Park residents of \$1.05 million per year...The annual social benefits from crime reduction are estimated to be around \$220,000-300,000. Combining the benefits from both increased earnings and reduced crime suggest that the TPP offers benefits to Tangelo Park residents amounting to around \$1.3 million per year."¹⁰³ Furthermore, it is estimated that these types of benefits represent a return on investment of \$7 for every \$1 spent and that the \$13 million investment over the course of the TPP's existence has generated close to \$90 million in benefits for Tangelo Park residents.¹⁰⁴

Seattle Social Development Project

<u>The Seattle Social Development Project</u> (SSDP) was a longitudinal study created as a partnership between the University of Washington (UW) and Seattle schools in the 1980s. Along with programs such as the <u>Nurse Family Partnership</u> and <u>Early Childhood Education for Low Income Students</u>, SSDP was rated in WSIPP's cost-benefit analysis as one having one of the highest measured benefits relative to cost.

Beginning in 1981, SSDP focused on preventing teen health-risk behaviors through the upstream application of a public health model focused on mitigating risk factors associated with juvenile delinquency, violence, substance abuse, teen pregnancy, and dropping out of school. ¹⁰⁵ Rather than attempting to address existing problematic behavior in adolescents, SSDP sought to prevent it through early intervention in elementary school (starting in first grade) in an effort to place children on a "developmental trajectory leading to more positive outcomes and fewer problem behaviors over the long term." ¹⁰⁶ SSDP's underlying theory was that increasing elementary-aged children's opportunities for forming healthy bonds would demonstrate positive effects in later years.

After randomly selecting "intervention classrooms" from Seattle public schools in high crime areas, researchers worked with educators and parents to implement the program. This consisted of:

- Teacher training in classroom instruction and management,
- Child social and emotional skill development; and
- Parent training and support

Outcomes for children in the intervention groups as well as those in non-intervention control groups were tracked for nearly 30 years. The most recent data, published in March 2021, also looked at whether there were measurable intergenerational impacts that extended to the study participants' children.

Lochner, L., "Measuring the Impacts of the Tangelo Park Program on Local Residents," University of Western Ontario, December 2010 - https://economics.uwo.ca/people/lochner_docs/measuringtheimpacts_dec10.pdf
 Tangelo Park Program Presentation, 2020 - https://www.tangeloparkprogram.com/wp-content/uploads/2020/12/Tangelo-Presentation_2020.pdf

¹⁰⁵ Hawkins, J David et al. "Long-Term Effects of the Seattle Social Development Intervention on School Bonding Trajectories." *Applied Developmental Science* vol. 5,4 (2001) ¹⁰⁶ Ibid.

By the end of sixth grade, which marked the end of the curriculum, intervention students exhibited significantly higher scores on school district-administered standardized tests and reported "higher levels on social development constructs, including positive school opportunities, involvement, rewards, and bonding to school." At age 18, individuals in the intervention groups reported better academic achievement and fewer incidences of school discipline than individuals in the control group. A significantly fewer amount also reported involvement in criminal acts, heavy drinking, or pregnancy.¹⁰⁷

By age 21, intervention participants had higher levels of constructive engagement in school and work, exhibited greater social integration at school, had higher employment levels, and were significantly more likely to have graduated from high school and attended two or more years of college. ¹⁰⁸ In terms of CLS involvement, intervention group participants "were significantly less likely to have sold drugs in the past year and to have experienced a noncriminal, misdemeanor, or felony charge." ¹⁰⁹

As they exited young adulthood, intervention participants continued to show gains relative to their control counterparts. By the age of 27, a larger percentage reported income levels, educational attainment, and homeownership levels that were above the U.S. median. Black individuals, in particular, reported significantly higher income levels relative to the control group (\$55,594 vs. \$35,288).¹¹⁰

Researchers also found that the program's benefits may have had positive intergenerational impacts for the children of the intervention participants. In surveys, teachers rated the children of the intervention group as exhibiting markedly better cognitive, academic, and emotional skills than children of the control group parents and by age 18, the intervention group's children also self-reported that they were less likely to have used drugs. 111

¹⁰⁷ Catalano, RF et al., "Applying the Social Development Model in Middle Childhood to Promote Healthy Development: Effects from Primary School Through the 30s and Across Generations," *Journal of Developmental and Life-Course Criminology*, March 2021

¹⁰⁸ Ibid.

¹⁰⁹ Ibid.

¹¹⁰ Ibid.

¹¹¹ Ibid.

Appendix Links

- 1. <u>Reimagining the City's Criminal Justice Coordinating</u>
 Council (CJCC)
- 2.<u>Relevant Excerpts from Past Community Engagement Efforts</u>
- 3. <u>Central Staff's 2020 Community Safety & Violence Prevention Memo</u>
- 4. Seattle Police Department's Response to Statement of Legislative Intent (SLI) SPD-1-B-1