A Look into the Crystal Ball
Tomorrow’s Technologies Impacting Intermodal
1st Container ships were converted T2 Tankers after WWII (1940)

Concept of unmanned container ship (2015)
German Container Crane (1773)

"Alter Kranen Würzburg" by Welleschik

Ship-to-Shore Cranes with AGVs (2015)
Fruehauf, 1st semi-truck manufacturer (1914)
www.photos.metrotimes.com

Daimler-Freightliner, 1st autonomous semi-truck
usatoday.com
CNJ American Steam Locomotive (1800s)
www.northeast.railfan.net

Positive Train Control
www.tessco.com
Technology Adoption Rate

Moore’s Law
Federal and State Roles in Planning for Tomorrow’s Technologies Impacting Intermodal

1) Policies & Legal Issues
2) Infrastructure/Technology
   • Roadway improvements
   • Roadside devices
   • Design standards
   • Engineering standards
   • Infrastructure investment
3) Modal Applications
   • Transit, Freight, ILCs, Ports
4) Land Use Impacts
Federal and State DOT Collaboration for Success

Interoperability
Standard protocols for software/hardware - requirements for seamless communication between states and regions

Reciprocity
Consistent state statutes and regulations to allow for AV/CV technologies to operate coast-to-coast

Testing and Pilot Agreements
If state laws are not consistent, states should be agreeable to support inter-state testing and pilot projects

Avoid Piecemeal Regulations
Coordinate efforts amongst the states to provide USDOT with best practices and regulatory considerations

US House Committee on Transportation and Infrastructure has expressed concern
Land Use Impacts

Wide scale adoption of AV/CV technologies will alter transportation usage, site development, and ultimately land use patterns.

- Drop off zones
- Vehicle lane design standards
- Parking location
- Enhanced multi-modal options
- Ride sharing
- Commuting patterns
Active FDOT Initiatives

- Traffic Operations (ITS) Office Implemented the Connected-Vehicle Test Bed in Orlando (2011)
- Contract for the Planning of Automated Vehicles
- Stakeholder Working Groups
- University Research Partnerships
- Public Outreach & Education
- Pilot Projects
FLORIDA DEPARTMENT OF TRANSPORTATION PRESENTS

FLORIDA AUTOMATED VEHICLES

SUMMIT 2015
JACKSONVILLE, FLORIDA
DECEMBER 1 - 2, 2015

SAVE THE DATE

www.AutomatedFL.com