



USDOT SMART AI Sensors Grant Update – Stage 1

Intercity Transit Authority Meeting
January 7, 2026

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Outline:

- Grant Overview
- Project Goals
- Interlocal agency agreement
- Proposed technology
- Data Analytics
- Project Timeline

What is a USDOT SMART Grant?



- Purpose: Fund technology innovation to solve real world problems
- Funded by the Bipartisan Infrastructure Law
- \$100M annually for FY 2022-2026
- Public entities such as state DOT's, cities, counties, tribes, ports, MPO, transit agencies are eligible
- Two Stage Grant
- Stage 1 (Demonstration): Up to \$2,000,000
- Stage 2 (Implementation): Up to \$15,000,00
- Eligible Technologies: Connected and autonomous vehicles, smart sensors, smart signals, system integration



Intercity Transit/Lacey SMART Grant

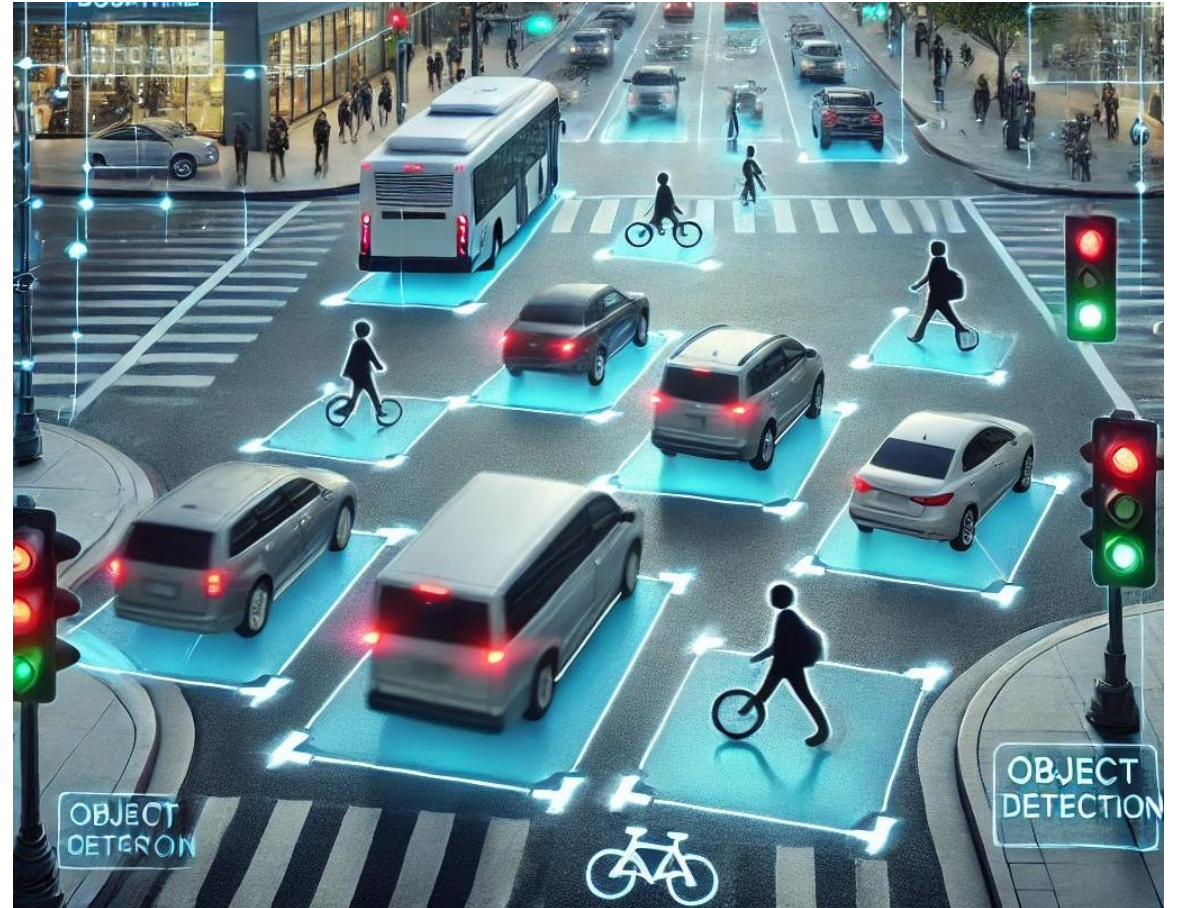
Install smart sensors at 10 intersections around the Lacey Transit Center and on Martin Way

Use AI analytics to track and identify bike, ped, transit and vehicle conflicts

Develop an integrated data warehouse and dashboard to manage systems, identify conflicts and report benefits

Goals

- Reduce conflicts and improve safety
- Optimize operations for all modes
- Scale technology for other corridors



Purpose of the Interlocal Agreement (ILA)

- Supports deployment of SMART Grant A.I. traffic sensors on Lacey owned facilities
- Enables installation, permitting, and support services provided by the City of Lacey
- Allows Intercity Transit to reimburse Lacey for eligible costs (up to \$40K/year)
- Establishes ownership and responsibilities:
 - Intercity Transit owns all sensors, hardware, and software
 - Intercity Transit responds to Public Information Requests
- Facilitates a pilot to evaluate multimodal performance and safety metrics (through Nov. 2026)

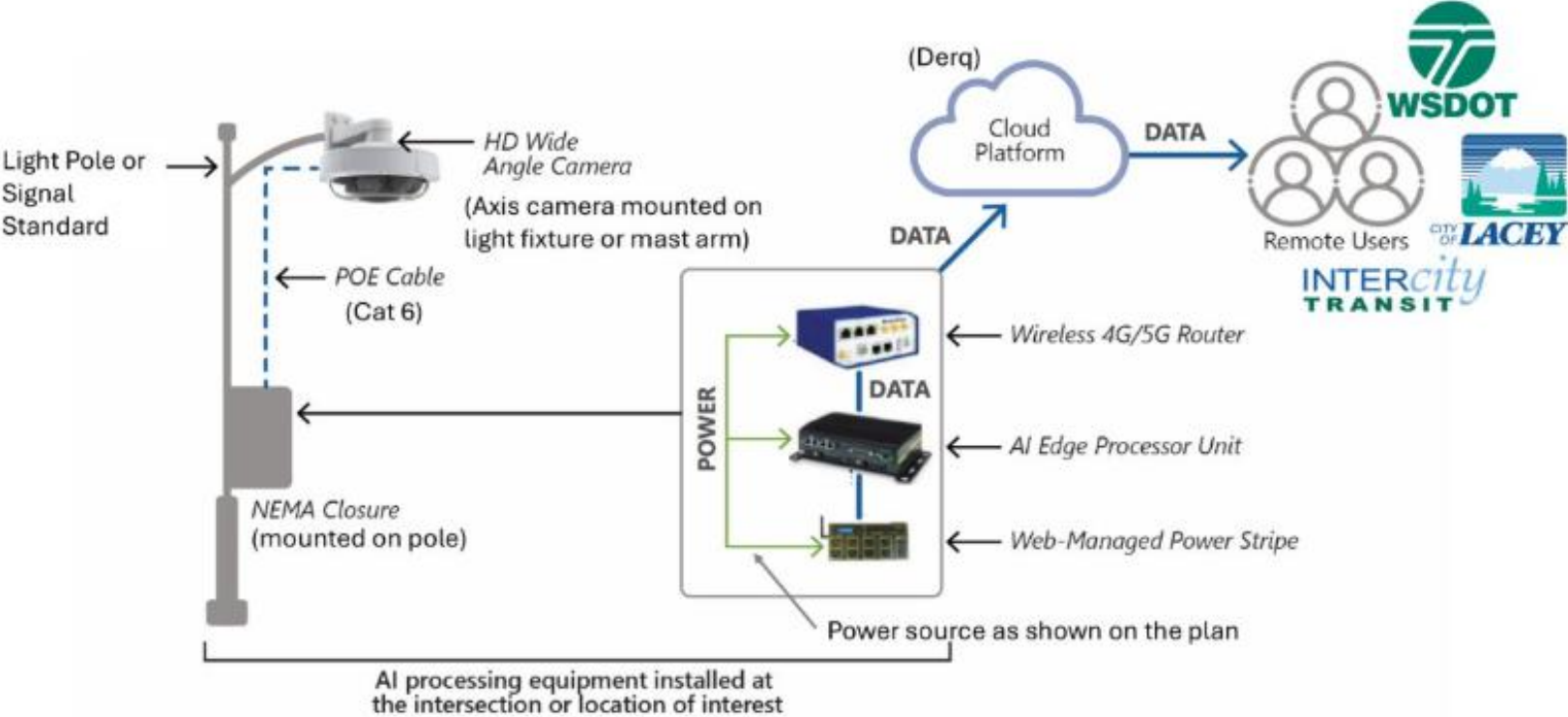
SMART Grant Demonstration Goals

- Is the technology accurate, efficient and reliable?
- What are the benefits of the technology?
- Is the technology scalable?
- Integrated Data Management and Analytics
 - Data warehouse provides a common repository for all data
 - Dashboard provides useful and meaningful data analytics
 - All agencies have access to the data



Smart Camera Design

Intercity Transit/City of Lacey SMART Grant – Concept Design for SMART Sensor Camera



Smart Sensor Cameras

- **What the AI Sensors *Do***

- Analyze real-time traffic activity using computer vision
- Support multimodal corridor evaluation and operational decision-making
- Feed summarized results into a centralized performance dashboard
- Provide data to improve safety, efficiency, and planning outcomes

- **What the AI Sensors *Do Not Do***

- Do not function as traditional surveillance cameras
- Do not capture personally identifiable information
- Do not track individuals, license plates, or faces



Sample image from the 360 fisheye cameras for the SMART

Example: Vehicle-Ped Near Miss Event



City of Seattle

Event ID : 68ebd97d9e758b001265601a

Location
MLK & S Columbian Way

Detected on
10-12-2025 09:38:17 AM

Detection Area
Intersection Center



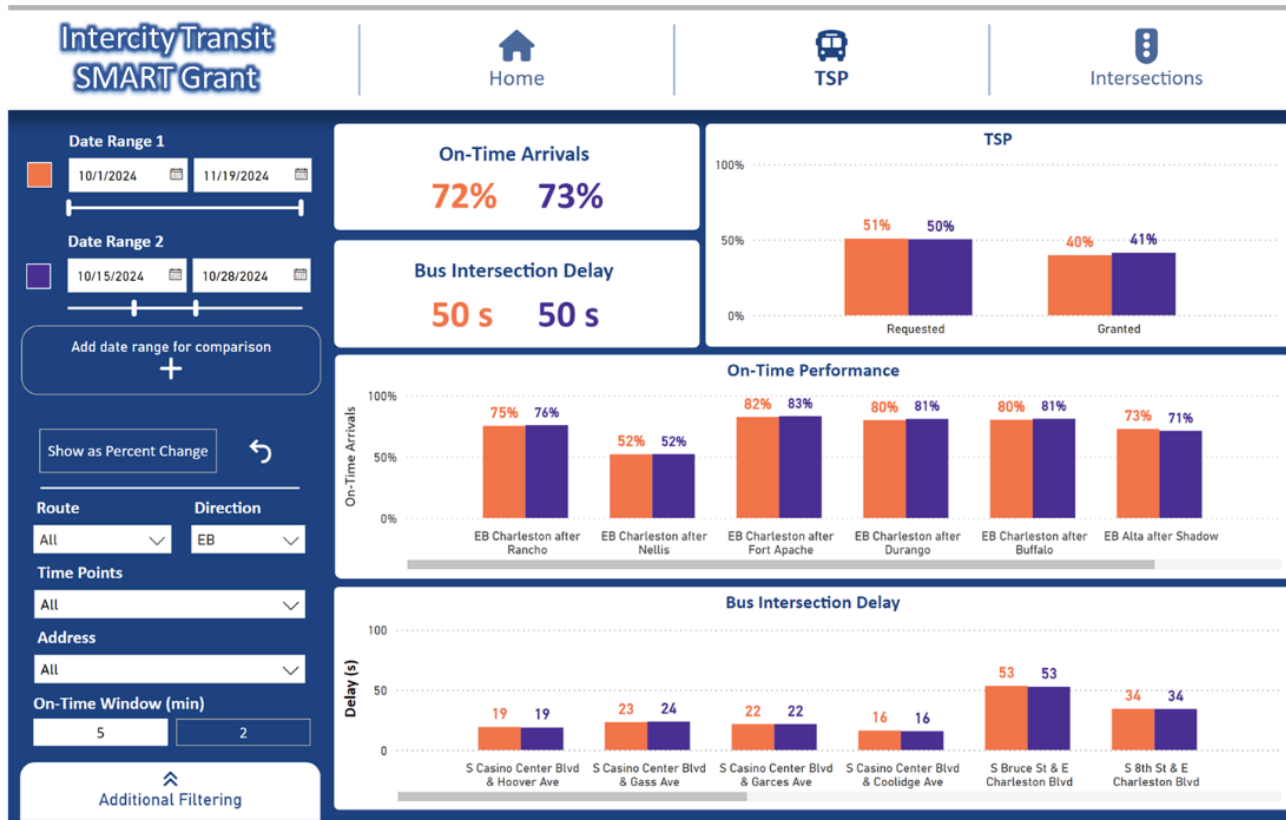
Road User A
Class: Passenger Vehicle
Speed: 23 mph
Movement: LT
Direction: NWB

Road User B
Class: Passenger Vehicle
Speed: 10 mph
Movement: TH
Direction: WB

Example: Vehicle – Vehicle Collision Event

City of Seattle

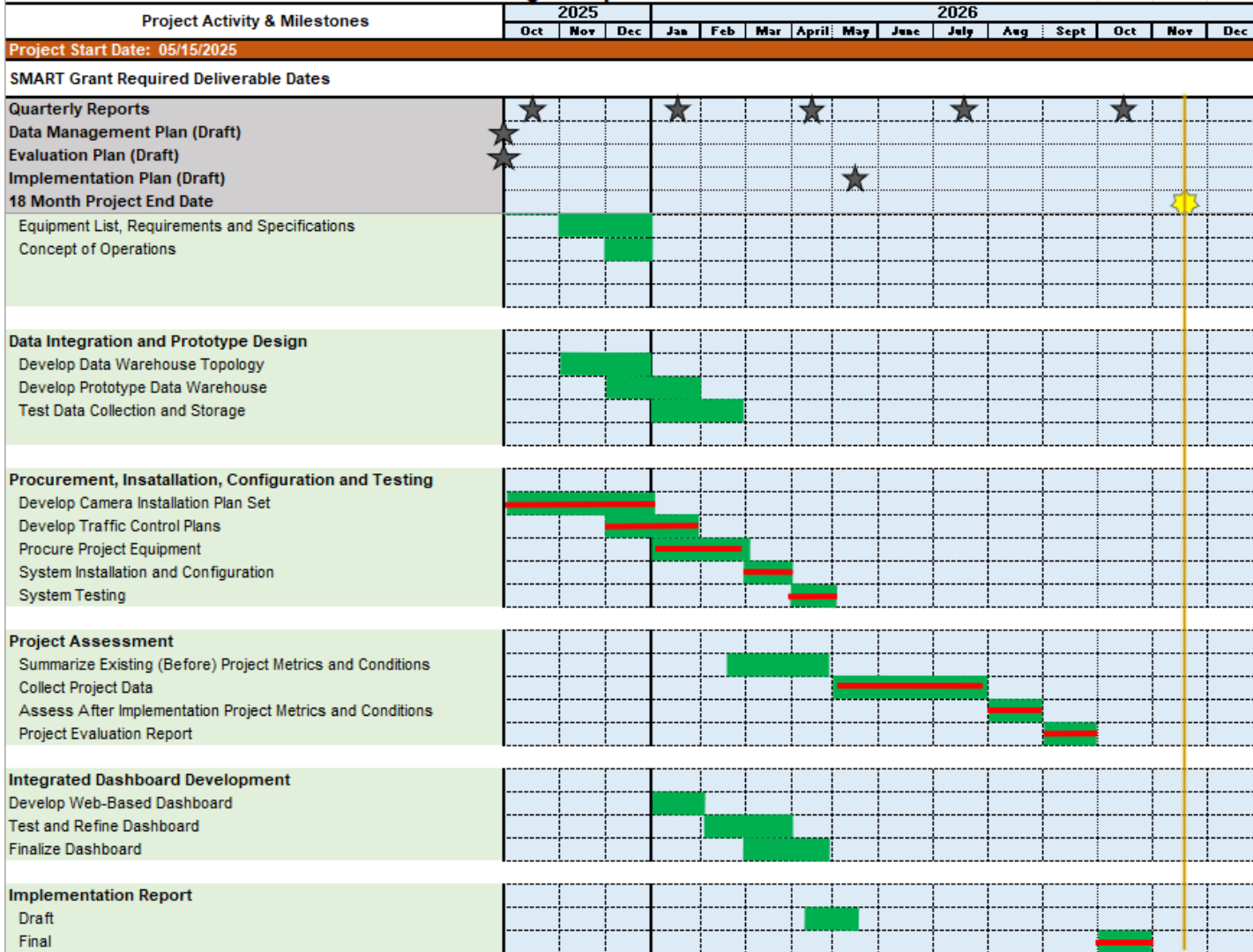
Data Evaluation and Analytics – Dashboard Analytics



How the Dashboard Supports Decision-Making

- Highlights on-time performance and where reliability breaks down
- Shows intersection delay by location and direction
- Tracks TSP requests vs. grants to evaluate priority effectiveness
- Allows before/after comparisons to measure improvements
- Helps identify hot spots for operational or safety interventions
- Supports data-driven planning and grant reporting
- Provides a pathway toward corridor- and system-level metrics over time

USDOT SMART Grant Stage 1 Implementation Schedule



SMART Grant Stage 1 – Implementation Timeline Overview

- **Project Start Date:** May 15, 2025
- **Project Duration:** 18 months
(Target Completion: November 14, 2026)

All AI smart sensors and related equipment will be purchased via the State Contract and are 100% funded by the SMART Grant—no local funds required.



Any Questions

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