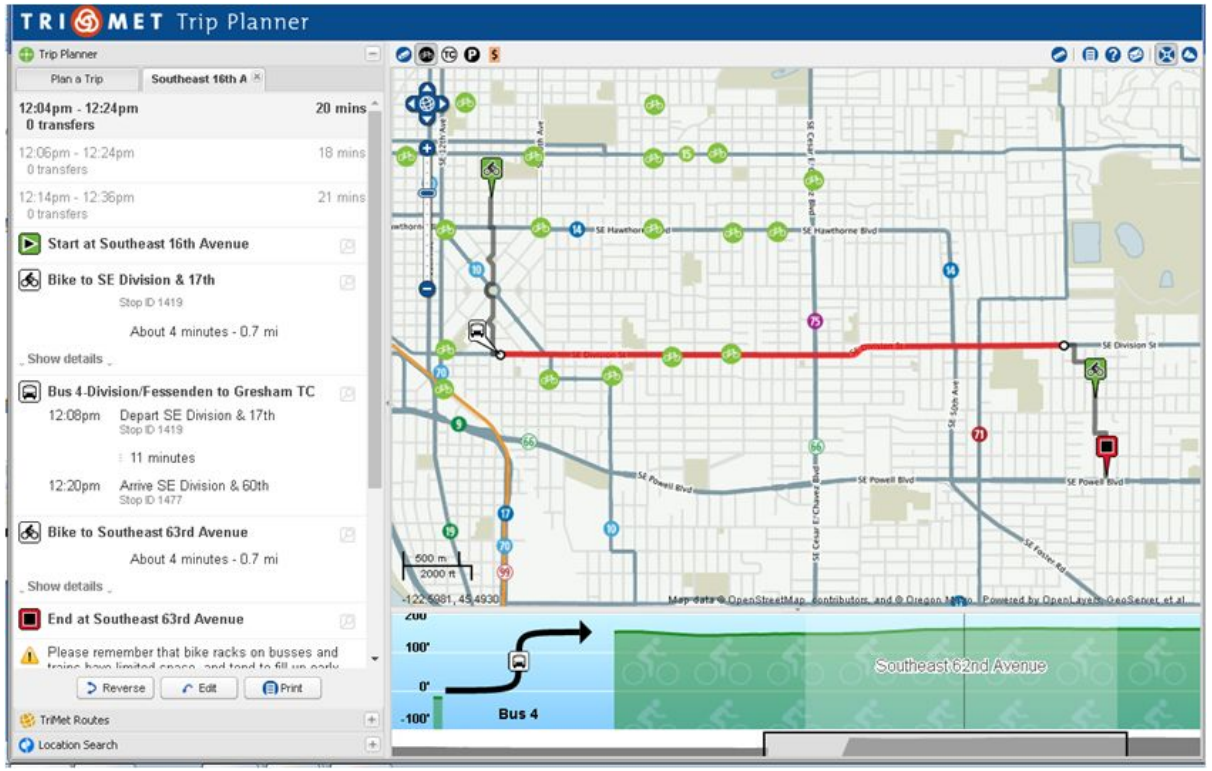
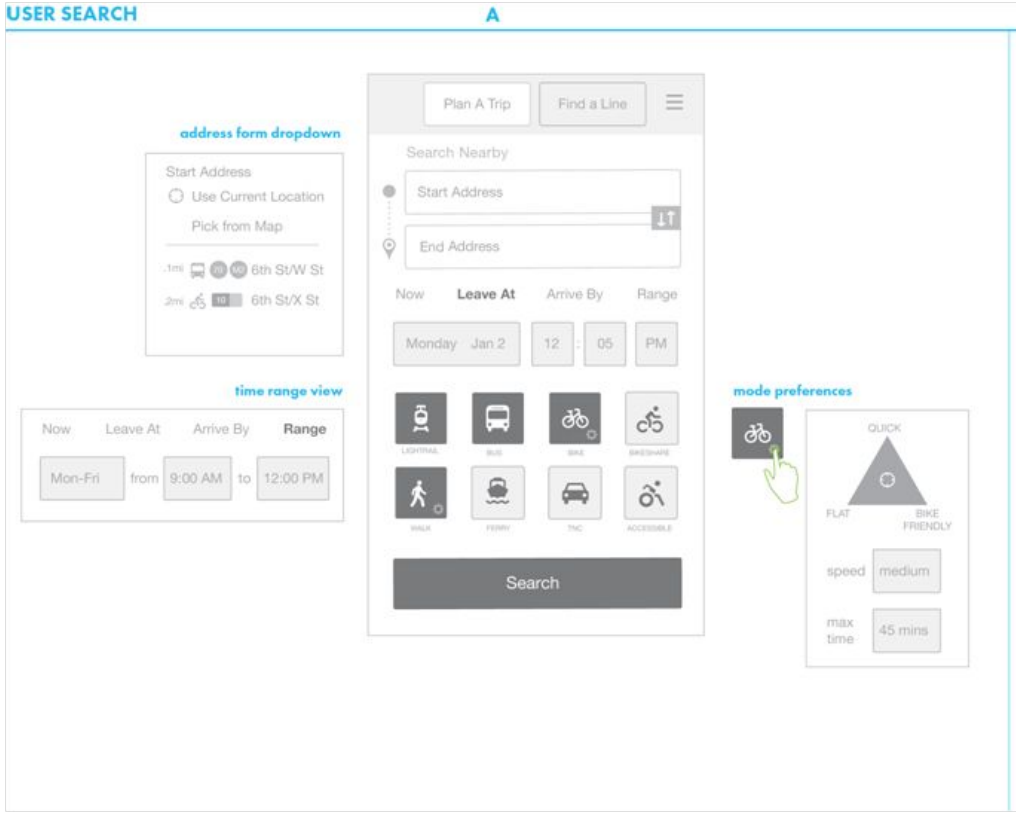
TriMet

Tri-County Metropolitan Transportation District of Oregon

2016 MOD Sandbox Grant Awardee

Bridging the gap to solve the last mile problem through technology, innovation and collaboration



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conveyal


MAPZEN


Metro


moovel


RTD


CITY OF PORTLAND, OREGON
1851


VERMONT
AGENCY OF TRANSPORTATION


PORTLAND
STREETCAR

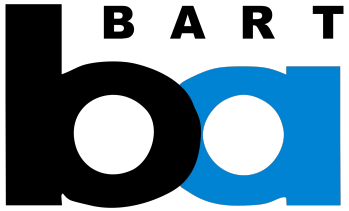

VTA


Metro

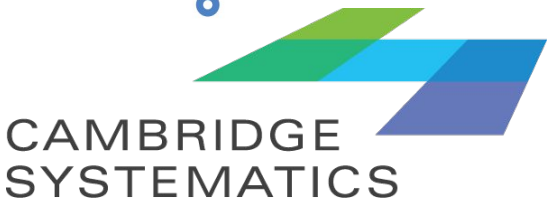

Trillium


lyft


UBER


BART


AC TRANSIT


CAMBRIDGE
SYSTEMATICS


BIKETOWN

Partnerships

- TriMet is the lead agency on this project, with IBI leading the coordination efforts.
- Conveyal is performing the design and technical development of the enhanced OTP application.
- Mapzen is performing the enhancements to the Pelias geocoder.
- Metro Data Resource Center is improving regional address data and supporting the geocoder framework.
- moovel will investigate an integrated payment plan
- Data is being provided by Lyft, Biketown, and Uber

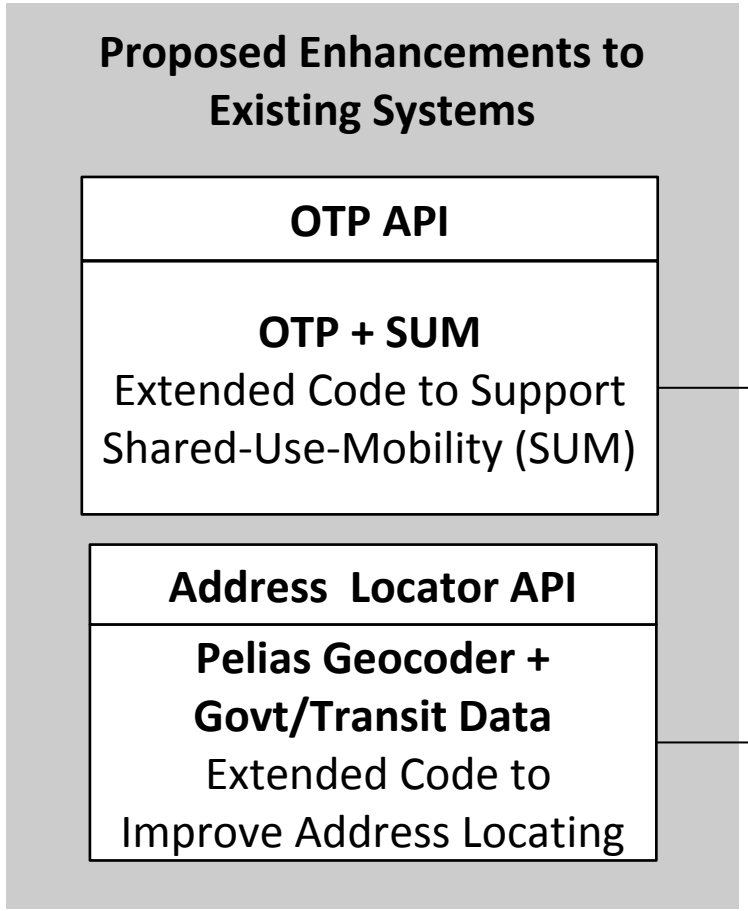
Project Approach

Enhancement of the OpenTripPlanner (OTP) and Pelias Geocoder

- Extend OTP code base as a foundation to support the integration of transit trip planning with shared-use-mobility modes and real-time information.
- Implement a fully functional and comprehensive open geocoder built off the existing Mapzen Pelias geocoder. A non-proprietary and non-restrictive option for address locating can achieve significant cost savings for transit agencies, government agencies, and the public.

Overview

TriMet's project includes the development and expansion of two core frameworks that the respective and future OpenTripPlanner (OTP) initiatives can be built upon, thus demonstrating how integrating transit with shared-use mobility modes can solve the last mile problem and produce replicable systems for agencies across the US.



OTP Routing Enhancements:

- ❏ Enhanced processing of real-time transit information
- ❏ Consumption of real-time bikeshare availability
- ❏ Support for TNCs (Transportation Network Companies) vehicle segments in trip planning
- ❏ Enhanced pedestrian/wheelchair narrative

Pelias Geocoder Enhancements:

- ❏ Implementation of a reference framework for government agencies to auto-feed their authoritative address data into a publicly accessible geocoding service.

Results

- ❑ Comprehensive trip planning application that provides options for door-to-door itineraries using combinations of different modes including shared use mobility modes
- ❑ Increased accuracy and match rate of addresses with the Pelias geocoder
- ❑ Plan and next steps for integrated payment

- **Replicable results with open source software, open data, open standards**

OpenStreetMap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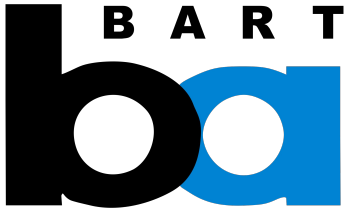
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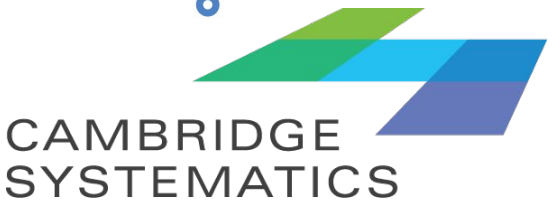
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Collaboration/Communication

Trello

slack

Google Drive