Beyond Traffic: The Smart City Challenge Workshop

January 22, 2016

Stantec

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**.

The USDOT's Vision for a Smart City

- The USDOT recognizes that each city has unique attributes, and each city's proposed demonstration will be tailored to their vision and goals.
- The USDOT's vision for a Smart City Challenge is "to identify an urbanized area where advanced technologies are integrated into the aspects of a city and play a critical role in helping cities and their citizens address challenges in safety, mobility, sustainability, economic vitality, and address climate change."
- To assist cities, the USDOT identified twelve (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.

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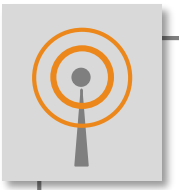
Technology Elements *(Highest Priority)*

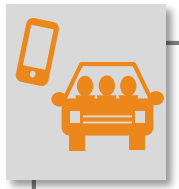
Vision Element #1
Urban Automation

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

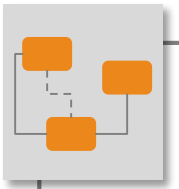
Vision Element #6
Urban Delivery and Logistics

Vision Element #7
Strategic Business Models & Partnering

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

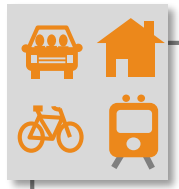
Vision Element #9
Connected, Involved Citizens

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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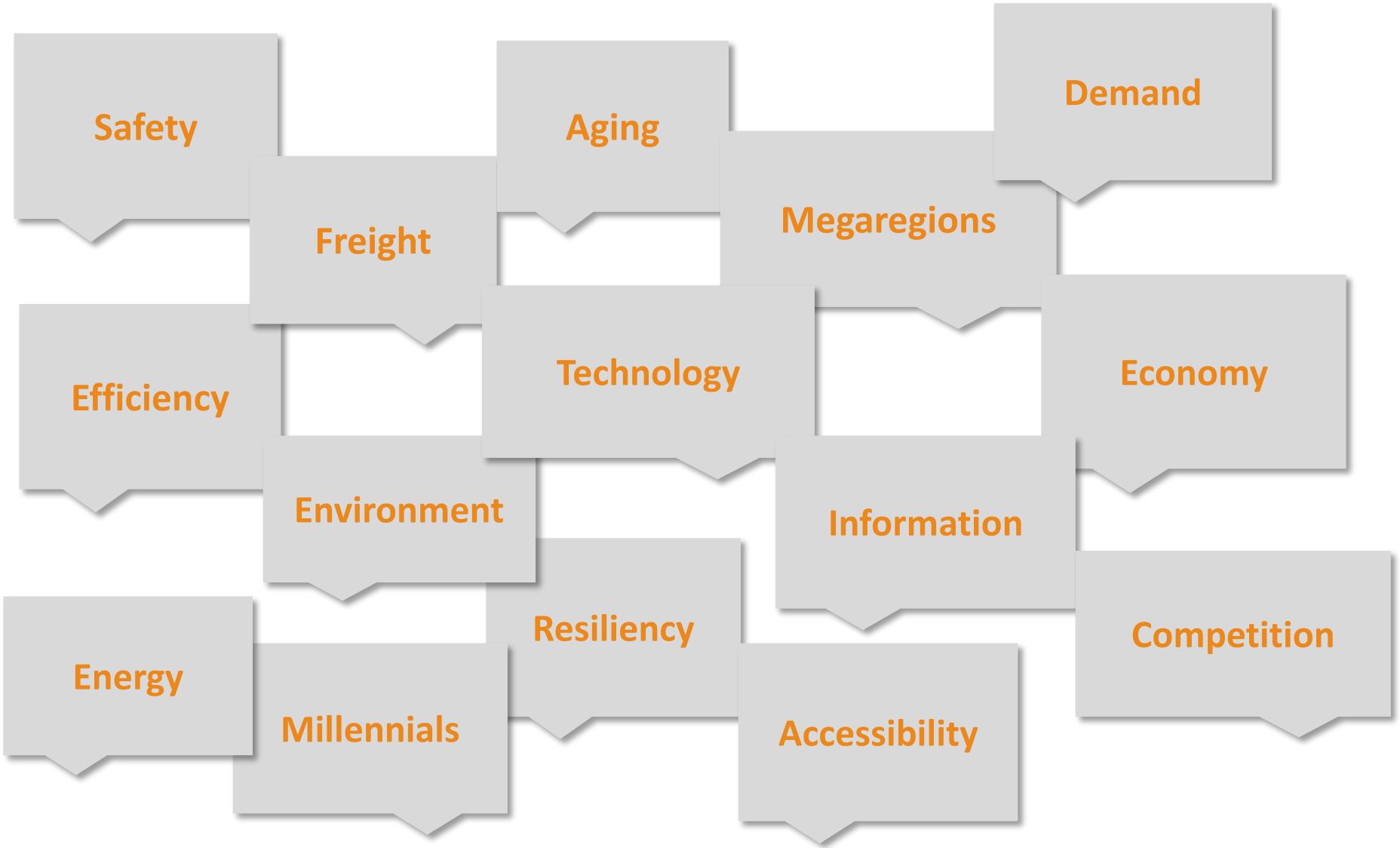

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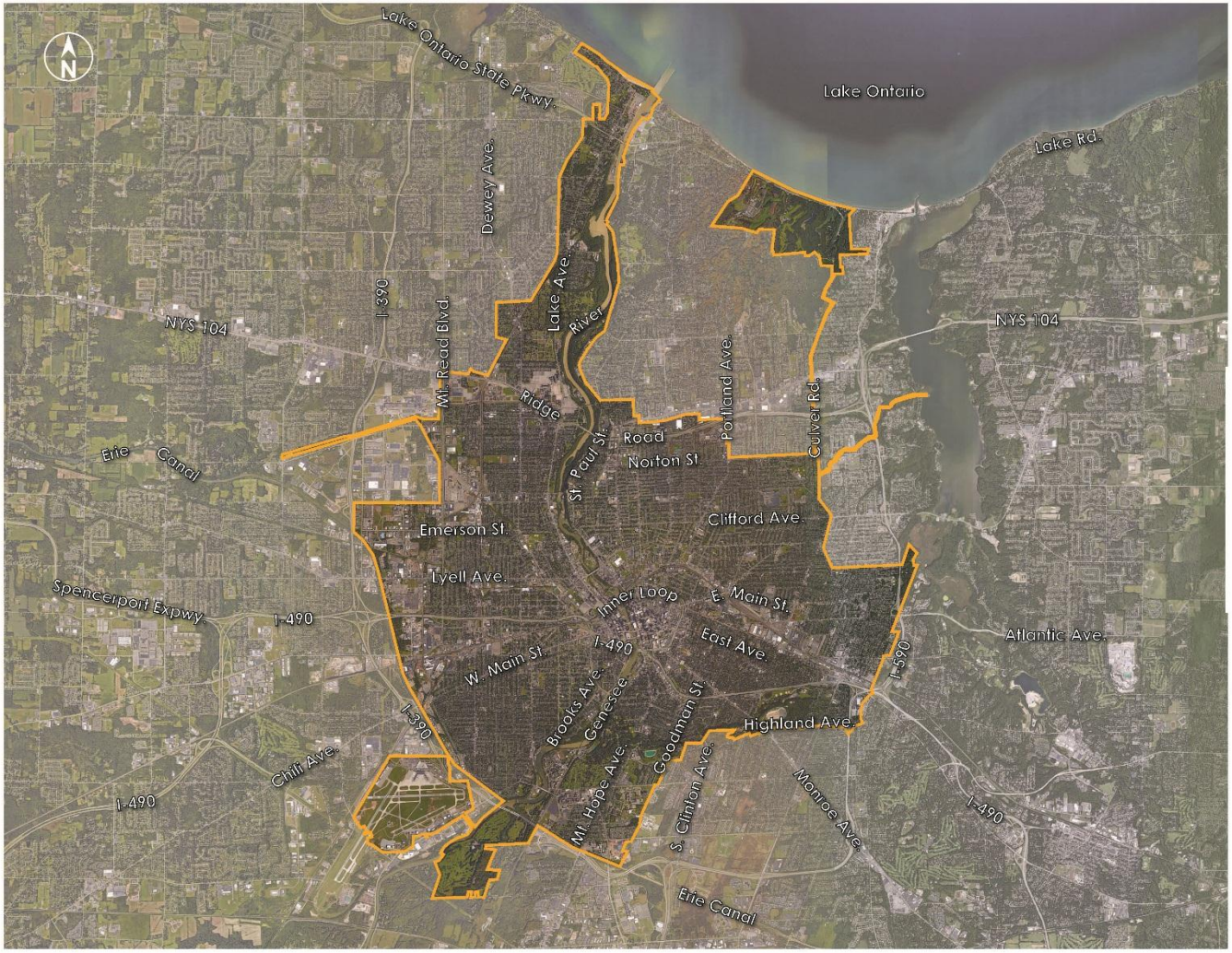

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ROCHESTER, NEW YORK
Smart City Challenge