BEYOND TRAFFIC:
THE SMART CITY CHALLENGE

LIMIT 35 — **SAFETY**   **MOBILITY**   **ENVIRONMENT**

The U.S. Department of Transportation (USDOT) *Beyond Traffic 2045: Trends and Choices* study indicates that many communities will experience rapid population increases and rapidly growing demands on their transportation infrastructure in the next few decades. The Smart City Challenge is designed to help cities begin to address the difficulties these trends present. To show what is possible when communities use technology to connect transportation assets into an interactive network, the Smart City Challenge will concentrate federal resources into one medium-sized city, selected through a nationwide competition. Funding of up to $40 million will go to the mid-sized city to demonstrate how advanced data and 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.

Phase 1: The USDOT invited cities to submit a high-level description of their vision by February 4, 2016, and supported prospective applicants with numerous forums, webinars, and other resources. Fixed amount cooperative agreements of $100,000 will be awarded to an estimated five Smart City Challenge finalists to support concept development and planning activities.

Phase 2: Finalists will further develop their concepts for demonstration. One city will be selected to implement its proposed concept. The USDOT will provide funding of up to $40 million to the winning city. In addition, Vulcan is offering an additional $10 million to the winning city to support infrastructure for electric vehicles, and the winning city's public bus system will receive Mobileye Shield + ™ technology on its entire bus fleet.
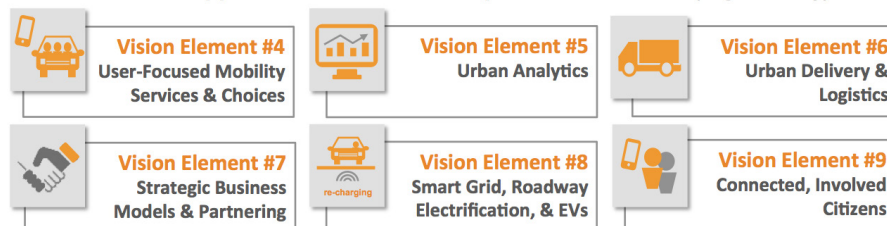
USDOT's Vision for a Smart City

To assist cities, the USDOT identified 12 vision elements that are intended to provide a framework for applicants to consider in the development of a city's proposed demonstration without making each item a requirement for award.

Attributes of the Ideal Candidate

- Mid-sized city with a population between approximately 200,000 and 850,000 people

- A population density typical of a mid-sized city

- Represents a significant portion (more than 15 percent) of the overall population of its urban area

- An established public transportation system

- An environment that is conducive to demonstrating proposed strategies

- Leadership and capacity to carry out the demonstration

- A commitment to integrating with the sharing economy

- A clear commitment to making data open to fuel entrepreneurship and innovation.

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 & Choices

Vision Element #5
Urban Analytics

Vision Element #6
Urban Delivery & Logistics

Vision Element #7
Strategic Business Models & Partnering

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

Vision Element #9
Connected, Involved Citizens

Smart City Elements *(Priority)*

Vision Element #10
Architecture & Standards

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

Vision Element #12
Smart Land Use

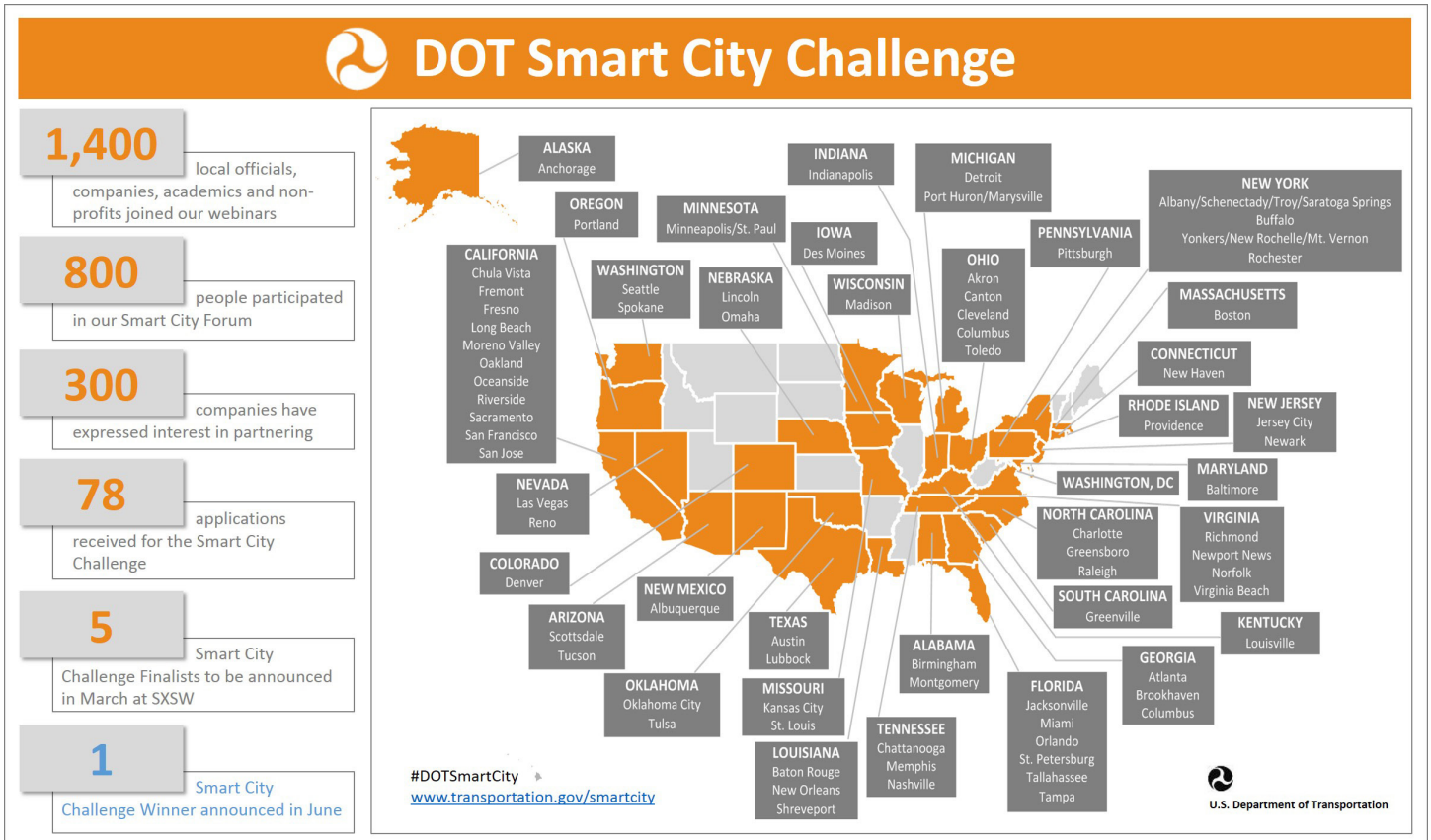**U.S. Department of Transportation**

Overwhelming Response to Smart City Challenge

Seventy-eight cities submitted applications for the Smart City Challenge. Medium-sized cities from across the country, from Reno to Rochester and Anchorage to Albuquerque, represent the depth and breadth of this challenge.

U.S. Transportation Secretary Anthony Foxx noted, "I issued this challenge in December and quite frankly, we are very impressed by the response by community leaders across the country. Cities understand that in order to plan for tomorrow, they need to embrace technology and innovation. This challenge is going to do more than just help one city adopt innovative ideas. Instead, it will serve as a catalyst for widespread change in communities across America."

The five finalists will be announced at SXSW in Austin, TX, on March 12, 2016.

DOT Smart City Challenge

1,400 local officials, companies, academics and non-profits joined our webinars

800 people participated in our Smart City Forum

300 companies have expressed interest in partnering

78 applications received for the Smart City Challenge

5 Smart City Challenge Finalists to be announced in March at SXSW

1 Smart City Challenge Winner announced in June

ALASKA
Anchorage

OREGON
Portland

CALIFORNIA
Chula Vista
Fremont
Fresno
Long Beach
Moreno Valley
Oakland
Oceanside
Riverside
Sacramento
San Francisco
San Jose

NEVADA
Las Vegas
Reno

COLORADO
Denver

ARIZONA
Scottsdale
Tucson

WASHINGTON
Seattle
Spokane

MINNESOTA
Minneapolis/St. Paul

NEBRASKA
Lincoln
Omaha

NEW MEXICO
Albuquerque

OKLAHOMA
Oklahoma City
Tulsa

TEXAS
Austin
Lubbock

INDIANA
Indianapolis

IOWA
Des Moines

WISCONSIN
Madison

MISSOURI
Kansas City
St. Louis

LOUISIANA
Baton Rouge
New Orleans
Shreveport

MICHIGAN
Detroit
Port Huron/Marysville

OHIO
Akron
Canton
Cleveland
Columbus
Toledo

ALABAMA
Birmingham
Montgomery

TENNESSEE
Chattanooga
Memphis
Nashville

PENNSYLVANIA
Pittsburgh

FLORIDA
Jacksonville
Miami
Orlando
St. Petersburg
Tallahassee
Tampa

NEW YORK
Albany/Schenectady/Troy/Saratoga Springs
Buffalo
Yonkers/New Rochelle/Mt. Vernon
Rochester

MASSACHUSETTS
Boston

CONNECTICUT
New Haven

RHODE ISLAND
Providence

NEW JERSEY
Jersey City
Newark

WASHINGTON, DC

MARYLAND
Baltimore

NORTH CAROLINA
Charlotte
Greensboro
Raleigh

SOUTH CAROLINA
Greenville

VIRGINIA
Richmond
Newport News
Norfolk
Virginia Beach

KENTUCKY
Louisville

GEORGIA
Atlanta
Brookhaven
Columbus

#DOTSmartCity
www.transportation.gov/smartcity

U.S. Department of Transportation

To view the list of cities that submitted applications for the Smart City Challenge or explore Smart City Challenge partnership opportunities, visit: http://www.transportation.gov/smartcity/applicant-list.

For More Information

For more information on the Smart City Challenge, including presentations and recordings from information sessions, visit: www.transportation.gov/smartcity.

For questions, email the USDOT at: SmartCityChallenge@dot.gov.

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