MOBILITY MANAGEMENT

Public & Private Service Providers Partnerships

Multimodal Trip Planning
MOD Sandbox
OpenTripPlanner

Integrated Payment

Customer Information
Open data, software, standards, real-time info, third-party apps

MaaS

MOBILITY MANAGEMENT
MOBILITY MANAGEMENT

- POLICY & REGULATIONS
- EQUITY & ACCESSIBILITY
- INCENTIVES & INFLUENCE
- FACILITIES & ON-STREET INFRASTRUCTURE
- DISPATCH, OPERATIONS, TRAFFIC MANAGEMENT
- LAND-USE PLANNING
- MODE MANAGEMENT AND INTEGRATION
Multimodal Trip Planner
BetaPlanner.trimet.org
Transit Trip

Real-time Information

Take Transit

Travel Preferences

- Maximum Walk: 3/4 mile
- Walk Speed: 1 MPH
- Optimize For: Speed

Option 1
- Time: 8 min
- Cost: $2.50 • 20 Cal
- 1 transfer

Option 2
- Time: 26 min
- Cost: $2.50 • 39 Cal
- 1 transfer

Option 3
- Time: 24 min
- Cost: $2.50 • 21 Cal
- 1 transfer
Transit + Uber Trip
Faster than Transit Alone

Map showing transit and Uber options.
Book Ride feature opens Uber & Lyft apps to confirm, book and pay
Transit + Park & Ride Trip
Home to Transit
BIKETOWN
Real-time Information, Biking Preferences

TRIMET
Take Transit

Travel Preferences

Option 1
- Essential Forces Fountain, Portland, OR, USA
- Walk 206 feet to NE Wheeler at Multnomah
- 2 min

5:22 pm

NE Wheeler at Multnomah
Pick up shared bike

5:20 pm

Walk 5 miles to NE Wheeler at Multnomah
- Bike-Friendly Trip
- Speed
- Bike-Friendly Trip
- Flat Trip

BICYCLE SPEED: 8 MPH

Available bikes: 7
Available docks: 10
Mapping Layers and Information
OpenTripPlanner is Multilingual
MaaS Platform for Plan-Book-Pay

MOBILITY MANAGEMENT

TECHNOLOGY

DATA
MOBILITY MANAGEMENT

- Frictionless Travel
- Subset of Smart City Initiative
- Policy and Regulations
- Mode Integration and Management
- Equity & Accessibility
- Paratransit
- Safety & Security
- Incentives and Influences
- Facilities and On-Street Infrastructure
- Dispatch, Operations, Traffic Management
- Landuse and Service Planning
- Private-Public Partnerships
• Integrated Trip Planning, Booking, Integrated Payments
• Integrated Demand Management
• Rail Operations Optimization Technology
  • Internet of Things (IoT) and Edge Computing Technology for more efficient, effective, and reliable service. Pilot underway with Siemens.
• Nextgen TSP, budget requested for next FY
• Connected Vehicle Technology, Streetcar Pilot
DATA

Requires: Data Standards, Policy, Open Data Licenses

- Customers
- Non-Riders
- OTP
- SOVs
- Ridership
- Travel Patterns
- Congestion
- Satisfaction
- Motivation
- Service

- Big Data & Big Analysis
- True Travel Pattern Modeling
- Third Party Data Aggregators
- Real-Time Integration
- Customer Data
- Measurements

Data Portal → Open APIs

Local Jurisdictions
Universities
Surveys/Pilots
Private Service Providers
Commercial
Mobility as a Service Objectives

1. Ease pressure on the transportation network
2. Improve customer experience by presenting transportation network as integrated system
3. Limit congestion, esp. during peak travel periods
4. Reduce car ownership, usage and vehicles on roads
5. Enable better traffic and capacity management
6. Use existing infrastructure more effectively
7. Cater to all travelers (age, disadvantaged, low-income)
8. Create model that supports funding of infrastructure
9. Lessen overall environmental impact of transportation
10. Work in driver-controlled & autonomous environment