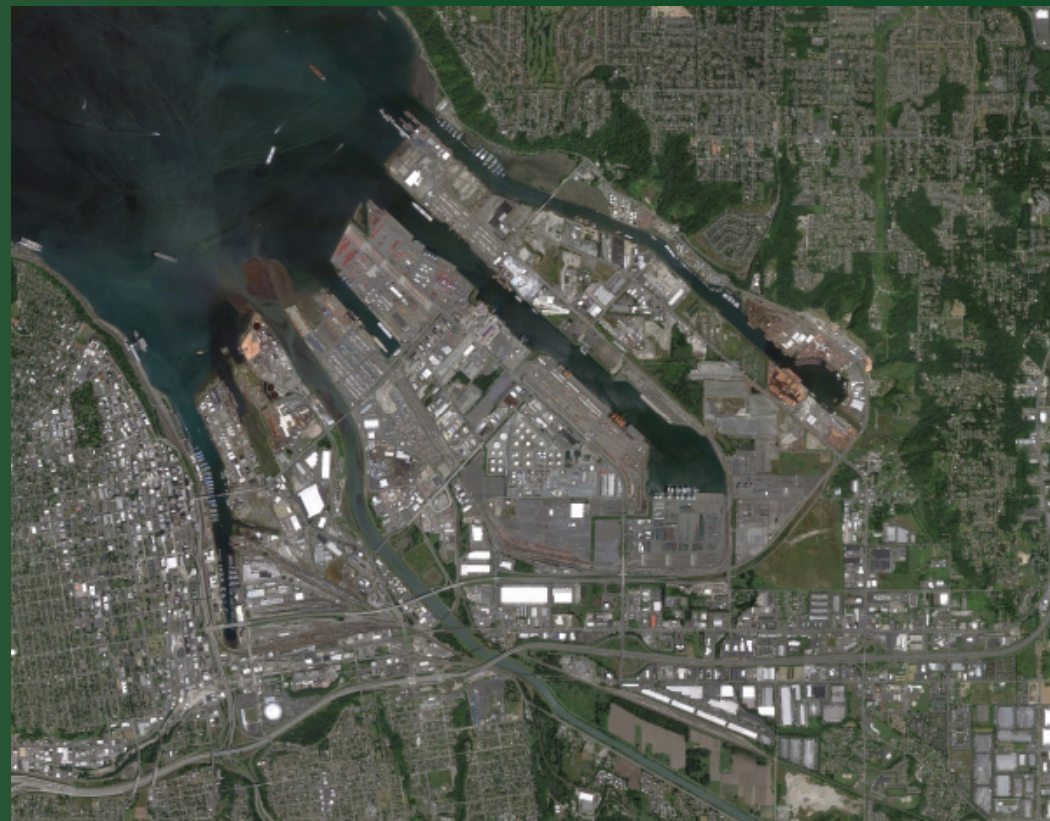


# Emergency Response and Intelligent Transportation Systems Study

Study Status Update  
October 29, 2014



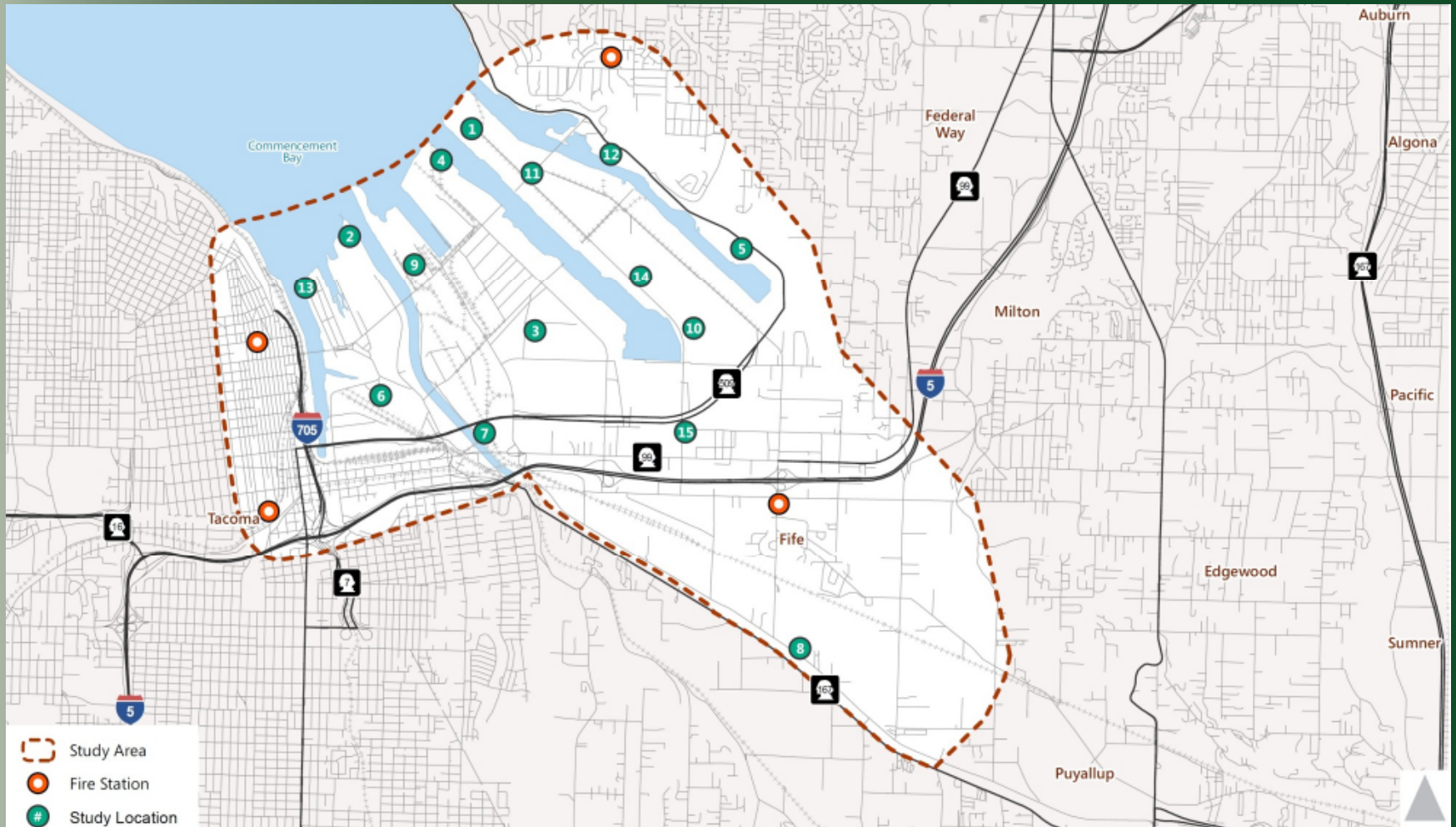
## Agenda

- Introductions
- Study Locations Review
- Emergency Response Analysis Status
- Land Use and Roadway Network Assumptions
- Intelligent Transportation Systems Overview
- Study Schedule

## Recap of Study Progress

- Draft list of study locations revised to 15 locations
- Response types defined for each location
  - Fire
  - ALS
  - HazMat
  - Technical Rescue
- Confirmed transportation projects for 2020 / 2035
- Confirmed planned development in Tideflats

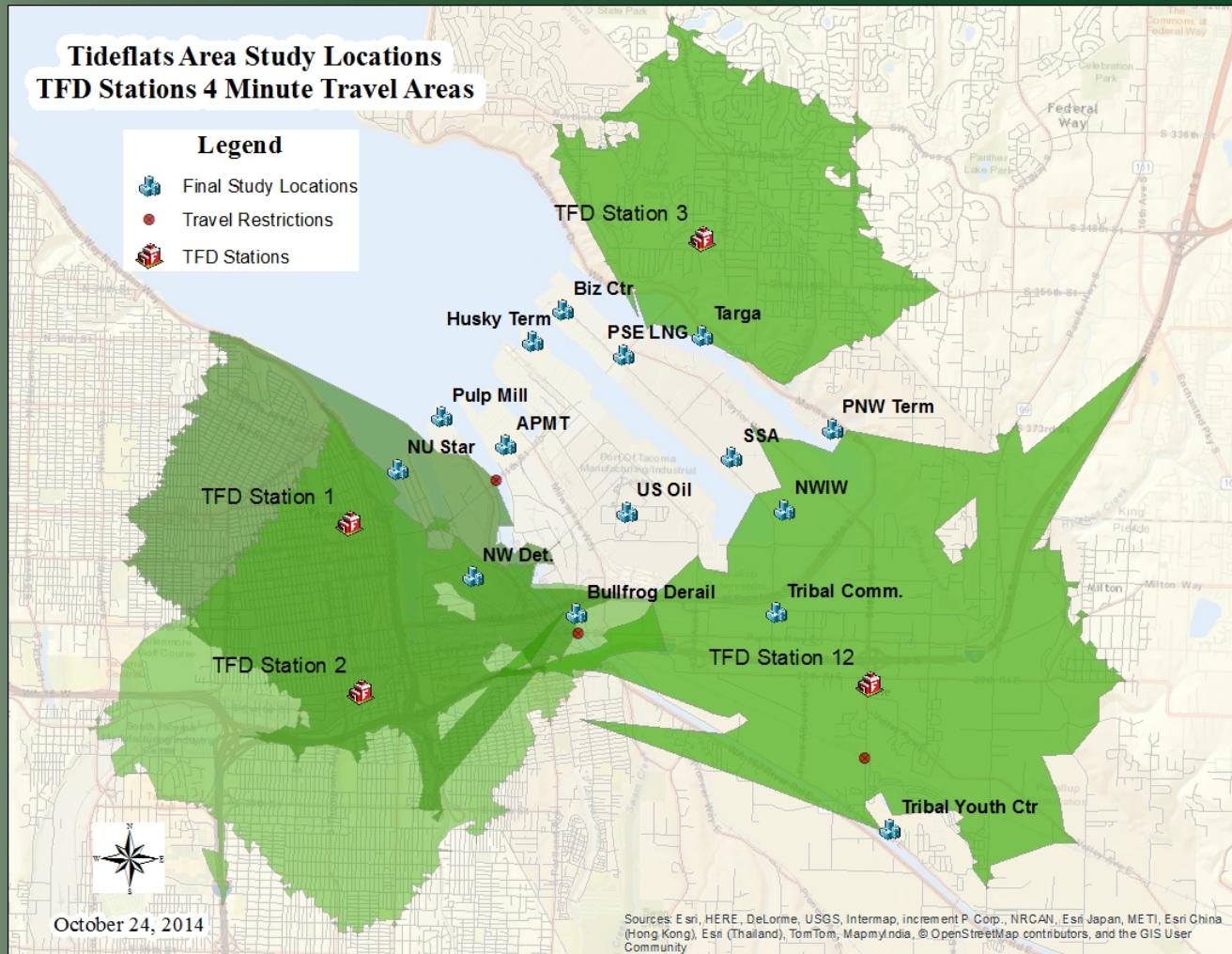
# Study Locations



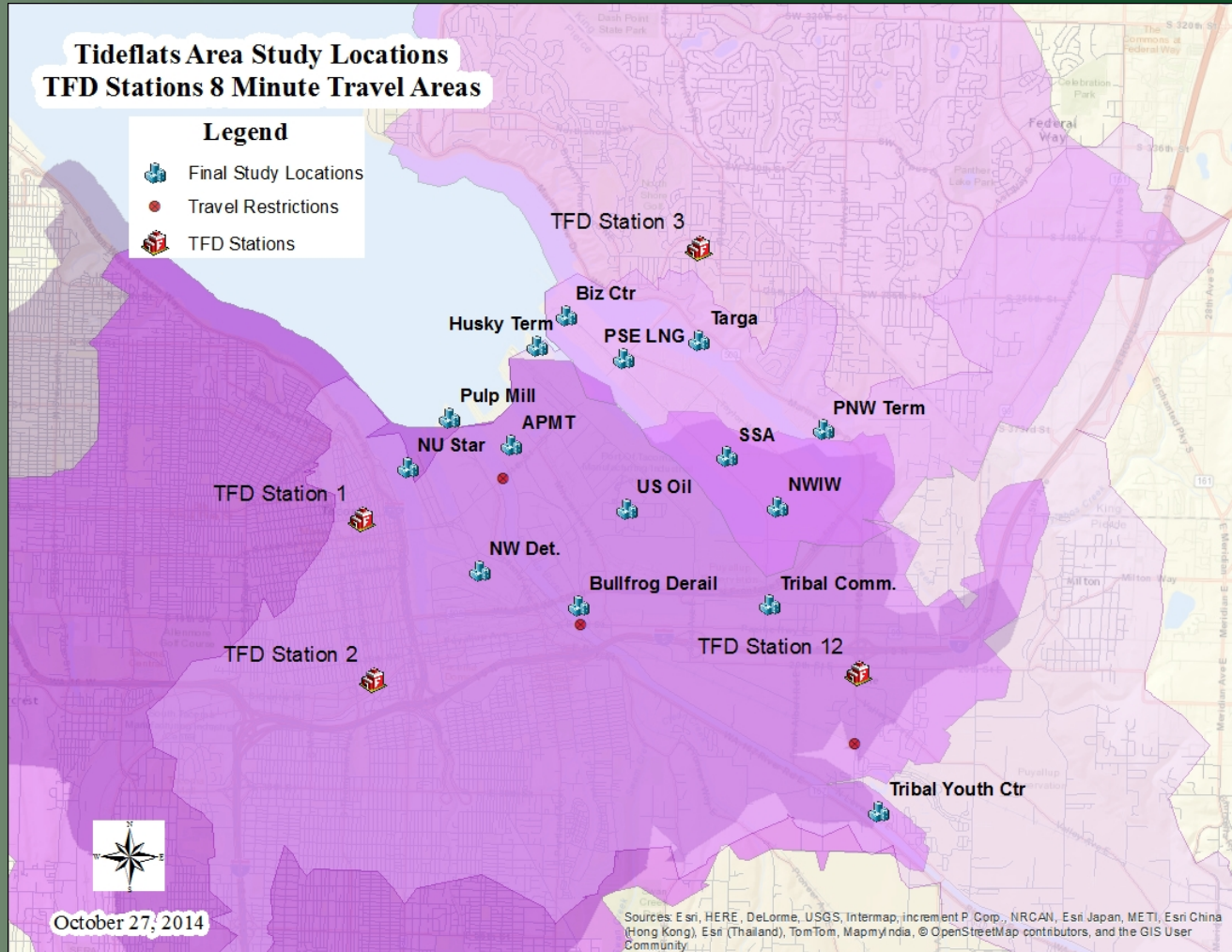
## Study Locations and Response Type

ID	Location Name	Fire	ALS	HazMat	Tech Rescue
1	Earley Business Center	4	4		4
2	Simpson Kraft Paper Mill	4	4	4	
3	US Oil and Refining Company	4	4	4	4
4	Husky Terminal & Stevedoring	4	4	4	4
5	PNW Terminal	4	4	4	4
6	NW Detention Center	4	4		
7	Bullfrog Junction	4		4	
8	Puyallup Tribal Youth Center	4	4		
9	APM Terminals	4	4	4	4
10	NW Innovation Works	4	4	4	
11	PSE Liquefied Natural Gas Plant	4	4	4	
12	Targa Sound Terminal	4	4		
13	NU Star Energy	4	4		
14	SSA Terminal	4	4	4	4
15	Residential Tribal Community	4	4		

# Emergency Response Analysis – Existing Conditions



# Emergency Response Analysis – Existing Conditions



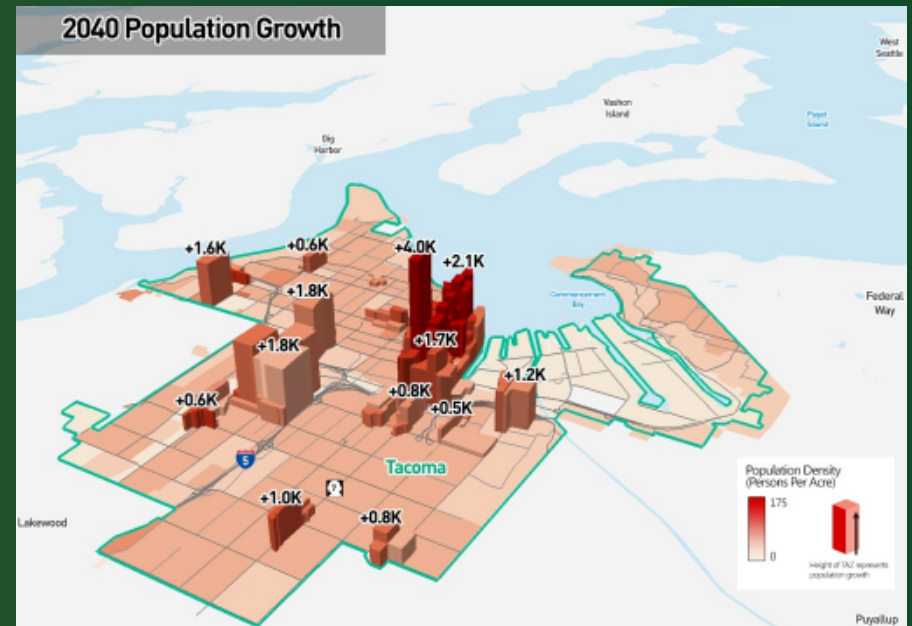
## **Emergency Response Analysis – Visit Summary**

- 15 study locations
- Department interviews
- Port Security

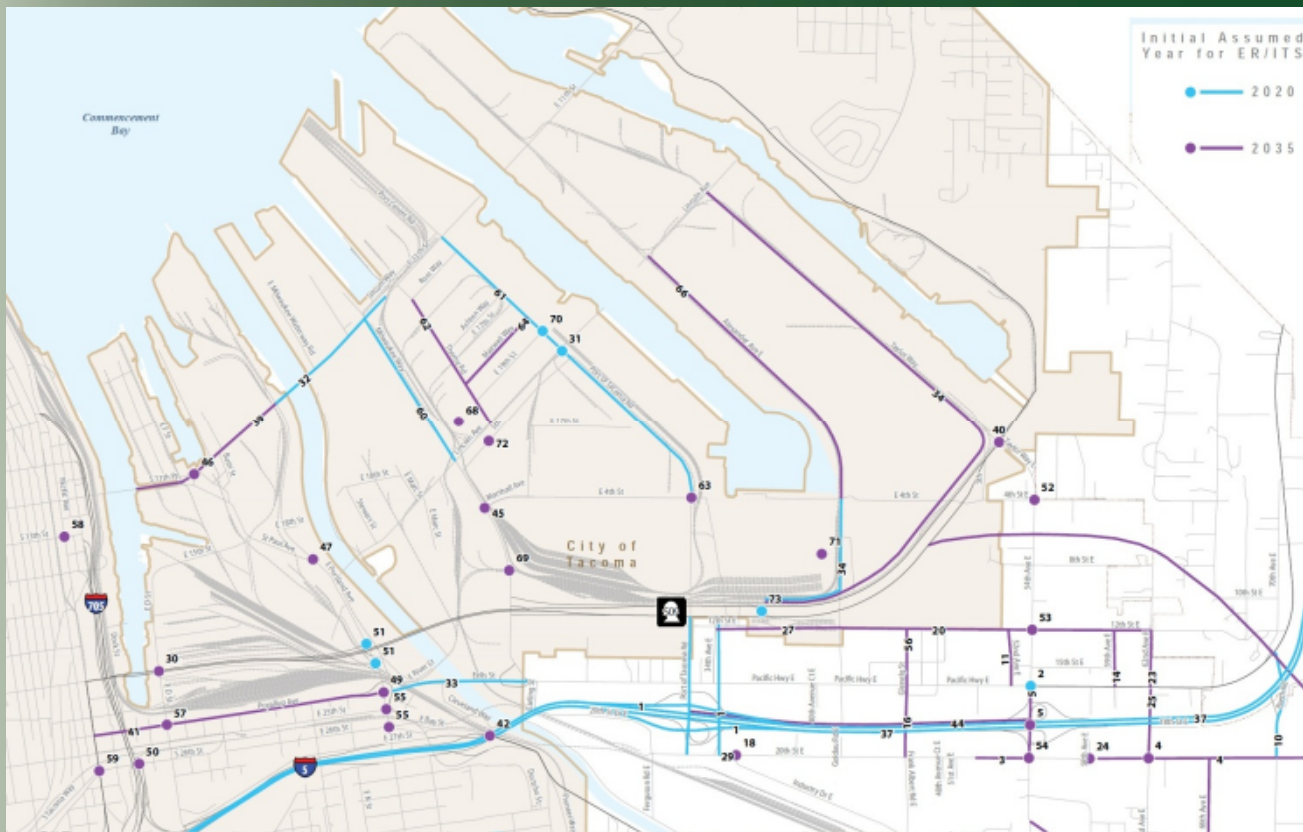


# Land Use Assumptions

- 10,400 additional jobs forecast for the Tideflats area by 2040
- Minimal population growth
- Based on updated land use allocations



# Roadway Network Assumptions



## Key 2020 Projects

- Port of Tacoma Rd Interchange
- Portland Ave off-ramps from SR-509
- Milwaukee Way vacation
- HOV lanes along I-5
- Puyallup Avenue bridge
- 11<sup>th</sup> Street viaduct to be tested for sensitivity

## Notable 2035 Projects

- SR-167 connection
- D Street ramps
- 54<sup>th</sup> Avenue Interchange
- Street vacations at Alexander and Maxwell

## Intelligent Transportation System

- Goals and Needs of ITS implementation
- ITS Strategies:
  - Information Management
  - Traffic Management
  - Incident and Emergency Management
  - Commercial Vehicle Operations

## Information Management

### Data Collection and Communications

- Physical infrastructure
- Closed Circuit Television (CCTV)
- Vehicle detection and classification
- GPS real-time
- Data sharing
- Center-to-Center integration
- Data storage



## Traffic Management

### Traveler Information

- Variable Message Signs (VMS)
- Congestion mapping
- Highway/Rail Coordination
- Speed Management
- Video Enforcement
- Terminal Wait Times



## Traffic Management

### Operations and Maintenance

- Signal control software/hardware
- Signal coordination
- Adaptive Signal Control
- Emergency Vehicle Pre-emption
- Variable Speed Limits
- Reversible Lane Operations



## Emergency and Incident Management

- Data and video sharing (Police, Fire, Port, WSDOT, City, etc.)
- Emergency vehicle automated routing
- Flood and other warning systems
- Emergency Response Plans
- Disaster response and evacuation



## Intelligent Transportation System Goals and Needs

- What current transportation or emergency response issues could be addressed with ITS?
- How do you want ITS to function?
  - Infrastructure
  - Roles and Responsibilities
  - Agency Coordination
  - Implementation and Funding
  - Operations and Maintenance



## Study Schedule

- Next meeting
- Future emergency response analysis
- Stakeholder outreach
- ITS Plan development