



Welcome and Program Overview: TransOvation 2019

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What is TransOvation?

- ▶ Not a conference, a workshop
- ▶ The intent is not to “sit back and listen” – but rather to engage throughout the workshop. Workshop topics will set the stage, workshop leaders will encourage your engagement.
- ▶ The workshop goal is to explore / define what changes are necessary for transportation to thrive.

What is TransOvation?

- ▶ **How can TransOvation help create policy at ARTBA?**
- ▶ ARTBA is a non-partisan federation whose primary goal is to ensure transportation infrastructure meets the public/private sector demand for safe and efficient mobility.
- ▶ ARTBA is a comprehensive cross-section of our industry: owners, designers, suppliers, and builders that deliver transportation infrastructure.
- ▶ ARTBA leverages industry know-how to develop and advocate consensus legislative and regulatory policy positions, and forge coalitions that support transportation infrastructure.

TransOvation Through the Years

- ▶ **2011:** How can transportation infrastructure improvements help revitalize Detroit?
- ▶ **2012:** Develop innovative ideas, concepts, or opportunities to explore ways to dramatically reduce the toll of U.S. deaths and injuries from motor vehicle crashes on the nation's highways that focus on design and infrastructure solutions.
- ▶ **2013:** Identify the roadway design, construction & management implementation challenges posed by game-changing technologies, such as driverless cars and intelligent transportation systems.
- ▶ **2014:** Develop a five-year strategic business plan to position your firm or agency to be a major player in a quickly evolving transportation development and management marketplace that uses “Big Data” and communications technologies to solve mobility and safety problems

TransOvation Through the Years, cont.

- ▶ **2015:** Moving the Ball Forward: Creating a Roadmap to Advance Innovation in Transportation Design & Construction: How can we overcome the challenges to getting new products or innovations into the U.S. Transportation Construction Market?
- ▶ **2016:** How Can We Move Freight More Productively to Give America the Competitive Edge?
- ▶ **2017:** What does the future city look like and how does the transportation design & construction industry prepare for it?
- ▶ **2018:** Addressing Resiliency in Transportation Infrastructure.

TransOvation Brings Real World Results

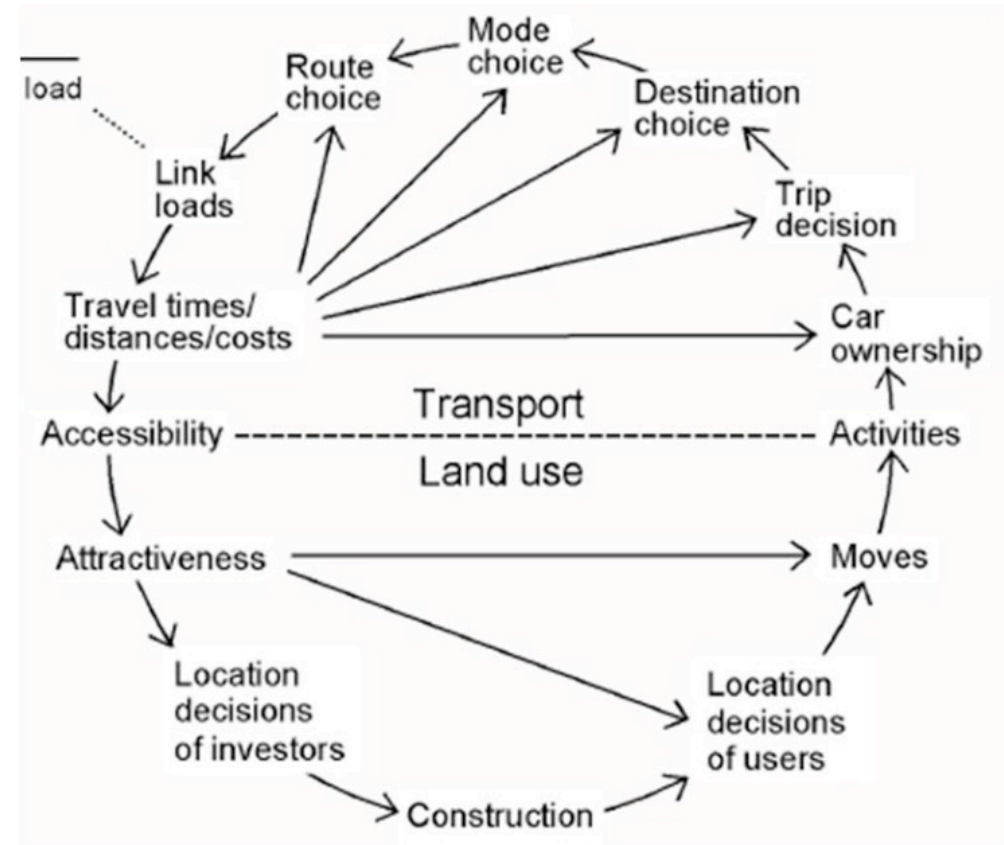
- ▶ The workshop, through group ideas and discussions are intended to bring about change
- ▶ As an example, in the 2015 workshop, the groups focused on the impediments to innovation due to the proprietary products regulation.
 - ▶ In 2018 – ARTBA formally petitioned the U.S. Department of Transportation (USDOT) to repeal the rule.
 - ▶ In 2019 – the rule was repealed.

TransOvation 2019: The Top 5 Disruptors in Transportation Design & Construction

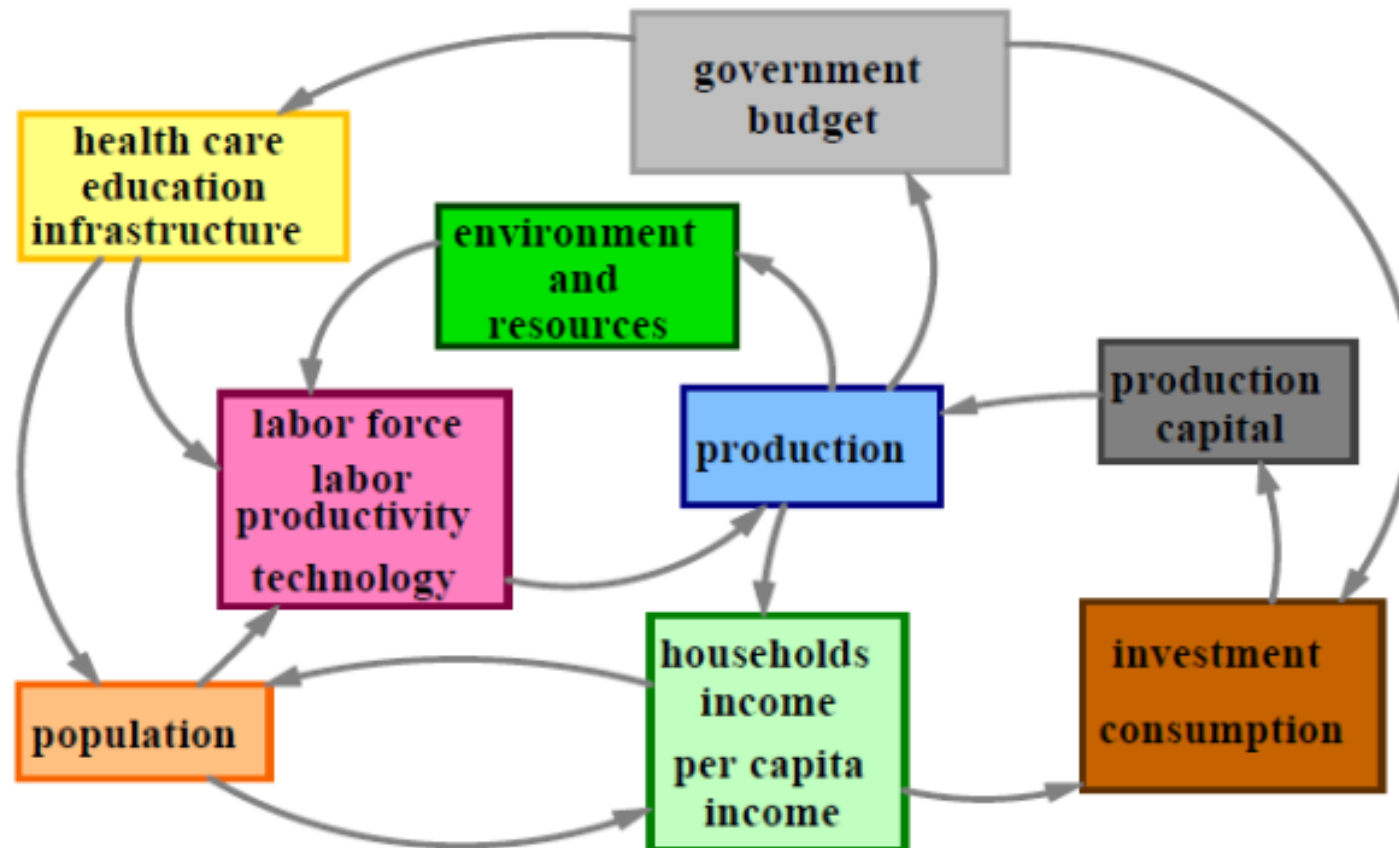
- ▶ Industry Disruptors:
 - ▶ Workforce
 - ▶ Project Funding & Financing
 - ▶ Project Determination
 - ▶ Artificial Intelligence & Automation
 - ▶ Integration of Technologies

Transportation Ecosystem

- ▶ Evolving Customer Needs
 - ▶ Changing Demographics
 - ▶ Changing Modes – Mobility as a Service
 - ▶ Market Forces – Public / Private Sector
- ▶ Evolving Investment Strategies
 - ▶ Federal / State / Local / Toll Mix
 - ▶ New / Replace / Maintain / Decommission
- ▶ Transportation Industry Readiness to Deliver
 - ▶ Sustained Investment
 - ▶ How and where to allocate risk



Dynamic Non-Linear Systems T21 Framework



TransOvation 2019 Workshop Question

After the presentations have concluded, you will discuss the Top 5 Disruptors

- ▶ The goal of this year's workshop, is for you to help ARTBA strategize as to what actions to take / what policies to implement in these 5 areas for the health of the surface transportation sector. There will be a table with each disruptor listed and attendees will have the opportunity to attend any or all of these disruptors to discuss challenges / opportunities in order for ARTBA to position our industry for change.