

City of Bellevue

Bellevue Smart Transportation Update

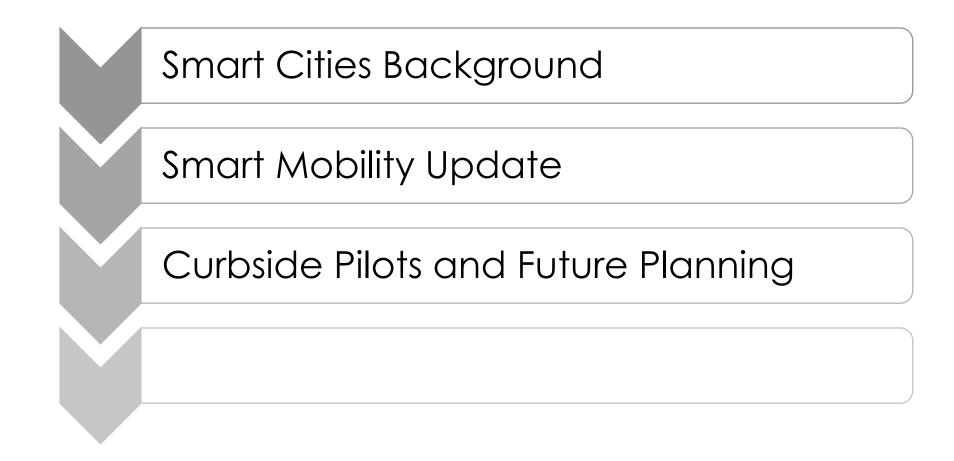
Chris Long | Transportation Dept. Chris Iverson | Transportation Dept. Daniel Lai | Transportation Dept.

May 17, 2021



Information

AGENDA: Connectivity Element Update

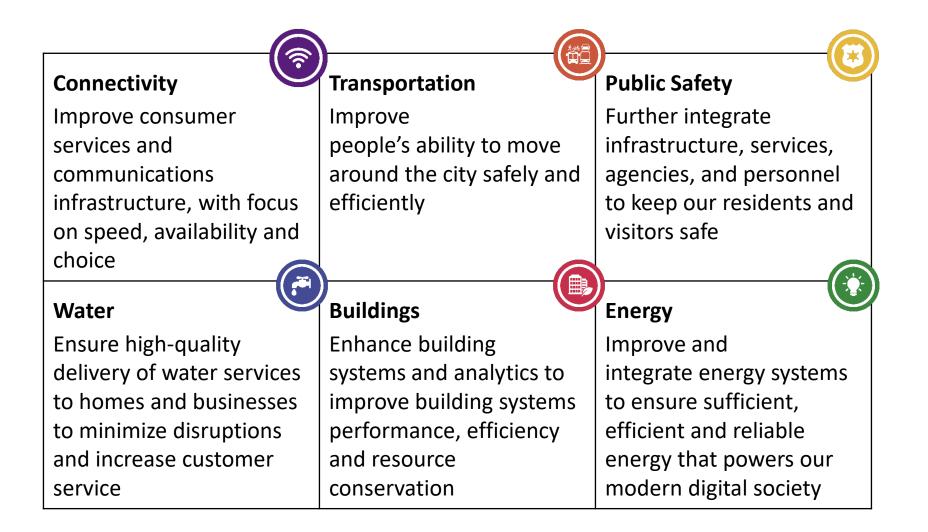


Bellevue Smart City Vision

Council Vision Bellevue is a "smart city" with a clean, high-quality environment and excellent and reliable infrastructure that supports our vibrant and growing city, including high-tech connectivity.



Smart City Elements



Smart Mobility Plan



Smart Cities

Transportation element of Bellevue Smart

Smart Mobility Plan

Accomplishments and Next Steps

Smart Mobility Plan

Smart Mobility VISION

Use innovation and partnerships to deploy emerging technologies that enhance the <u>safety</u>, <u>sustainability</u>, <u>efficiency</u>, and <u>accessibility</u> of Bellevue's transportation system.

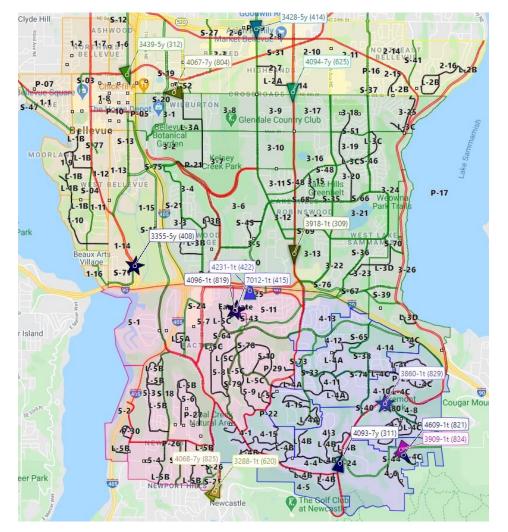


Traffic Camera Expansion



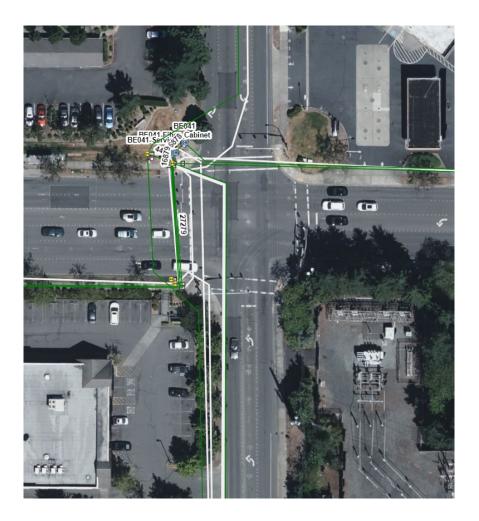
- Near 100% camera coverage at signalized intersections
- Shared resource across multiple departments

Winter Response Fleet AVL



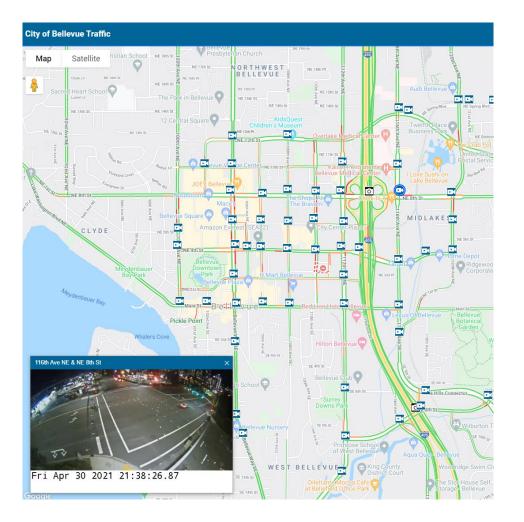
- Real-time location of assets
- Implemented during 2021 snow event
- Increased operational efficiencies
- Improves event response documentation

Fiber Optic Inventory



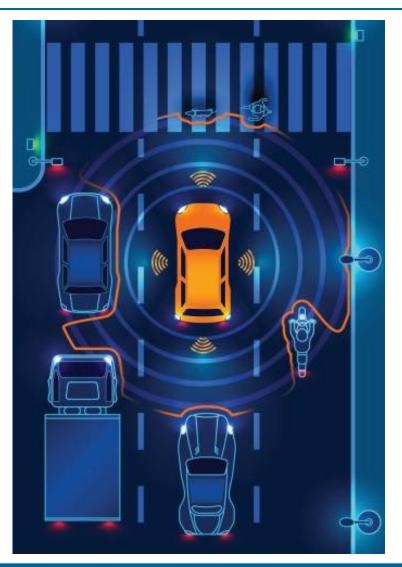
- Interdepartmental partnership on implementation
- Improved outage response time
- Expands fiber sharing opportunities

Live Video Traffic Map



- Launched Fall 2020
- Improves real-time traffic visibility
- Enhanced view of conditions during winter events

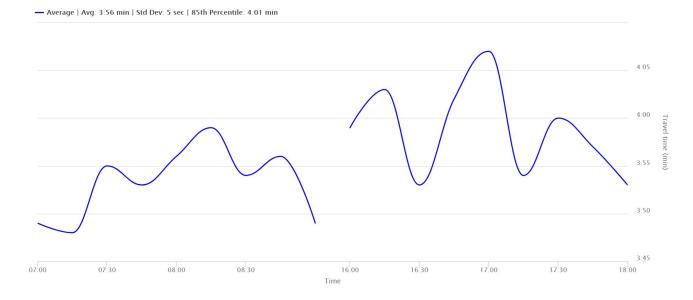
Autonomous Vehicle Strategic Vision



- Supported through New Mobility On-Call
- Work begins in Q2 2021
- Evaluate industry and agency AV readiness
- Engagement with local businesses, industry, and regional partners

Travel Time Data Platforms

SE 8th St/Lake Hills Conn WB from 148th Ave SE to SE 8th St



- Deployed in Q1 2021 for 80+ road segments
- Evaluate adaptive system performance
- Track seasonal and annual changes in traffic

Crossroads Connect



- Implemented in Q3 2020
- On-demand transit option for East Bellevue residents
- Connects to Frequent Transit Network
- *New* rides to local vaccination sites



Curbside Management

Recent Pilot Projects and Future Planning

What is Curb Management?

- The nexus of land use and transportation
- "Curb space is where movement meets access" - ITE Curbside Management Practitioners Guide
- Rethinking use of the curb for 21st Century





Curb Management Pilot Partnerships

- Department of Energy Grant: January 2019
 - Partners: UW Urban Freight Lab, Bellevue, Seattle, Pacific Northwest National Lab
- Smart Cities Collaborative: December 2019
 - "Bellevue joins Boston and Minneapolis as the three cities selected... to pilot new technology"

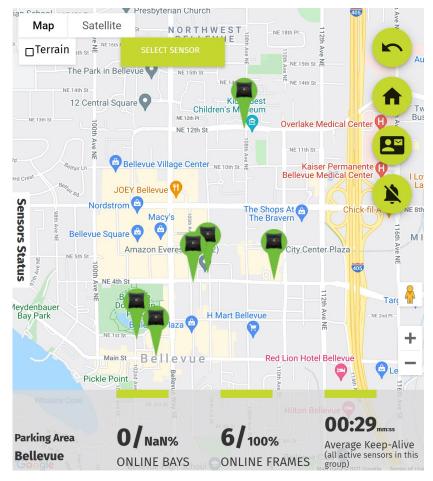






Department of Energy Grant

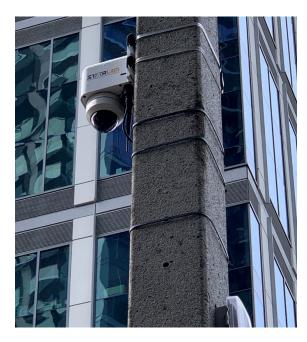
- Predict load zone availability
- Reduce parking seeking behavior
- Mobile App developed by Pacific Northwest National Lab



Curbside Performance Assessment

- Ground truthing & data validation exercise
- 5 total vendor systems,
 3 assessment periods

- Final report, Summer 2021
- Based on public-private partnerships



Curbside Management Pilot Program

> The City of Bellevue is testing new technology on 106th Avenue NE to improve conditions along the curb.

Our goal is to create safer and more predictable traffic conditions in downtown.



BellevueWA.gov/curbside-pilot



T4A Outcomes & COVID Response

- Products from Smart Cities Collaborative
 - COVID & The Curb Report
 - Universal Curb Language & Standards Principles
- COVID-19 changed the curbside landscape
 - Food pickup zones, curbside dining
 - Healthy Streets





How cities used the curb and street space to respond to COVID-19 and policy ideas to ensure the curb best serves the public good

Upcoming Work

- Curbside Performance
 Assessment report
 - Summer 2021
- Curb technology pilots
 - Ongoing
- Curb Management Plan
 - Begin late 2021





Next Steps and Discussion

- Smart City updates from other departments
- Light update to Bellevue Smart Plan in 2022

Information