Moving More Merrily

Integrated Mobility Innovation Demonstration Program

Quarterly Report (CY2021 Q3)
TriMet Steps to MOD and MPI

Top Accomplishments of the Quarter

Provide a list of the top three accomplishments from your project in the quarter.

1. Mobility Performance Metrics Report detailed the key metrics to benchmark TriMet's performance as a mobility manager, and incorporated user input from a user story workshop.
2. UrbanLogiq was selected as the vendor to provide the Smart Mobility Platform.
3. Alpha Release of Smart Mobility Platform (SMP) with data from private mobility companies, census, ridehailing and transit.

Overview of Statement of Work Progress

Task	Task Name	Sub-Tasks	Status/Notes
1	Innovative Payment	1.1 Business Case for Integrated Payment 1.2 Expanding Open Payment 1.3 Expanding/Extending HOP Functionality 1.4 Improving access for the unbanked and underbanked	While we had planned to have a final draft of Subtask 1.1 Business Case for Integrated Payment, the internal and partner review cycles took an extended period of time. Given this, the FTA has not had the opportunity to comment on the write-up. We anticipate there will be feedback from the FTA requiring another revision before we submit the final draft for publishing, therefore, there may be a change to the milestone date in the future. All other tasks are proceeding on schedule.
2	Customer Experience	2.1 Customer communication around fare capping as a traveler incentives and rewards program	Subtask 2.1 Traveler Incentives and Rewards, Explore implementation of mobility loyalty and rewards program that allows redemption of earned credits for transit value.

		2.2 Incorporating Real-Time Incident and Congestion Information	Subtask 2.2: TriMet developers built a machine learning model to improve real-time vehicle arrival predictions. They documented their research process and findings in a technical memo (Reference Task 2.2 2021-09 ML Exploration Results).
		2.3 Partnering to Scale the City of Portland Transportation Incentive Program	Subtask 2.3 (Reference IMI_2.3_City of Portland Transportation Incentive Program Write-Up).
		2.4 System Integration	Subtask 2.4 Two areas explore the plan for system integration: Origin, Destination, Transfer (ODX) Model Notes (Reference Task 2.4 2021-07 ODX Models); and RealTime Crowding (Reference Task 2.4 2020-06 Crowding Integration).
3	Mobility Data	3.1 Define framework for assessing improvements in Transit Quality	3.1: TriMet worked with Fehr & Peers to compile a detailed list of Mobility Performance Metrics. Fehr & Peers produced a Mobility Performance Metrics Report (Reference Mobility Performance Metrics Report 7.26.21). Fehr & Peers held a user story workshop to gather input from key stakeholders on important metrics to be included (Reference AppC-Smart Mobility Platform Workshop).
		3.2 Mobility Analysis Benchmarks	3.2: Fehr & Peers reviewed numerous avenues for incorporating TriMet's GHG emissions as a mobility metric in the SMP. They produced a GHG Model Assessment Report (Reference GHG_Tools_Assessment_July2021) summarizing the findings and recommendations.
		3.4 Demonstrate framework for assessing improvements in Transit Quality	TriMet, IBI Group, and Fehr & Peers collaborated to draft a Request for Informal Proposals (RIP) for a smart mobility platform provider. The RIP was issued and UrbanLogic was selected. TriMet contracted with Urbanlogiq to design and implement a platform for calculating and visualizing mobility performance metrics.

			Urbanlogiq ingested TriMet and external data sources, developed an initial list of metrics and data transformation processes, and built and demonstrated the first version of its mobility metrics platform. A decision was made to release a Request for Information(RFI), prior to releasing a Request for Informal Proposal (RI) which caused a one-month delay in on-boarding the vendor, UrbanLogiq. This, in addition to staffing constraints, had an impact on finalizing the draft performance metrics and completing the data ingestion pipelines. However, a revised project completion date is not anticipated as we will absorb this in the demonstration phase.
4	Project Management	Updated project website	The public project website was released at https://trimet.org/imi/; and all required documents were delivered. The website was updated in September 2021 to reflect project progress to date.
		Project Management Meetings	We facilitated bi-weekly check-ins to review project progress, and participated in bi-weekly meetings on Task 3 mobility performance metrics implementation.
		Documents and deliverables	The following deliverables were completed: ● TriMet IMI STEPS to MOD & MPI Scope of Work ● TriMet IMI Exec Summary.docx ● TriMet IMI One-Pager ● TriMet_Scope_KeyPartner_Change_Question-Response_05.13.20 ● NelsonNygaard_LOC_5.12.2020 ● TriMet_IMI_LONP ● Completed Project Management Plan ● Completed Data Management Plan ● Completed Equity and Accessibility Plan
		Literature review to inform origin-destination inference analysis.	The literature reviews were completed and shared with the project team.

Major Activities Expected in the Coming Quarter

Key Activities Expected in the Coming Quarter:
- User testing and refinement of the Smart Mobility Platform based on feedback from TriMet staff
- Customization of the Smart Mobility Platform for specific transit planning tasks and queries
- For task 2.4, deploy standalone mobile app with user accounts and other innovative trip planning features, and test with a select group of TriMet staff and riders