

# Live from Austin, Tx – Smart Cities!

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TRB SCENARIO PLANNING WORKSHOP

PORTLAND, OREGON

AUGUST 17, 2016

# Austin Smart City Challenge

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Ø Austin's challenge

Ø Partnerships

Ø Lessons learned/Key takeaways

Ø What's next



# Austin's Challenges

## Numbers Worth Noting

3.25  
million

Austin's estimated  
regional population  
in 2035 (nearly double today)



40-90  
minutes

Average commute,  
downtown Austin to  
Round Rock



10  
hours

Congestion from  
U.S. 183 to SH 71  
along IH 35 in Austin  
(10.2 mile segment)



86  
percent

Local percentage  
of traffic along  
IH 35



Courtesy of TxDOT

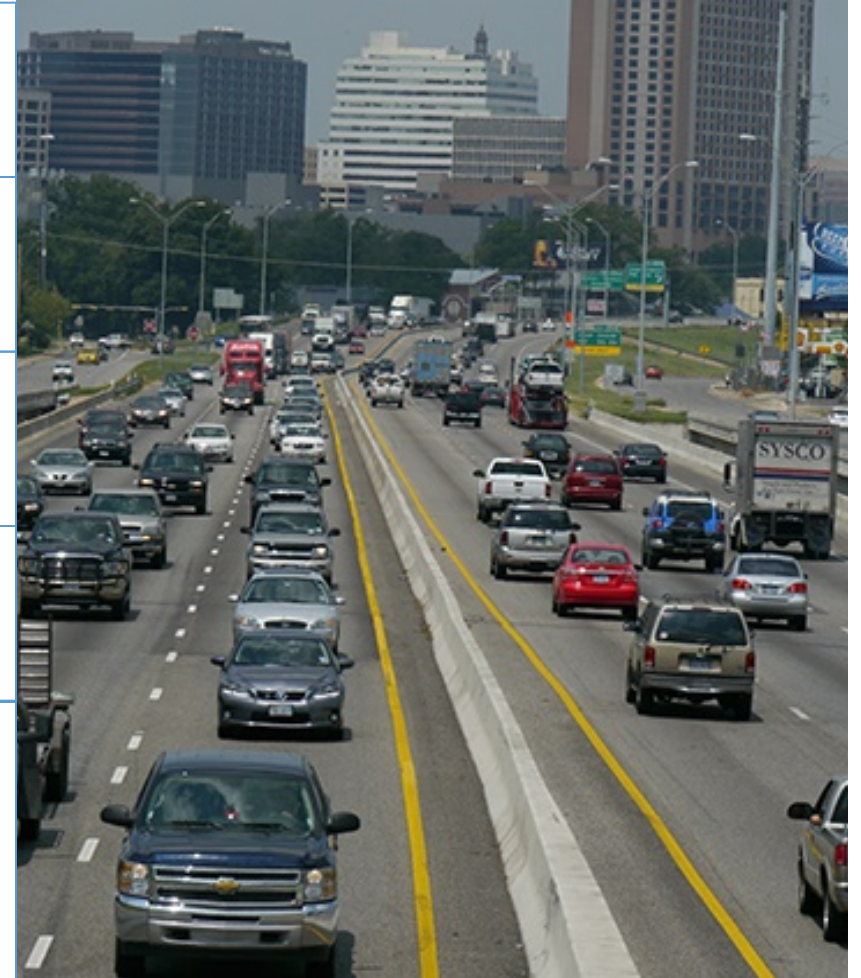
Fastest growing metro area in  
US

Most economically  
segregated city in the US

On the brink of air quality  
non-attainment

Lowest transit access rate to  
jobs

Stifling congestion with 102  
Traffic  
Fatalities in 2015



# Austin's Comprehensive Smart City Objectives

- **Improve** access to opportunity, with more mobility services and options
- **Increase** access to information
- **Increase** access to jobs, education and cultural events
- **Reduce** injuries and fatalities
- **Lower** travel costs
- **Reduce** CO2 emissions
- **Reduce** reliance on private cars
- **Promote** emerging mobility solutions



Intersection of big data analytics, sensor networks, operations and research

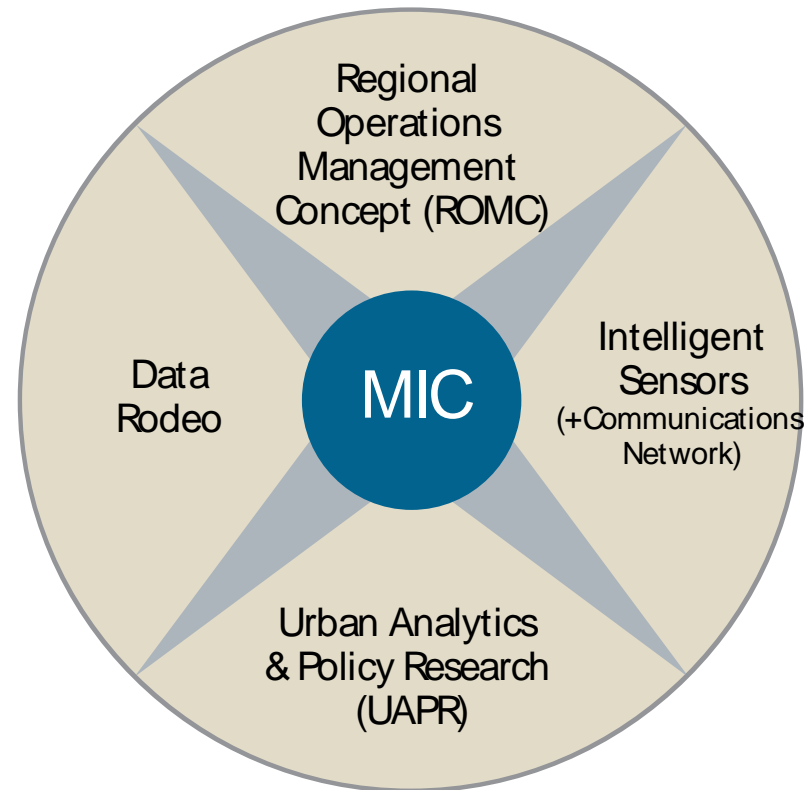
Governance Structure and Processes

Data Rodeo

Operate as “One System”

One-Stop-Shop

# Mobility Innovation Center (MIC)





Smart Corridors

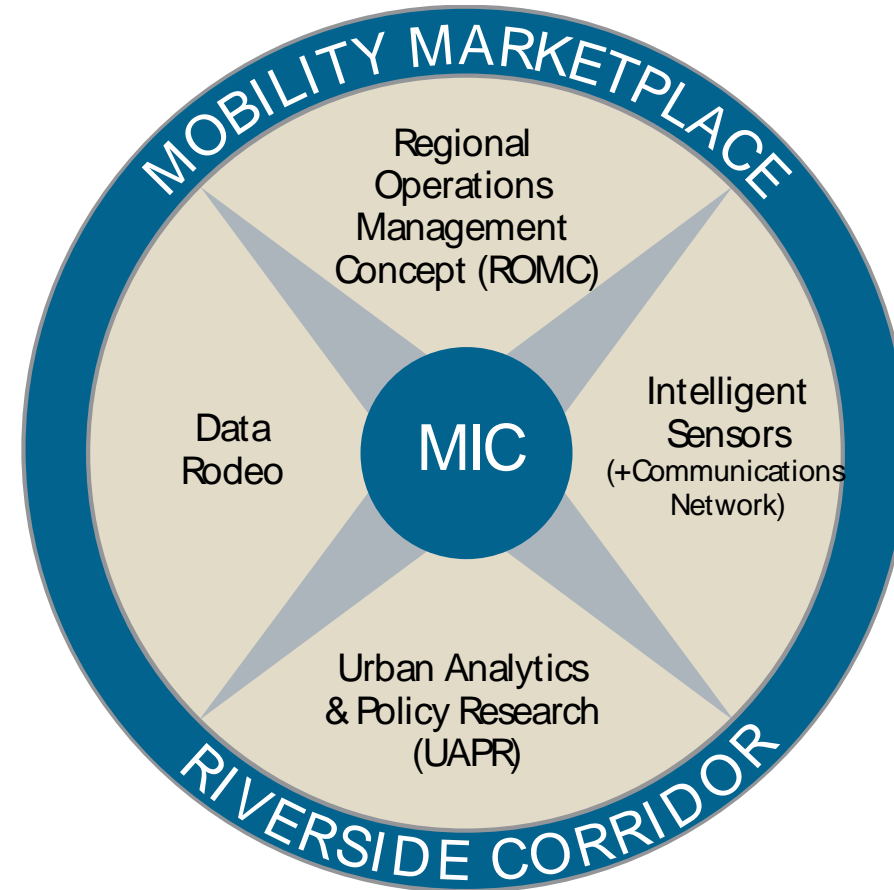
Living Laboratory

Mobility as a Service

Complete Trips

Public-Private  
Partnerships

Develop-on-Demand



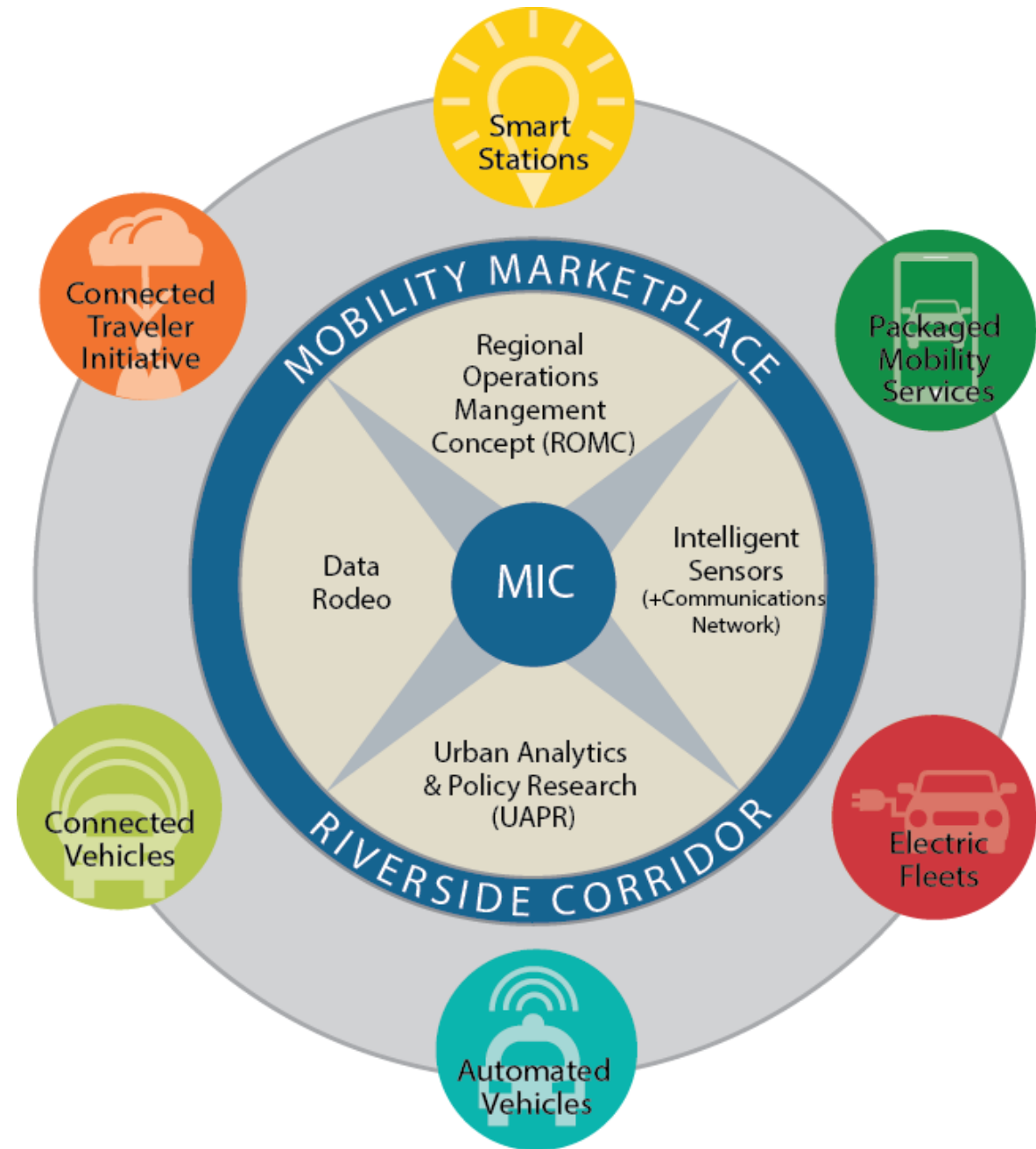
# “Data Lake” Smart City Environment

Scalable

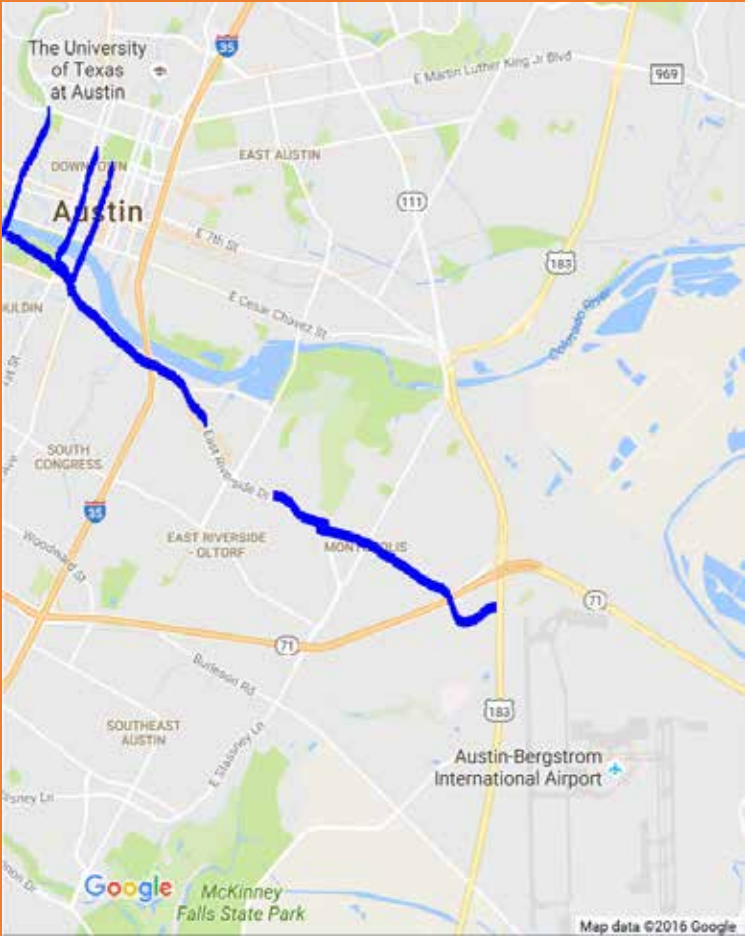
Transferrable

Cross-cutting

No Siloes Allowed



# Riverside Smart Corridor





# Riverside Smart Corridor

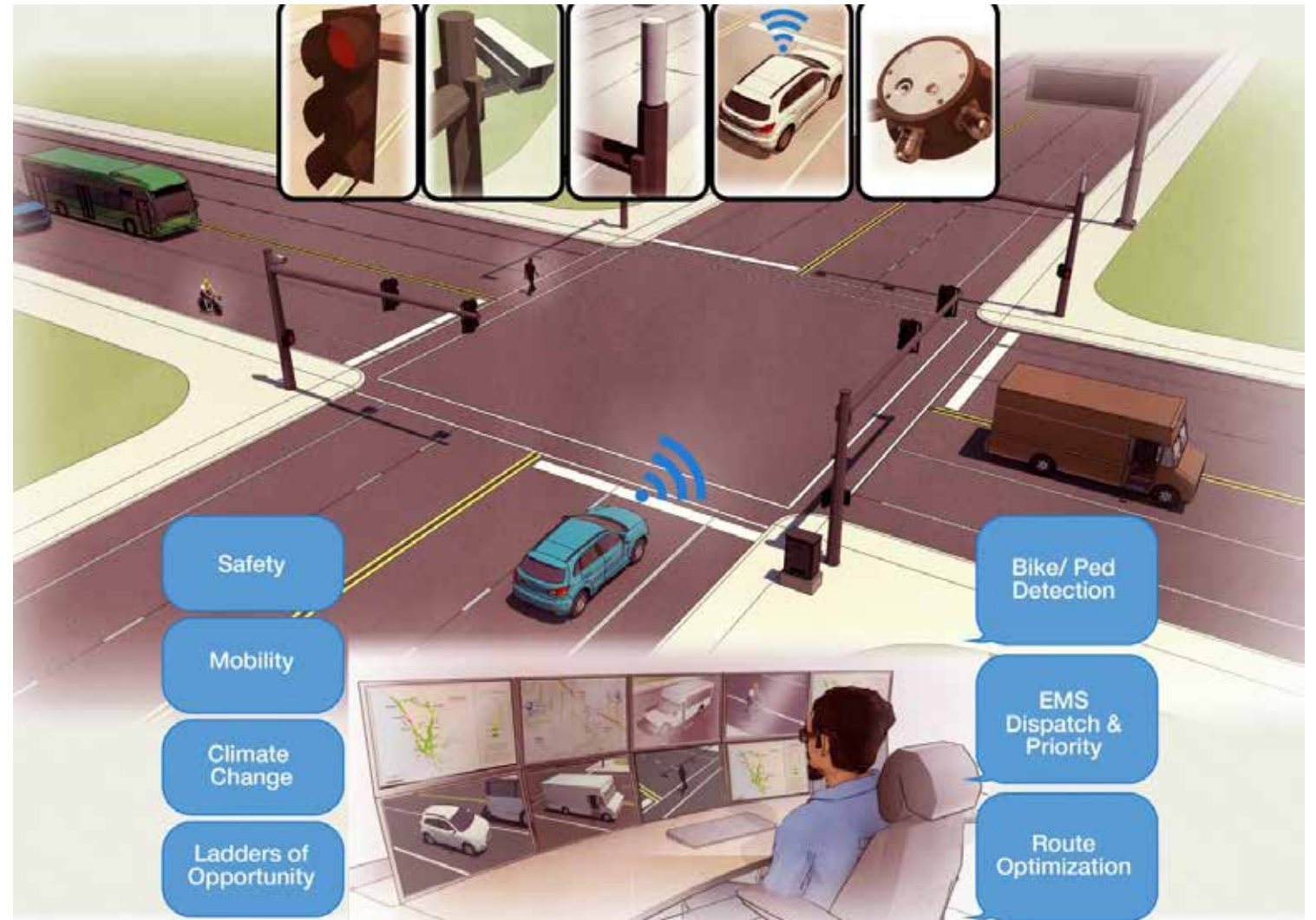
Connected Corridor and Smart Stations

Urban Automation and Connected Vehicles

Electric Buses, Fleets, Taxi, TNC, Consumers

Connected Traveler, Info Kiosks

Leveraging Riverside Master Plan



# Riverside Smart Corridor

Connected Corridor and Smart Stations

Urban Automation and Connected Vehicles

Electric Buses, Fleets, Taxi, TNC, Consumers



Source: <http://easymile.com>



# Austin's Smart City Relies on Strong Partnerships

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Smart City Partnering Workshop - Austin, TX April 27, 2016

# Core Team

Our Core Team & Community of Partners

Experienced at Leveraging Federal Grants

Bringing Local Match to all Pilot Projects

Core Team is led by Inter-Agency Resources





# Community Partners

Our Core Team & Community of Partners

Experienced at Leveraging Federal Grants

Bringing Local Match to all Pilot Projects

Core Team is led by Inter-Agency Resources

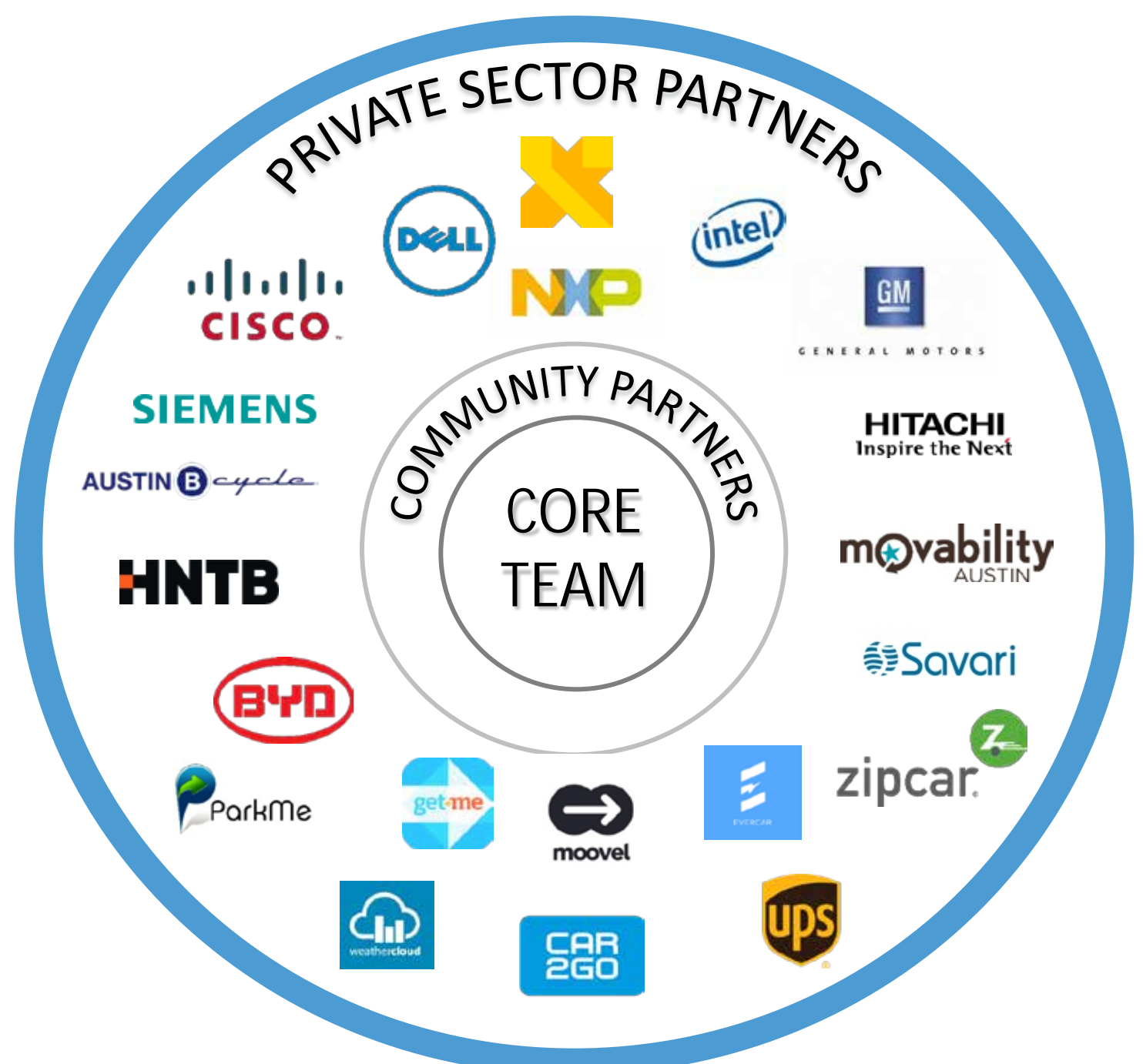


# Private Sector Partners

Our Private Sector Partners - Active throughout the Smart City environment

Collaborative Working Environment among competitors of various scales

Coalitions formed between small and large companies



# Lessons Learned/Key Takeaways

- Ø Full support of Mayor and City Council – bond program this Nov.
- Ø Vendor workshop was a huge success, continues to create opportunity
- Ø Smart Ambassador Program to bridge the digital divide
- Ø 1-City Selection: US DoT encouraging competition really helped the team think of new, creative ideas and break down barriers/silos




- Ø Equity goals should & can inform new mobility solutions
- Ø Changed the fundamental paradigm for how Austin approaches community barriers and mobility needs.

# Next Steps

- ∅ Develop an innovation roadmap to take advantage or seek out opportunities = Open Innovation
- ∅ Develop a Private/Public Partnership process/framework
- ∅ Book of Knowledge: Synthesize what we learned and share it
- ∅ Hold a second Vendor Workshop to continue collaboration
- ∅ Develop a Texas Smart City Coalition to promote Smart Cities through outreach & collaboration
- ∅ Get the word out: Austin and Texas are open for business.
- ∅ Create a “Living Lab” to operate on Riverside Drive
- ∅ Implementation of the Data Rodeo
- ∅ Expand Smart Cities footprint at SXSW





*Make Austin a Smart City that builds on our history of innovative, entrepreneurial can-do character to assure that ALL our residents have equal access to opportunities and mobility.*

Jason JonMichael  
National Technology Leader  
**HNTB**