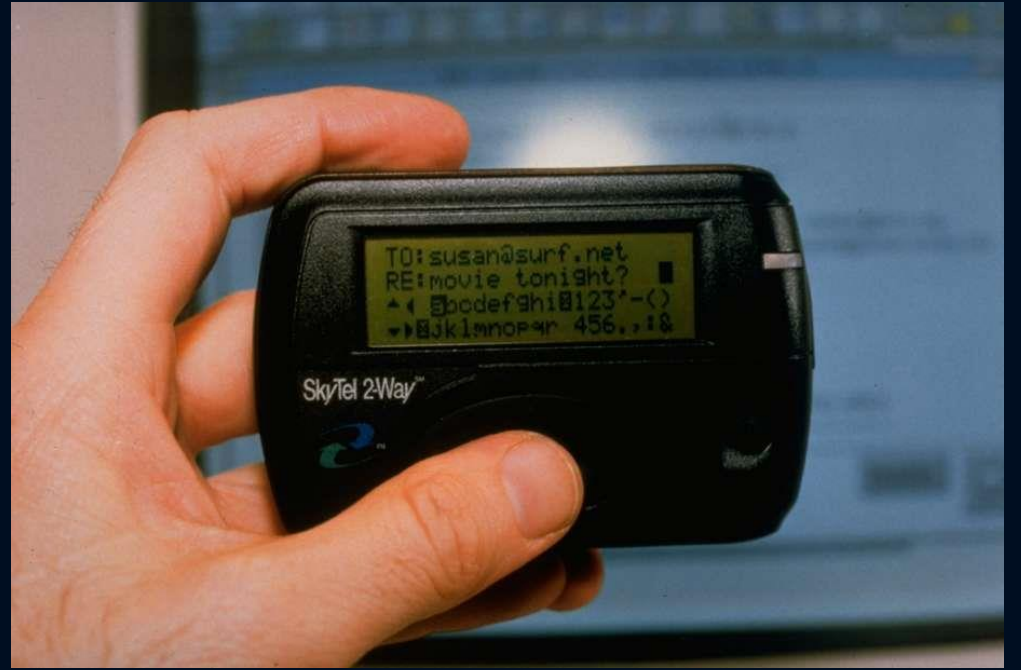


Racing Toward Extinction

HOW OUR PASSION, INNOVATION AND VISION
ARE CHANGING THE WORLD

JOHN BARTON
ASSOCIATE VICE CHANCELLOR
THE TEXAS A&M UNIVERSITY SYSTEM

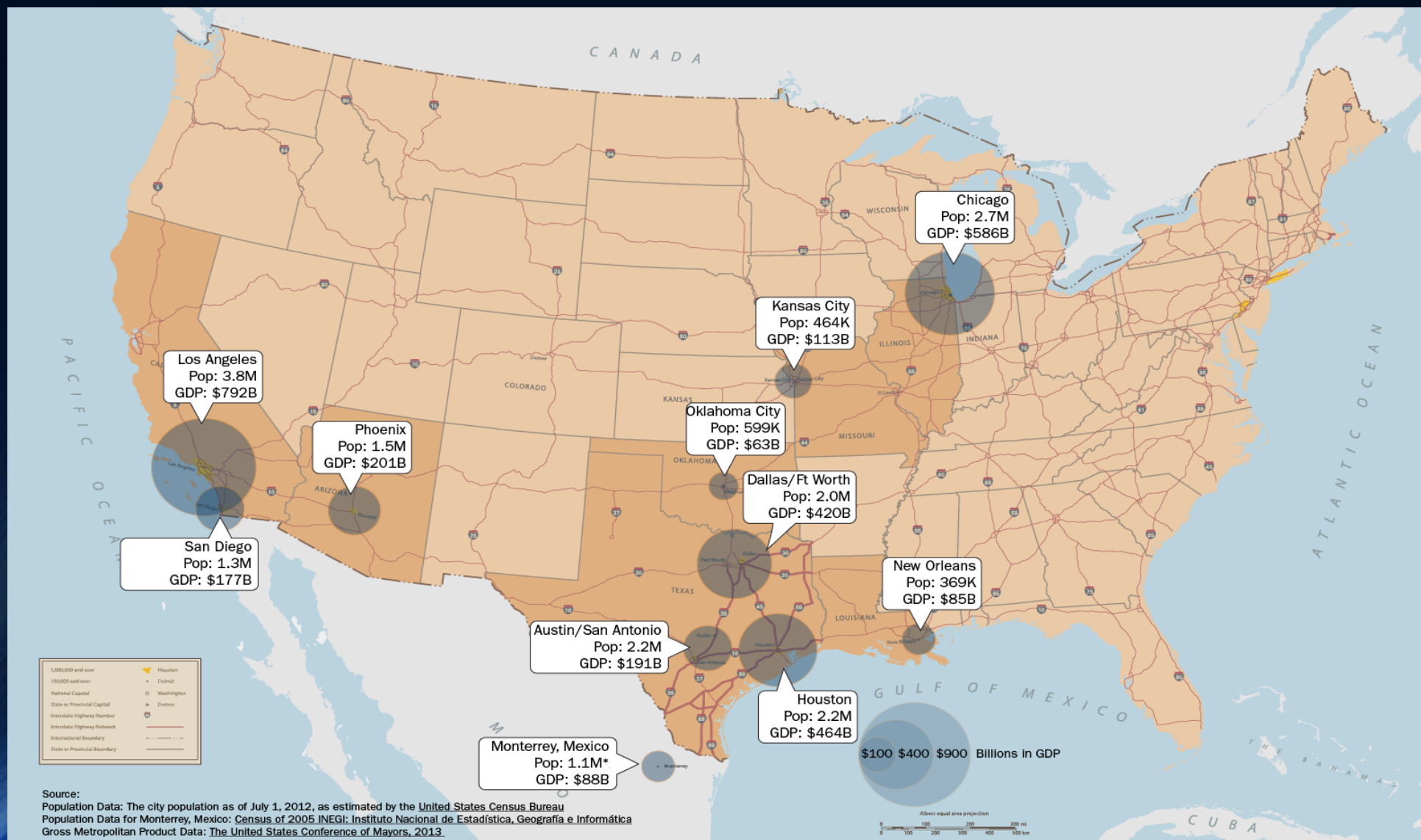








Comparative Cities Population and GDP



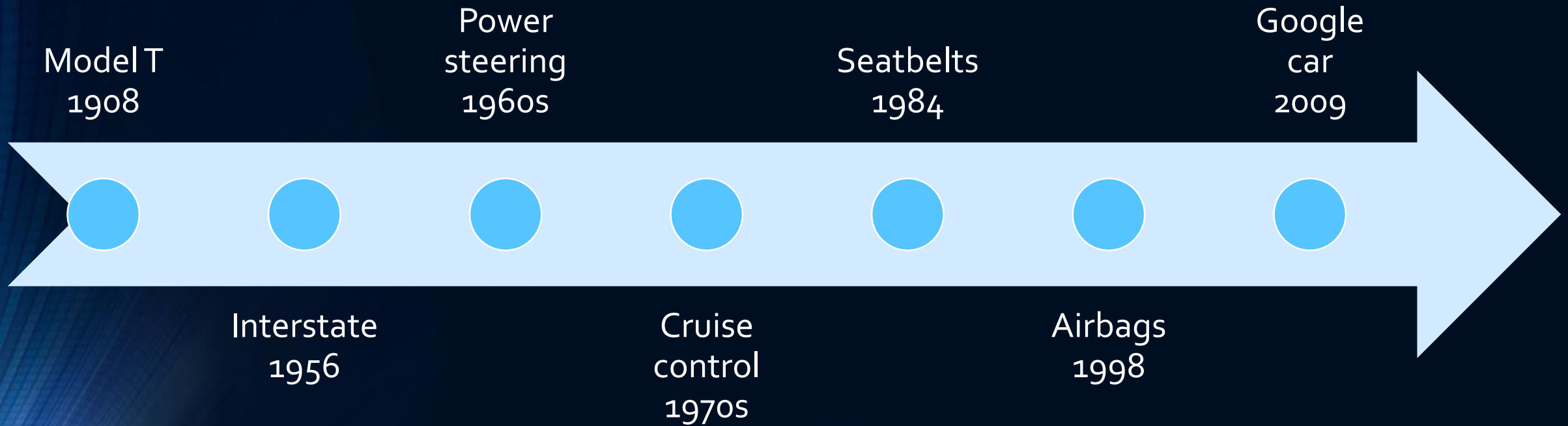
1.3 million

3,700

20 – 50 million

38,000

The Transportation Continuum



From the Old ... To the New



The Past ... The Present



The Past ... The Present



The Past ... The Present



The Past ... The Present



The Past ... The Present

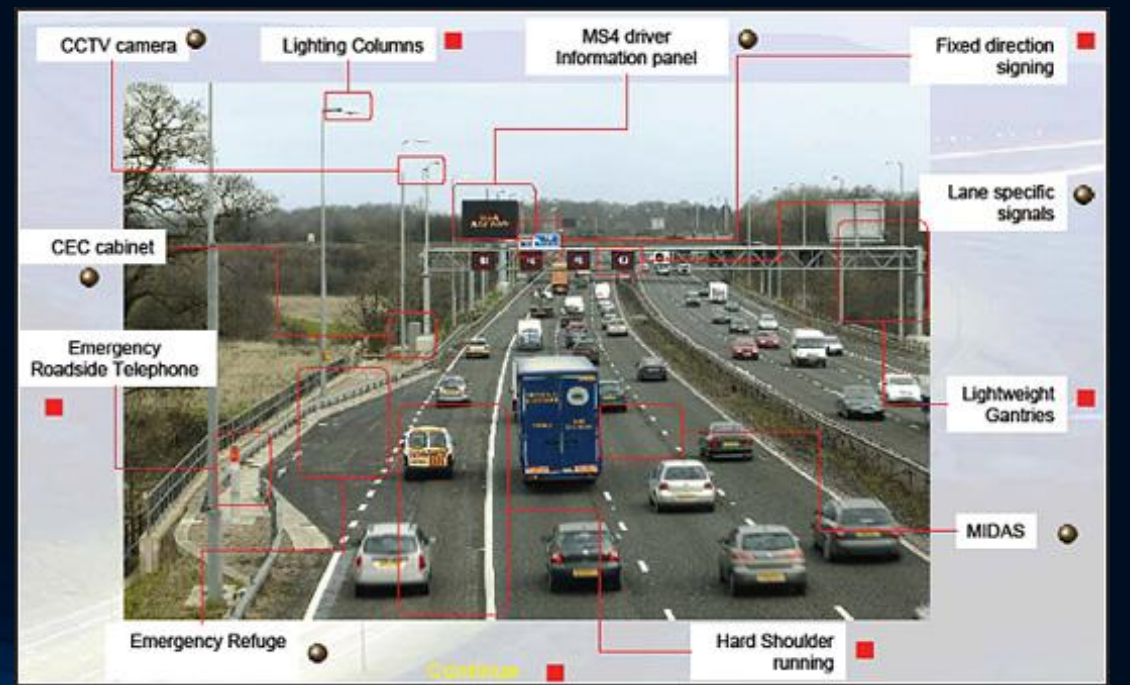


The Not So Far Away Past ... The Present



Can you imagine?





Aspects of Smart Communities

- *Renewable Energy*
- *Smart, Zero Energy Buildings*
- *Intelligent Transportation*
- *Smart Water*
- *Smart Healthcare*
- *Internet of Things*
- *Industry 4.0*
- *Sustainability*
- *Cyber Security*







Automotive Market

- Vehicle manufacturers are investing in CV / AV technologies
- Consumer awareness / interest high
- New partnerships are being formed
 - e.g., GM invests in Lyft

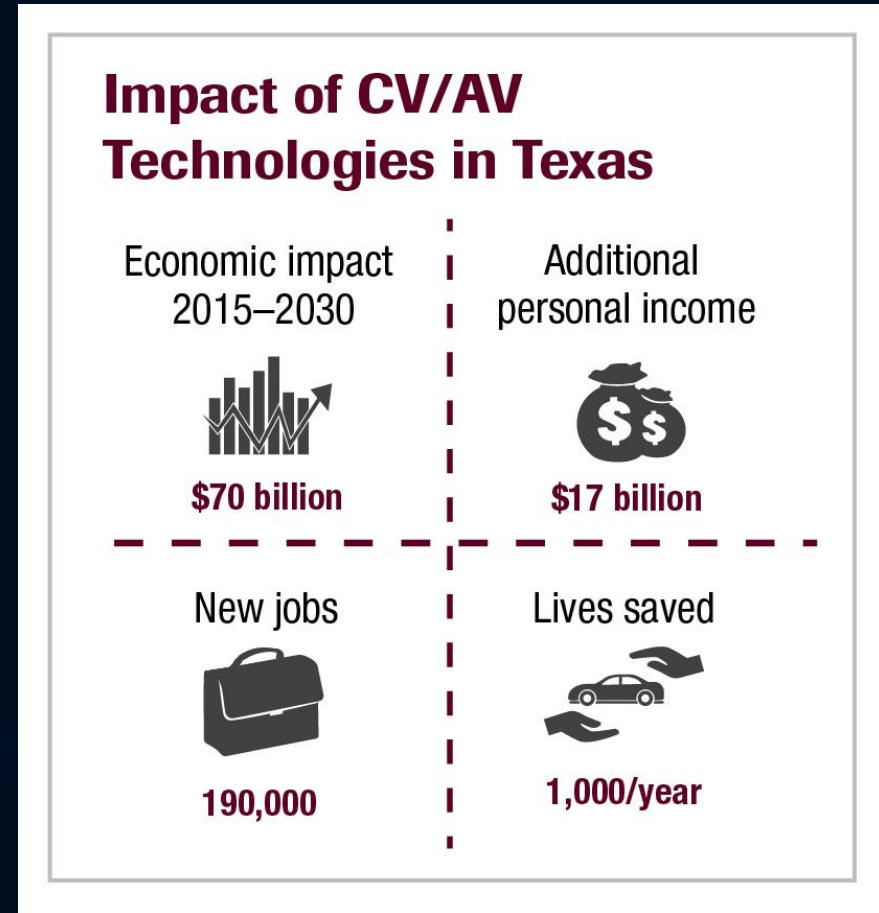


Vehicle Manufacturers Investing in CV/AV Technologies

 \$4.5B	 \$12B
 \$1B	 \$0.5B

Estimated Impacts in Texas

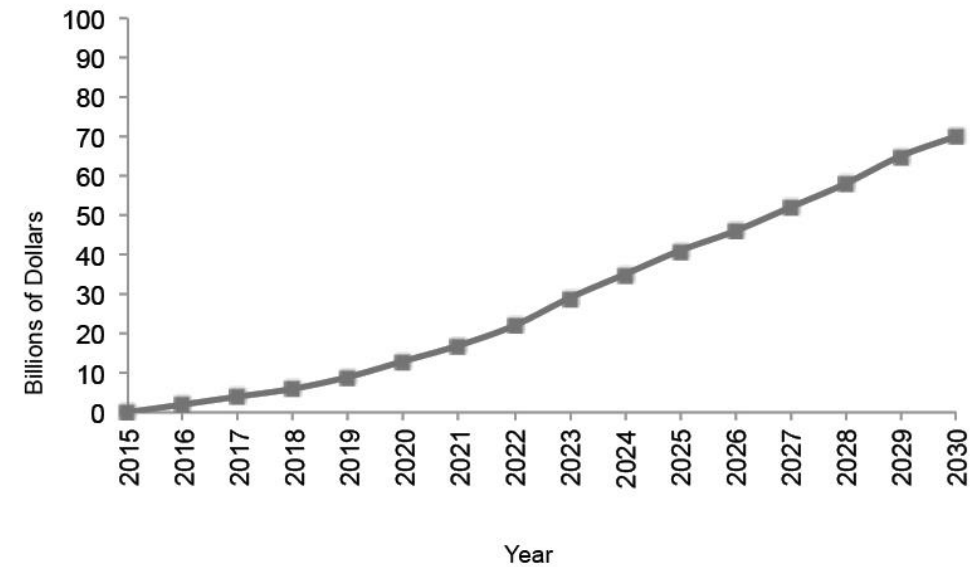
- Texans could see economic impacts of:
 - New jobs
 - Additional income
 - Reduced congestion
 - Reduced crashes
 - Saved lives



Estimate of Impacts

- Potentially over \$70 billion by 2030
- 190,000 new jobs
- \$17 billion in additional income

CV/AV Economic Impact



INNOVATION STRATEGY FOR SUCCESS



Private Sector

Public Sector



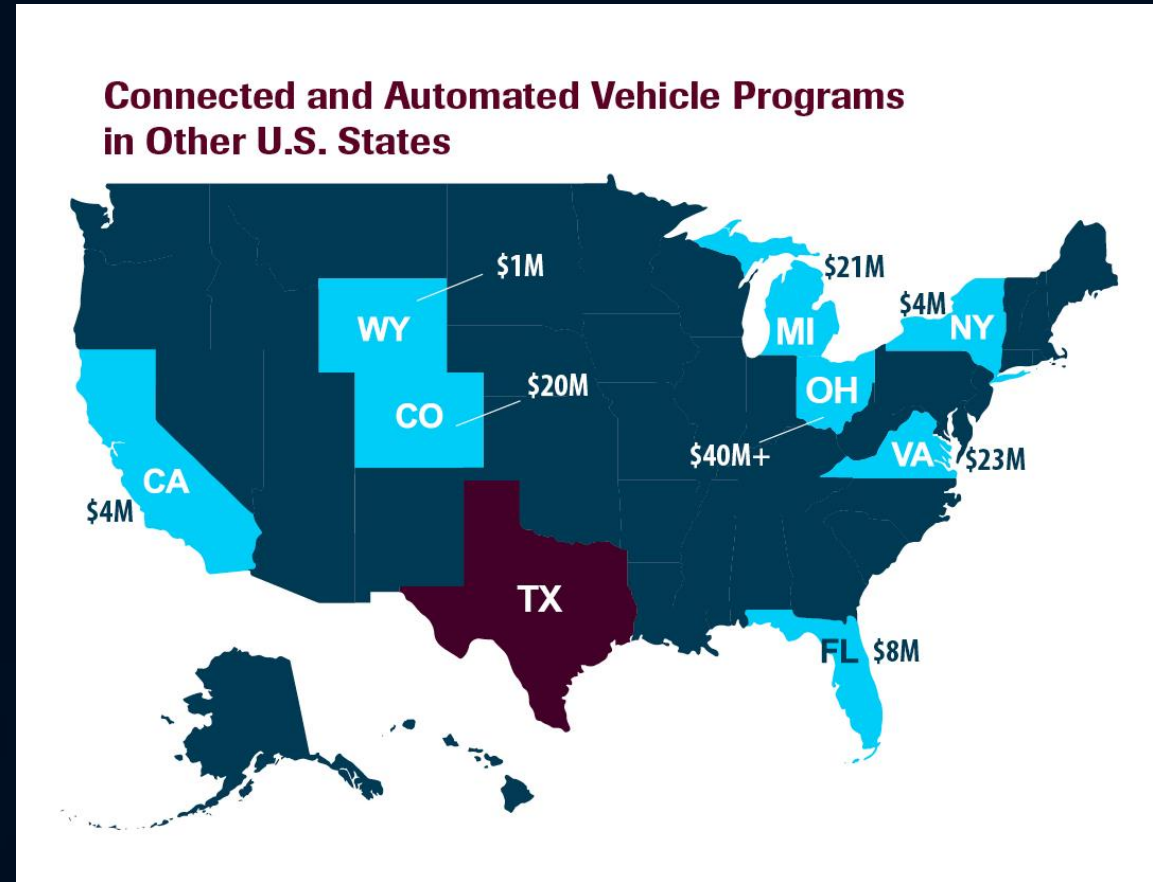
Consumers



Academia

National Initiatives

- CV Pilots
- Smart Cities
- DOT Investments
- DOT/Academia Collaborations

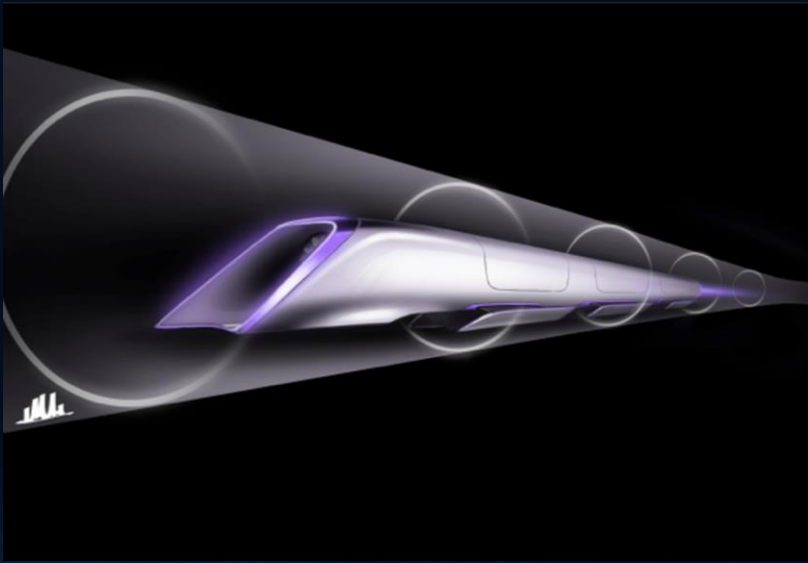


Innovation and Collaboration Centers



THE TEXAS A&M UNIVERSITY SYSTEM
RELLIS CAMPUS





What is possible?

- Greater growth in sharing economies?
- Transportation as a service?
- Shifts in global economies?
- Emergence of Smart villages?
- Worldwide internet coverage?

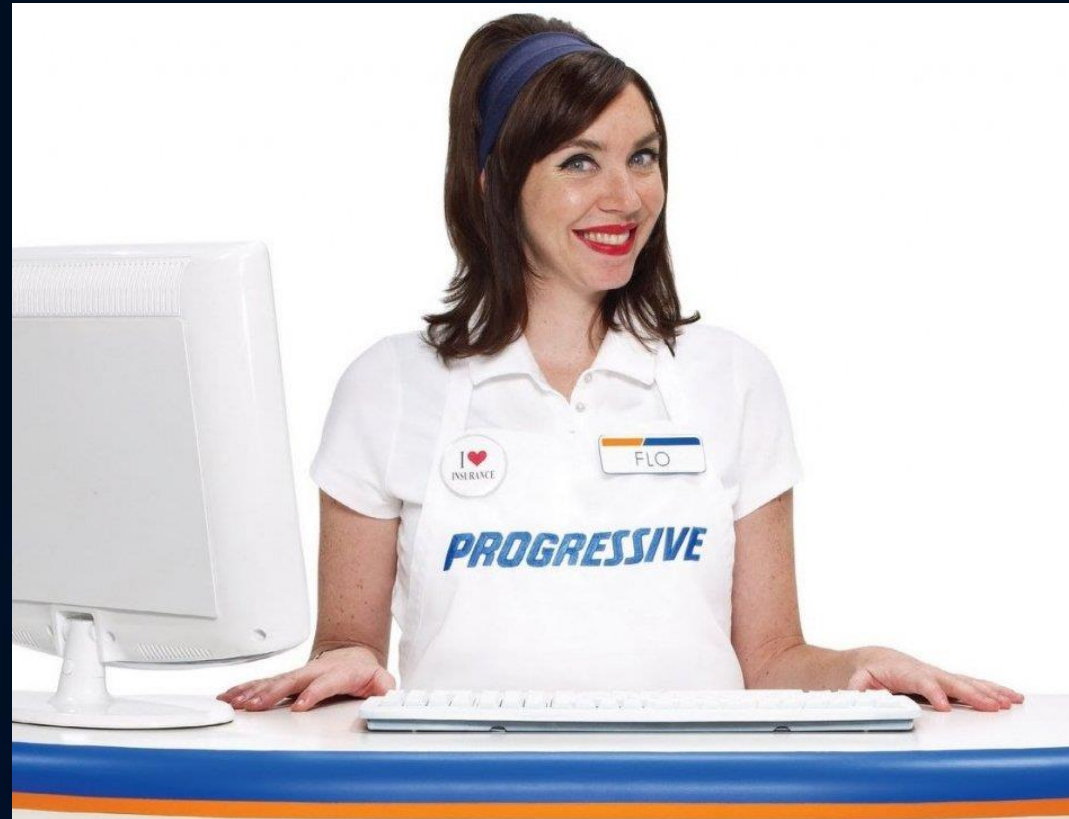


How will we...

- build a network that will allow these things to work?
- pay for all of it?
- adjust to changing technologies?
- manage if the Internet goes down?
- answer the social and political questions that come from these new technologies?



And what will we do with Flo?



Above all It is personal!

