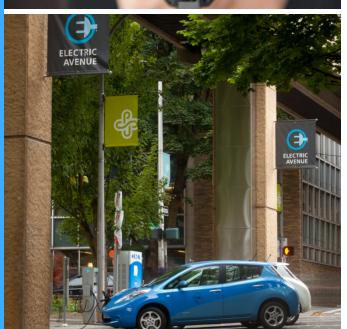
Oregon's Electric Mobility Cluster

Oregon Business Summit

December 2015











Summary

- What is Drive Oregon?
- The Future of Mobility
- Benefits of Electric Vehicles
- Oregon Opportunities
- Oregon's Strategy: The Living Lab



Drive Oregon

Nonprofit (501c6 & 501c3)

Established: 2011

Mission is to grow the electric vehicle industry and promote electric transportation in Oregon

Funded by Oregon Innovation Council (state lottery) and member companies

Membership 100+ companies, utilities, local governments, other stakeholders

www.driveoregon.org





Current Mobility System

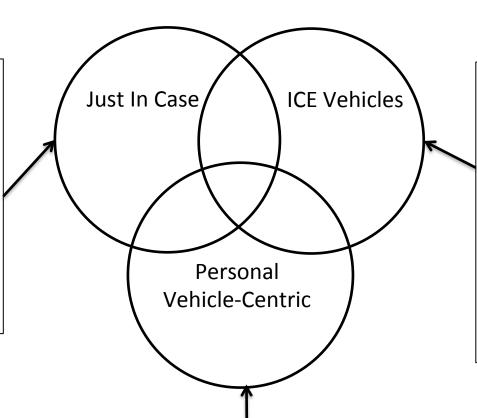
Underutilized:

Cars parked over 95% of their lives

Average occupancy 1.08

Expensive:

Mobility is the 2nd highest expense for U.S. families (appx \$9,000 per year)



Dirty:

of CO₂ each year, along with NO_x and SO_x. air pollution

Inefficient:

About 1% of total energy used goes to actually moving people

Adapted from



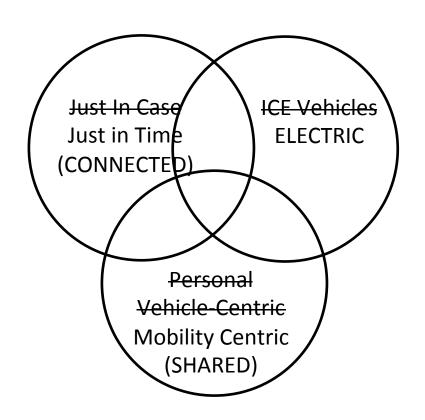
Congested:

Gridlock traffic, stress, and other indirect costs amount to almost \$2T in societal expenditure in the existing system

Dangerous:

Automobile accidents kill 100,000s of people each year

The Future: Electric, Connected, and Shared

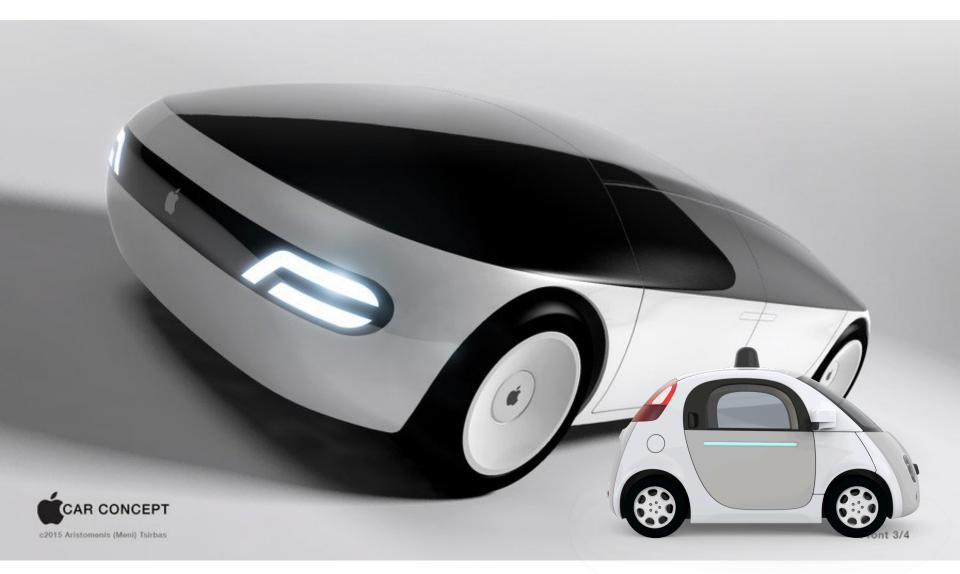


Adapted from



\$700 BILLION PER YEAR ON THE TABLE

THE ULTIMATE MOBILE DEVICE



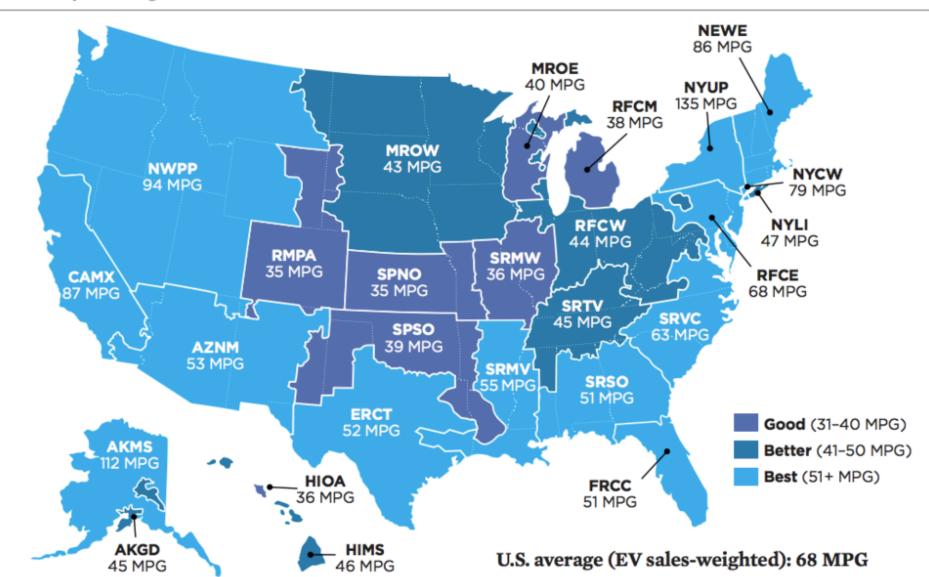
"The car is the ultimate mobile device" – Apple Sr. VP Jeff Williams

Benefits: For Drivers...



Benefits: For the Environment...

FIGURE ES-1. Electric Vehicle Global Warming Pollution Ratings and Gasoline Vehicle Emissions Equivalents by Electricity Grid Region



Benefits: For the Economy...

- Lower & stable operating costs (\$1 per "egallon")
- \$7 billion leaves Oregon for fuel every year
- Every dollar shifted from oil creates 16X more jobs (UC Berkeley study)
- Every electric car purchased -> additional \$500-\$1,500 in state/local tax revenue (Drive Oregon/OSU study)
- Increasing EV sales increases GDP (Keybridge study)

Oregon Opportunities

- Charging equipment \$3.8 billion by 2020
- Industrial/Commercial equipment \$128 billion by 2025
- Li-ion batteries \$24.1 billion in 2023
- "Connected cars" \$100 billion by 2020
- Automotive electronics \$240 billion in 2020
- Cars between 7-35% electric/hybrid by 2025
- All new vehicles sold electric by 2050

Oregon Opportunities



Oregon's Strategy

- Strong tech-loving "early adopter" market
- Supportive public policies
- Welcoming business climate
- Easy market access
- Collaborative, innovative approach
- Drive Oregon = "Plug and Play"

Oregon's Strategy



Oregon's Pitch To Electric-Car Industry: Come Test **New Stuff Here!**



16 Comments 2,674 views

Nov 5, 2015

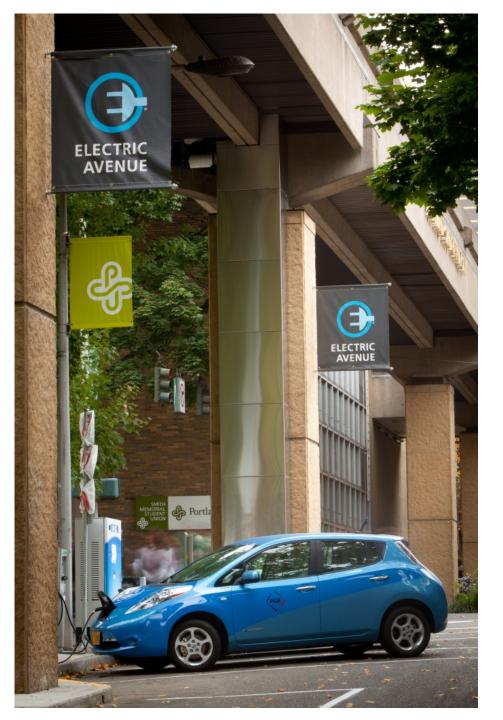
Follow John

Take Us With You!

How you can "plug in"

- Take a test drive
- Sign up for our free e-news
- Join our monthly events
- Support your employees with workplace charging
- EV Roadmap Conference www.evroadmapconference.com
- Join Drive Oregon
- Let us know how we can help!









Questions?

Jeff Allen

Jeff.allen@driveoregon.org

(503) 724-8670

www.driveoregon.org

Twitter: @DriveOregon