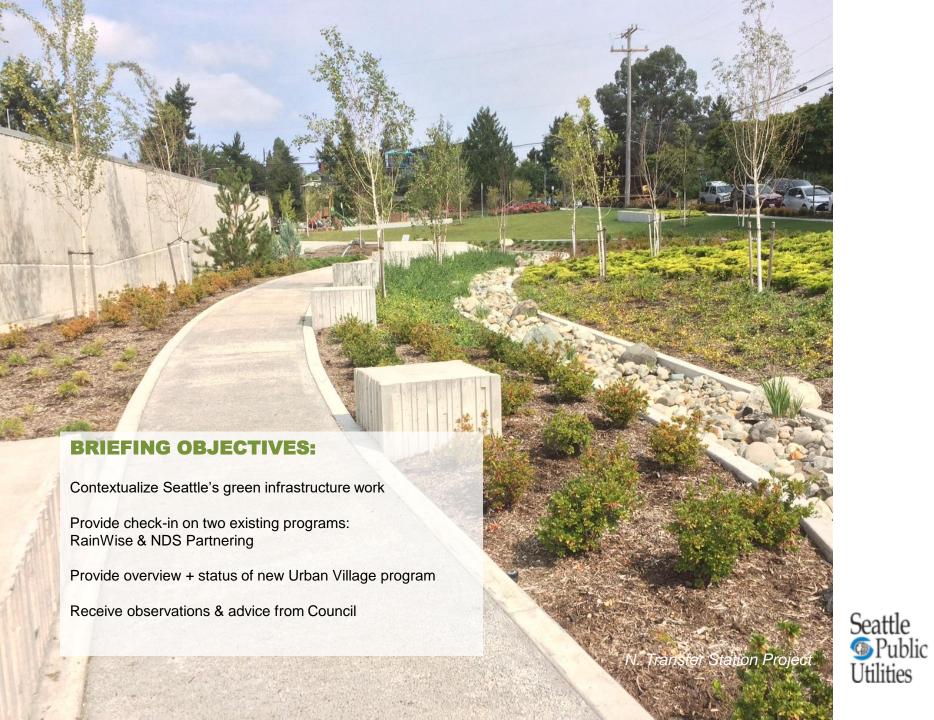


Seattle's Green Stormwater Infrastructure (GSI) Program Informational Briefing

January 23, 2018 // Seattle City Council Civil Rights, Utilities, Economic Development & Arts Committee





TOOLS ON PRIVATE LAND

RESIDENTIAL SCALE



CISTERNS

GREEN ROOFS

PERVIOUS PAVING

RAIN GARDENS/ BIORETENTION

















TOOLS ON PUBLICLAND

total drainage area 129 ACRES

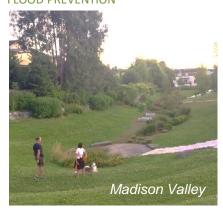


total drainage area: 435 ACRES



multi-benefit use of the right-of-way

primary project purpose: FLOOD PREVENTION



primary project purpose: FLOOD PREVENTION



multi-benefit use of parcels



Creek protection and salmon recovery





SEA Street; 110th St. Cascade; Pinehurst and Broadview Green Grids;

HighPoint Redevelopment

Early CSO compliance and Stormwater Code

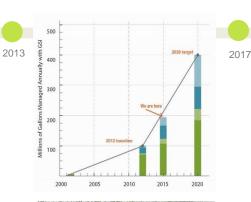




RainWise program development

GSI required in Stormwater Code

Citywide policy & code updates and Integrated (CSO/SW) Plan





Citywide commitment and target

\$35M Natural Drainage System Partnering Program

Investments integrated with open space, transportation, and development

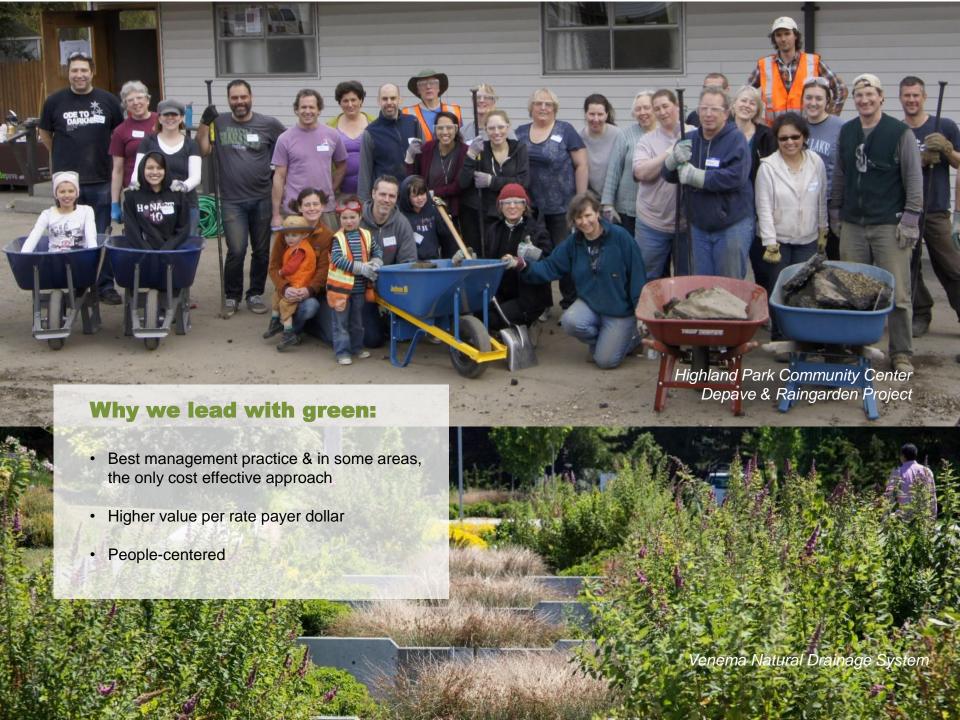




\$35M Urban Village Program

North Transfer Station; Fremont Building







*Improvements to support a healthy environment for all can exacerbate displacement risk in communities of color and low income communities. This must be addressed with cohesive Citywide strategy.

Stormwater Pollution Is a Regional Challenge

Seattle Helps Set the Pace for Green Solutions



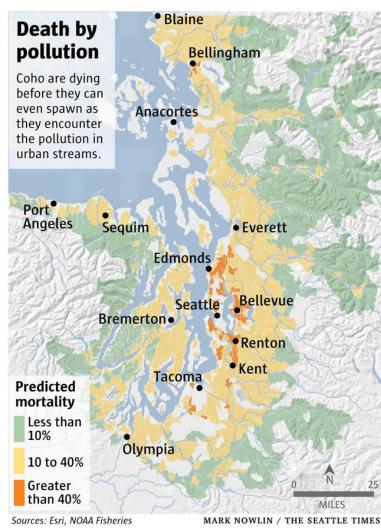
Environment | Local News | Northwest | Puget Sound

Stormwater pollution in Puget Sound streams killing coho before they can spawn

Originally published October 18, 2017 at 7:00 am | Updated October 18, 2017 at 12:27 pm



Coho salmon, including females full of eggs, are dying before they can spawn in Puget Sound
 streams polluted with stormwater runoff. (NOAA Fisheries)



Stormwater Pollution Is a Regional Challenge

Seattle Helps Set the Pace for Green Solutions















Seattle is a founding partner of:

The Green Infrastructure Partnership (GrIP) Puget Sound Green Infrastructure Summit Regional RSJ Learning Cohort City Habitats





GSI Requirements Stormwater Code

On-site **Flow Control Water Quality**

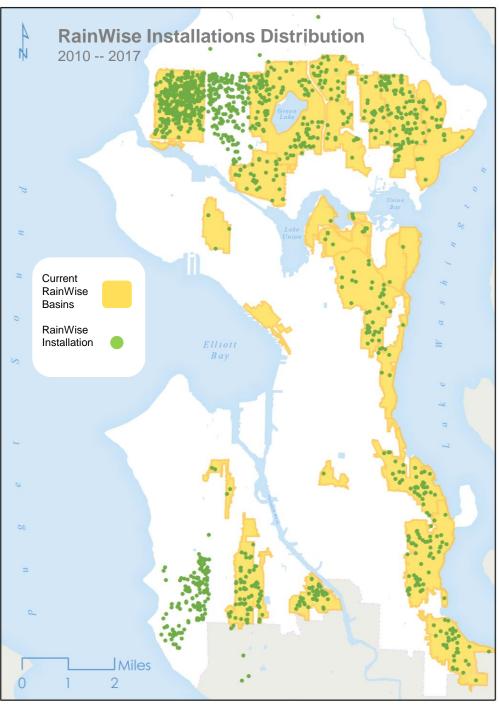














Watershed	Begin Design	Begin Construction
Thornton – 30 th NE (SDOT led)	2017	2018
Longfellow	2018	2019
Thornton – south	2018	2019
Thornton – North	2019	2021
Pipers	2020	2022

Highlighted streets are potentially technically feasible for a natural drainage system.

SPU is funded to build projects on about 4% of these blocks.



Natural Drainage Systems Partnering

Partnerships with Sister Agencies Lower Costs









Urban Village Program

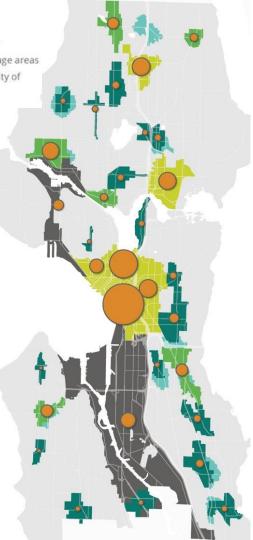
Improve Drainage, Water Quality, and Livability In Most Rapidly Growing Areas of Seattle

Projected Population Growth 2015-2035

Hub Urban Village
 Residential Urban Village
 Potential New Urban Village areas
 Growth (expected quantity of new jobs and housing)

Urban Center

Seattle's population will grow by 120,000 people in the next 20 years.



How will we leverage the moment of redevelopment

- the lowest cost moment to update our
infrastructure systems – to optimize public and
private value, including:

• A climate-ready drainage & wastewater system

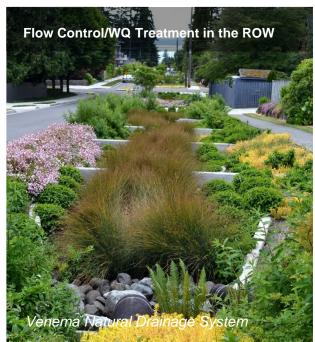
- Multi-functional/multi-seasonal open space
- Long-term stewardship of stormwater facilities
- Greater flexibility and creativity for developers
- Clear/explicit racial equity outcomes

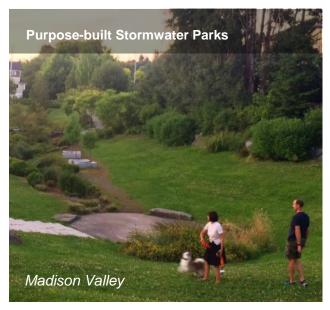


Urban Village Program

Improve Drainage, Water Quality, and Livability In Most Rapidly Growing Areas of Seattle

POTENTIAL TYPOLOGIES









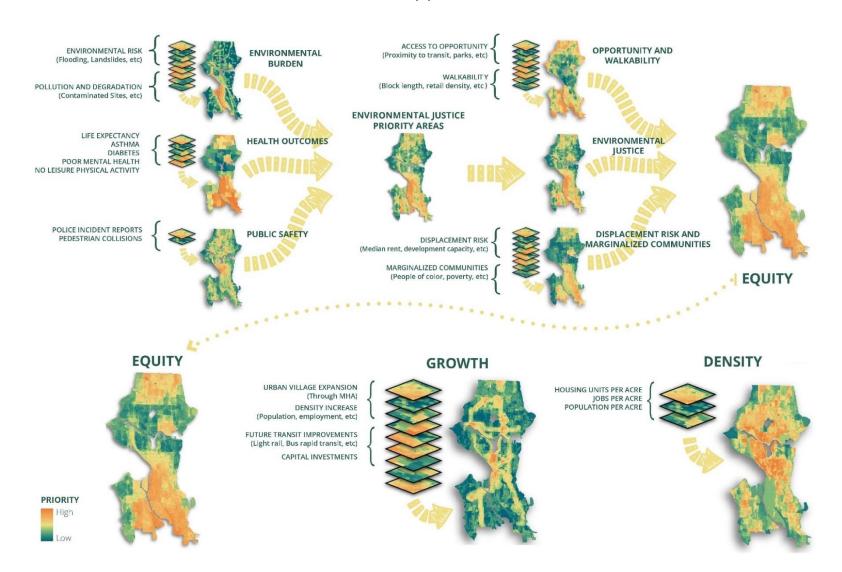


Urban Village Program

Improve Drainage, Water Quality, and Livability In Most Rapidly Growing Areas of Seattle

Urban Village Prioritization Approach Is Considering:

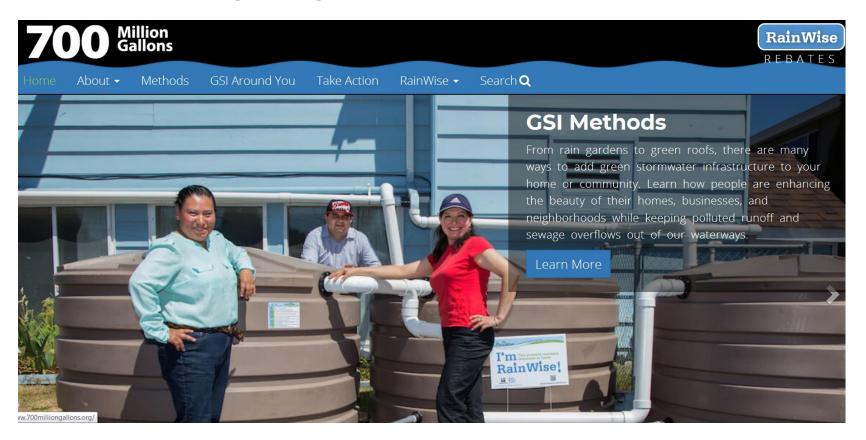
- OPCD analyses (data below) for racial equity, density, and growth
- Best-available SPU data on infrastructure needs and ecological variables
- Best-available data on parks and open space gaps
- Technical feasibility
- Partnership potential





Learn and Share

Learn more at 700milliongallons.org



Share ideas: rainwise@sattle.gov

