The Future of Mobility
House Transit Study Commission
A Recent Project Timeline

1. **Review Literature**
   - August 2016

2. **Interview Experts**
   - September 2016

3. **Define Baseline Trends**
   - October 2016

4. **Identify Priority Trends**
   - November 2016

5. **Framework Analysis**
   - December 2016

6. **Illustrate Policy Implications**

7. **Execute Actions & Plans**

   - 2017

- **Uber tests fully AV ridesharing in Pittsburgh**
- **USDOT releases Federal Autonomous Vehicles Policy**
- **Uber and Anheuser-Busch make first AV Freight Delivery**
- **Insurance Journal publication on insuring AV’s**
- **City of Atlanta North Ave Project makes the news**

Transpo Tech Companies in Q3 2017

Transportation tech startups are creating new businesses in 17 categories

- Fleet Management
- Telematics
- Smart City
- Car Sharing
- Mapping/Location
- Ride Hailing
- Auto Wireless Networking
- Individualized Insurance
- Clean Tech
- Intelligent Transit
- Public Transit
- Smart Parking
- Infotainment
- Autonomous Cars
- Enhanced Auto Ownership
- Clean Tech
- Intelligent Transit
- Public Transit
- Smart Parking
- Infotainment

The full Venture Scanner market report and database tracks 1,148 companies with $84B in funding.

Source: Venture Scanner Transportation Tech Report Q3 2017
The future is both here and there
None of this success matters if we don’t plan with people in mind
What will we build?
The Goal

- **High**
  - Congestion
  - Emissions
  - Fatalities & Injuries

- **Medium**
  - Travel Choices & Reliability

- **Low**
  - Equity

**Traditional / current conditions**
- More on-demand services, CVs, ICM deployment

**Near-term**
- Shared electric CVs, advanced logistics

**Mid-term**
- Shared electric AVs, smarter infrastructure
Smart Community Future

Vehicle Technologies

Data + Connectivity

Mobility Options

System Management & Smart Infrastructure

Freight & Logistics

Smart Communities
Smart Mobility Future
What does this all mean for transit?

- **Better use of smart phones**
  - Payment
  - Trip planning
  - General info
- **Cost and convenience**
  - Chicago Transit Authority vs UberPool - On average UberPool was 6 mins faster but 5x’s the price
  - Bus priority signal can help improve convenience
- **Ever Improving Collaboration**
  - Amongst Operators (agreements, cost sharing, and data sharing)
  - With Private firms (innovation)
  - With Civic Tech (clean open data)
- **Potential hurdles**
  - Updating enterprise software
  - Updating Zoning
  - Writing agile policy
  - Fare collection & Revenue sharing
How?

• Ground work has been laid through the Breeze agreements to foster a Mobility as a Service (MaaS) Future
• Keeping an eye on those testing blockchain solutions which may be key to MaaS
• Great leadership at a prime time for enhancing the state of Georgia for its Residents, Visitors, and Business Community
Our Immediate Future

- Will consist of Autonomous Self Driving Shuttles
  - We should lease rather than purchase these
  - They should all be ADA compliant
  - All will be electric
  - Routing should be as dynamic as possible
    - Understanding that the mapping of a route can take anywhere from 20 mins to 2hrs
    - Data of ridership (counts, direction, length of travel, duration, etc) should be shared with local governments
  - Highly recommended for first/last mile connectivity
Closing Thoughts

“People born today will never drive a car”
- Henrik Christensen
UC San Diego Robotics

“A blind person could have access to the same things as a seeing person.”
- Kevin Dopart - Managing Director
Intelligent Transportation System Joint Program Office