



Live from Austin, Texas

Vision for a 21st Century Mobility System

Beyond Traffic: The Smart City Challenge

The Opportunity

Beyond Traffic: The Smart City Challenge



U.S. Department of Transportation (USDOT)

Up to **\$40 Million (+\$10 M)** for one Mid-Sized City

Smart City Challenge is to:

- Improve mobility using smart and automated technologies to give people of all ages and abilities a means to travel more efficiently, safer, cheaper, and cleaner.
- Ensure transportation efforts create ladders of opportunity
- Identify bold and innovative ideas for proposed demonstrations to effectively test, evaluate, and demonstrate the benefits that can be replicated across the U.S.

USDOT Expected Outcomes

Smart City Challenge

- **Improve Safety** – By using **advanced technologies**, including connected vehicle technologies, to reduce the number of **collisions, fatalities, and injuries**.
- **Enhance Mobility** – By providing real-time **traveler information** and **emerging mobility services** to improve personal mobility for all.
- **Address Climate Change** – By implementing **advanced technologies and policies** that support a **more sustainable** relationship between transportation and the environment through **fuel use and emissions reductions**.



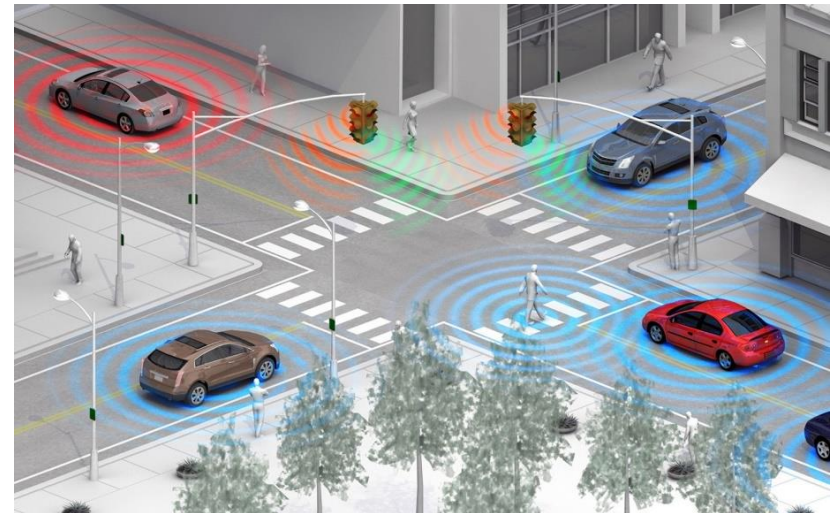
Beyond Traffic: Smart City Challenge

U.S. Department of Transportation (USDOT)

Mar 12, 2016: U.S. DOT Sec. Foxx announces 7 finalist cities (in Austin at SxSW): \$100,000 Stipend awarded to each finalist:

- Austin,
- Denver,
- Columbus,
- Kansas City,
- Pittsburgh,
- Portland,
- San Francisco

**Three years to execute plans
and expend \$50M grant*



May: Full proposal due to US DOT

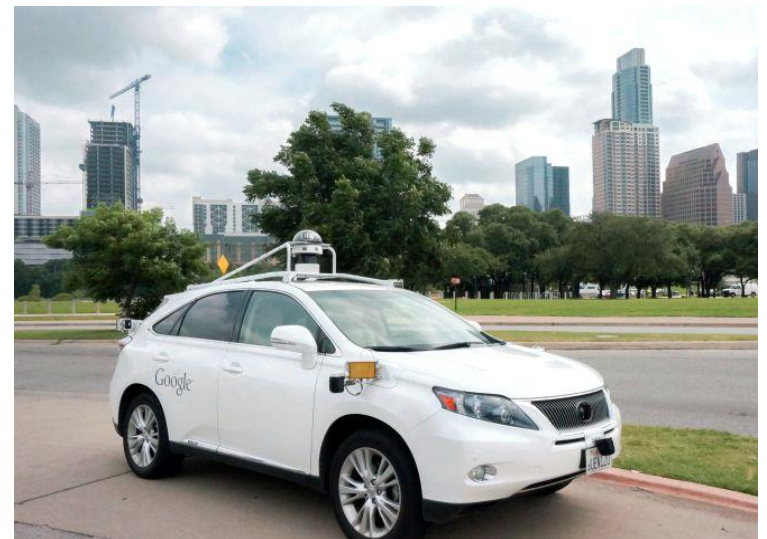
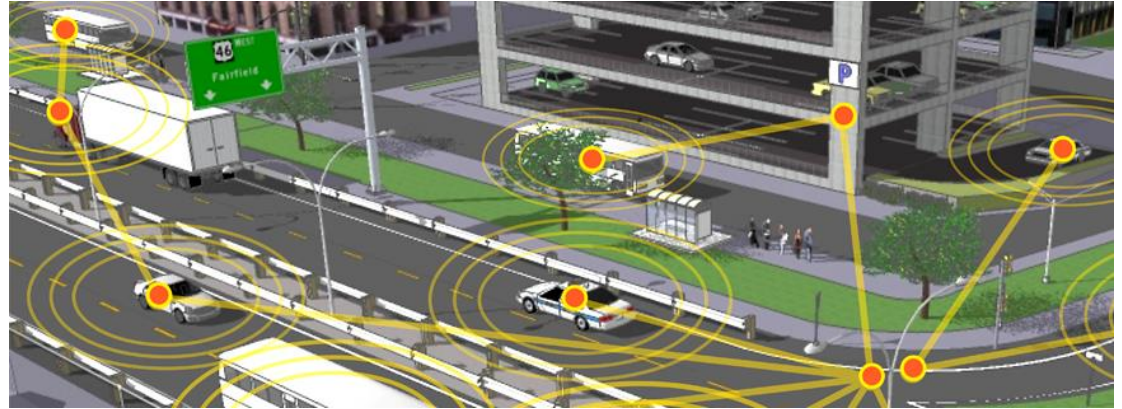
Early June: Interview

Mid June: USDOT selects/announces Smart City \$50M winner

Key Partners

Austin Smart Cities Proposal

- City of Austin (Lead)
- Capital Metro
- TxDOT - Headquarters
- TxDOT - Austin District
- Travis County
- CTRMA
- CAMPO
- Rocky Mountain Institute
- UT Center for Transportation Research
- Texas A&M Transportation Institute
- Southwest Research Institute
- **And Private Sector**



Austin's Smart City Proposal



Approach

- User-outcome based proposal
- Builds interest with early adopters
- Develops ladders of opportunity
- Pilots a variety of automated and electric technologies
- Designed to solve existing mobility challenges, while building experience to solve 21st century emerging issues



Source: EZMile.Com

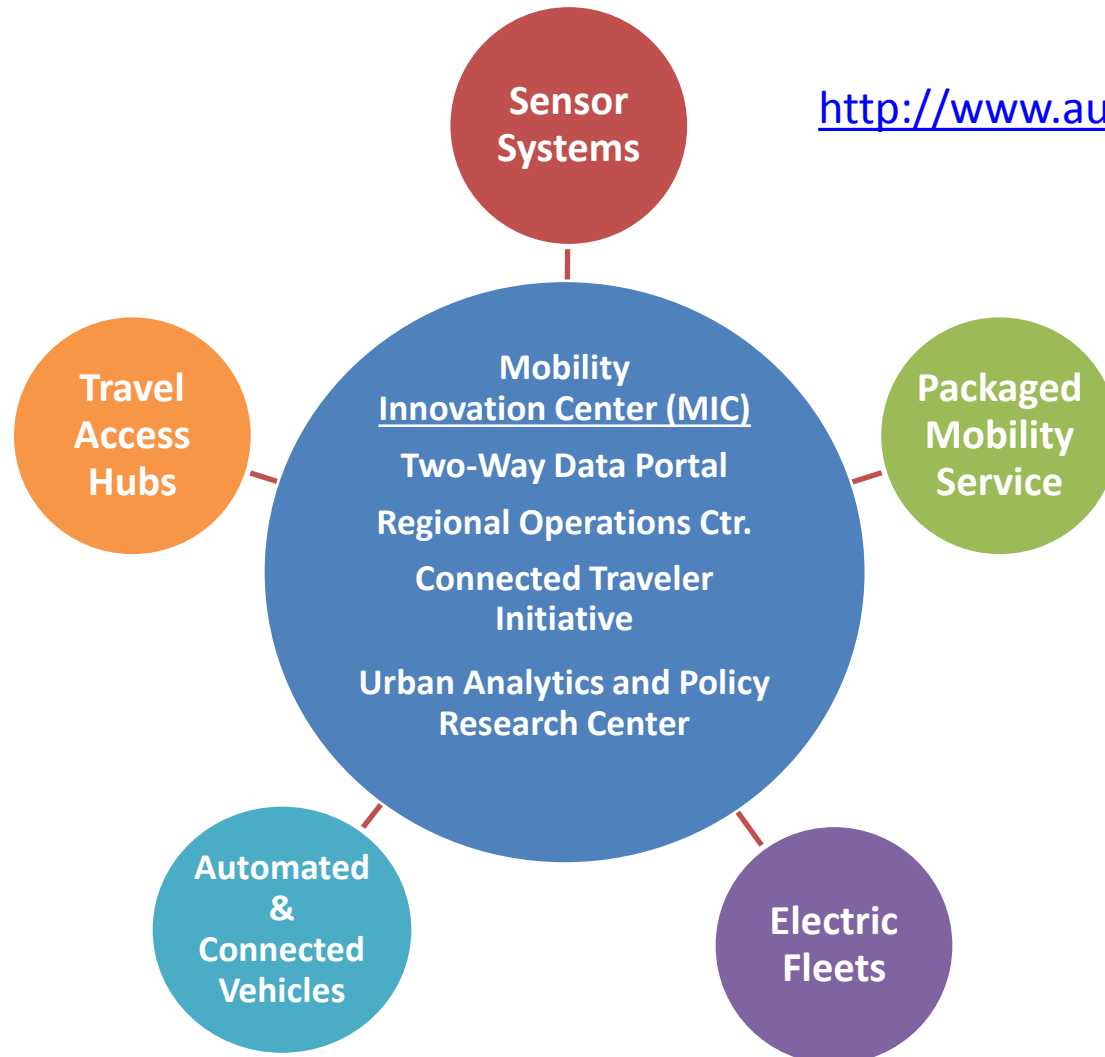
Technology Pilots

- Advanced roadway sensors
- Parking management
- Automated transit shuttle and last-mile systems
- Automated redistribution of car-share vehicles
- App-enabled car/van pooling
- Fleet electrification
- Informed traveler network, supported by a One-System transportation management approach
- Packaged mobility application

Austin's Smart City Proposal



<http://www.austintexas.gov/transportation>



Letters of Support

U.S. House Representatives Travis County State Delegation

Governing Body Resolutions

- Austin City Council
- Capital Metropolitan Transportation Authority (Capital Metro)
- Central Texas Regional Mobility Authority (CTRMA)
- Travis County



Organizations and Institutional Support

- Texas Department of Transportation (TxDOT- HQ)
- Texas Dept. of Transportation (Austin District)
- Rocky Mountain Institute (RMI)
- Texas A&M Transportation Institute (TTI)
- University of Texas at Austin (UT)
- Southwest Research Institute (SwRI)
- Capital Area Metropolitan Planning Organization (CAMPO)
- National Renewable Energy Laboratory (NREL) Texas State University
- Austin Chamber of Commerce
- Austin-San Antonio Corridor Council
- Downtown Austin Alliance (DAA)
- Movability Austin

Letters of Support con't

Private Organizations and Businesses

ARM	INRIX
AT&T	Lockheed Martin
Austin CityUP	Lyft
Austin B Cycle	NRG Evgo
Austin Technology Incubator	NXP
Bytemark	ParkMe
Capital Factory	Peloton
Car2Go	Proterra
Carma	PTV Group
Dabnab	Q-Free
Ford	TCS
Get Me	RideScout
General Motors (GM)	Siemens
Google	TomTom
HaCon	Traffic Technology Services
Hitachi	Verizon Xerox
IBM	Uber
	Verizon

Next Steps



- Mayoral meeting with Secretary Fox (San Diego) – March
- Technical scan meeting (Washington, D.C.) – April
- Final Proposal – May
- Competitive Interview – May/June
- Smart City Announcement (in the winning city) – June
- 3-Year Smart City Challenge