

MANAGEMENT BRIEF

**TO:** Mayor Stokes and Bellevue City Councilmembers

- **FROM:** Chris Long, Traffic Engineering Manager, 452-6013 Steve Marshall, Transportation Technology Partnership Manager, 452-4221 Daniel Lai, Senior ITS Engineer, 452-6178 *Transportation Department*
- **DATE:** May 15, 2017
- **SUBJECT:** Intelligent Transportation System (ITS) Master Plan Update and Integration of Transportation Technology Partnership Manager

The purpose of this Management Brief is to provide Council with an update on development of the ITS Master Plan Update. This brief also covers how the efforts of the new Transportation Technology Partnership Manager will be integrated into the ITS Master Plan Update.

## **ITS Master Plan Background**

In December of 2016 the Traffic Engineering group began work on an update of the ITS Master Plan that was originally prepared in 2004. The original plan helped define many of the ITS elements used in Bellevue today, including: placement of traffic monitoring cameras, replacement of the traffic signal system and layout of the fiber optic communications used to operate the ITS system.

Over the 13 years since the original plan was prepared, Traffic Engineering staff has been working hard to deploy many of the medium and high priority elements of that original plan, including converting the City's entire traffic signal system to an adaptive signal system – one of the first 100 percent adaptive signal systems in the nation. The ITS Master Plan Update will look to carry the ITS program forward through the next 5-10 years, identifying ways to integrate many of the emerging transportation technologies into Bellevue's multi-modal transportation network.

The ITS Master Plan Update is being completed through a combination of consultant and staff support. The scope of work for the update includes the following tasks:

- 1. Update the City's existing ITS inventory: Complete
- 2. Conduct a literature review to incorporate all other City planning efforts and news from latest industry developments: *Near completion*

- This effort includes a review of best practices from other nationwide deployments in emerging technologies such as Connected Vehicles, Autonomous Vehicles, Data Analytics and Smart Cities.
- 3. Conduct a needs assessment looking at technology to support the future goals: *In progress* 
  - Staff completed needs assessment workshops with internal stakeholders to discuss the areas in which ITS would improve the City's day-to-day traffic operations. In addition to day-to-day operations, this effort will also address needs associated with the deployment of next generation transportation technologies in the areas of safety, mobility, data management, business operations, traveler information, incident/construction/event management and communication infrastructure.
- 4. Utilize a public outreach process to identify future travel information needs: *In progress* 
  - To gain first-hand insight from Bellevue travelers, this effort will conduct two focus group meetings to understand the traveler information tools that would benefit the general public.
- 5. Develop a communication infrastructure plan that supports the future build-out of ITS in Bellevue: *In progress*
- 6. Update the deployment plan for future ITS implementation needs, including an estimation of staffing and operation and maintenance expenses.
- 7. Document all project findings and outcomes in a final report and presentation.

## Transportation Technology Partnership (TTP) Manager

As the budget for the 2017-2018 biennium was being completed, a proposal was raised within Council to create a new position to develop public-private partners in support of new transportation technology. This proposal was unanimously approved by Council in December and the new position was filled on May 1. The focus will be to bring local and national companies alongside Bellevue and other agency partners to develop projects and programs that can advance emerging transportation technologies in Bellevue and on the Eastside. This could include connected vehicle testing, piloting autonomous shuttles, first/last commute mile solutions, improved trip planning, smart cities initiatives, electric vehicle charging and more.

## Next Steps

The new TTP Manager is in the Transportation Department within the Traffic Engineering group. However, coordination of the TTP Manager's efforts will be done by a small interdepartmental team of individuals that can help support the primary facets of this position:

- Kate March Transportation Policy Advisor: Will support any interaction with regional partners in the review of policies and partnerships that support transportation technology.
- Chelo Picardal Chief Technology Officer: Will support integration with smart cities initiatives and evaluate project ideas from an IT perspective.
- James Henderson Director of Economic Development: Will coordinate outreach to local businesses.
- Chris Long Traffic Engineering Manager: Will help complete project proposals that support our multi-modal transportation network.

The TTP Manager will be spending the first 60 to 90 days on the job investigating opportunities for partnerships. This will include reviewing the ITS Needs Assessment findings and working with staff to identify other ideas that can support Bellevue. An external review of needs will also be done with local businesses, neighboring jurisdictions and regional partners. The goal is to identify projects or programs that can be integrated into the ITS plan and further developed so the City is ready to pursue future pilot and funding opportunities.

The ITS Master Plan Update will be complete by the end of the year. Our team will check back in with Council in late summer or early fall to share the findings from the Needs Assessment and from the TTP Manager's first 60 to 90 days of partnership investigation.