

#### UNITED STATES DEPARTMENT OF TRANSPORTATION

# **Connected Vehicle** Technology Challenge

ITS Committee Meeting TRB Annual Meeting – Wednesday, January 26, 2011

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## **About the Challenge**

- Accessible via http://connectedvehicle.challenge.gov
- Concept and idea-based challenge
- Focus on the unique attributes of DSRC
- Smart ideas on how to apply advanced wireless technology can make the transportation system safer, more efficient and even greener
- Six best submissions awarded a trip to the 2011 ITS World Congress
  Unique speaking session for the best submissions



# **Origin of the Challenge**

- ITS Strategic Research Plan, 2010-2014 Executive Summary
  - ITS Exploratory Research: "to provide an avenue to solicit creative ideas for new technology options that are deserving of consideration and that further the ITS Strategic Research Plan goals for the next five years."
- OMB "Guidance on the Use of Challenges and Prizes to Promote Open Government"
  - Outcome of President's Strategy for American Innovation
  - "Increase the number and diversity of the individuals, organizations, and teams that are addressing a particular problem or challenge of national or international significance"
  - "Further a Federal agency's mission by attracting more interest and attention to a defined program, activity, or issue of concern"
  - "Capture the public imagination and change the public's perception of what is possible"
- U.S. DOT Open Government Plan (http://www.dot.gov/open)
  - "Drive innovation by tapping into the ingenuity of the American people"



### **ConnectedVehicle.challenge.gov**



## **Submissions and Rules**

- Submissions must be received by Midnight (Eastern) on May 1, 2011
  - Description of the submitted idea may be up to 20 pages
  - Mixed media submissions are accepted (including graphics and video)
  - Submissions aren't proposals, and not all the technical details need to be worked out
  - Emphasis on low barrier to entry to participate in this challenge
    - No special equipment or facilities needed
- Submissions are reviewed before posting on challenge.gov
- Expert judges from the DOT's ITS Program and other stakeholders will determine 5 of the 6 best submissions
  - Public Voting will determine a popular winning submission



# Submissions and Rules (2)

- Eligibility
  - Individuals who are U.S. citizens and over the age of 18
  - Non-U.S. citizens who are residing in the U.S. to attend a U.S. university
  - Teams of eligible individuals
  - Corporations and organizations based in the U.S.
- Award
  - Travel and registration for the 2011 ITS World Congress in Orlando
  - Winners may travel only within the U.S. and its territories
  - No cash equivalent or other substitutions will be awarded



### What makes for a good challenge submission

- Four criteria for judging the submissions
- Technical and operational feasibility How plausible is it that this Concept could be implemented? What needs to be overcome?

#### 2. Potential for widespread adoption

How likely is it that this Concept would be widely adopted, if it were developed?

#### 3. Innovation

To what degree is this a novel idea?

#### 4. Social benefit

How much would this idea benefit travelers or society at large?



### Next stages

- Submissions are due by May 1
- Popular voting for one of the awards from May 1 to May 31
- Winning submissions to be announced July 1
- Work underway to consider the America COMPETES Law (P.L. 111-358)
  - Grants authority for cash awards for scientific and technological innovation
  - USDOT in early stages of defining policy on implementation
  - Participating in government-wide challenges working group to share best practices



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### "Imagination is more important than knowledge" Albert Einstein



## Thank you

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