Executive Summary

WHAT IS TSMO?

Intelligent Transportation Systems (ITS) and Transportation Systems Management and Operations (TSMO) are similar, but TSMO is the most current term and expands the scope of what we plan for beyond the physical infrastructure (ITS) to include process and system enhancements. The TSMO approach helps agencies realize the most value from their ITS investments.

Why Do We Need A TSMO Plan?
TSMO tools bolster our transportation investments by:

- Improving safety and mobility
- Measuring and managing performance
- Improving how people experience all types of travel, including walking, cycling, scooters, transit, and automobiles

> "Operations strategies and a mainstreamed Operations Program can effectively address Oregon's transportation challenges."
> —ODOT OPERATIONS PROGRAM PLAN, 2018

> "Changing technology, new information systems, connected and automated vehicles, fare payment methods, and new fuels and safety features can help public transportation be more efficient and easier for riders to use."
> – OREGON PUBLIC TRANSPORTATION PLAN, 2019

> "Plan, prepare for, and implement technologies (existing and new) that can affect transportation safety for all users, including pilot testing innovative technologies as appropriate."
> —OREGON TRANSPORTATION SAFETY ACTION PLAN, 2016

TSMO FOCUS AREAS FOR DESCHUTES COUNTY

Transportation Operations & Management
Actively manage transportation operations using Intelligent Transportation Systems, like new cameras, variable speed and message signs, upgraded signal hardware and software, a completed communications infrastructure, and automated performance measurement.

Traveler Information
Increase traveler access to real-time information that empowers decision making.

Incident & Emergency Management
Provide coordinated and integrated emergency response using shared data, automated real-time communications, emergency vehicle signal preemption, and scenario planning.

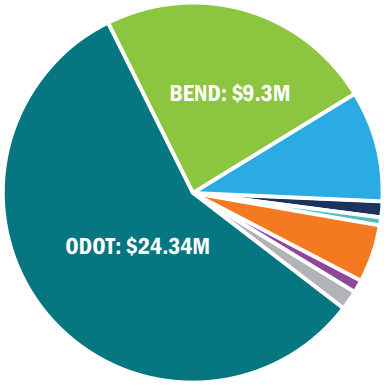
Data Management & Performance Measurement
Collect, analyze, and distribute data on traffic operations, safety, emergency response, and construction in a multi-agency regional data warehouse.

Maintenance & Construction Management
Reduce traveler frustration, increase safety, and manage congestion by using Smart Work Zone systems, enhanced communications, and infrastructure monitoring technology.

Public Transportation Management
Increase the attractiveness of transit by providing more reliable service, live transit-arrival times, automated payment, transit signal priority, and well-placed park and rides.

PROJECT COSTS

By Lead Agency



CASCADES EAST TRANSIT (CET): $3.9M

EMERGENCY RESPONDERS: $0.5M

BEND POLICE: $0.25M

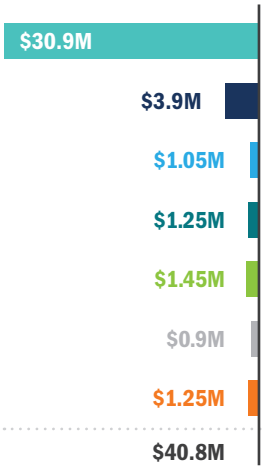
DESCHUTES COUNTY: $1.38M

REDMOND: $0.36M

SISTERS: $0.72M

TOTAL = $40.8M

By Category



TRANSPORTATION OPERATIONS AND MANAGEMENT

PUBLIC TRANSPORTATION MANAGEMENT

TRAVELER INFORMATION

INCIDENT AND EMERGENCY MANAGEMENT

MAINTENANCE AND CONSTRUCTION MANAGEMENT

DATA MANAGEMENT AND PERFORMANCE MEASUREMENT

PILOT PROJECTS

TOTAL

ITS STRATEGY	PROJECTS (BY LOCATION)				
	REGIONWIDE	DESCHUTES COUNTY	BEND	REDMOND	SISTERS
Safe and Smart Corridor		●	●	●	
Other Transportation Operations and Management	●	●	●	●	●
Public Transportation Management	●		●		
Traveler Information	●	●	●	●	●
Incident and Emergency Management	●	●	●	●	●
Maintenance and Construction Management	●	●	●	●	●
Data Management and Performance Management	●	●	●	●	●
Pilot Projects		●	●	●	

Stakeholders

Prepared by ODOT and the Bend MPO with input from the cities of Bend, Redmond, and Sisters, as well as Deschutes County, Deschutes County 9-1-1, Mount Bachelor, CET, United States Forest Service, and the Federal Highway Administration (FHWA).