

Transportation Trends and Challenges

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for

Oregon Transportation Plan Update

Kick-off Meeting

February 13, 2004



Population
Economy
Freight Trends
Passenger Trends
Environment
Safety
Funding
Sustainability

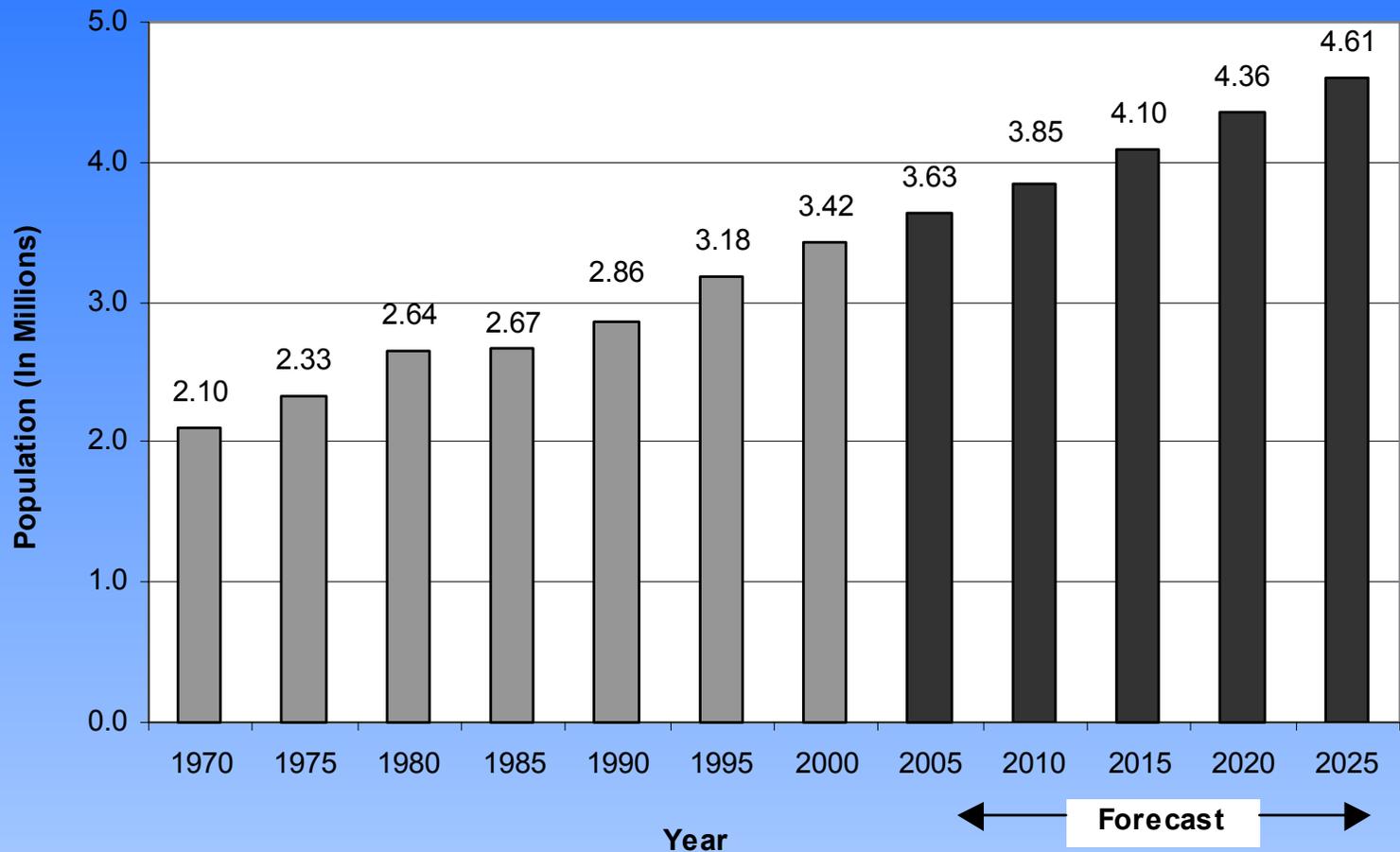


Population Trends

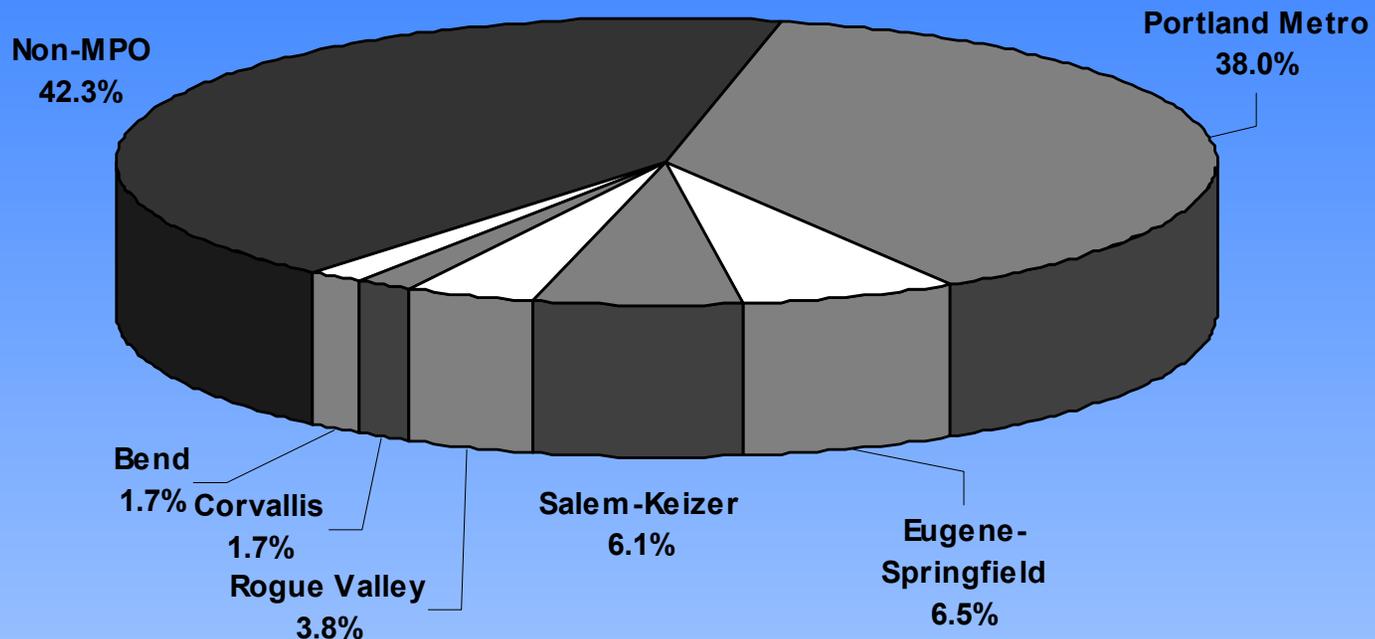
- We're growing
- We're more concentrated
- We're more ethnically diverse
- We're older



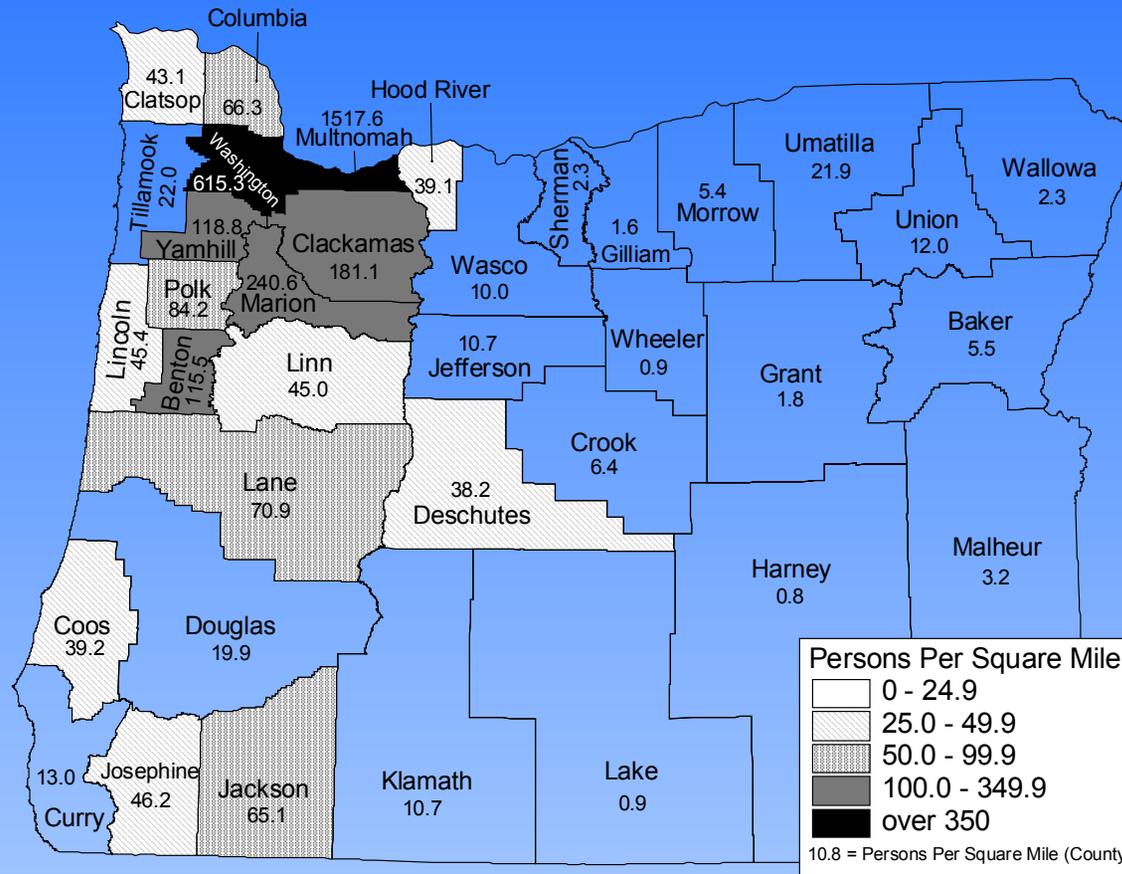
Trends in Oregon's Population



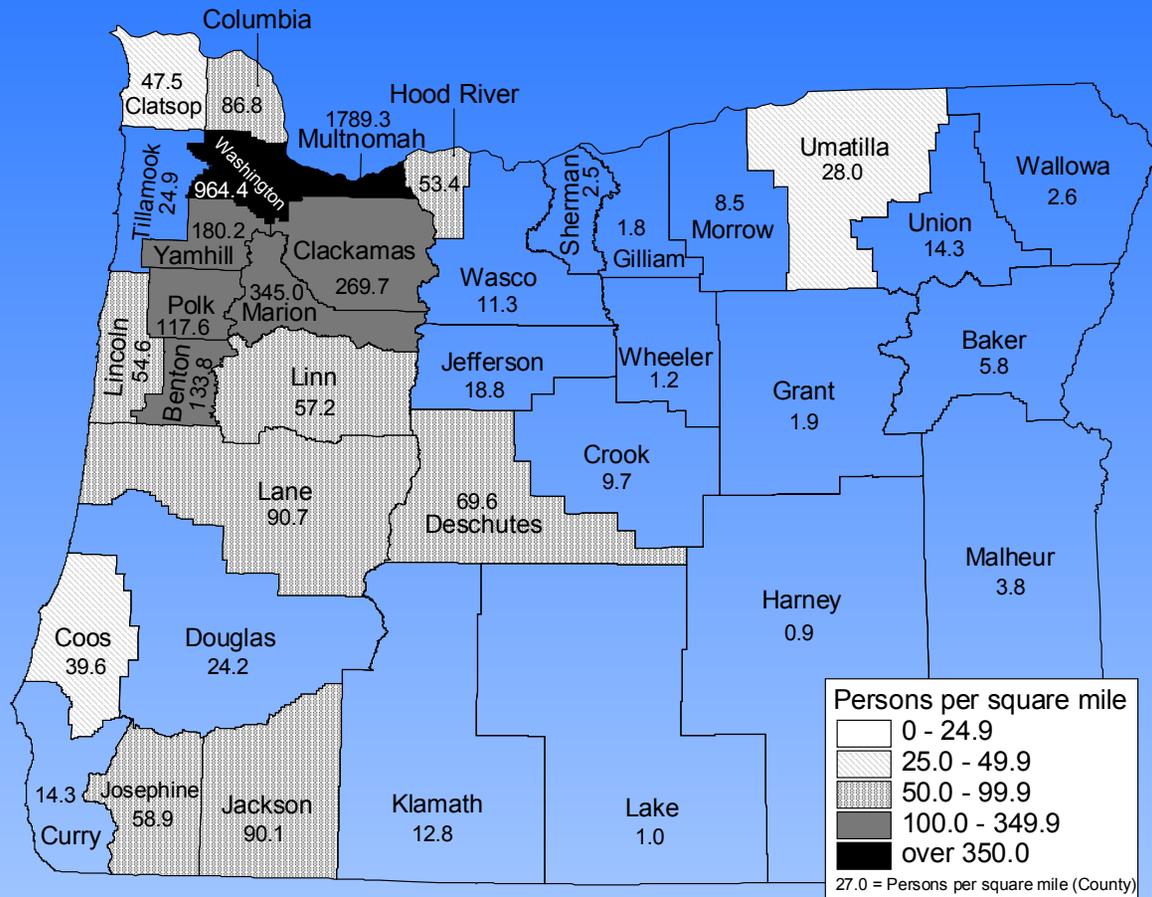
Population Distribution 2000



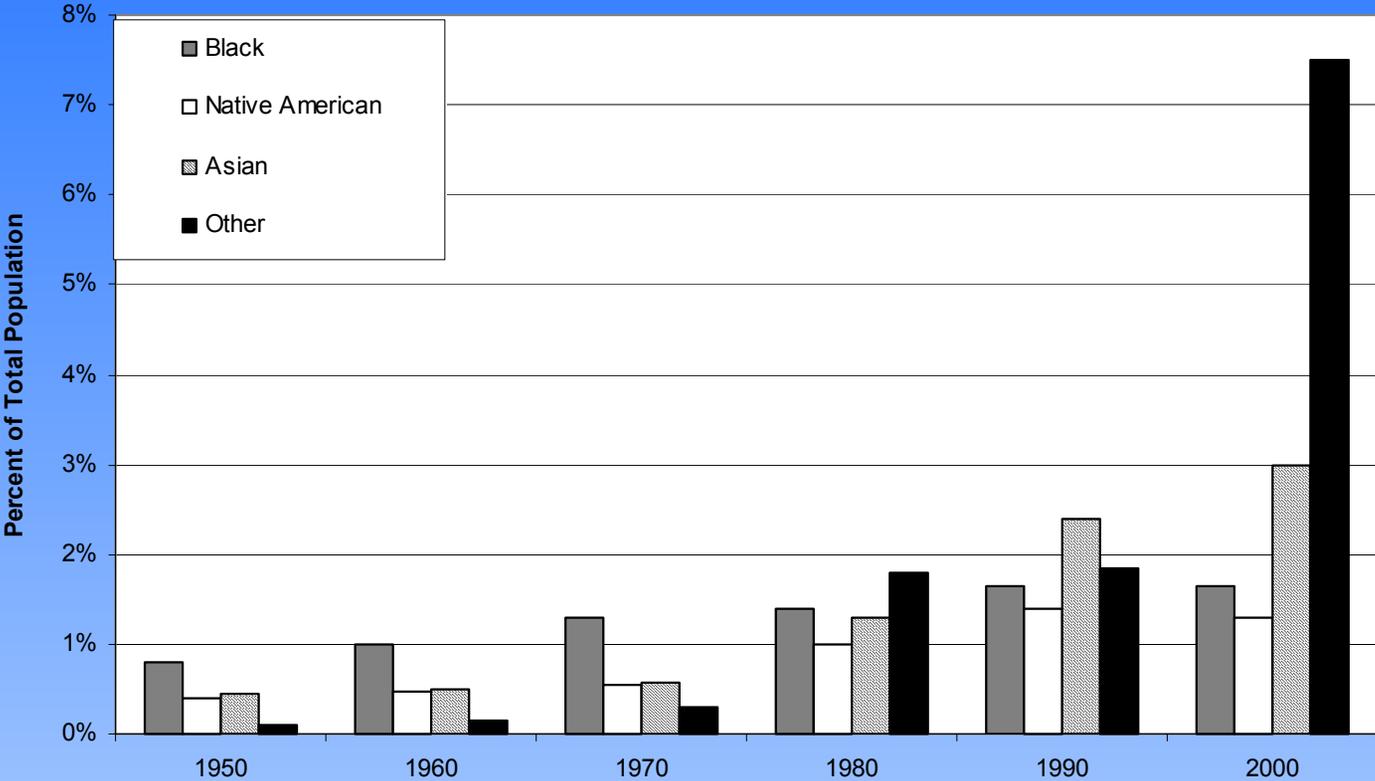
Population Density 2000



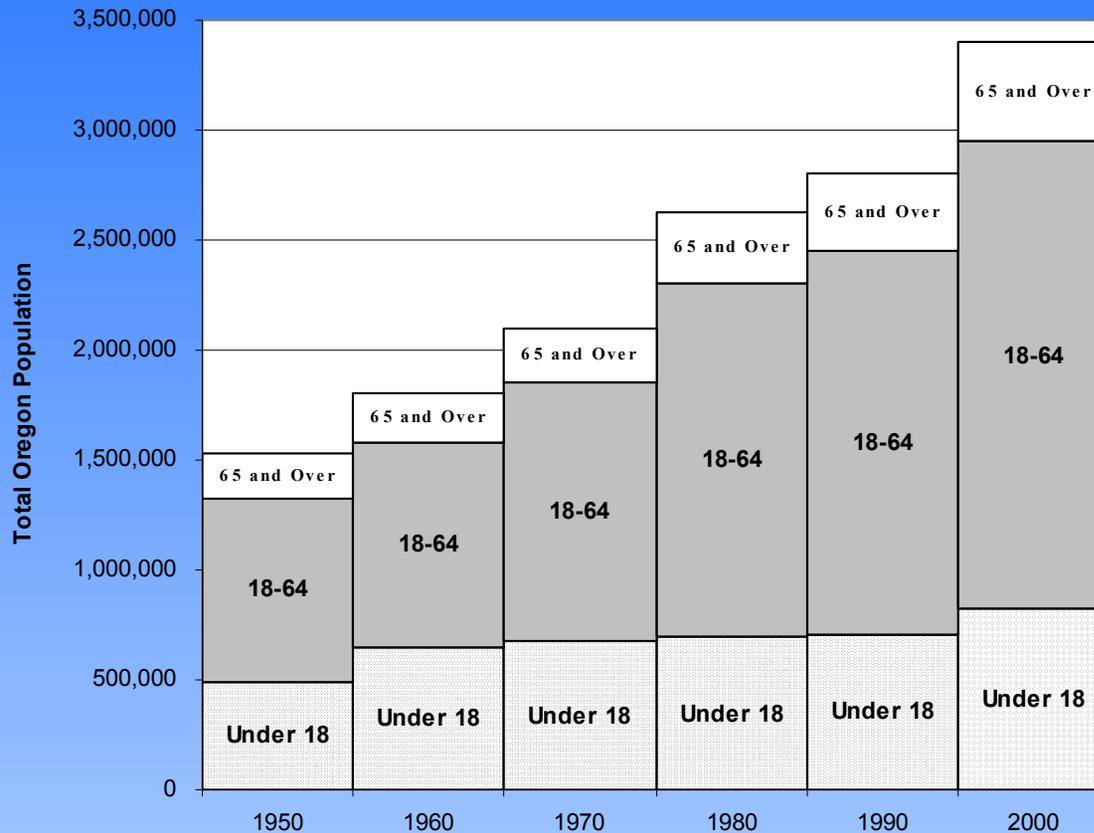
Population Density 2025



Ethnic Diversity



Oregon's Aging Population

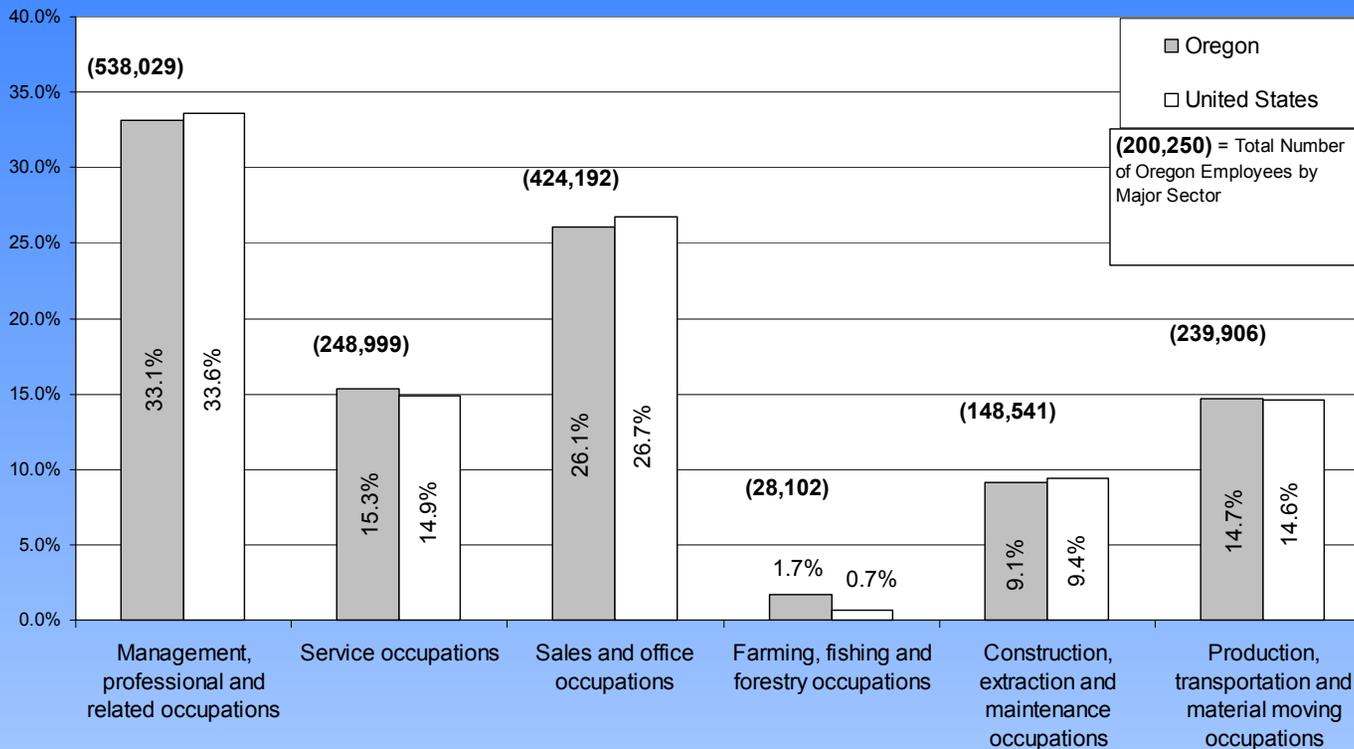


Economic Trends

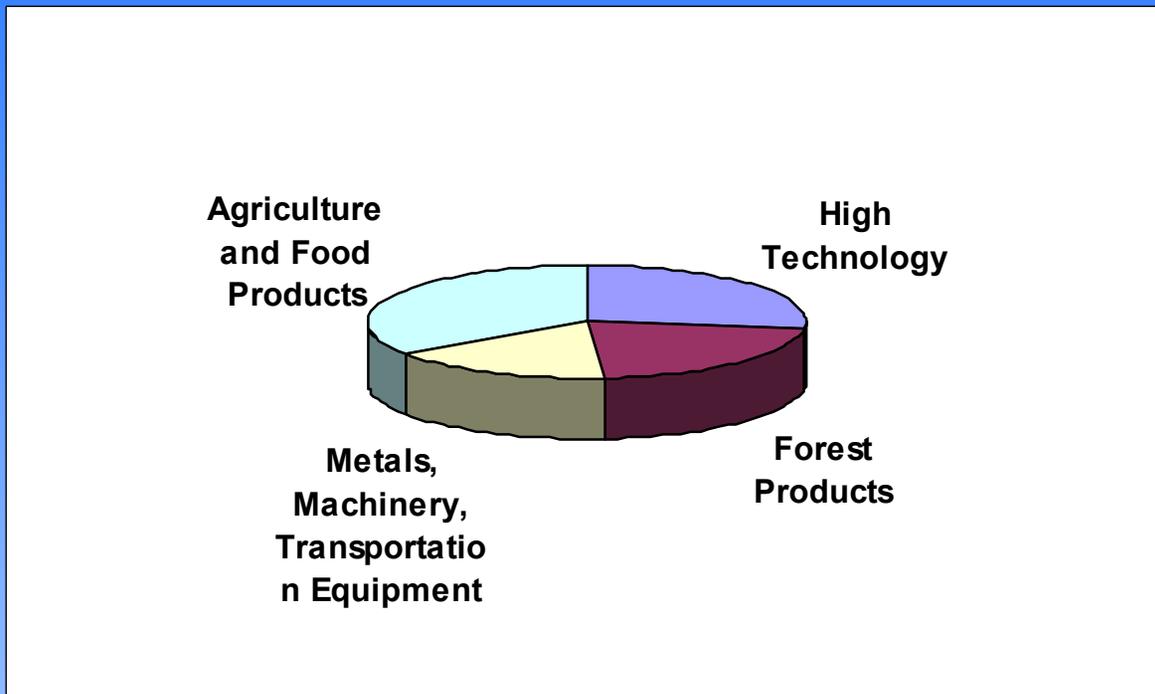
- We're more diverse
 - Less resource base
 - Diverse manufacturing
 - More services
- We're wealthier
- But we're geographically concentrated
- But income disparity is increasing



Oregon Employment by Sector



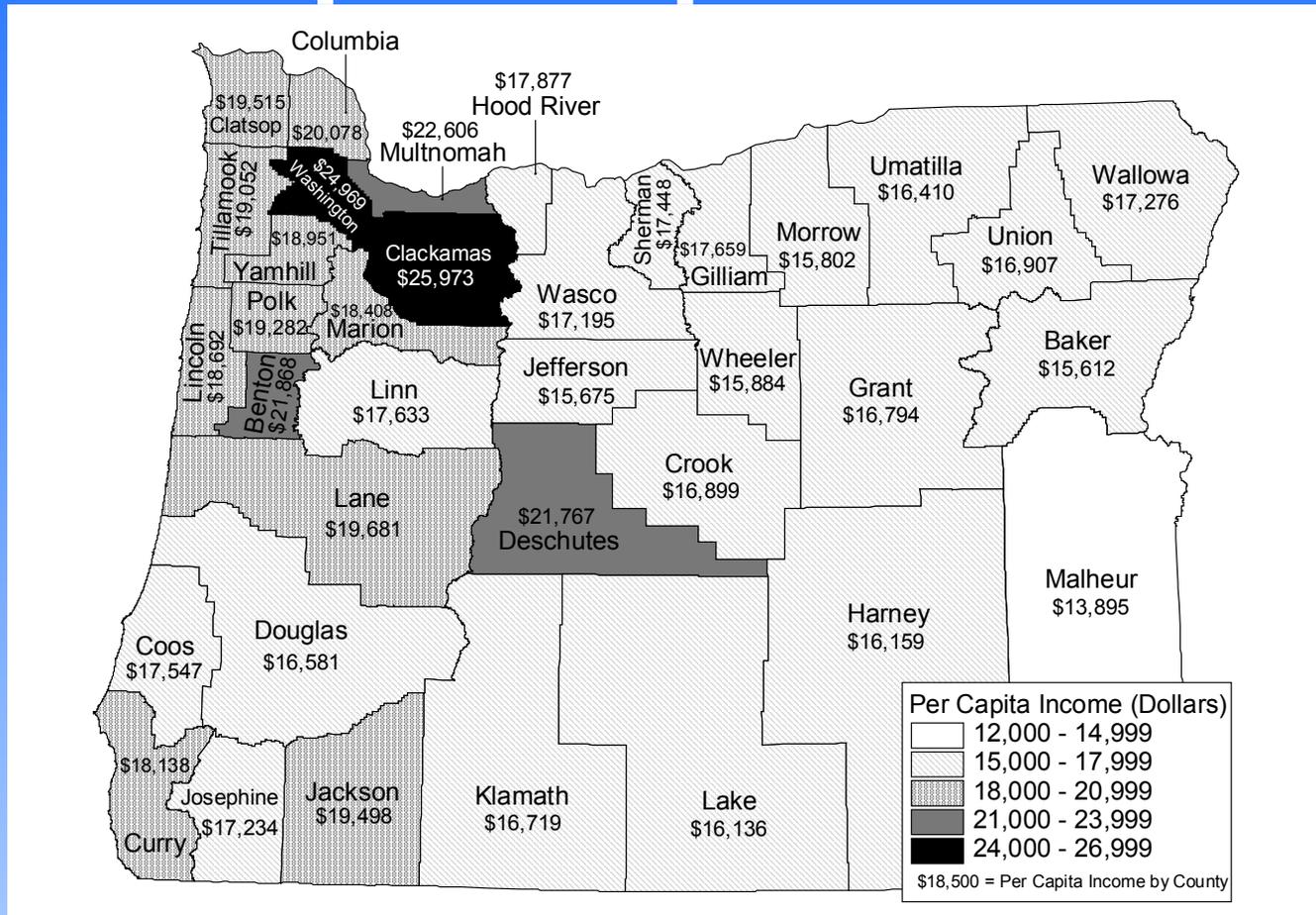
Employment in Traded Sector Industries



Total = 262,000 Jobs



2000 per Capita Income



Transportation Trends - Freight

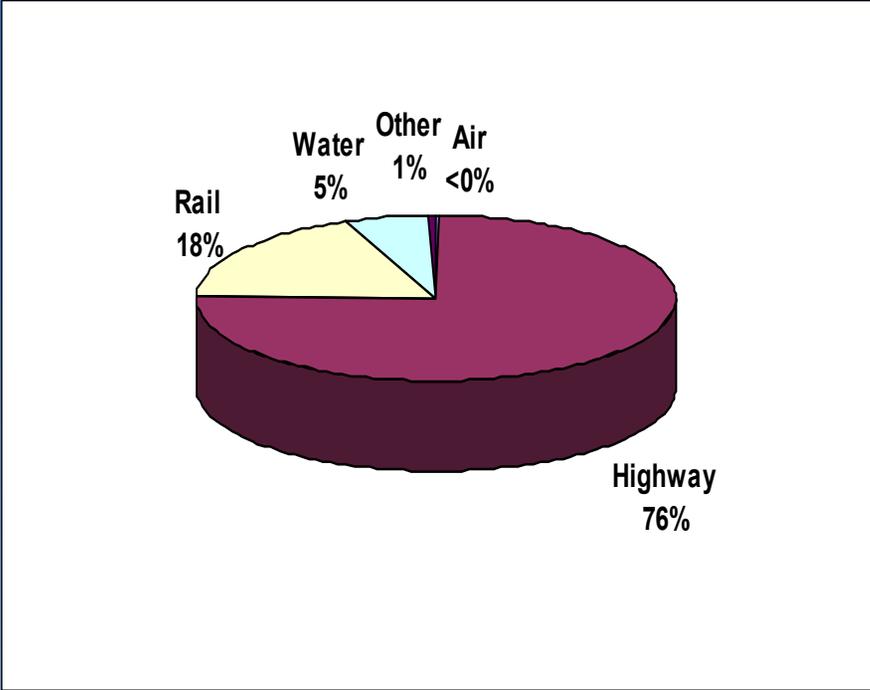
- We ship more
- We ship faster and smarter
- We customize service

Supply chain logistics

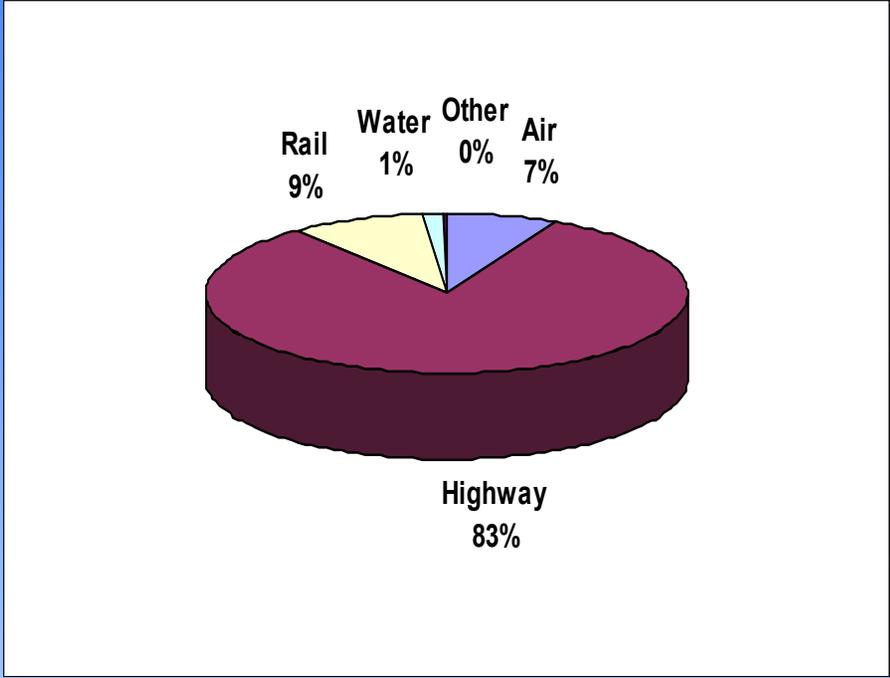


Oregon Shipping by Mode

Tonnage

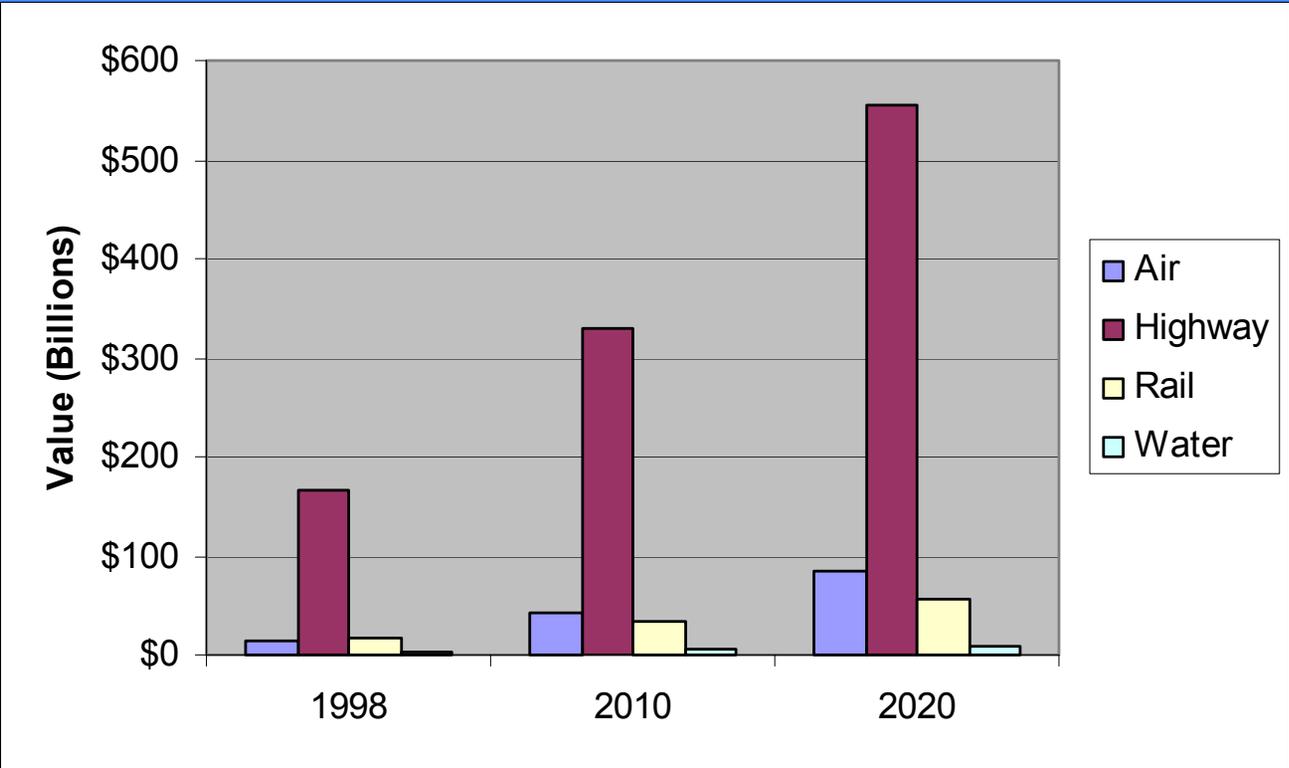


Value

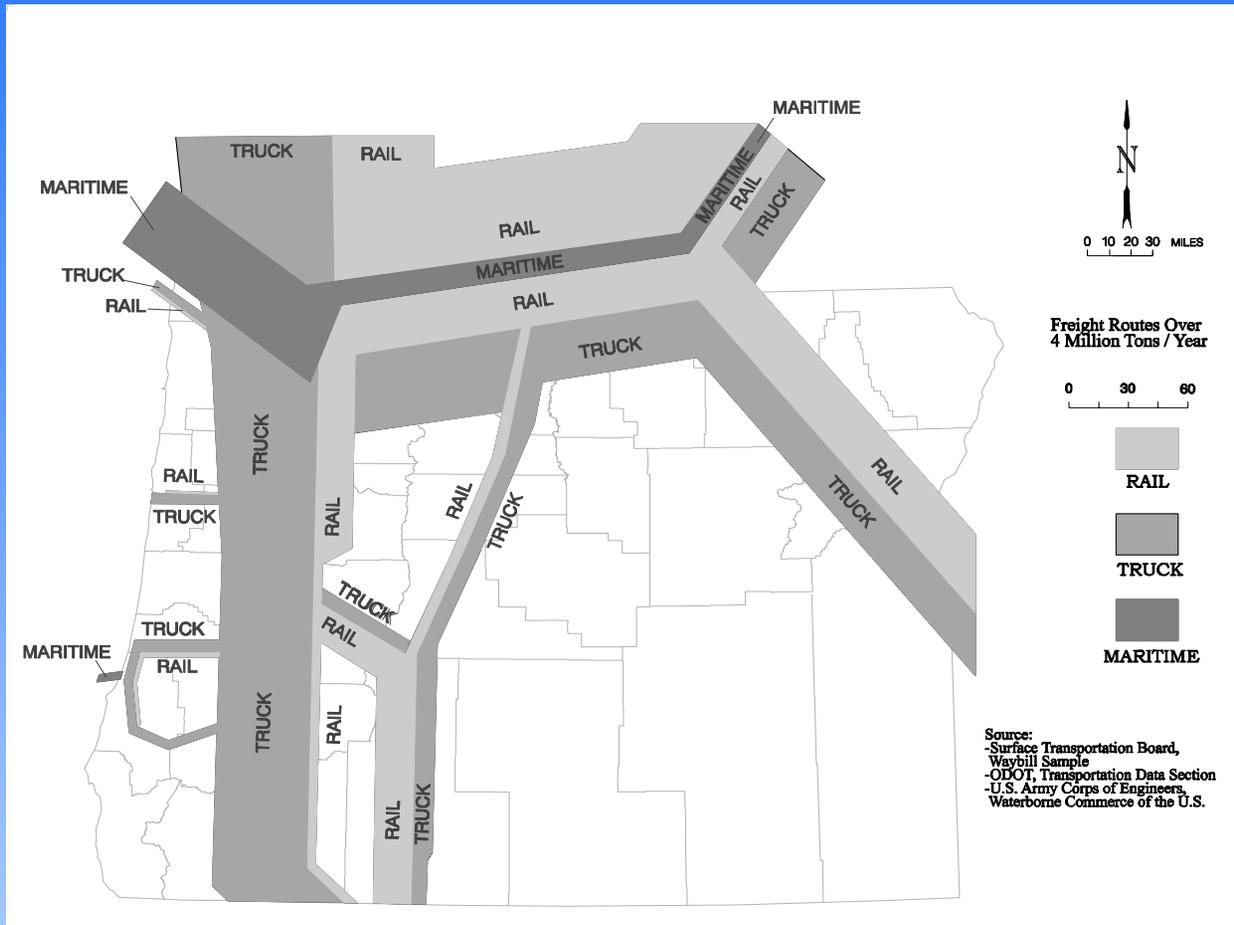


Oregon Shipping by Mode

Trends



Oregon Freight Corridors

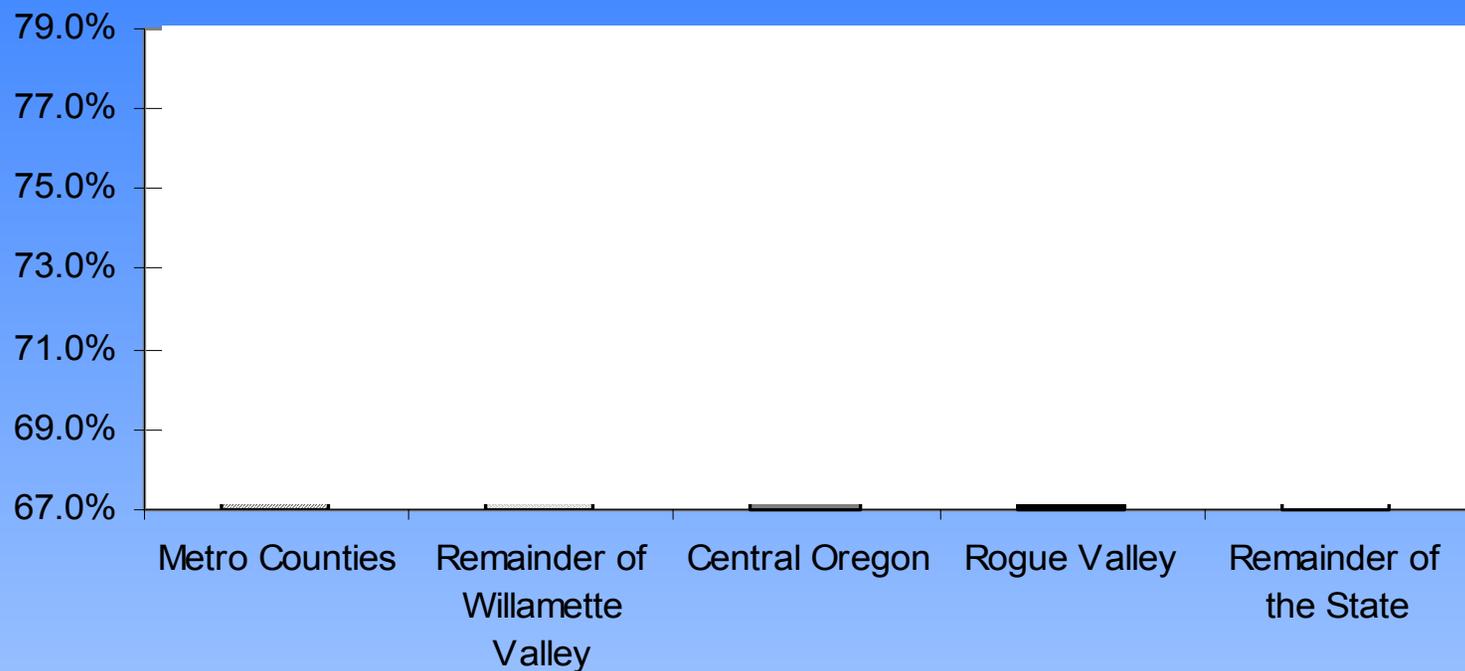


Transportation Trends Passenger

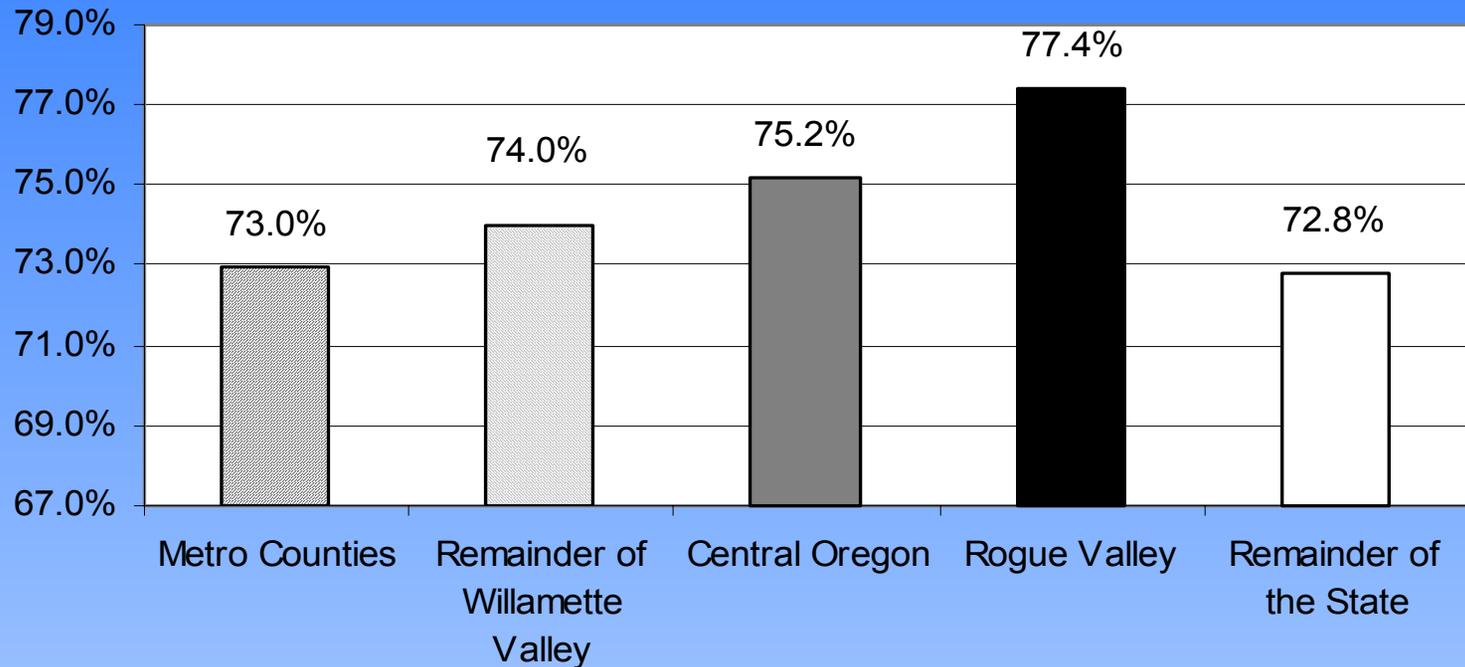
- We drive cars
- We use transit when it's essential or convenient
- We take longer trips by plane
- Is travel growth moderating?



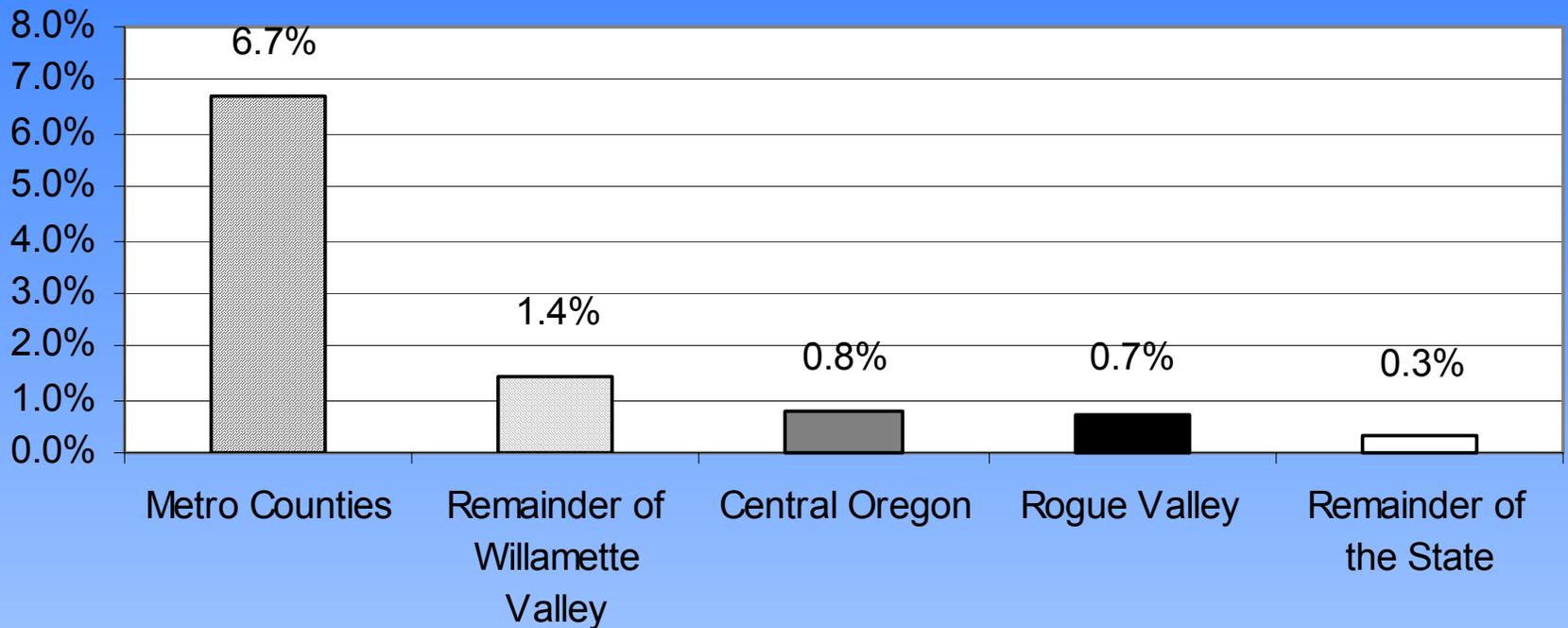
Percentage of Commuters Who Drove Alone in 2000



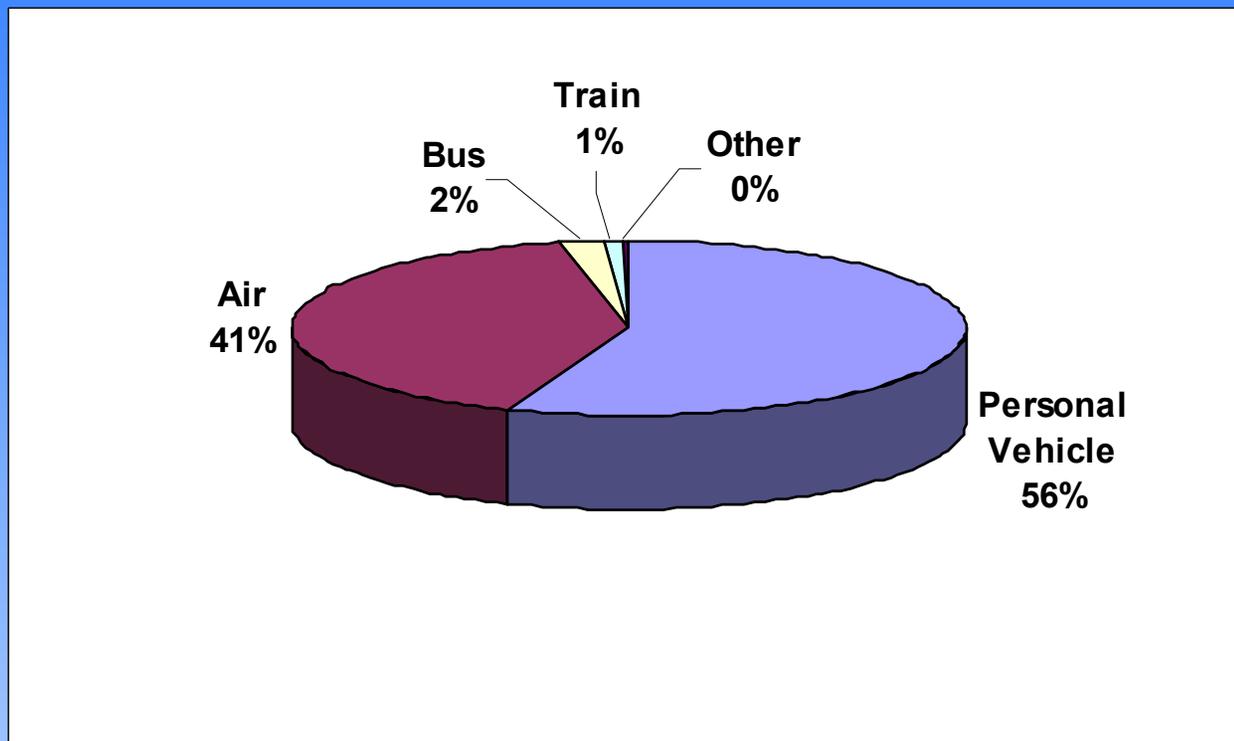
Percentage of Commuters Who Drove Alone in 2000



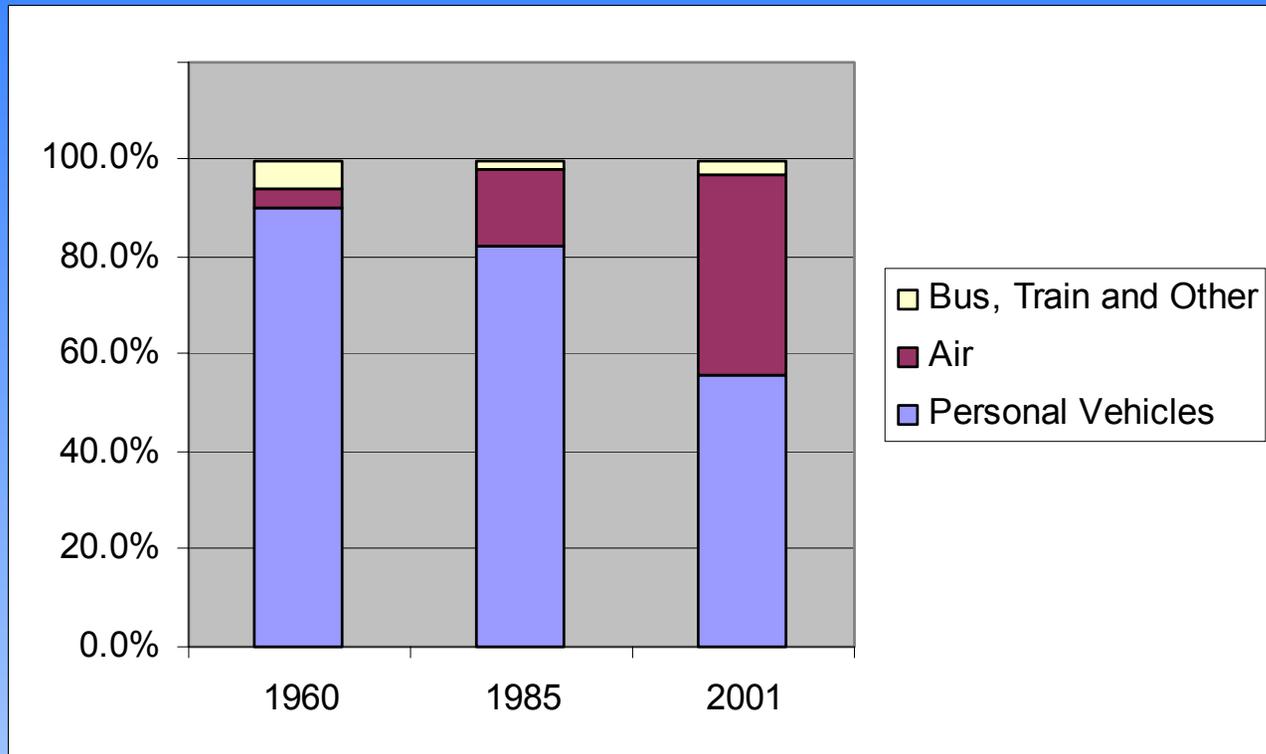
Percentage of Commuters Who Use Public Transit



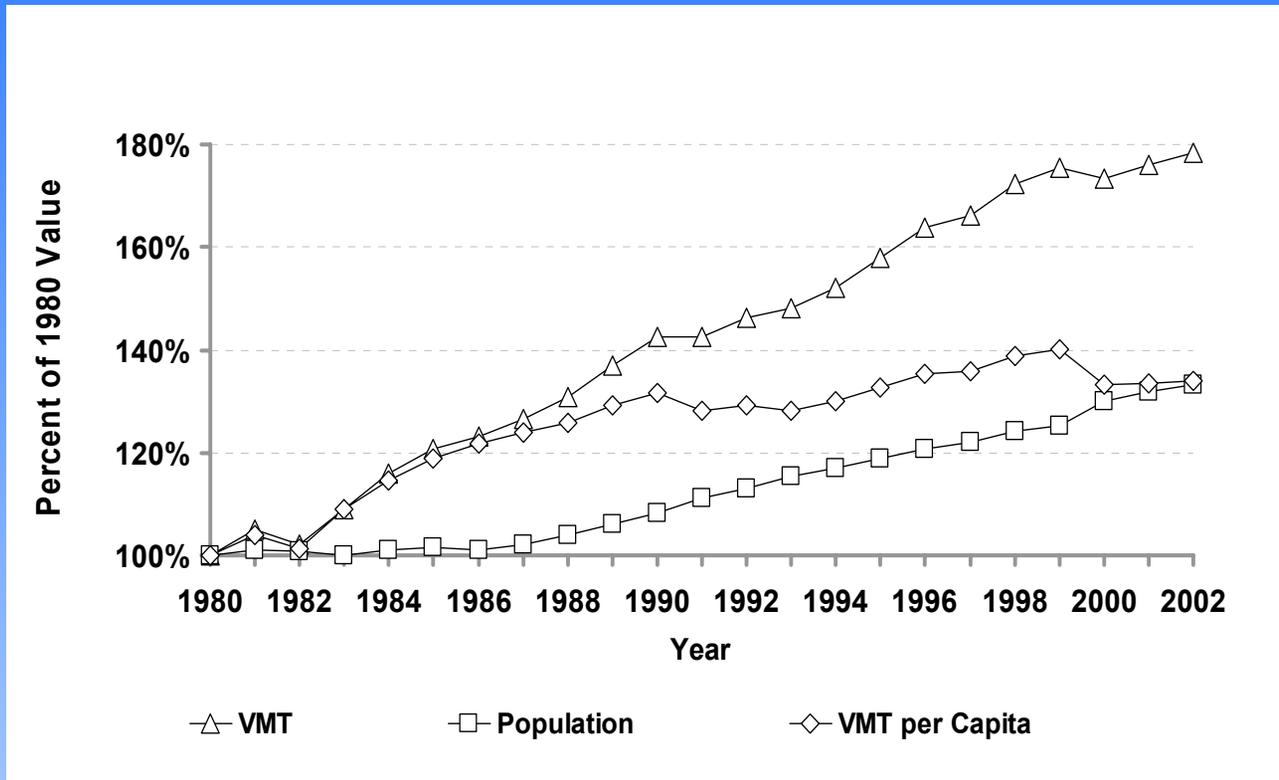
Long Distance Trip Miles by Mode for U.S. 2001



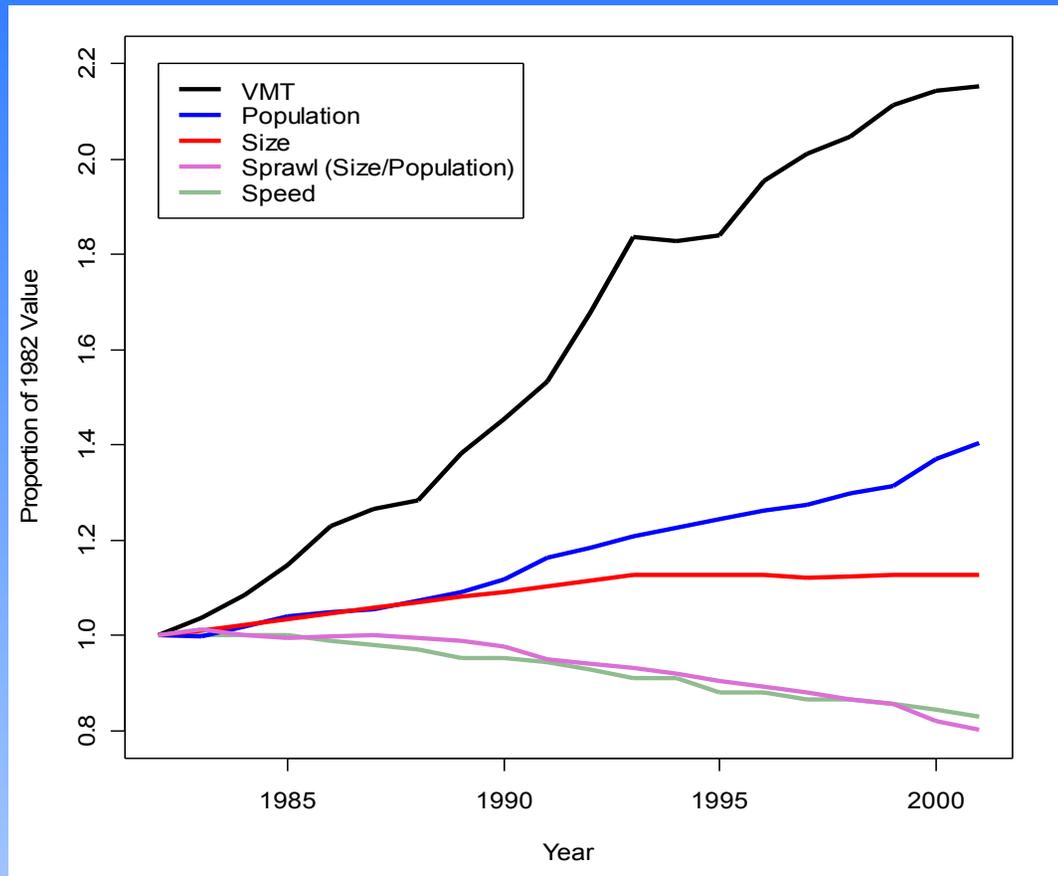
Percentage of Long Distance Trip Miles by Mode for U.S.



Oregon VMT, Population and VMT Per Capita



Portland Area VMT, Speed and Sprawl



Environmental

- Air
- Water
- Energy

Transportation and the Environment

Air Quality and Global Warming

- We meet the clean air standards
- But,
- Particulates are a new concern
- What about global warming?



Transportation and the Environment

Water Quality

- Transportation affects water quality
 - Non-point source pollution
 - Fish passage



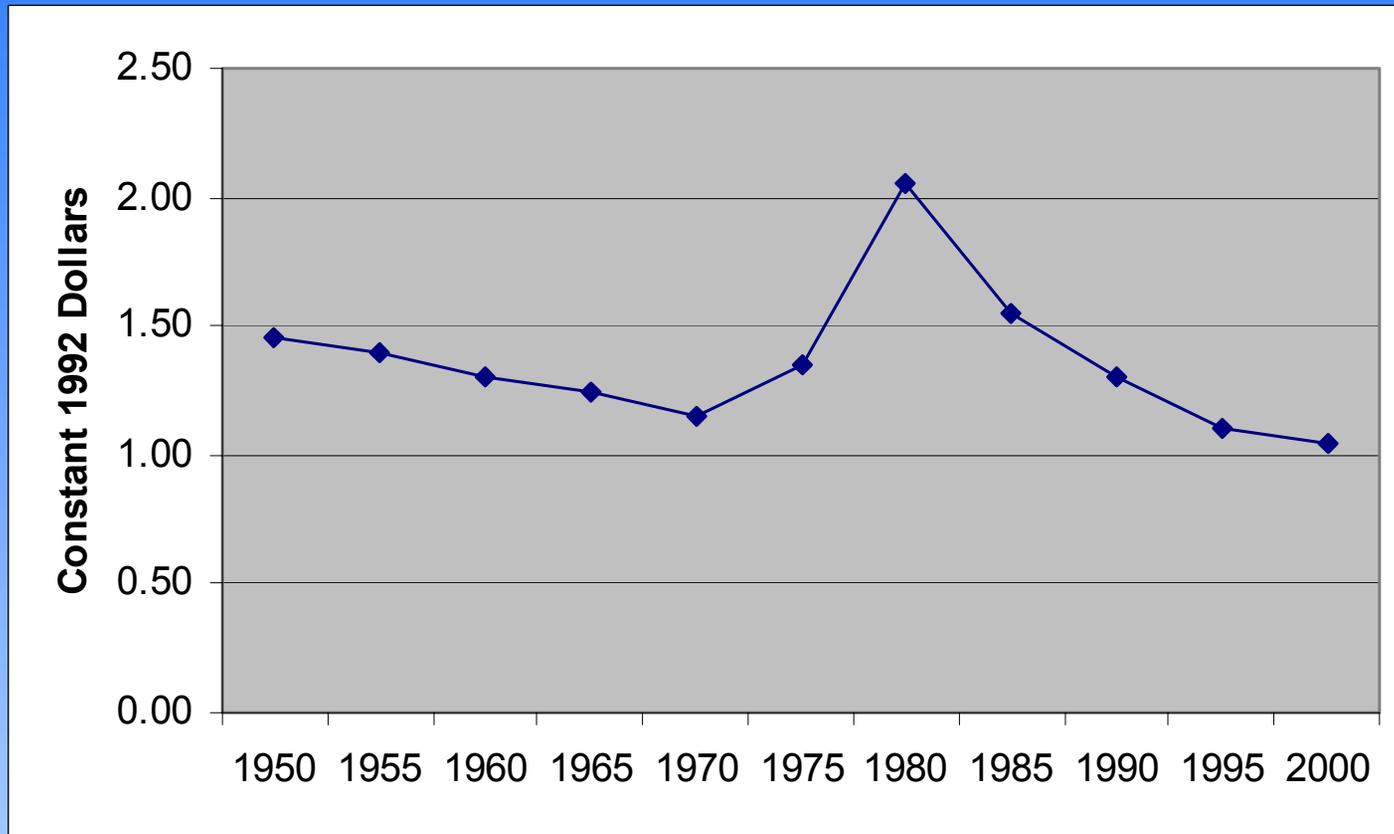
Transportation and the Environment

Energy

- Motor vehicles consume 2/3 of petroleum production
- None of the alternatives have yet taken hold, but
 - Ethanol is being used more
 - Hybrid-electrics increasing
- Non-highway modes more efficient



U.S. Gasoline Prices

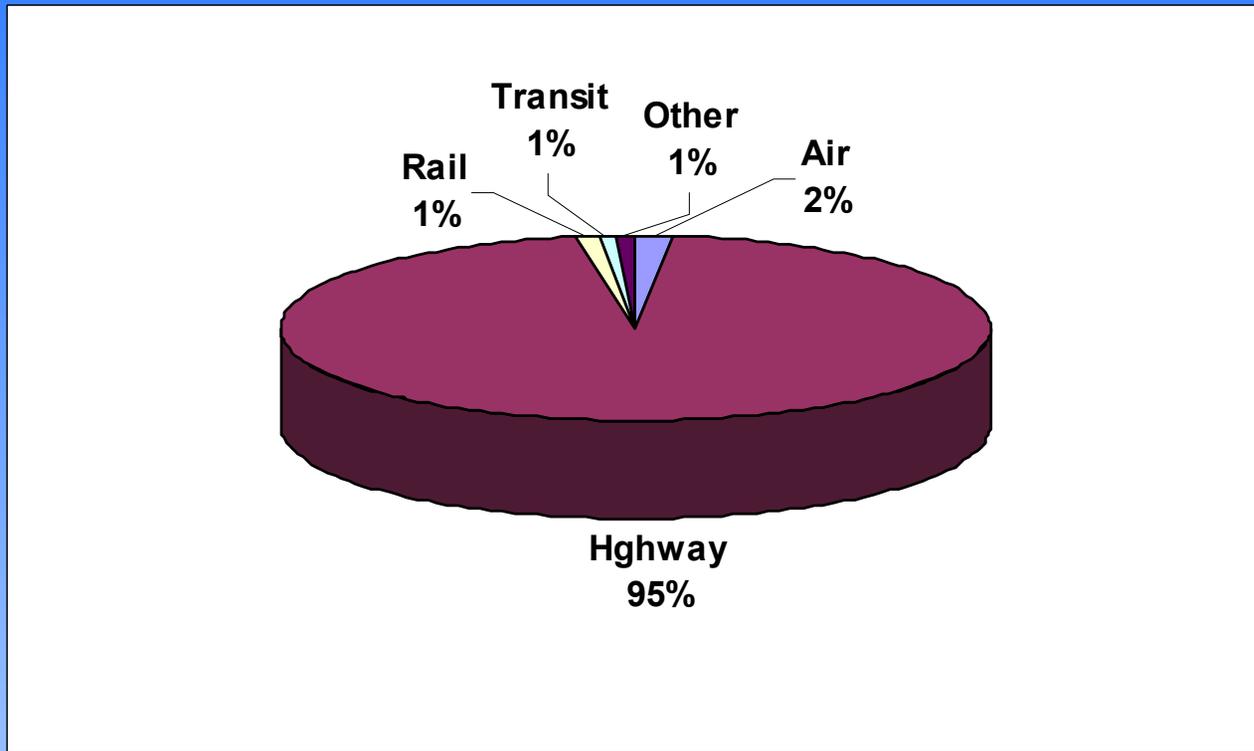


Transportation Safety

- Traffic fatalities have declined dramatically
- New technology will make vehicles even safer,
but
- What about older drivers and pedestrians?
- Do we have adequate law enforcement?



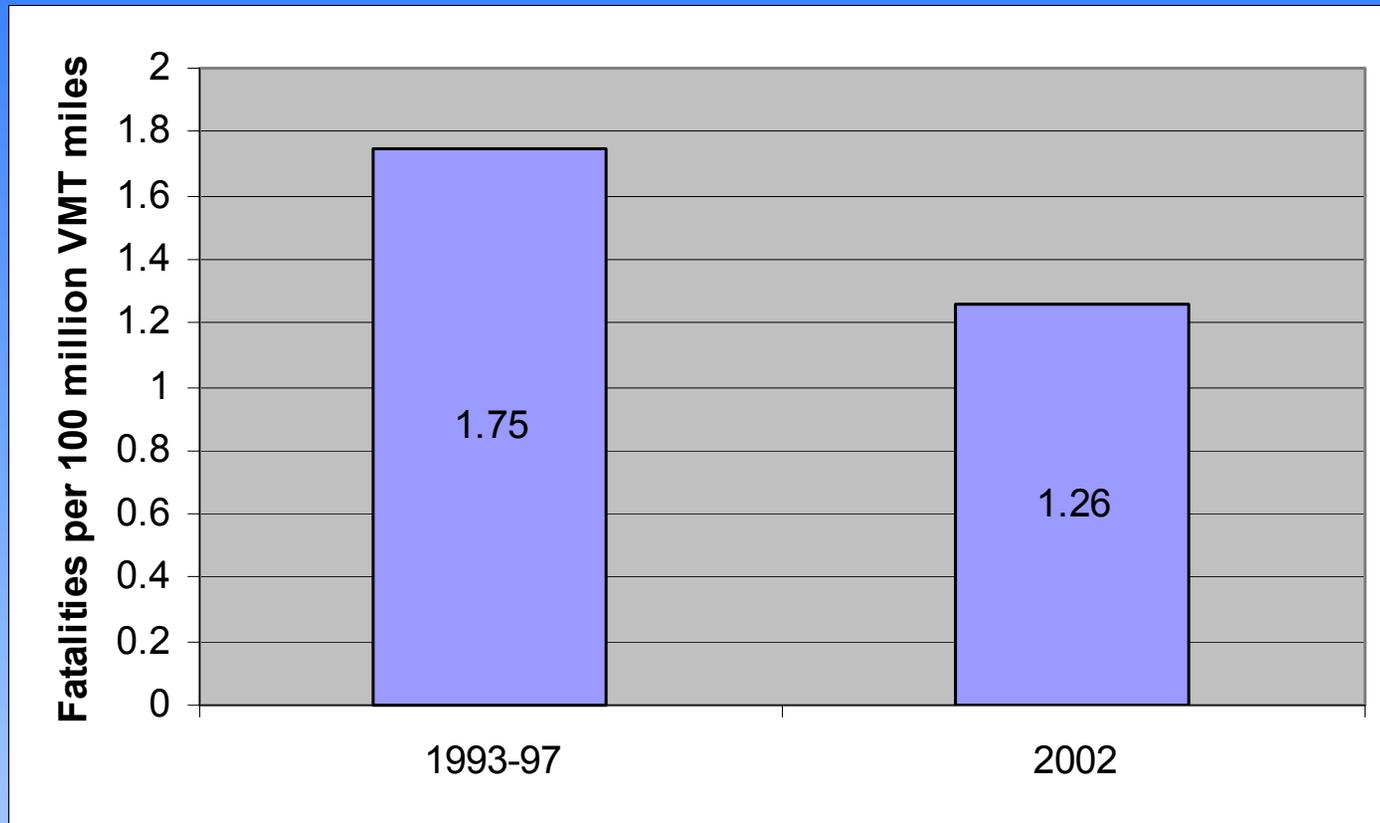
Transportation Fatalities by Mode 2000



Total = 44,313



Oregon Highway Fatalities



Transportation Security

- Protection of passengers and goods
 - Traditional problem
- Protection of facilities
 - Especially since 9/11
- Emergency response
- Role of technology

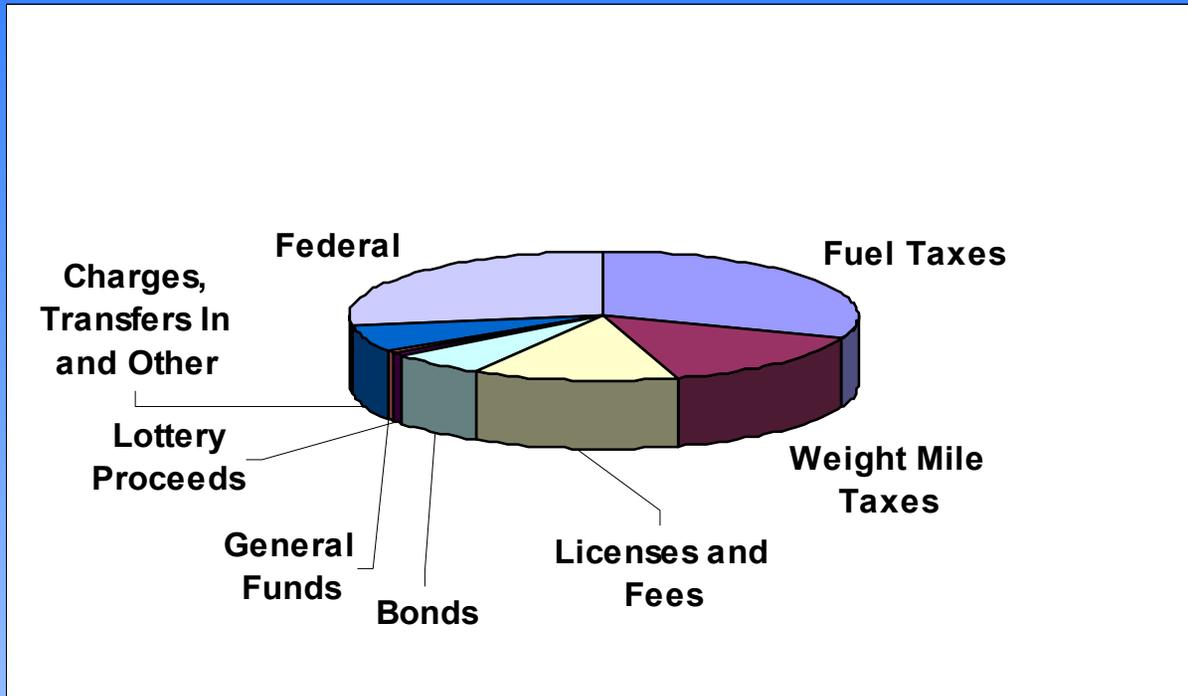


Transportation Funding

- State funding mainly oriented towards highways
- Local and Federal funding address transit and other modes
- Gas taxes haven't grown
- Debt financing increasing



State Transportation Revenue 2003-05 Biennium



Total = \$2.7 Billion



Problem with the gas tax

- Vehicles are more efficient
- Travel growth is moderating
- Inflation reduces purchasing power of gas taxes
- Public does not want to raise tax rates
- Highway revenue erodes



Evolution of Sustainability

Resources

→ Environment

→ Economy

→ Community

→ Infrastructure



Thank You



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