Table: Elements of Smart City Strategy

	Future Picture	2017-18 Opportunities for Bellevue
Connectivity	 Increase internet access for all with expanded public Wi-Fi in select low-income housing, parks, and business corridors Enhance digital economy with high-speed, secure and resilient internet access Facilitate access to existing City infrastructure to encourage private sector investments and expansion of consumer services Integrate Smart City communications networks 	 Partner with private sector service providers to leverage existing infrastructure to enhance and expand services throughout Bellevue Expand Wi-Fi amenity where reasonable to enhance gathering places and ensure internet access for students Expand fiber optic network to enhance connectivity for public institutions Future-proof infrastructure for smart, resilient systems
Transportation	 Increase safety and efficiency with real-time performance monitoring of signal Increase energy efficiencies with City-owned LED streetlights managed for dimming, outage alerts and other controls Monitor performance of traffic signal system Improved dissemination of traveler information Integrate next generation transit signal priority technology Enhance emergency vehicle preemption for faster response Prepare for a future of connected vehicles and vehicle to infrastructure communications Real-time monitoring of on-street parking in Downtown 	 Stay current with quickly advancing vehicle technologies (connected vehicles, self-driving) and pursue grants and partnership opportunities to pilot and improve systems Continue leadership on regional transit projects on the Eastside to achieve multi-modal objectives Implement multi-national Vision Zero initiative to end traffic fatalities through enhanced monitoring of pedestrian and bike operations Expand fast-charging station infrastructure for EVs through regional partnerships Use ITS Master Plan update to develop technology projects that could be packaged for grant funding.
Public Safety	 Optimized response and efficiencies by integrating public safety and emergency response systems Predictive and preventive analysis to mitigate criminal activity Dedicated and resilient public safety communications networks Improved response times, accuracy, and effectiveness through regional partnerships and agreements Better situation awareness with common operating picture available for incidents and for EOC 	 Increase policing effectiveness and lower crime through use of predictive analytics and best practices, such as CompStat Patient info shared in real-time between EMS responders and hospitals Improve emergency management using Common Operating Pictures.

Water	 Advanced meters capable of providing customers with real-time water consumption readings and proactive leak detection SCADA and telemetry system provides real-time info, increased resiliency, and potential for predictive operations Integrated asset information systems (GIS and Maximo) and customer information systems to promote improved asset management. 	 Replace meters with advanced metering infrastructure (AMI) for greater efficiencies, better customer service and better operational insights Pilot detection of potential pipe breaks using acoustic technologies Integrate various information systems (GIS, Maximo, CIS) to improve field and emergency response activities Improve water quality in creeks using predictive operations on stormwater ponds
Buildings	 detect real-time faults that waste energy or cause security issues using building data analytics Continue partnership with PSE to expand Urban Smart to benchmark commercial buildings energy use and eventually benchmark water use Integrate building security systems with 911 so responders know exact issue before arrival to the scene Increase ability for building systems to automatically isolate issue before damage spreads 	 Conduct data analytics pilots Begin engagement on energy benchmarking for commercial buildings Support data sharing and transparency efforts through energy and greenhouse gas emissions dashboards and open data portal efforts Research and pilot net zero energy, net zero energy ready, and performance based building policies
Energy	 Smart energy meters provide daily readings for enhanced customer insights and to support conservation Smart Grid detects and restores faults in the system to enhance reliability Increase renewables and clean energy opportunities Monitor demand response programs to lower peak energy curves and balance grid EV car sharing to solve first-mile, last-mile problem 	 Upgrade and expand EV Charging station network Continue PSE collaboration on electrical reliability Continue programs and outreach to expand renewable energy Develop policies and targets for greenhouse gas emissions reductions, renewable energy, and energy efficiency Foster opportunities for micro-grid and district energy pilots Reduce barriers to net zero energy and water buildings