Beyond Traffic: The Smart City Challenge

December 2, 2015

https://www.transportation.gov/smartcity/nofo

Beyond Traffic: The Smart City Challenge

- Encourage cities to put forward their **best and most creative ideas for innovatively addressing the challenges** they are facing.

- The Smart City Challenge will **address how emerging transportation data, technologies, and applications can be integrated with existing systems** in a city to address transportation challenges.

- Demonstrate how advanced data and intelligent transportation systems (ITS) technologies and **applications can be used to reduce congestion, keep travelers safe, protect the environment, respond to climate change, connect underserved communities, and support economic vitality**.

Advanced Technologies and Smart Cities

Technology convergence will revolutionize transportation, dramatically improving safety and mobility while reducing costs and environmental impacts

Connected Vehicles

Vehicle Automation

Internet of Things

Machine Learning

Big Data

Mobility on Demand

Connected-Automated Vehicles

Smart Cities

Benefits

- Order of magnitude safety improvements
- Reduced congestion
- Reduced emissions and use of fossil fuels
- Improved access to jobs and services
- Reduced transportation costs for gov't and users
- Improved accessibility and mobility

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Technology Elements *(Highest Priority)*

Vision Element #1
Urban Automation

Vision Element #2
Connected Vehicles

Vision Element #3
Intelligent, Sensor-Based Infrastructure

Innovative Approaches to Urban Transportation Elements *(High Priority)*

Vision Element #4
User-Focused Mobility Services and Choices

Vision Element #5
Urban Analytics

Vision Element #6
Urban Delivery and Logistics

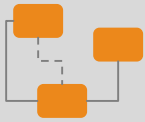**Vision Element #7**
Strategic Business Models & Partnering

Vision Element #8
Smart Grid, Roadway Electrification, & EVs

re-charging

Vision Element #9
Connected, Involved Citizens

Smart City Elements *(Priority)*

Vision Element #10
Architecture and Standards

Vision Element #11
Low-Cost, Efficient, Secure, & Resilient ICT

Vision Element #12
Smart Land Use

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Phases

Phase 1 (Deadline February 4, 2016):

- Support concept development and planning activities
- Estimated five Smart City Challenge Finalists
- $100K each

Phase 2 (Solicitation and Deadline TBD):

- Smart City Challenge Finalists
- Support implementation of their proposed demonstration
- $50 Million
  - □ U.S. Department of Transportation: $40 Million
  - □ Vulcan Foundation: $10 Million

For More Information and Questions

Department of Transportation

https://www.transportation.gov/

Smart City Challenge

www.transportation.gov/smartcity

Questions?

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