

# STEPS to MOD & MPI

Integrated Mobility Innovation Demonstration Program

Quarterly Report (CY2022 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. Work on Task 1 subtasks/deliverables has restarted following staff hiring.
2. Finalized first iteration of prediction engine and published TripUpdate feed.
3. Made significant progress in integrating mobility performance metrics into the Smart Mobility Platform (SMP) executive dashboard.

## Overview of Statement of Work Progress

Task	Task Name	Sub-Tasks	Status/Notes
1	Innovative Payment	1.1 Business Case for Integrated Payment	Final draft submitted and awaiting feedback from TriMet Executive Management.
		1.2 Expanding Open Payment	The exploration write-up (McHugh-Maletz_IMI_1.2a&b_Open-loop Payment Solutions for Concession Fares and Monthly Fare Capping) was submitted to the Transit Open Payments Forum working committee (AMEX, VISA, MasterCard & Discover are all committee members). We are still awaiting feedback. TriMet will be requesting executive approval for tariff code changes and to add the project to the capability roadmap.
		1.3 Expanding/Extending HOP Functionality	TriMet has hired a new manager with plans to reinitialize a roadmap to implement Virtual Cards for Concession Fare and Institutional customers. Near term goals are to obtain executive approval for program.
		1.4 Improving access for the unbanked and underbanked	Per the documentation submitted in the exploration phase, this scope did not carry into the exploration phase.
			This status has not changed.

2	Customer Experience	<p>2.1 Customer communication around fare capping as a traveler incentives and rewards program</p> <p>2.2 Incorporating Real-Time Incident and Congestion Information</p> <p>2.3 Partnering to Scale the City of Portland Transportation Incentive Program</p>	<p>Working with IT Consultant to develop test plans and test cases for User Experience testing.</p> <p>IT has setup access to HubSpot for both Tracy and Brad</p> <p>Awaiting IT timeline in order to set-up our testing timeline</p> <p>TriMet retrained machine learning based prediction engine using historic data.</p> <p>Finalized prediction engine and published TripUpdate feed to TriMet hosted development URL. TripUpdate feed is generating predictions for a subset of routes to keep within computing resource limit.</p> <p>Completed validation of TripUpdate feed and made refinements to data structure.</p> <p>Began recording TripUpdate data in preparation for comparison/analysis.</p> <p>Continued testing of the RideShark TW test environment.</p> <p>The API License agreement is currently being reviewed by City of Portland attorney and TriMet attorney that we are working with is awaiting the final draft.</p> <p>Once the API License is signed by all parties we will then move to discussions on RideShark having access to TriMet Production environment in order to continue development.</p>
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		2.4 System Integration	<p>Working with Marketing to get high res Hop icons and setting up a meeting with PBOT to discuss verbiage on the TW app/site.</p> <p>Mobile app kick-off meeting with IBI Group and TriMet.</p> <p>Provided TriMet with access to ATL RIDES pre-production mobile app.</p> <p>Coordination on mobile app visual assets.</p> <p>Set-up mobile app OpenTripPlanner backend.</p>
3	Mobility Data	<p>3.1 Define framework for assessing improvements in Transit Quality</p> <p>3.2 Mobility Analysis Benchmarks</p> <p>3.4 Demonstrate framework for assessing improvements in Transit Quality</p>	<p>Completed workshops with TriMet stakeholders on Smart Mobility Platform (SMP) data workflows and use cases</p> <p>Completed an update to the OTP data pipeline format for integration into the SMP</p> <p>UrbanLogiq made progress on the SMP dashboard, incorporating format changes and integrating Hop and OTP metrics</p> <p>UrbanLogiq provided a scope and staging document for delivery of the SMP which includes four stages of product delivery. Stage 1 is the delivery of three key use cases – transfer analysis, high-level transit line analysis, and transit demand analysis - by mid-November. Stages 2-4 will be delivered by the end of the IMI grant in early 2023 and will enable different groups within TriMet to use the SMP in their day-to-day work with varying ways of querying the data and seeing insights.</p>

4	Project Management	Working group meetings  Quarterly Progress Reports	On track. Held weekly working group meetings with Urbanlogiq, Fehr & Peers and other project partners.  TriMet presented on its Smart Mobility Platform and mobility data initiative at the Oregon Modeling Users Group meeting.  On track
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## Major Activities Expected in the Coming Quarter

### Key Activities Expected in the Coming Quarter:

- Renewed progress for Task 1 supported by TriMet's Fare Systems Project Manager new-hire
- Moving HubSpot (automated email system that will encourage customers who are near their monthly fare cap to keep riding) to production
- Analysis of data produced by machine learning based vehicle arrival time prediction engine. Comparison to existing TripUpdate data and actual departure/arrival times from CAD/AVL system.
- OpenTripPlanner Mobile app review by TriMet staff and PLUS QA (app testing specialists)
- Delivery of Stage 1 of UrbanLogiq work plan. Will provide a working SMP with live data integration and stakeholder access for testing and feedback.
- Completion of a final Hop Origin/Destination/Transfer (ODX) inference model validation plan.