

Innovative Procurement

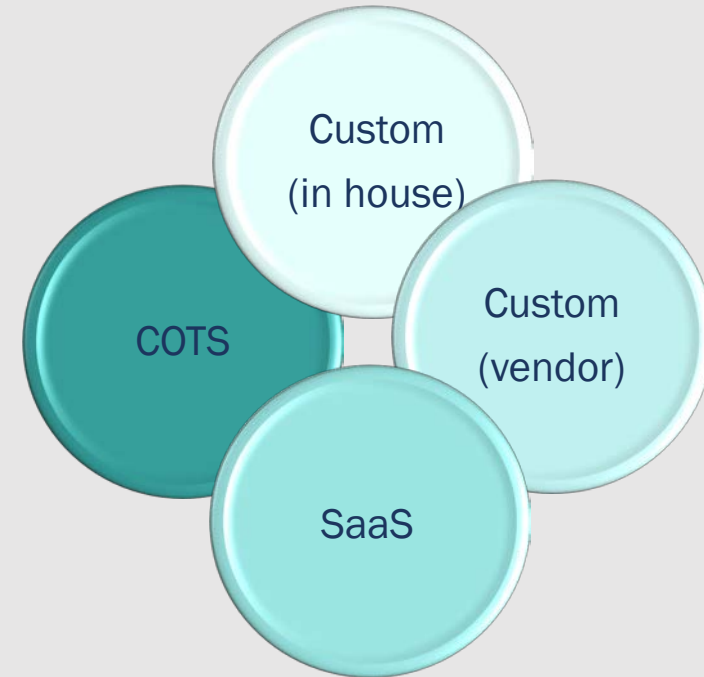
at



**Oregon
Department
of Transportation**

ODOT's "System Integrator" Model

- ODOT supports 40+ ITS applications:
 - ✓ Some systems are built and/or maintained by in-house staff
 - ✓ Some systems are custom developed by long-term partners
 - ✓ Other systems are procured from vendors as COTS or SaaS
 - ✓ Software applications from multiple vendors are integrated into a unified system



Collaboration with Oregon State University

- ODOT and IGA have worked together under an IGA for 10+ years
- Custom developed ATMS software: TOCS, INVIEW, TLE
- Semi-annual Maintenance projects for small functional enhancements and bug fixes
- 2-3 additional projects in flight annually to introduce new features and modernize back end functions (reduce technical debt)

Commercial Off The Shelf (COTS) Solutions

- Under the COTS model, ODOT procures software as-is, or as-is + customizations
- Example:
 - ✓ Southwest Research Institute's ActiveITS system and Response Plan System module

Manage Responses

21T000406 Chain Condition at 266 - 281 I-84 OLD OREGON TRAIL 006, Union

ATIS VMS Notifications

Activate Plan Terminate Plan Add DMS Add DMS Group Edit Item Remove Item Accept All Accept Selected Accept New Load Predefined Suggestion Get New Suggestion DMS Dist: 15 Create Ticket Maint.

Current Plan Suggestions Event: 21T000406 Plan: Inactive

Available Suggestions: 5 - Chains - I-84 EB (265-281 Ladd Canyon) Cond C

Device Details	Suggested Plan Message Details	A...	Action	Current...
<input type="checkbox"/> DMS I-84 MP263.56 EB (La Grande) [ODOT] Active	CHAINS REQUIRED TRACT TIRES ALLOWED UNDER 10K CHAIN UP AREA 2 MILES AHEAD		Add	
Continuous		3		
<input type="checkbox"/> DMS I-84 MP265.51 EB (La Grande) Drum Sign [ODOT] Active	SNOW ZONE CHAINS REQUIRED TRACTION TIRES ALLOWED ON VEHICLES UNDER 10,000 GVW		Add	
Continuous		3		
<input type="checkbox"/> DMS I-84 MP269.37 EB (Charles Reynolds RA Exit) [ODOT] Active	SNOW ZONE CHAINS REQUIRED TRACT TIRES ALLOWED UNDER 10000		Add	
Continuous		3		

Leveraging Software as a Service

- Model is being explored more frequently for both Enterprise and program level systems
- Offers more robust/mature platforms than in-house solutions
- Reduces strain on in-house application maintenance and network teams
- Examples:
 - ✓ Microsoft Azure: TripCheck API
 - ✓ Kinetic Signals - Signal Phase and Timing system. In process of transitioning from perpetual use license to SaaS model.

ITS Equipment & Services



- Oregon has several price agreements for ITS equipment and services that are used for project delivery
- Equipment and services are paid for by the project and are purchased outside of the construction contract

ITS Equipment & Services



- Variable Message Signs
- Camera equipment
- Advanced Transportation Controller (ATC)
- Network equipment
- Fiber optic materials, installation and testing
- Radar traffic sensors

Contact Us

Abby Smith

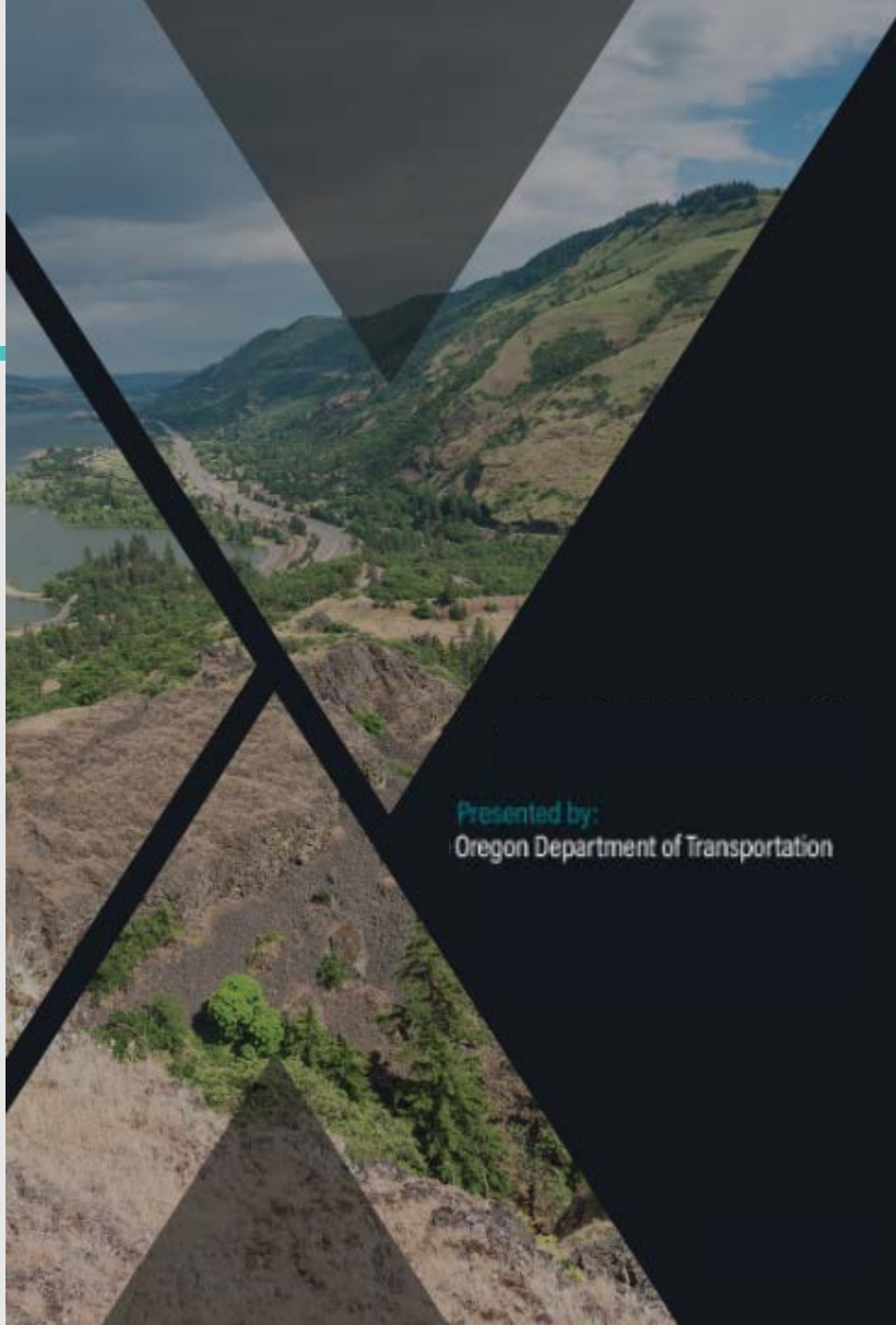
ITS Program Coordinator

abby.b.smith@odot.state.or.us

Galen McGill

Systems Operations & ITS Manager

galen.e.mcgill@odot.state.or.us



Presented by:
Oregon Department of Transportation