

Traffic Congestion and NHS Performance

A Listening Session on MAP-21 Performance Measures



October 25, 2012 • Virtual Town Hall Meeting

U.S. Department of Transportation

Meeting Schedule and Logistics

Please take a moment to respond to the chat poll by clicking the “pie chart” icon above the video screen.

Meeting Schedule and Logistics

- Introduction and Background – 20 minutes
- Listening Session on 5 Topics – 100 minutes
- Participant Input
 - Webcast Chat – 800 registered attendees
 - Once prompted, submit input by clicking on the “chat bubble” icon above the video display.
 - Phone Lines – 50 connections
 - Muted until Listening Session discussion begins
 - Meeting Room – ~50 attendees

Meeting Objective

Discuss, listen, and learn how ideas can be implemented.

WHY?  **HOW?**

MAP-21 – Managing Performance

- ✓ Establishment of Goals
- ✓ Establishing Measures
- ✓ Setting Targets
- ✓ Developing Plans
- ✓ Producing Reports
- ✓ Assessing Performance



Learn More

www.fhwa.dot.gov/map21 09/11/2012 Webinar Recording

Measures for Today's Discussion

Performance

... to carry out the National Highway Performance Program the Secretary shall establish measures to assess...

the Performance of the NHS (excluding the Interstate)

Congestion

... to carry out the Congestion Mitigation and Air Quality Improvement Program the Secretary shall establish measures to assess...

Traffic Congestion

Evaluation of Candidate Measures

Is it Appropriate?

*Will the measure support
national programs?*



6 Factors

Are We Ready?

*Can data be in place to
support the desired measure?*



6 Factors

Is The Measure Appropriate?

Focused

- Is the measure focused on an area of national interest?

Collaborated

- Has the measure been developed in partnership with stakeholders?

Maintainable

- Is the measure maintainable to accommodate changes?

Impactful

- Can the measure be used to support investment decisions, policy making and target setting?

Track-able

- Can the measure be used to analyze performance trends?

Feasible

- Has the feasibility & practicality to collect, store, & report data for the measure been considered?

Are We Ready to Use the Measure?

Who Provides the Data?

- Federal Agency
- State/Local Agency
- Third Party

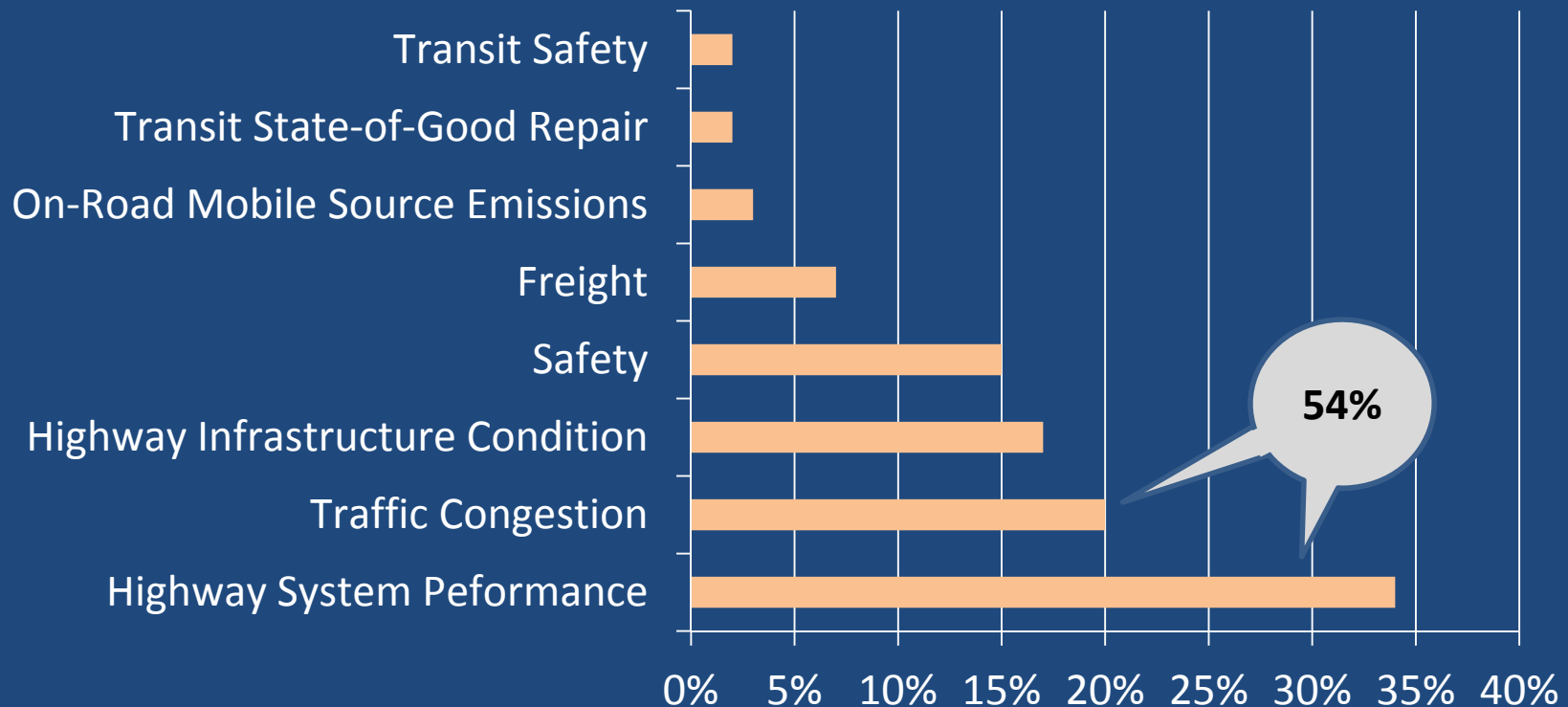
- Collection
- Storage
- Access

Data Quality

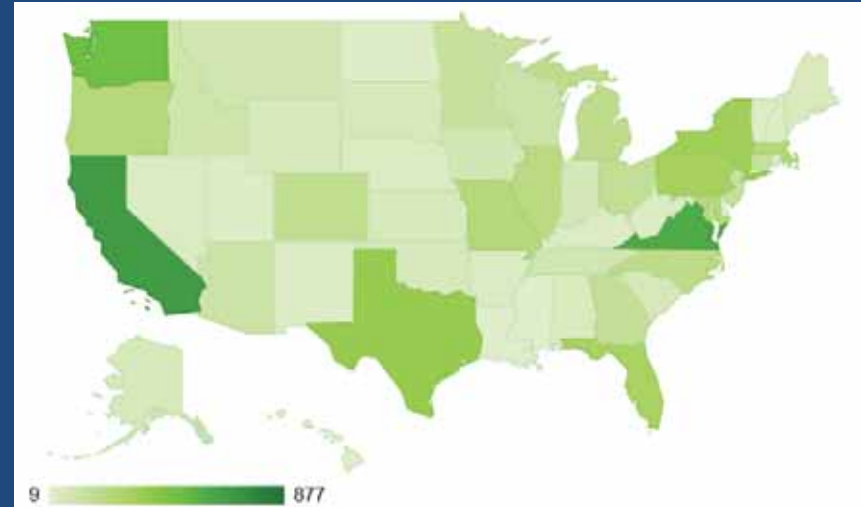
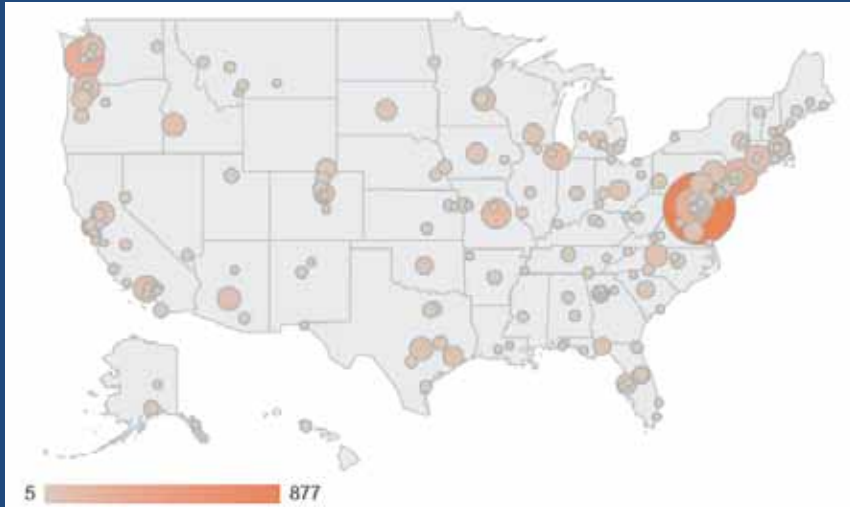
- Timeliness
- Consistency
- Completeness
- Accuracy
- Accessibility
- Data Integration

Online Dialogue Summary

- Visited 8,165 times
- 228 ideas, 293 comments, 3,695 votes
- 8 Campaigns



Online Participation



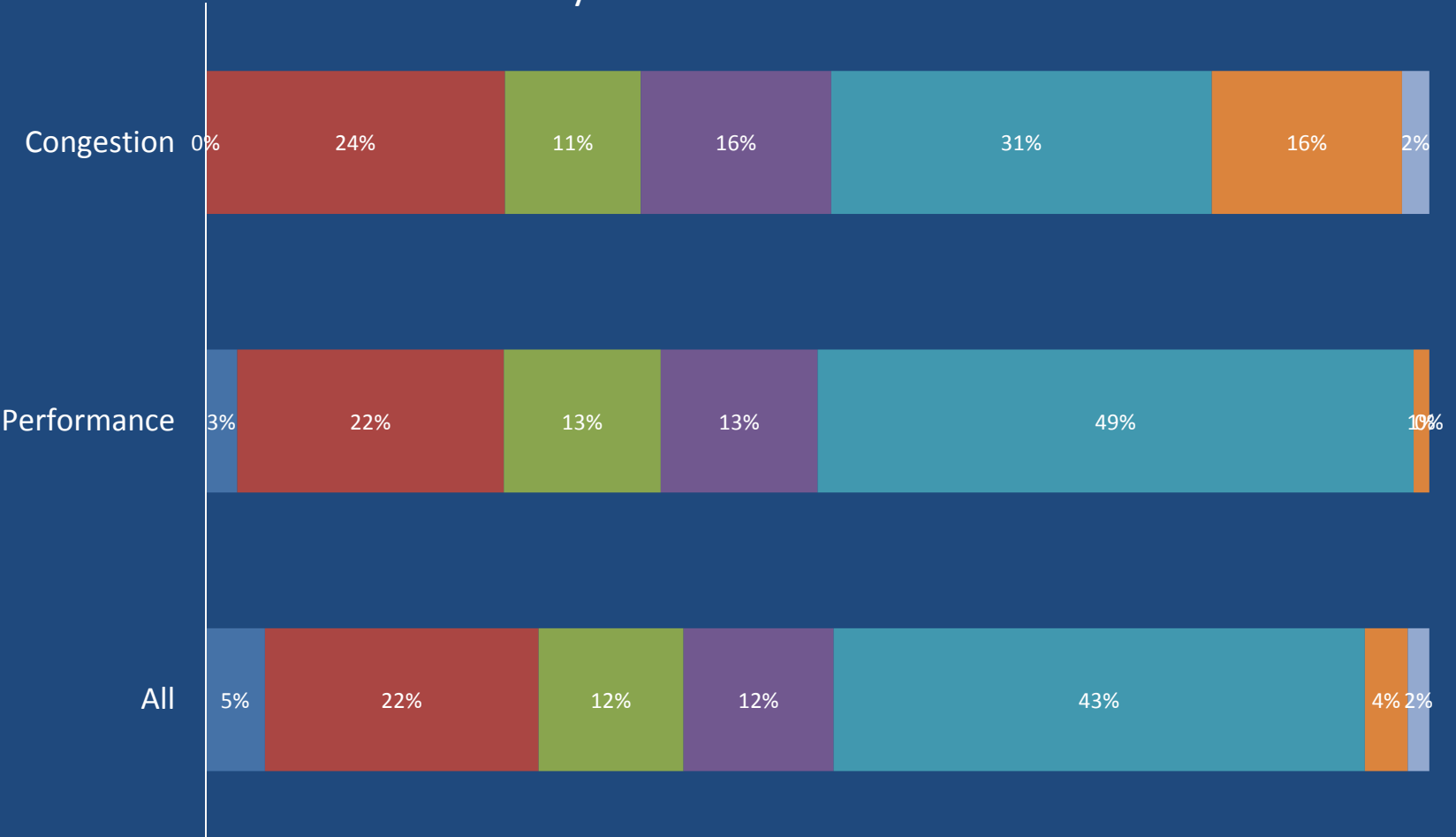
- Federal
- State
- Local/Regional
- Organization

- University
- Individual
- Unknown

Who Contributed Ideas?

228
Ideas

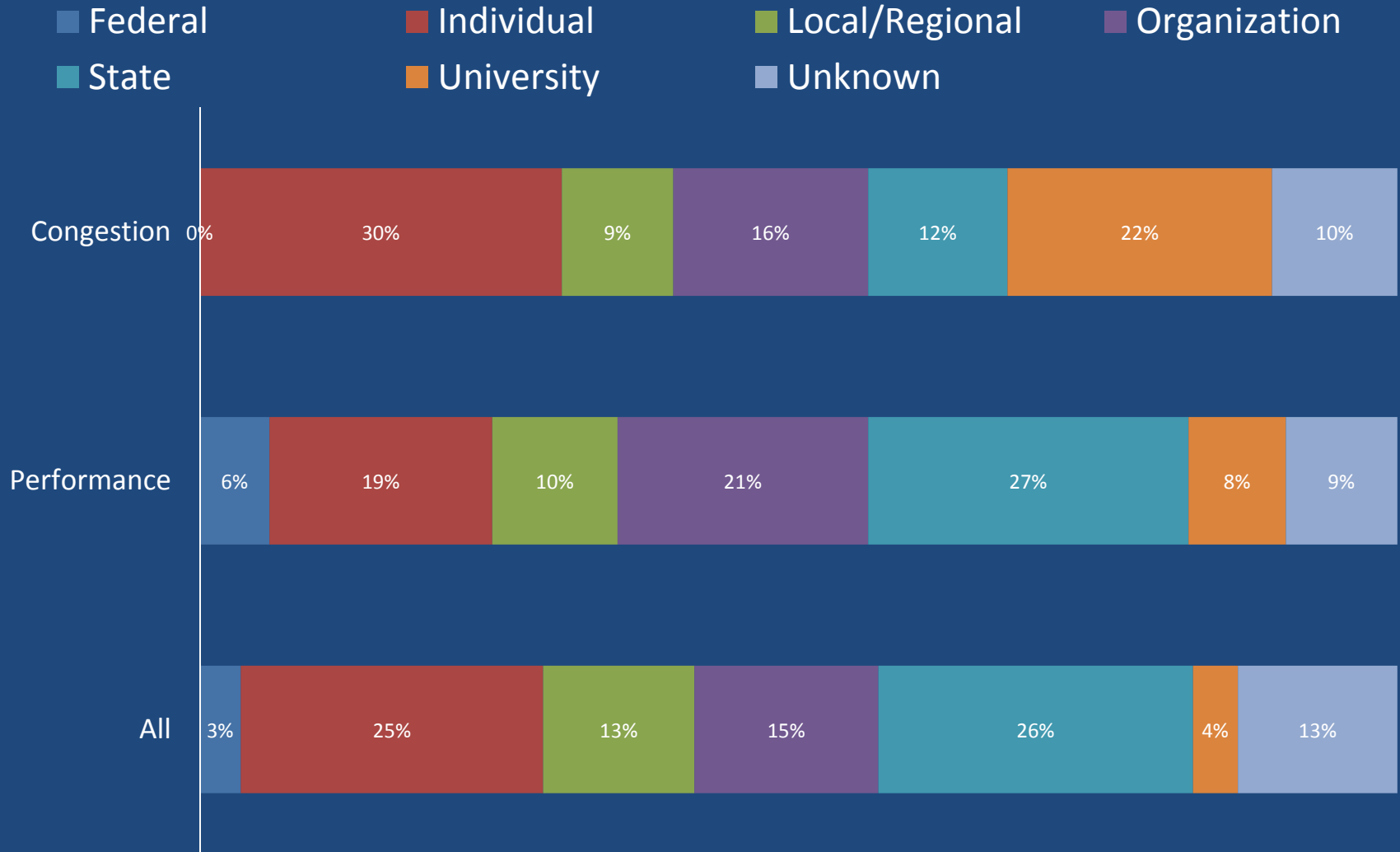
- Federal
- State
- Individual
- University
- Local/Regional
- Unknown
- Organization



The National Online Dialogue is not a statistical study. All numbers are unofficial and presented for discussion purposes only

Who Commented on Ideas?

293
Comments

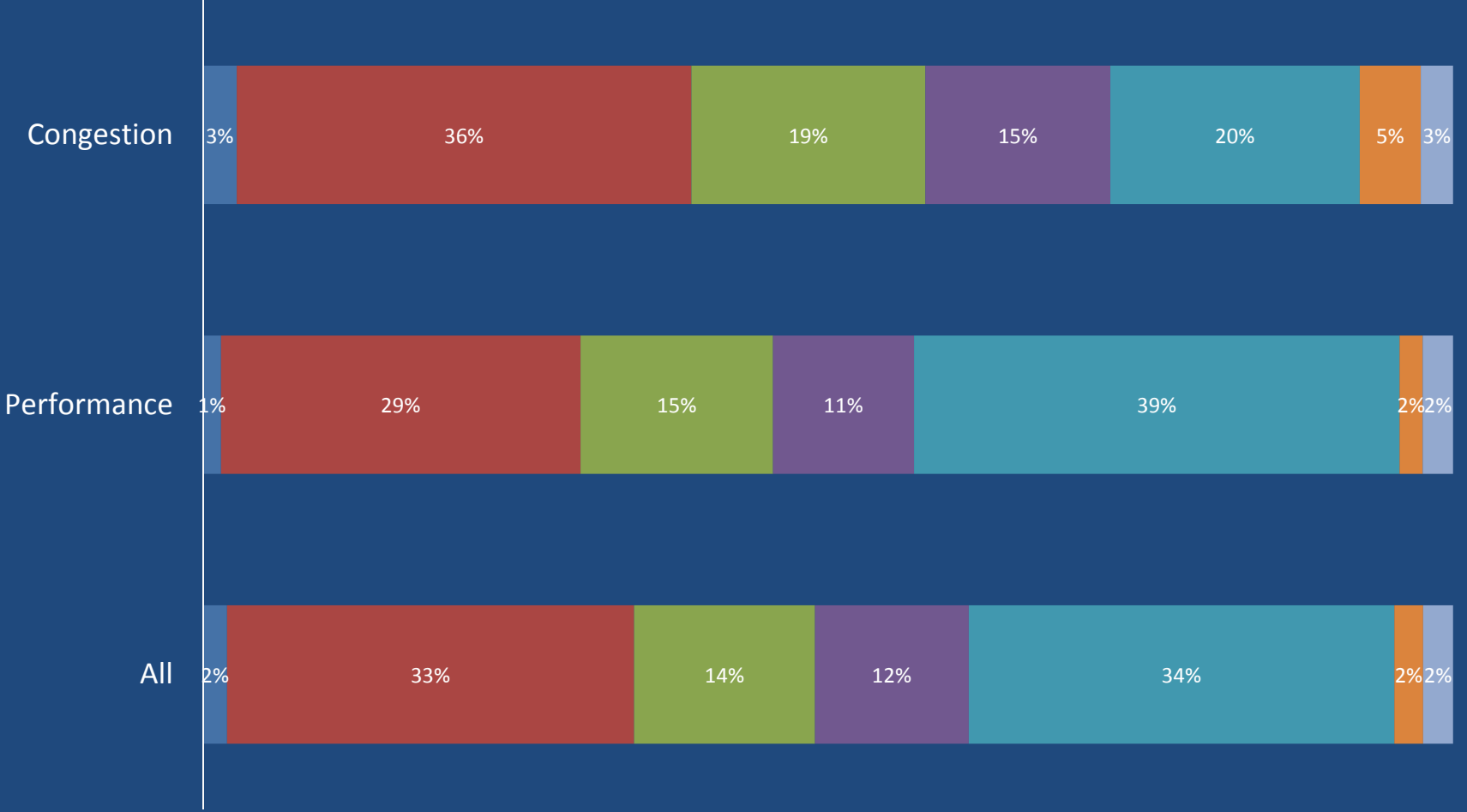


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Who Rated the Ideas?

3,695 Ratings

- Federal
- State
- Individual
- University
- Local/Regional
- Unknown
- Organization



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Logistics for Phone Participants

- Use a hard phone line for best quality.
- Mute the Webcast audio to prevent feedback once we open the phone lines.
- If using a speaker phone, the person speaking should be close to the phone's microphone and speak directly into the microphone.
- Use *6 to mute your phone when not speaking and *6 to unmute your phone (or use your mute button on your phone).

Logistics for Chat Room Participants

- When Prompted by the facilitator, submit your comments to the chat room by selecting the “chat bubble” icon above the video display
- Be concise and clear and try to keep text to a minimum.
- All comments will be logged and viewable to everyone on the webcast.

Logistics for Mtg Room Participants

- Only one person can speak at a time.
- Raise your hand and a we will bring the microphone to you.
- Be mindful of other's desires to participate and keep your comments brief, but informative.

Online Discussion Themes

- Measuring vehicle and passenger movement
- Accounting for the distance and time of trips
- Reflecting multi-modal use and operations
- Linking trans, land use and economic growth
- Cost, availability and timeliness of data
- Providing for a scalable measure
- Setting appropriate thresholds
- Challenges in target setting

Today's Discussion Topic Areas

Measuring the Movement of People

Incorporating Distance in a Measure

Measuring Movement by Transportation Modes

Providing for a Scalable Measure

One Size Does Not Fit All

Measuring the Movement of People

Base Congestion and System Performance measures on the movement of people vs. only the movement of vehicles

- What is the current state-of-practice to measure the movement of people? Is this adequate enough to provide for readily available, current, and affordable data?
- How granular (segment, corridor, system) does the data need to be for performance monitoring and performance reporting? How often does the data need to be collected and reported?
- What opportunities may exist to improve measurements in this area? Can we seize these opportunities within the next 5 yrs?

Incorporating Distance in a Measure

Account for the distance traveled to move from point A to B in the Congestion and System Performance measures.

- If two trips to the same destination take the same amount of time but cover different distances travelled should this difference be reflected in a measure? If so, how can this be done?
- How can distance be accounted for in a measure?
- What are the data sources? Are they readily available and accessible?
-

Measuring Movement by Transportation Modes

Account for all modes of travel available to arrive at a destination in the Congestion measure.

- How can the multiple modes of travel be considered in a measurement of travel for a trip with a defined origin and destination?
- Should multi modal aspects be considered only in metropolitan areas?
- What is the current state-of-practice to measure movements on different modes of transportation? Is this adequate enough to provide for readily available, current, and affordable data?
- How detailed does the data need to be to support performance reporting? How often does the data need to be collected and reported?
- What opportunities may exist to improve measurements in this area? Can we seize these opportunities within the next 5 yrs?

Providing for a Scalable Measure

Measures of Congestion and System Performance should be scalable to provide a view of roadway segment/corridor performance and a view of overall system performance.

- What approaches can be considered that would allow detailed level data to be rolled up effectively to represent a system?
- Do all roadway segments need to be measured? If not, which roadways should be measured?
- How are corridors/segments defined? How are trips defined? As a corridor, a pair of origin/destinations, other?

One Size Does Not Fit All

Performance measures will need to reflect the differences in travel expectations and travel patterns across the country and will need to be developed so they can be used for different roadway systems and population areas.

- A delay measure could be defined using different “delay thresholds” based on target speeds. These thresholds could be set by States and MPOs based on a variety of factors. How can this be accomplished in a region by region in a viable manner and consistent manner?
- How can “desired” travel time be defined in a manner that allows for local flexibility so that it can be applied to different geographic areas?
- How can the number of measures be minimized while still providing flexibility in its application to different systems and areas?

Thank You!

- More Information on MAP-21
 - DOT website - <http://www.dot.gov/map21>
 - FHWA website – <http://www.fhwa.dot.gov/map21>
 - FTA website – <http://www.fta.dot.gov/map21>
- Email Comments/Input
 - PerformanceMeasuresRulemaking@dot.gov