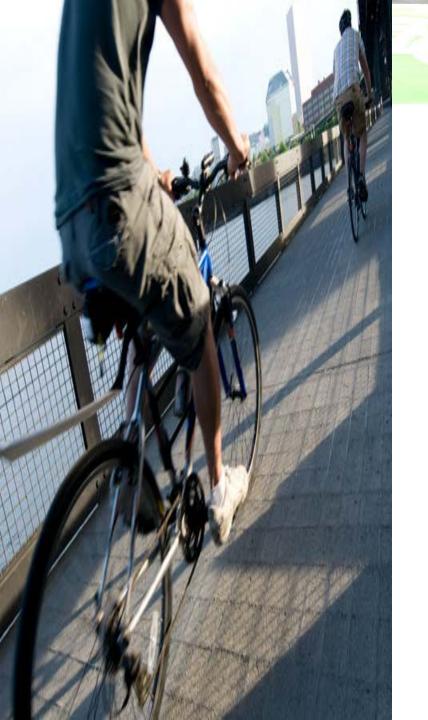


#### Overview

- Role at the city & current ITS projects
- Impacts of technology on transportation planning
- Education of young professionals
- Anything else



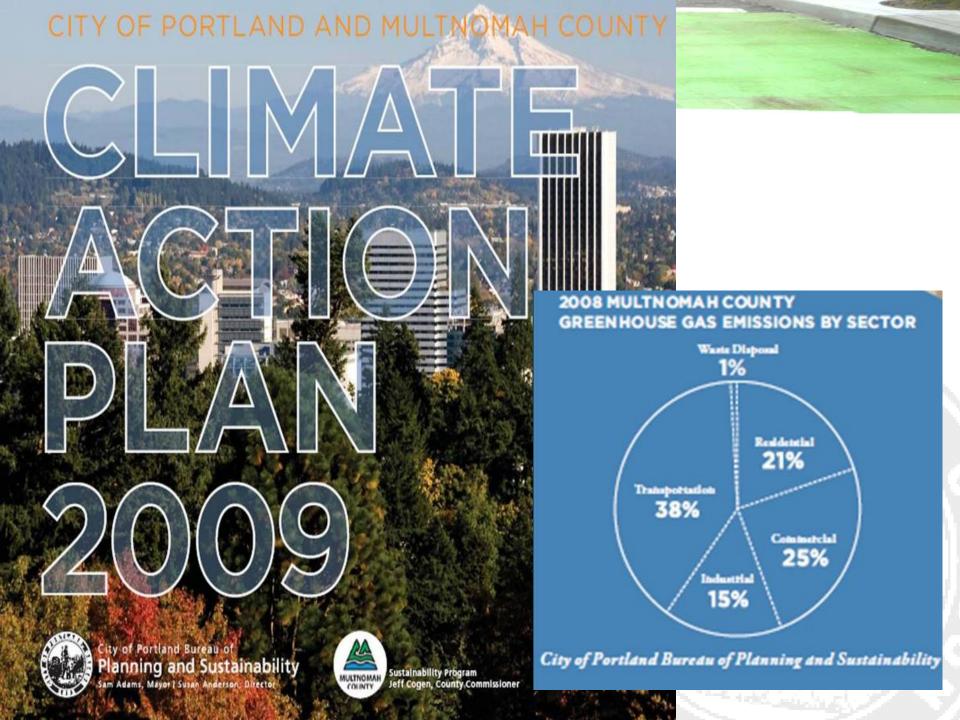
#### **Portland**

"Our intentions are to be as **sustainable** a city as possible"

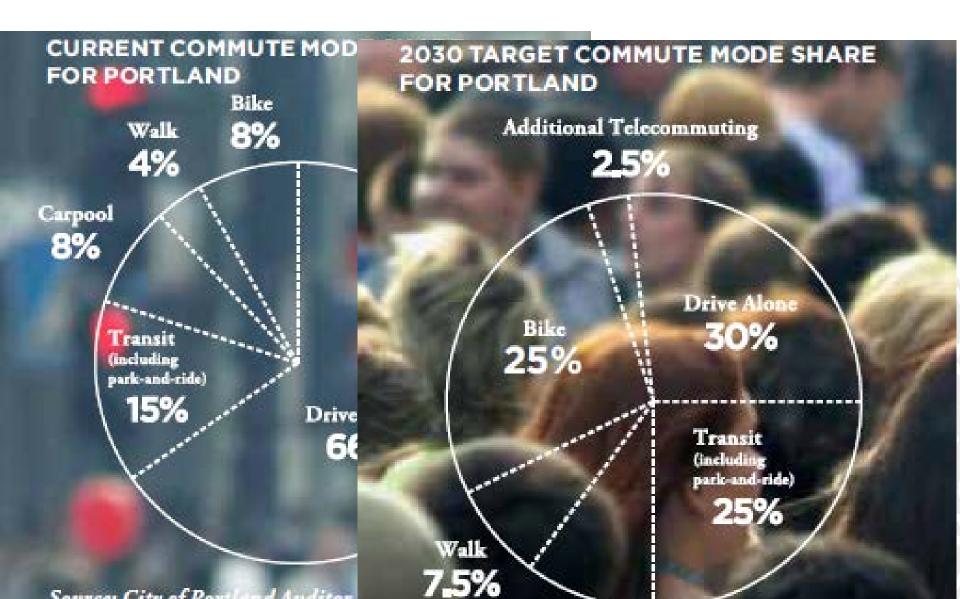
Social

Environmental

Economical

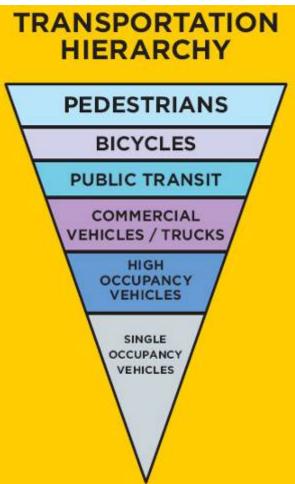


### **Mode Split Targets**

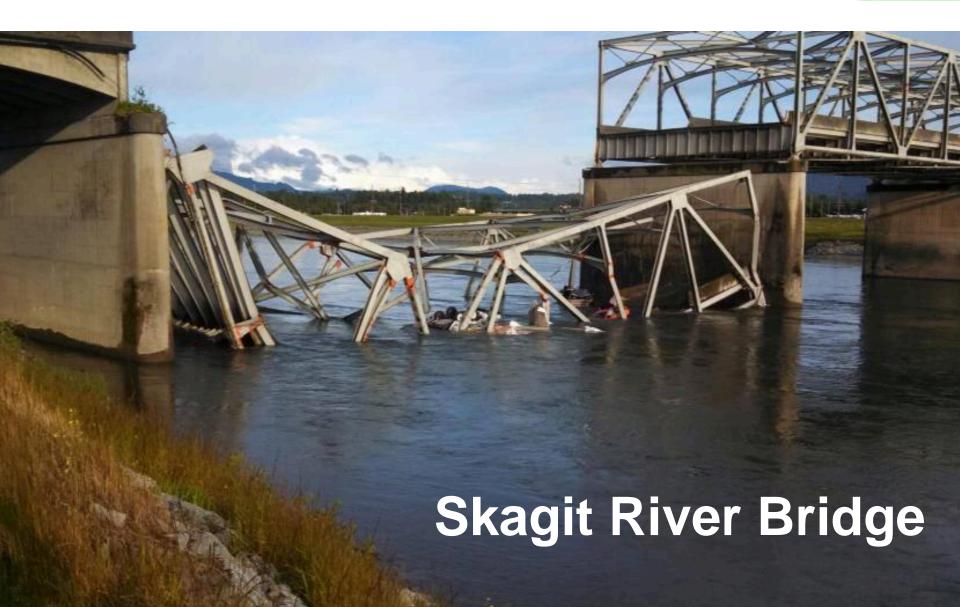


## **Transportation Hierarchy**





### **Definition of Failure**





### City of Portland Role

#### Manage the City's assets

- Traffic signals
- Street lighting
- ITS devices
- People

#### Problem solve all of the above

- Limited budgets
- Assess technology problems
- Policy analysis

### **Current ITS Projects**

- Citywide signal controller replacement
  - 1,080 traffic signals
  - Controllers and/or software
  - Communications to support ethernet
  - Wireless
- Regional central signal system update
  - Shared system with several agencies
  - Last updated in 2002

### **Current ITS Projects**

- Signal Priority for Bus "Reliable" Transit (BRT)
  - 80 traffic signals
  - Connected vehicle technology
  - "Smart City" aps?
- Railroad crossing upgrades
  - Upgrading 40 year old technology
  - Limited awareness of importance

# **Technology & Planning**

- Limited link between technology & planning
  - Regional: it is a separate Subcommittee of the MPO
  - Local: mixed bag
- Smart City Challenge
  - Technology evolved to political
  - Planning became more involved

### **Educational Needs**

- What's effective in Engineering curriculum
  - Problem solving
  - Geometric design
  - Traditional civil engineering
- What's lacking in Engineering curriculum
  - Multimodal transportation
  - Political
  - Technology