

G-38 Smart City Connectivity

Category: **Econ Growth & Competitiveness**Status: **Ongoing**Department: **Information Technology**Location: **Various locations throughout the City of Bellevue**

Programmed Expenditures

<u>Programmed Expenditures</u>	<u>Appropriated To Date</u>	<u>FY 2019 Budget</u>	<u>FY 2020 Budget</u>	<u>FY 2021 Budget</u>	<u>FY 2022 Budget</u>	<u>FY 2023 Budget</u>	<u>FY 2024 Budget</u>	<u>FY 2025 Budget</u>
2,752,000	897,000	250,000	250,000	370,000	315,000	290,000	215,000	165,000

Description and Scope

This proposal responds to Council Priority "Advance implementation of the Smart City Strategy, including advanced transportation technology and autonomous, connected, electric and shared vehicle technologies.." under the High Quality Built and Natural Environment target area. The fundamentals of this proposal were identified in the BellevueSmart Plan: Planning for a Smarter City, which Council approved in 2017.

This proposal consolidates the former 090.16NA Community Network Connectivity CIP proposal with 090.19NA, with a revised title of Smart City Connectivity. The previously adopted proposal includes two major areas to support the vision on Smart City that supports to Bellevue's economic competitiveness brand:

- 090.19NA (G-38): Expand public Wi-Fi in parks, community centers, housing properties and business districts, which directly responds to Council's 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."

- 090.16NA (G-93): Provide resources to maintain the existing fiber optic infrastructure and address gaps and bottlenecks as opportunities arise while modestly funding replacement of the fiber network. The fiber optic network is used to connect City facilities, the Intelligent Transportation System and street light system and is a major component of the Connectivity and Transportation elements in the Smart City plan.

Rationale

Encouraging reliable, secure and robust communications infrastructure is the focus of this proposal.

Infrastructure Development: The 2017 Business Survey shows that 91% of businesses in Bellevue have internet access, with 80% of those reporting their current speeds meet their needs today, but only 64% believing it will meet their needs in the next 2-3 years. Robust infrastructure can strengthen community institutions, such hospitals and schools, that contribute to the city's brand as a smart, connected community and can be leveraged for public private partnerships when opportunities arise.

Community Development: Access to the internet, and the information and services it enables, is essential for the economic growth, job creation, education attainment, and better quality of life for Bellevue citizens. A Community Broadband Assessment conducted in December 2015 shows that 10% of the population does not have easy access to the internet, with this "digital divide" most pronounced along income and age demographics. Expanding public Wi-Fi in more locations throughout the City is a way to provide a connectivity safety net for students and low-income older adults. In partnership with King County Housing Authority and Bellevue School District, Wi-Fi can be added to KCHA housing properties to serve students and families. Wi-Fi can also enhance economic development in select business corridors and enrich community gathering spaces in parks, community centers and sports fields.

Regional collaboration and innovation are enabled through this proposal. Joint fiber projects through the Community Connectivity Consortium organization serving 26 public institutions, including Bellevue College, Bellevue School District and University of Washington, enables high speed connectivity to the internet and cloud providers. This supports Council vision on Economic Development, "We are a growing center for a broad range of technologies – including software, mobile communications, and medical devices and services." The existing IT Security Program is leveraged to address the emerging security risks of smart systems, including physical infrastructure risk assessments for these critical systems.

Environmental Impacts

None

Operating Budget Impacts

This program will have no significant impact on operating expenditures.

Project Map

Schedule of Activities



Project Activities	From - To	Amount
Project Costs	Ongoing	2,752,000

Total Budgetary Cost Estimate: 2,752,000

Means of Financing

Funding Source	Amount
General Taxes & LTGO Bond Proceeds	2,752,000

Total Programmed Funding: 2,752,000
Future Funding Requirements: 0

Comments