

# Future Transit Scenarios

## PodCar City 9 – *Silicon Transportation!*

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# Noblis

*Noblis delivers creative, forward-thinking solutions that help our clients achieve their missions.*

## MISSIONS WE SERVE

National Security

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Health

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Enterprise Engineering

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Energy & Environment

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Intelligence

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Transportation

## Our Capabilities, Services & Tools

*In addition to our core mission solutions, Noblis also provides substantial support in the following areas:*

- Science & Technology
- Acquisition Support
- Program Management
- Systems Engineering
- Complex Data Analytics & High Performance Computing
- Sustainable Facilities
- Recall Management



*We work in collaborative, multi-disciplinary teams to find solutions to the most complex problems that our customers are facing today.*

# U.S.DOT Intelligent Transportation Systems (ITS) Joint Program Office (JPO)

- Focus Areas:
  - intelligent vehicles,
  - intelligent infrastructure
  - creation of an intelligent transportation system
  - integration between components.
- Support Activities
  - overall advancement of ITS through investments in;
  - major research initiatives,
  - exploratory studies,
  - deployment support programs, and
  - technology transfer and training
- See more at: [http://www.its.dot.gov/its\\_jpo](http://www.its.dot.gov/its_jpo)



# Transit Future Scenarios

- “In this great future you can’t forget your past...”
- Opportunity to correct mistakes
- New focus areas of personal mobility, integration, and connection
  - Accessibility
  - Equity
  - Energy
  - Environment
  - Design



# A Changing Transportation System

- USDOT's *Beyond Traffic 2045*
- Population growth
- Changes in demographics
- Highest transit ridership since 1950s
- Technological advances
- Financial and infrastructure challenges
- Need new approach to meet challenges of tomorrow



<http://www.transportation.gov/BeyondTraffic>

# Growing Mobility Demands

- Aging Americans Require Mobility Choice
  - Older Americans on the rise
  - From 2005 to 2020 there will be 30 million additional people age 60 or older
  - “Aging in place” requires unique mobility options
- Millennial Americans Want Mobility Choice
  - Public transportation utilization is on the rise
  - Younger generations want both convenience and cost savings
  - 66% of Millennials consider transportation alongside housing decisions
- All Travelers Need Mobility Choice
  - Veterans with disabilities
  - Travelers with disabilities
  - Low income individuals & minors



# Wild Wild West of Transportation

- Google developing autonomous car
- Avis Budget Group purchases Zipcar
- Uber provides ad hoc delivery services
- Ford develops foldable electric bike
- Daimler buys Car2Go & RideScout
- Enterprise buying carsharing organizations
- RideScout acquires GlobeSherpa
- Amazon envisions package pickups on public transit



FORD SMART MOBILITY



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**“A developed country is not a place where the poor have cars. Its where the rich use public transportation”**

Enrique Peñalosa

Former Mayor of Bogotá, Colombia



# Overview - Future Transit Scenarios

- 4 scenarios build on one another
- Scenarios are based on hopeful evolution of progressive & proactive policies
- What will the future of mobility look like in 2045?
- What's your opinion?
- Did we change your mind?



# Scenario #1 – Status Quo

- Continued Congestion
- Failing Infrastructure
- Disjointed Policy
- Financial Challenges Persist



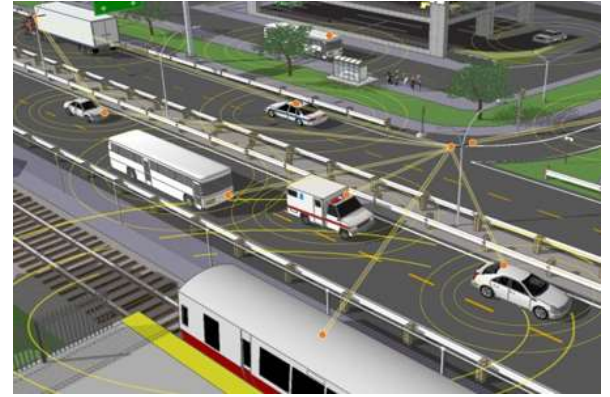
# Scenario #2 – Integrated Transit

- Integrated Payment Systems
- Bikeshare, Carshare, Transit Coordination
- Competing Business Models
- Some Transit Prioritization



# Scenario #3 – Connected Mobility

- Demand Response Transit
- Connected, Smart Transportation
- Situational Mobility
- Infrastructure Optimization



# Scenario #4 – Automated & Connected

- Vehicle Automation
- Progressive Land Use Design
- Ubiquitous Data
- Advanced Integrated Mobility Services





# Poll #1 – Future Transit Scenarios

- What will the future of mobility look like in 2045?
  - **Scenario #1 - Status Quo**
  - **Scenario #2 - Integrated**
  - **Scenario #3 - Connected**
  - **Scenario #4 - Automated**



# Poll #2 – Future Transit Scenarios

- Scenarios Build on one another
- Scenarios based on the evolution of progressive and proactive policies
- What will the future of mobility in 2045 look like?
  - Scenario #1 - Status Quo
  - Scenario #2 - Integrated
  - Scenario #3 - Connected
  - Scenario #4 - Automated
- Did PodCar City 9 change your mind?

