



Oregon Department of Transportation



How ODOT Is Addressing Sustainability



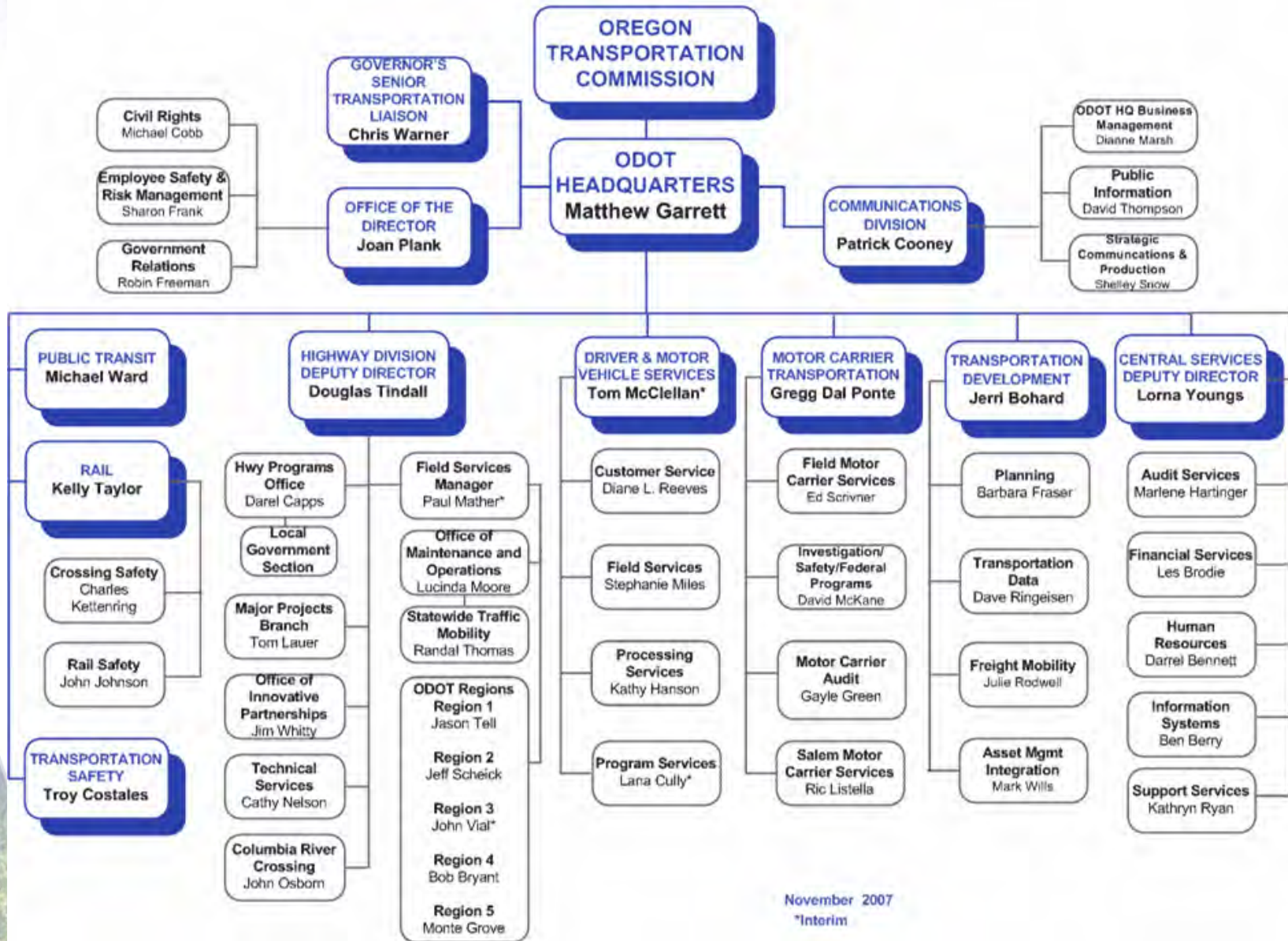
University of Oregon

November 13, 2007

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ODOT Sustainability Program Manager



Oregon Department of Transportation



November 2007
*Interim



ODOT Recognizes The Challenges

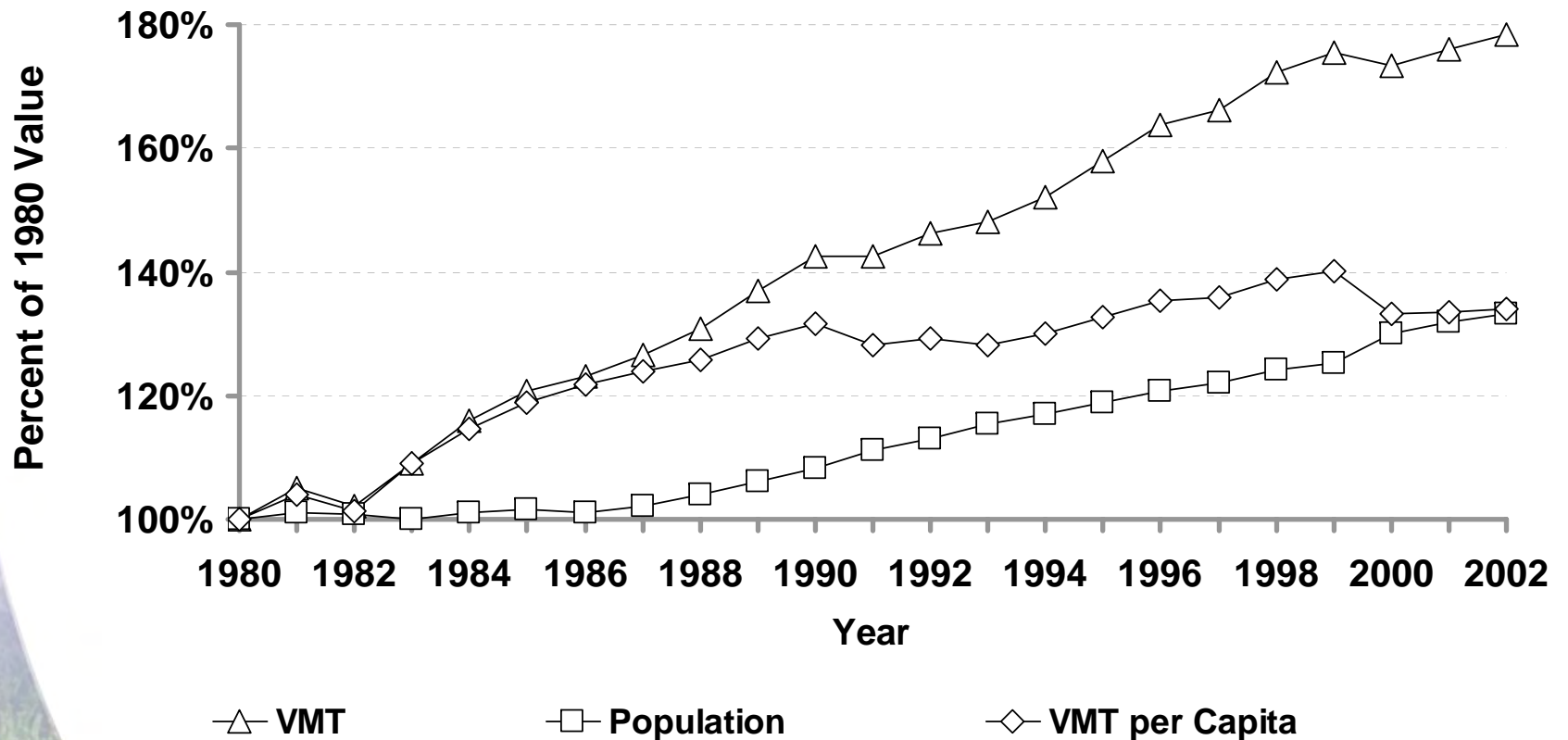


Challenges

1. Growing Population Demands
2. Competing in a Global Economy
3. Congestion
4. Oil Price and Supply
5. Global Warming
6. Protecting the Environment
7. Integrating Land Use
8. Secure Transportation System
9. Improving Safety
10. Institutional Relationships
11. Transportation Financing



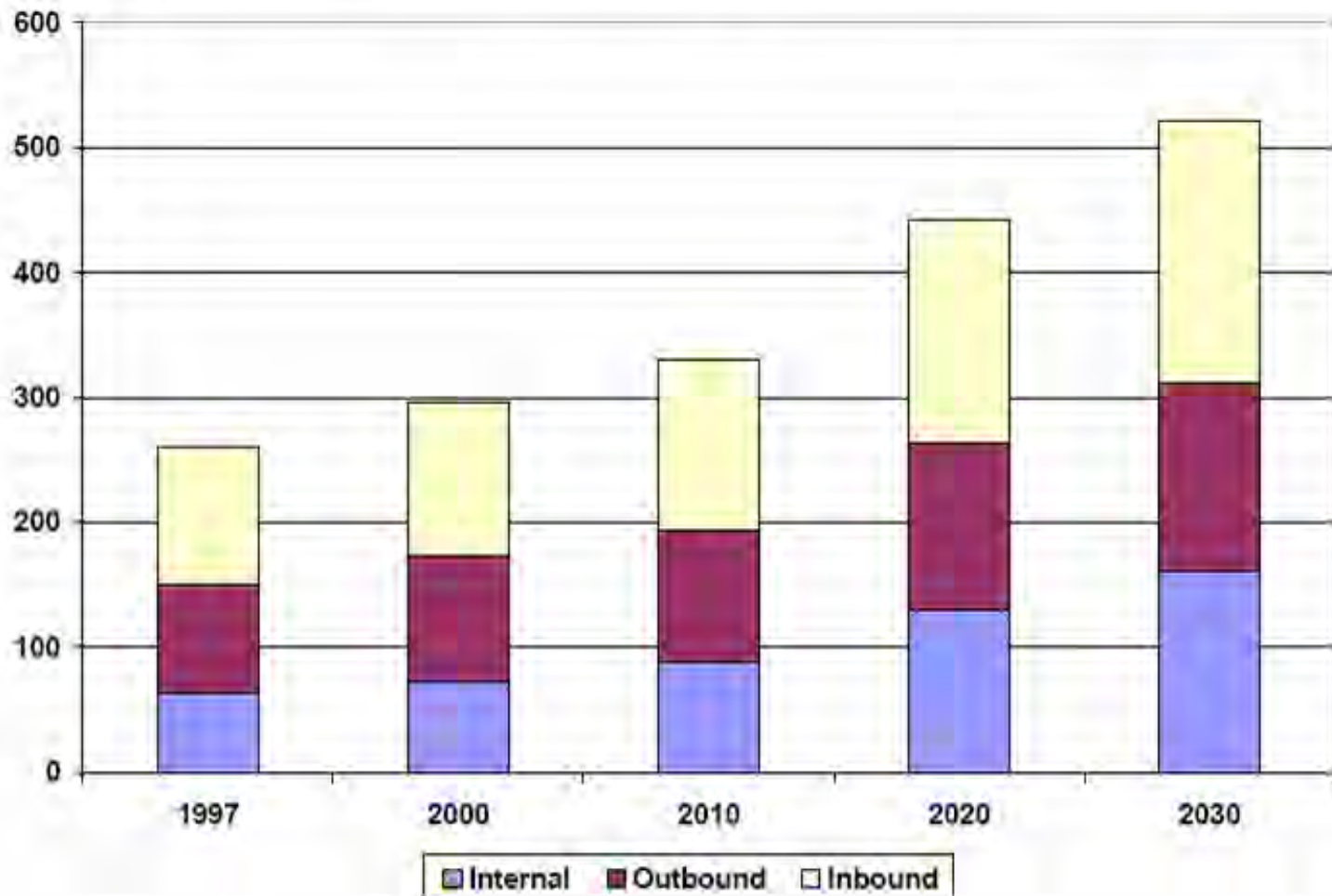
Growing Population Demands





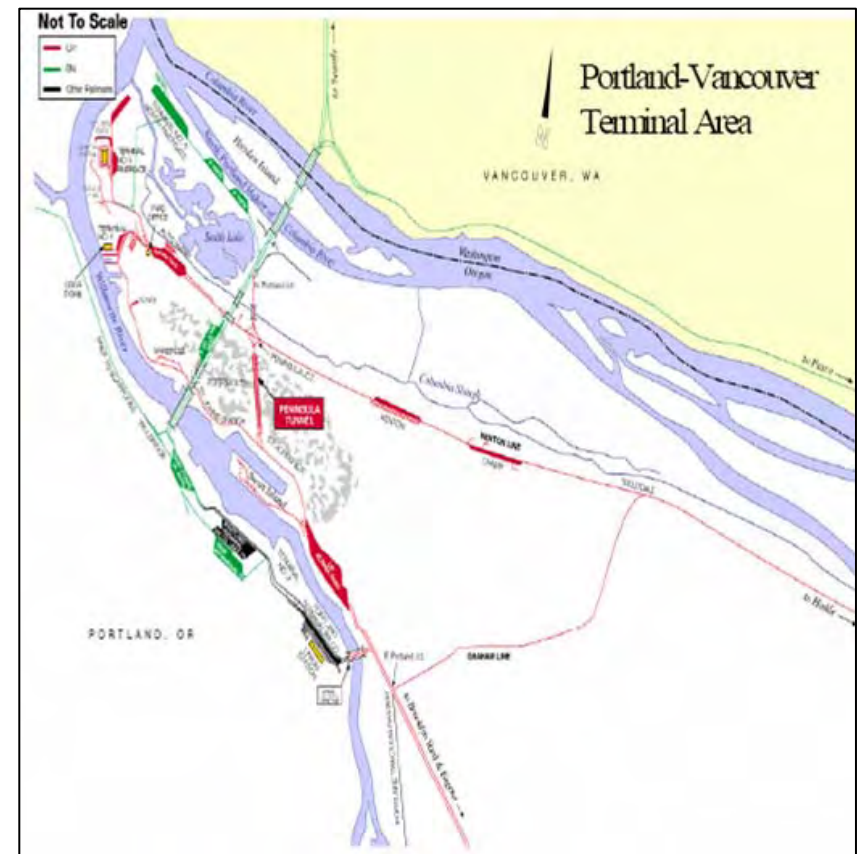
Competing in a Global Economy

Figure 3-3 Direction Share of Tonnage 1997- 2030 (Million Tons)





Congestion





Oil Price and Supply

US-48

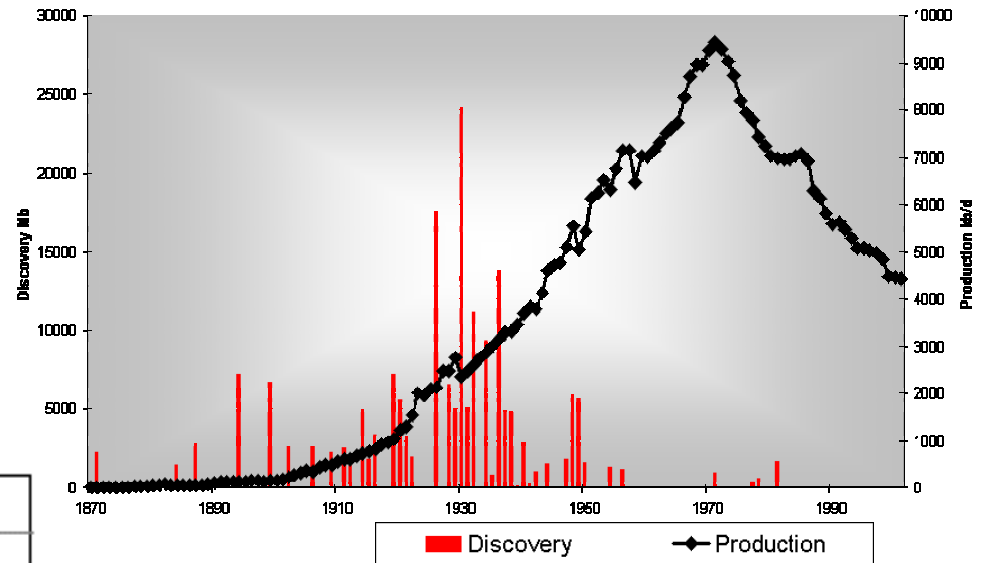
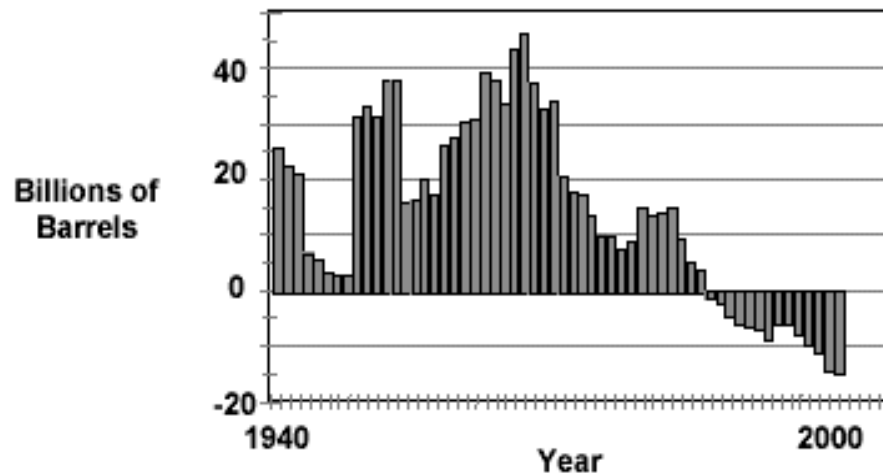


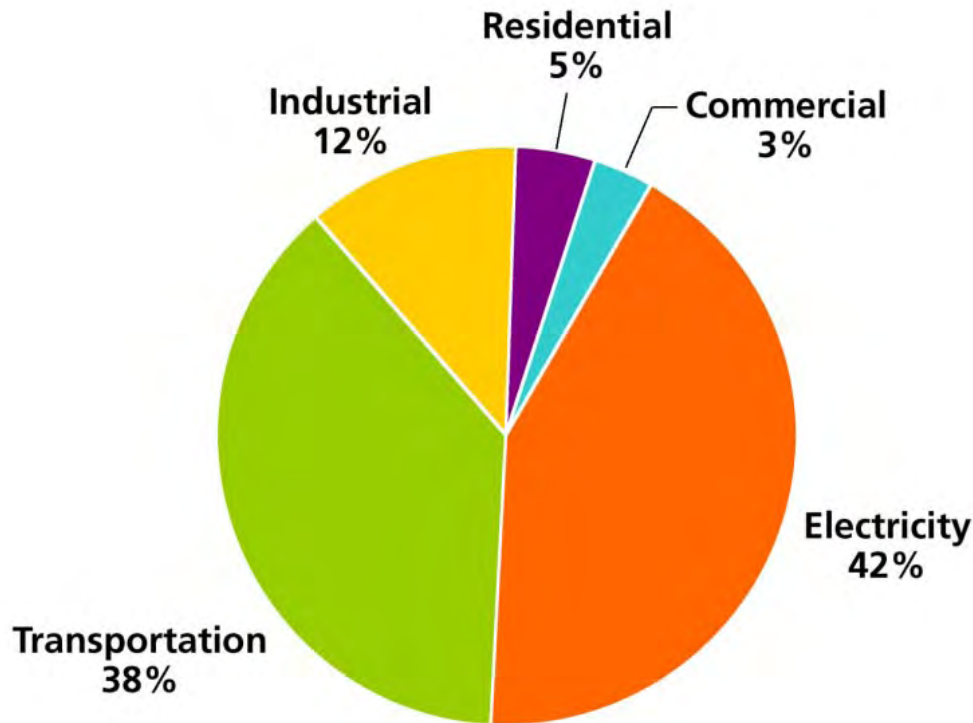
Figure II-1. Net Difference Between Annual World Oil Reserves Additions and Annual Consumption



Global Warming

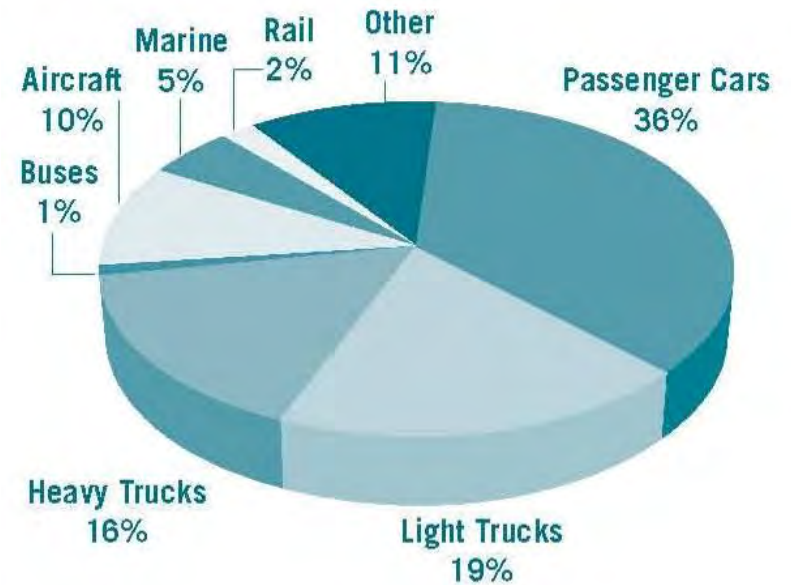
Oregon's CO2 Emissions from Fossil Fuels by Sector

(Source: Oregon Department of Energy)



US Transportation GHG Emissions by Mode

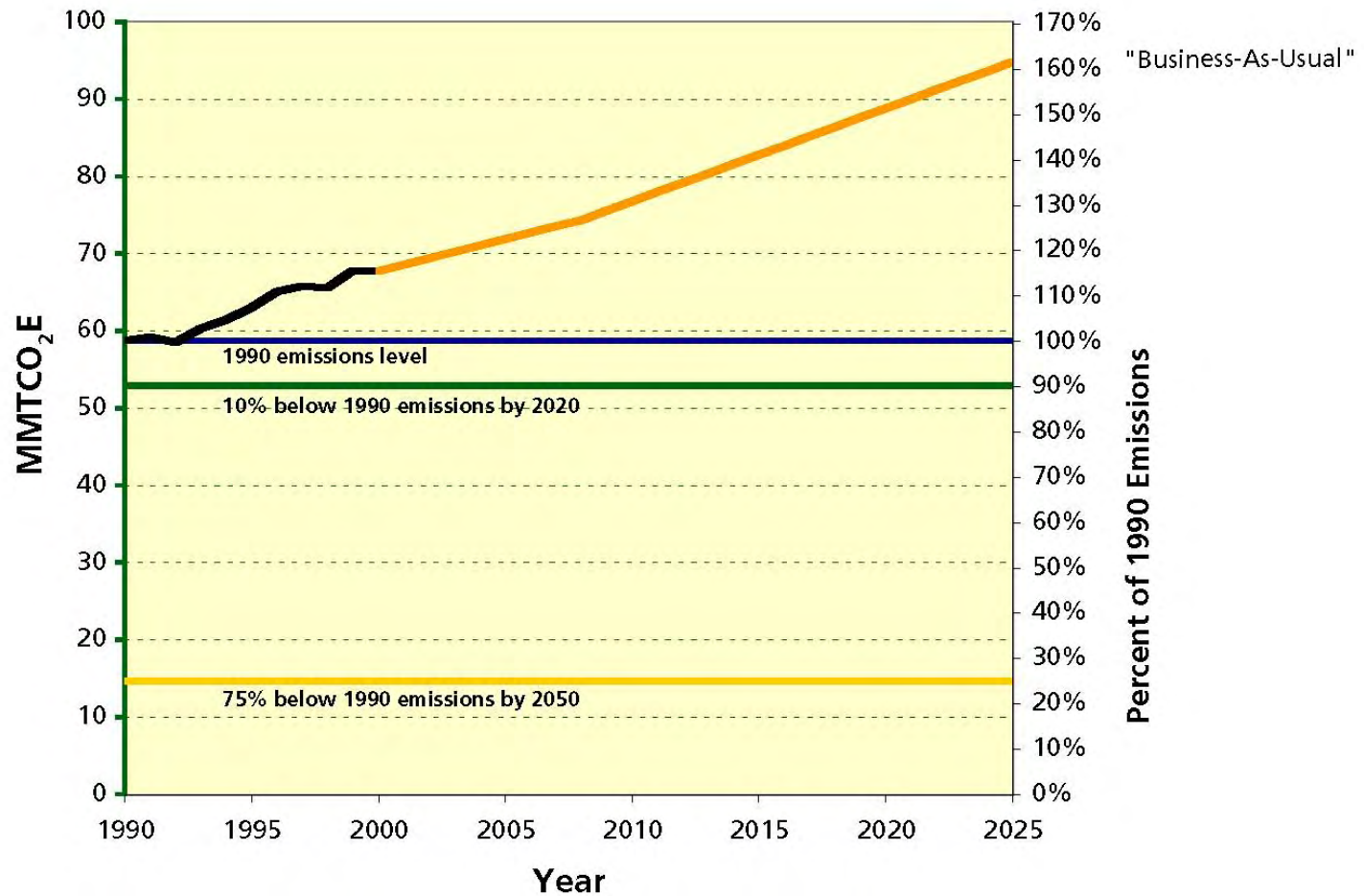
(Source: US EPA, 2002)





Global Warming - Targets

Historic and Forecast Gas Emissions in Oregon
Showing Proposed Goals





Protecting the Environment





Integrating Land Use

From This ...

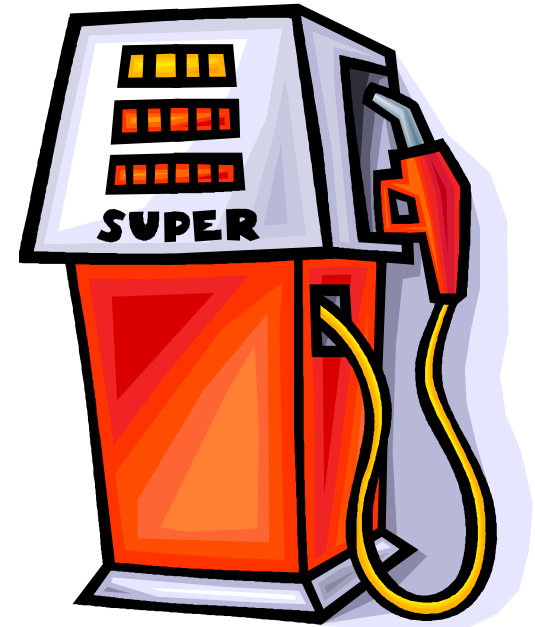


SOURCE: DUANY PLATER-YERGEN & COMPANY / MORRISSEY

...To This



Transportation Financing





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What Is ODOT Doing?



Oregon Transportation Plan

- OTP update has 7 main goals
- Goal 4 - Sustainability:

“ To provide a transportation system that meets present needs without compromising the ability of future generations to meet their needs from the joint perspective of environmental, economic and community objectives. This system is efficient and offers choices among transportation modes. It distributes benefits and burdens fairly and is operated, maintained and improved to be sensitive to both the natural and built environments. ”

.... and policies reflect environment, community, & economy objectives



Oregon Transportation Plan

Policy 4.1 - Environmentally Responsible Transportation System

It is the policy of the State of Oregon to provide a transportation system that is environmentally responsible and encourages conservation and protection of natural resources.

Policy 4.2 - Energy Supply

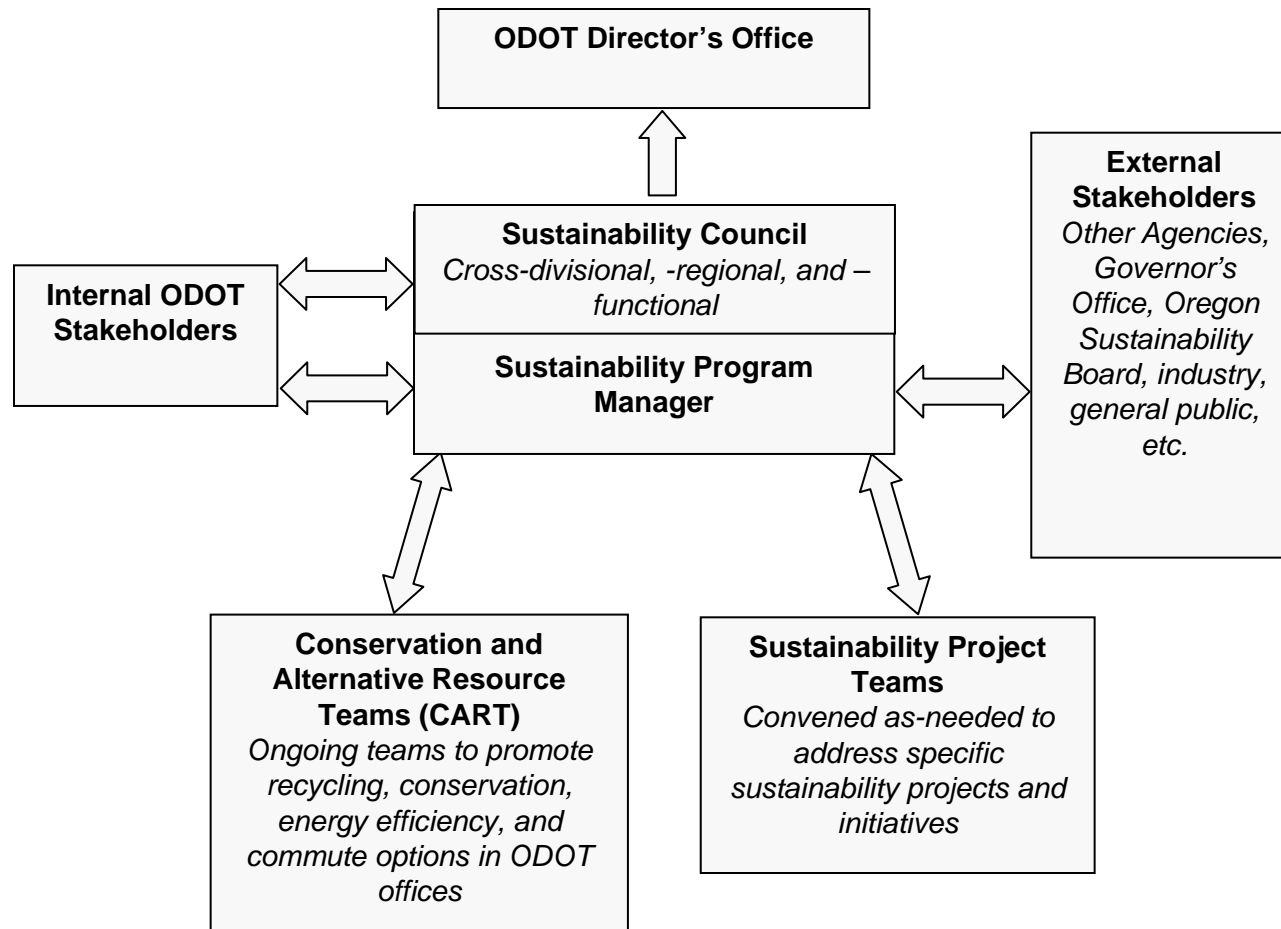
It is the policy of the State of Oregon to support efforts to move to a diversified and cleaner energy supply, promote fuel efficiencies and prepare for possible fuel shortages.

Policy 4.3 - Creating Communities

It is the policy of the State of Oregon to increase access to goods and services and promote health by encouraging development of compact communities and neighborhoods that integrate residential, commercial and employment land uses to help make shorter trips, transit, walking and bicycling feasible. Integrate features that support the use of transportation choices.



Sustainability Program Governance

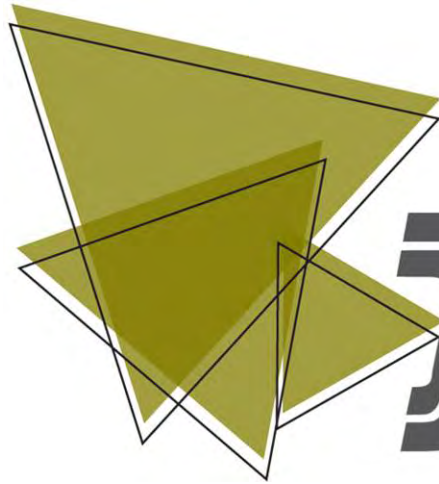




Sustainability Program Development

- ODOT Sustainability Strategic Plan
 - Sustainability Management for Oregon's **Transportation System**
 - Sustainability Management for ODOT's **Internal Operations**



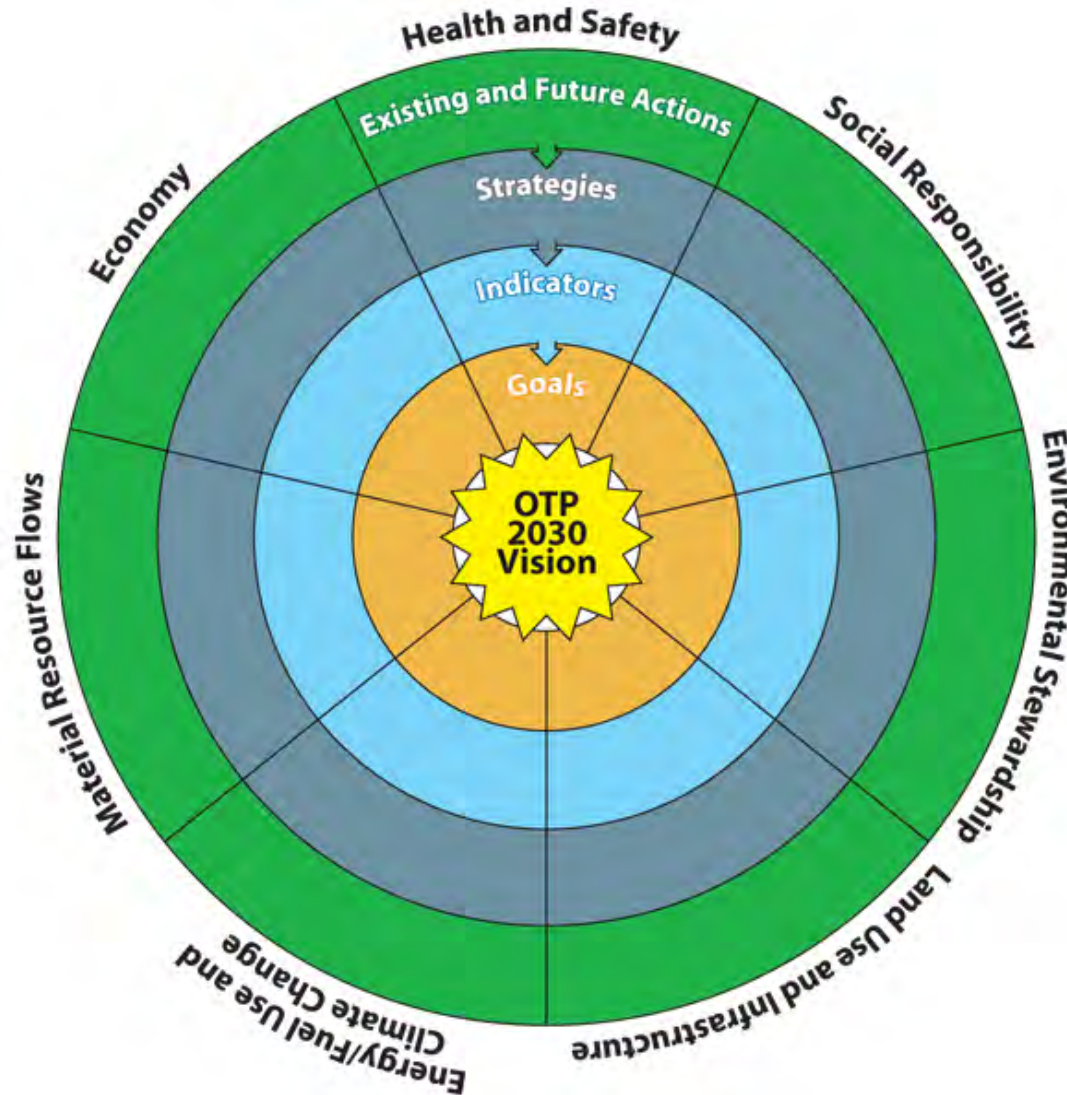


ODOT
SUSTAINABILITY
ACCESS • ACTIVITIES • ASSETS

Sustaining **access** for future generations through careful management of our **activities** and **assets** today.



Sustainability Focus Areas





Addressing Climate Change



Climate Change Activities

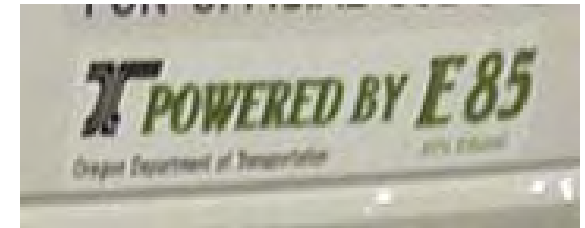
- Support to Statewide Initiatives:
 - Governor's Climate Change Integration Group
 - Western Climate Initiative
 - DEQ Mandatory Reporting
- Member of Greenhouse Gas Interagency Team
- Development of ODOT Climate Change Plan





Transportation Strategies for Addressing Climate Change

1. Use of Low-Carbon Fuels
2. Use of Cleaner and More Efficient Vehicles
3. Reduction in Vehicle Miles Traveled
4. System Optimization





Use of Low-Carbon Fuels

Example: Alternative Fuels Network



BIODIESEL



US Highways Interstate Highways 0 50 KM 50 Miles

© geology.com



Use of Cleaner and More Efficient Vehicles

Example: \$3 Million Loan to CSS





Reduction in Vehicle Miles Traveled

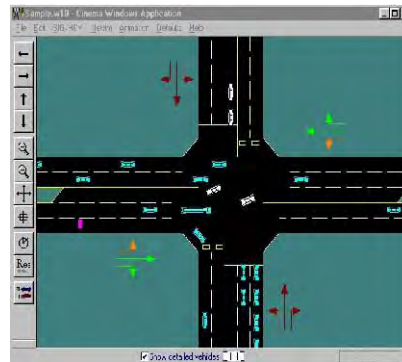
Existing ODOT Programs

- Public Transit Division
 - Transportation Options
 - “Drive Less, Save More”
- Rail Division
- Transportation and Growth Management Program
- Bicycle and Pedestrian Program



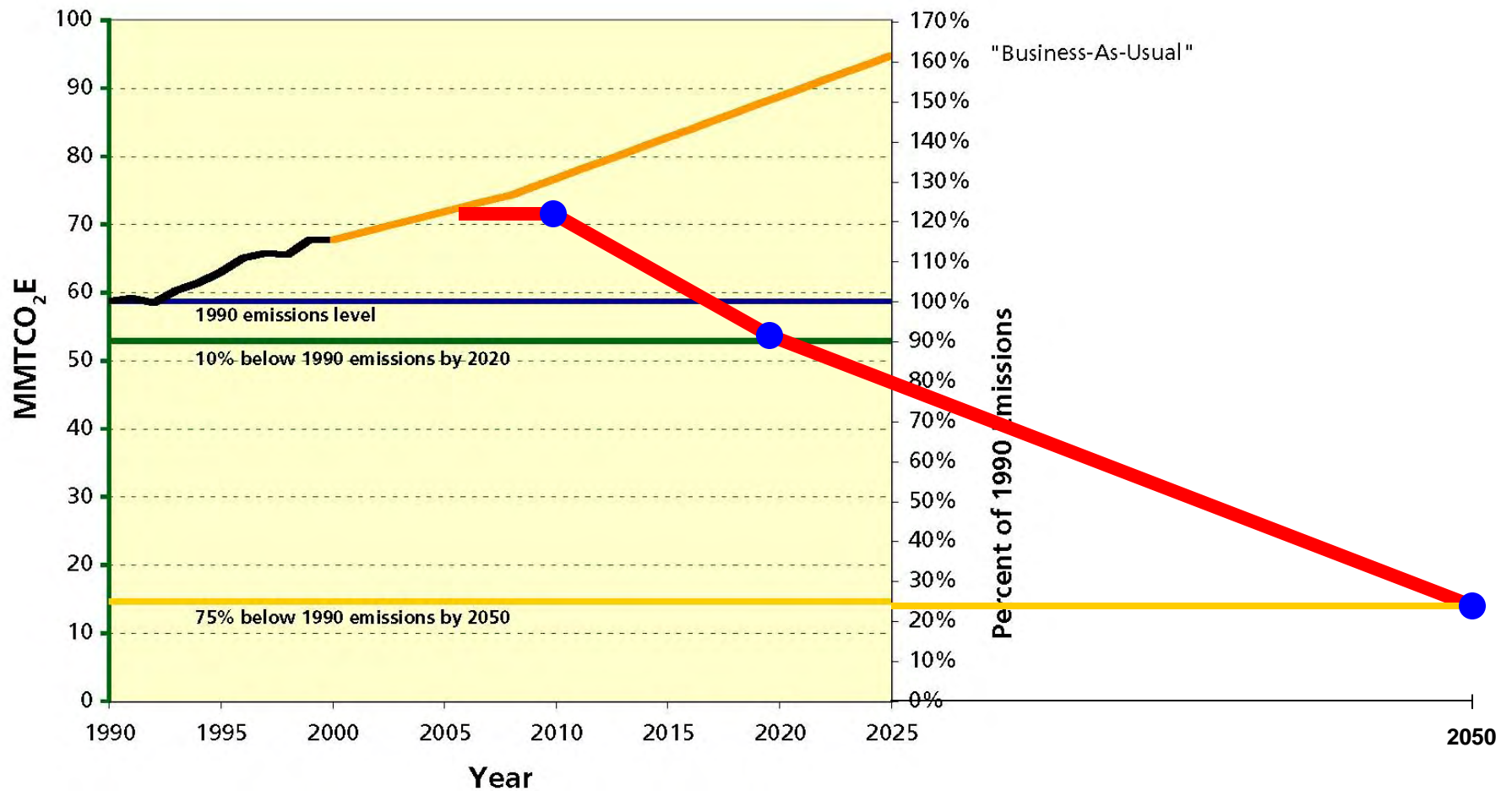


System Optimization *Example Strategies*





Historic and Forecast Gas Emissions in Oregon Showing Proposed Goals





Summary



Questions?

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