

Envisioning Florida's Future in an Automated Vehicle World



FDOT 2015 AV Summit

Tim Chapin and Lindsay Stevens, Project PIs
Department of Urban & Regional Planning
Florida State University
December 1, 2015



Session Schedule

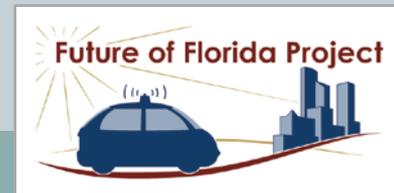


Session Overview (~10 minutes)

Table Introductions and Instructions (~10 minutes)

Urban Immersion Experience (~60 minutes)

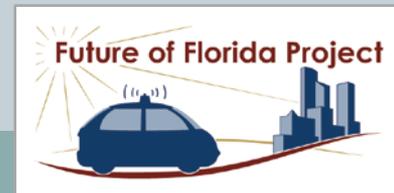
Session Wrap-Up (~10 minutes)



Project Purpose



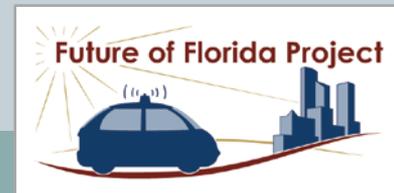
To engage AV Summit participants in a collaborative small group exercise to **envision the *Future of Florida in an Automated Vehicle World***, brainstorm about this future and then document a range of potential actions that can promote a smooth and efficient transition to a transportation system dominated by automated vehicles.



The Built Environment



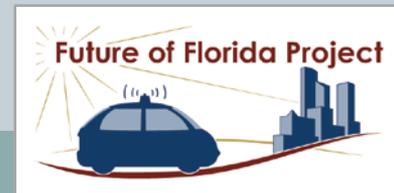
- The Built Environment is generally understood as **the human-made environment and how it impacts patterns of activity within that environment**, including:
 - ***Urban Design***: The design of places and how they function
 - ***Land Use***: Distribution of activities across space
 - ***Transport System***: Physical infrastructure that promotes movement across space



Today's Issues of Interest



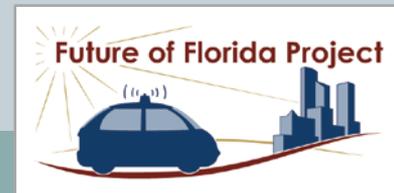
- We are focusing upon a core set of issues at the intersection of AV technology and the Built Environment.
 - *Streetscape Design*
 - *Roadway Function*
 - *Impacts on Bicyclists and Pedestrians*
 - *Parking (Form, Location and Function)*
 - *Potential for Land Use Changes*



Topics Not Considered Today



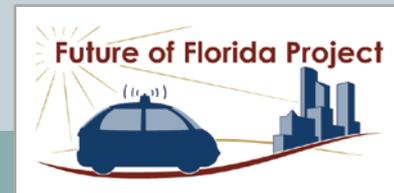
- We will not have time to entertain the following topics:
 - *The Design and Function of AVs*
 - *Impact of AV on Freight Logistics*
 - *Demographic Trends in Florida*
 - *Sprawl vs. Compact Development due to AVs*
 - *Impacts of Climate Change on Communities*



The Rules of the Game



1. The Baseline Assumptions cannot be changed.
2. Facilitators will keep you focused upon the potential impacts of AV on the Built Environment.
3. Participate actively, but not dominate the conversation.
4. Stay engaged with your group.
5. Turn off your cell phones, and do not leave your table.
6. Think creatively, all ideas are good ideas.
7. Enjoy yourself!



AV Technology Basics

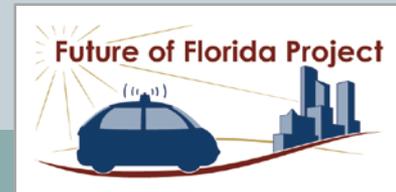
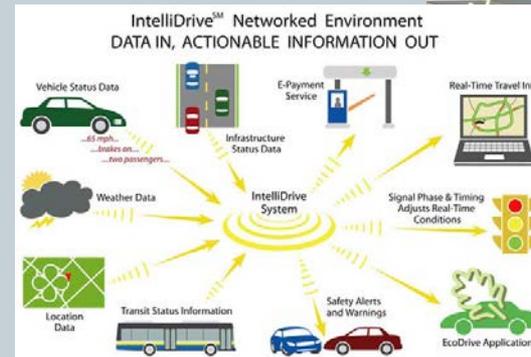
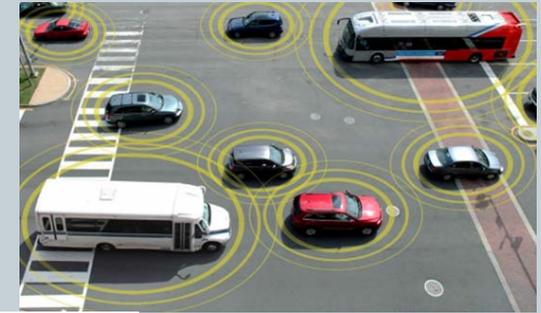
Automated Vehicles

- Fully self driving vehicles
- Fully self parking vehicles



Connected Vehicles

- V2V communication
- V2City communication



AV Market Assumptions

2040

- 50% Fully Automated
 - 90% Privately Owned
 - 10% Shared Ownership
- 50% Human-Operated Vehicles

2060

- 100% Fully Automated
 - 70% Privately Owned
 - 30% Shared Ownership
- 0% Human-Operated Vehicles

Reminder: These Assumptions are Not to be Debated!



The Urban Settings

Downtown

Orlando

Medical/Univ Campus

USF/Medical Complex

Urban Arterial

US-19 in Pasco County

Transit Oriented Place

Dadeland in Miami

Each table will focus upon one of these Urban Settings



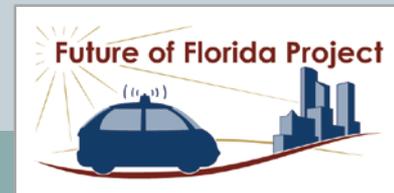
Today's Charge



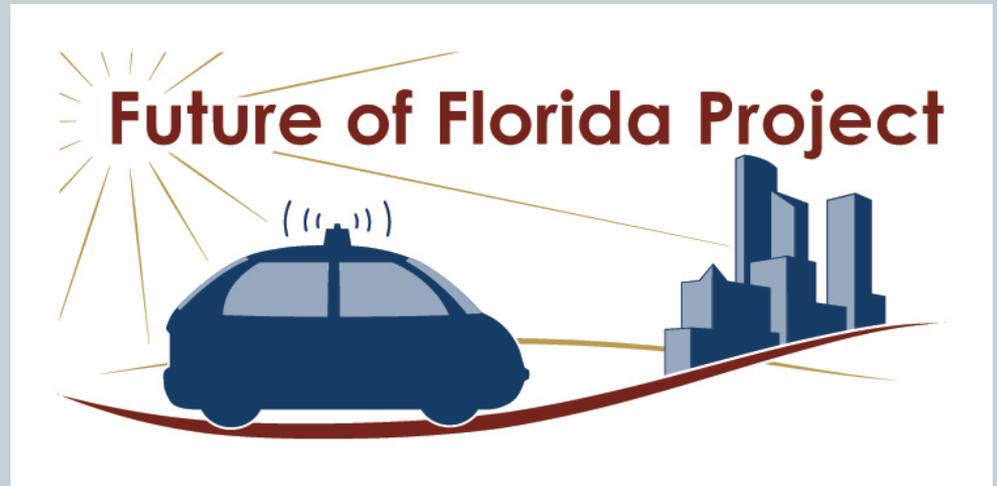
We invite you to **share your ideas about how the rollout of AV technology will impact Florida's Built Environment.**

We ask you to travel through time, engage the future, and offer insights into how Florida will change as AV technology takes over the transportation industry.

We are excited to hear from you about your trip!



Envisioning Florida's Future in an Automated Vehicle World



To provide additional feedback please take our survey at:
<http://tiny.cc/FSUFutureofFL>