Seattle City Council

Transportation Committee

SDOT Grant Acceptance Ordinance

Seattle City Council
Transportation Committee
August 6, 2024

Seattle
Department of
Transportation

Our Vision, Mission, Values, & Goals

Seattle is a thriving equitable community powered by dependable transportation. We're on a mission to deliver a transportation system that provides safe and affordable access to places and opportunities.

Core Values & Goals:

Equity, Safety, Mobility, Sustainability, Livability, and Excellence.

Seattle
Department of
Transportation

State funding awards

- This legislation accepts two recent funding awards from the State of Washington to the City of Seattle:

    - $302,278 Department of Natural Resources (DNR) Urban and Community Forestry Grant

    - $500,000 Washington State Legislature earmark in 2023-25 Supplemental Transportation Budget to a develop a model digital conflict area awareness management program for transportation operators, such as autonomous vehicle fleet operators

- Due to timing, these grants were not included with the Midyear Supplemental Budget Package

- These funding awards allow SDOT to supplement existing programs but do not require any local match and therefore do not impact the projected 2025-2026 budget deficit

Seattle
Department of
Transportation

Two SDOT Projects Will Receive Funding

Project Name	Brief Summary	Additional Federal Award
Washington State Department of Natural Resources (DNR) Community Forestry Assistance Grant Program to SDOT's Urban Forestry Division	The Community Forestry Assistance Grant Program funds: • Analysis to identify street tree planting opportunities, obstacles, and potential for public investment in four census tracts with less than 25% canopy that are also a priority in the City's Race and Social Equity (RSE) Index • Census tracts include different neighborhood types: industrial (SODO), dense urban (I-5/West Capitol Hill), neighborhood residential (Roxbury), and mixed industrial/commercial/residential (South Park)	$302,278
State Supplemental Transportation Budget Appropriation to SDOT's Mobility Solutions Program	The Digital Conflict Area Awareness Management Program appropriation funds: • Creation of a Digital Conflict Awareness Program (dCAAMP) utilizing Open Mobility Foundation's Mobility Data Specification (MDS). • Goal is to provide machine-readable information via the MDS Policy API for transportation operators, such as autonomous vehicle fleet operators, to be aware of conflict areas, such as emergency response zones and traffic incident areas. • The project will work to create an implementation guide for other jurisdictions	$500,000

Seattle's AV Timeline

Governor authorizes AV testing;

SDOT releases New Mobility Playbook

Zoox begins AV testing in Seattle

AUTONOMOUS VEHICLE TESTING PERMIT REQUIREMENTS

Seattle Department of Transportation

Version 1.0 (November 2022)
All Requirements Subject to Change

Seattle & Bellevue release AV Strategic Vision;

SDOT issues first AV testing permits;

SDOT joins PAVE

New and Emerging Mobility Element

2017	2019	2021	2022	2023	2024

NVIDIA publishes video of AV perception in Seattle;

SDOT joins State AV Work Group Executive Committee

ZOOX

SDOT launches AV testing permit

A STRATEGIC VISION FOR AUTOMATED VEHICLES
CITY OF BELLEVUE AND CITY OF SEATTLE
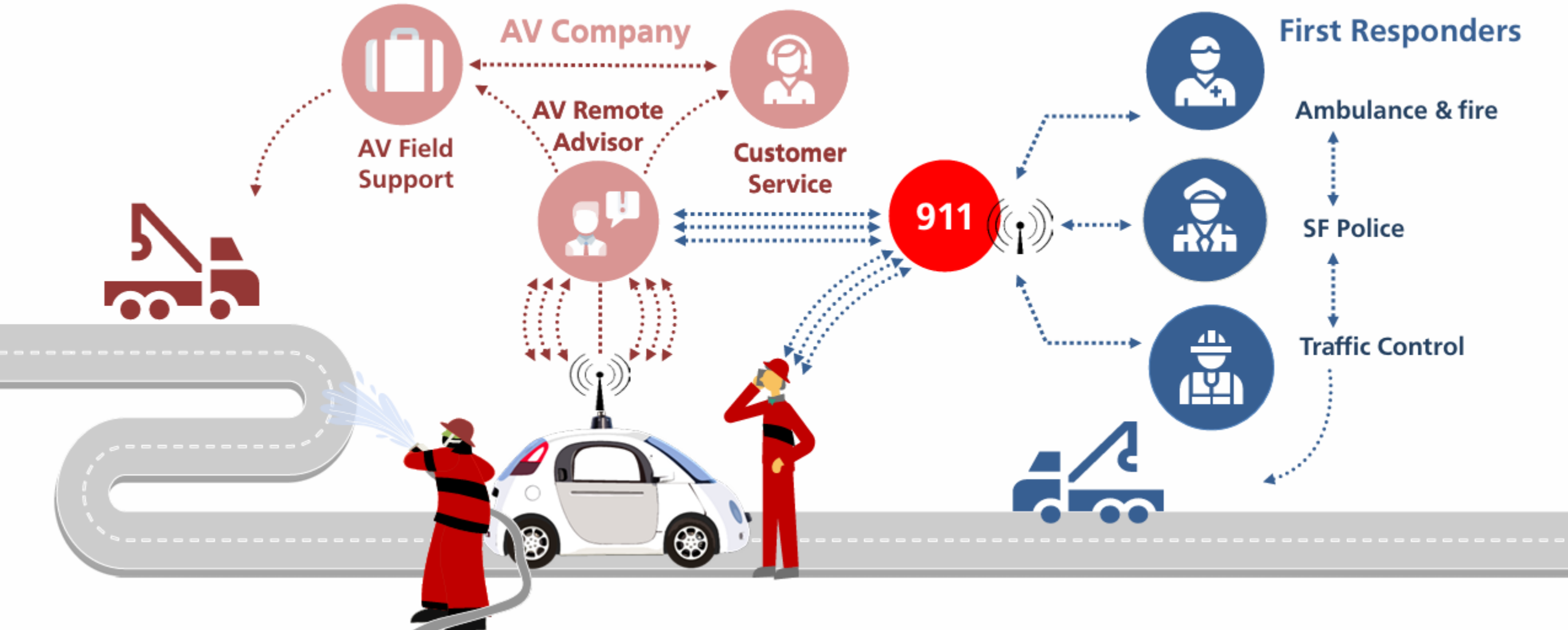
STP released with New & Emerging Mobility element;

SDOT launches AV Inclusive Planning;

SDOT begins DATA project

Seattle Department of Transportation

Lessons from Peer Cities: San Francisco, CA

Graphic from City & County of San Francisco: Driverless AV Safety and First Responders; August 7, 2023

Seattle
Department of
Transportation

Digital Conflict Awareness System

Implementation Steps

1. Intake real-time data (911, construction, traffic incidents, etc.)

2. Translate data into Mobility Data Specification (MDS) standard

3. Create geofences (no-go, slow zones, etc.) for transportation operators with connected fleets, including AVs

4. Monitor feed use, engage with operators to understand impact (reduction in interventions by remote operators, successful re-routes by AV, etc.)

5. Create implementation guide for other cities

Outcome: AVs and other connected fleets will be aware of and able to automatically avoid conflict zones and the downstream impacts caused by these interactions.

Seattle
Department of
Transportation

Thank you!

Seattle Department of Transportation