

October 5, 2015

CITY COUNCIL AGENDA MEMORANDUM

SUBJECT

Smart City Strategy Overview

FISCAL IMPACT

None

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POLICY CONSIDERATION

The development of a Smart City strategy was identified within the Bellevue City Council Vision. The following two-year priorities related to Smart City were included within target areas of the vision:

- Integrate our infrastructure planning with an economic development focus.
- Develop a Smart City strategy to include high speed data options to support businesses and residents and determine implementation steps.
- Identify and implement technologies that improve customer service.

The adopted Economic Development Plan also recommends a Smart City strategy as part of the foundational strategy to “Provide a business climate and infrastructure that facilitates desirable business investment.”

DIRECTION NEEDED FROM COUNCIL

☐ Action
☒ Discussion
☒ Information

Staff will provide an overview of the Smart City effort and seek input from Council at this early stage in developing a strategy.

BACKGROUND

On May 19, 2014 the City Council approved a 20-year vision for the city, including strategic target areas and two-year priorities. Within the Vision, Council described many features of a smart city:

- Infrastructure is ample and in excellent condition, including roads, rails, high-speed data, reliable electricity, and clean water.
- A state-of-the-art, intelligent transportation system moves people through the city with a minimum of wait times and frustration.
- 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.

- Our institutes of higher learning are connected physically and digitally.
- Our residents live in a safe, clean city that promotes healthy living.
- We have superb infrastructure to support growing businesses and desirable residential opportunities.

Staff have formed a cross-functional team to work towards the completion of the two-year goals identified in the vision, coordinate and complete other foundational steps to support future efforts, and engaged with external partners and stakeholders to begin forming a Smart City strategy. The intent is to set up a long-term strategic framework that allows the City to improve livability, sustainability and resiliency in a world that is increasingly digital, mobile, connected and urban. The complex reality of rapid technology advances and changing community needs requires coordinated efforts across the City's lines of service. A cohesive Smart City effort will support increased innovation, citizen involvement, economic vitality, and collaboration regionally with private and academic sectors.

The scope of the Smart City effort aligns with Council's vision and Economic Development Strategy. In order to support the development of a Smart City strategy, the following elements are being considered as a framework for leveraging emerging technology to improve safety, health and quality of life:

- Transportation – optimize mobility, safety and convenience with adaptive traffic system, smart street lights and transit choices, and prepare for a future of connected vehicles.
- Water – increase water utility services efficiencies with smart water meters, intelligent system controls and improved data enabling more predictive operations, and provide better, real-time information to customers.
- Buildings – increase building efficiencies with smart building systems providing information to owners to influencing how all buildings perform throughout the city.
- Energy – increase energy efficiencies and renewable energy generation throughout the city for greater resiliency.
- Public Safety – address public safety technology needs for mobile apps, predictive analytics, cameras, incident response management, and next-generation communications networks.
- Connectivity – provide communications connectivity for Smart City systems, while facilitating increased availability, competition and bandwidth of high-speed connectivity services for all residents and businesses.

Per Council's request, a Smart City Strategy will be completed by in 2016. The plan will respond to the following two-year Council priorities:

- Integrate our infrastructure planning with an economic development focus – departments should work collaboratively (*Target Area: Economic Development*)
- Develop the Smart City strategy to include high-speed data options to support business and residents and determine implementation steps (*Target Area: High Quality Built and Natural Environment*)
- Identify and implement technologies that improve customer service (*Target Area: High Performance Government*)

Staff will return to Council with an update as the strategy evolves and seek additional input at a future meeting.