30-Year National Transportation Policy Framework to the Future

September 12, 2014
Today’s Webinar

• Validate key trends and assumptions that will influence the 30 year plan.
• Develop futuristic visions for what our nation’s transportation system might look like in 30 years.
• Identify decision points and pathways for these choices.
How This Webinar Will Work

We want your input!

This webinar is composed of a number of questions. Throughout the session, participants will be asked to provide feedback regarding trends and future opportunities.

Participants have the opportunity to provide insights through both the chat box and the polling feature that will be presented during the webinar.
1. Financing shortfalls have led to continuing funding crisis, resulting in new diverse funding sources.
Polling Question #1

Financing Trend

• We will likely experience a shift away from Federal support, which will continue to challenge project development. Innovative funding sources will be needed to meet critical transportation needs.
  • On a scale of 1-5 (1=way off; 5=on the mark)
  • Please indicate why in the chat box after answering the poll.
Key Questions

Over the next 30 years, what new financing mechanisms will be used to fund freight and/or passenger transportation?
2. **Aging infrastructure** lacks sufficient investment in maintenance and repair.
Polling Question #2

Aging Infrastructure

• Do you expect that our infrastructure condition will improve or worsen over time?
  • On a scale of 1-5, (1=worsen; 5=improve)
  • Please indicate why in the chat box after answering the poll.
Key Questions

Over the next 30 years, what will happen to the backlog of state-of-good repair needs?

What changes, if any, will occur to support operating and maintenance of freight and passenger transportation systems?
3. Demographic trends toward a larger, older population in smaller households
Polling Question #3

Demographics

• Do you believe that there will be sufficient changes to city, building, station, and vehicle design to accommodate an aging population and meet independent living needs?
  • On a scale of 1-5 (1=does not meet need; 5=completely meets needs)
  • Please indicate why in the chat box after answering the poll.
Key Questions

Over the next 30 years, what new and existing transportation services will be used to meet the transportation needs of our communities?
Migratory trends toward larger cities and more suburban poverty, with immigration as primary driver of population growth.
Polling Question #4

Migration

• Projections indicate that cities will be larger, requiring redesigns in infrastructure to accommodate growth.
  • On a scale of 1-5 (1=way off; 5=on the mark)
  • Please indicate why in the chat box after answering the poll.
Key Questions

Over the next 3 decades, how will we (as a country) provide reliable transportation for a growing population?

How will population growth and land-use changes affect travel patterns and the use of our nation’s transportation system?
Key Questions

What policies can close the gaps in the transportation network for the ‘first and last mile’:

• FOR Passengers
• FOR Freight
4. Domestic and global commercial and economic trends create new challenges for meeting freight and passenger transportation needs.
Domestic and global commercial and economic trends

- Will the transportation infrastructure be sufficient to meet the demands for passenger movement in 2045?
  - On a scale of 1-5 (1=not sufficient; 5=sufficient)
  - Please indicate why in the chat box after answering the poll.
Key Questions

What will be the interaction between freight and passenger movement in our country?
Key Questions

How will changes in household income affect transportation demand?
5. **Technology** enables new applications of data that will enhance roadways and airspace, with new considerations for safety.
Polling Question #6

Technology

• Do you agree that the technologies discussed today will be key drivers for change in our transportation system?
• On a scale of 1-5; (1=way off; 5=on the mark)
• Please use chat box to tell us what other technology changes should be considered.
Key Questions

How can new connected and automated vehicle technologies affect both safety and efficiency?
6. Shifting energy economics and fuel sources create significant disruption (e.g., CNG buses) as well as new opportunities for innovation

![Energy Efficiency of Various U.S. Passenger Transport Modes, 1970-2011](chart)

Source: ORNL, Transportation Energy Database Edition 32
Polling Question #7

Shifting Energy Economics

• Transportation will be using non-traditional energy sources at a rate equal to or greater than traditional sources.
  • On a scale of 1-5 (1=way off; and 5=on the mark)
  • Please indicate why in the chat box after answering the poll.
7. Climate change disrupts infrastructure while low-carbon solutions affect costs and demand.
Polling Question #8

Climate Change

• Over the next three decades, what is the likelihood that the U.S. transportation sector will dramatically reduce emissions?
  • On a scale of 1-5 (1=not likely; 5=very likely)
  • Please indicate why in the chat box after answering the poll.
Key Questions

To what extent will changing climates and impacts from climate change affect where Americans choose to live and create new domestic migration patterns?
US policymakers may need to anticipate and respond to these trends.

- Increased performance measurement
- Potential for regulatory change
  - Environmental
  - Financial
  - Immigration
  - Safety
Key Questions

What role will passenger rail, buses, taxi, bikes, walking or other modal shift play to meet transportation demand over the next 30 years?
Key Questions

How will we achieve a multi-modal freight system over the next 30 years?
Key Questions

As demographics shift, what will be the interaction between freight and passenger movement in our country?
Key Questions

How do we ensure that our transportation system is safe across all modes?
Key Questions

What other emerging issues need to be taken into consideration over the next three decades?
Key Questions

How do we ensure that the transportation workforce has the skills to match the rapidly evolving transportation and information technology advancements?
Closing Questions

In your opinion, what would a world class transportation system look like in 2045?

(Please Respond in Chat Box)
Closing Questions

What key policy initiatives will help achieve your vision over the next 30 years?

(Please Respond in Chat Box)
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