



What's Next?...Smart Cities

Tim Johnson – Director Transportation Initiatives





NextEnergy is one of the nation's leading accelerators of advanced energy & transportation technologies, businesses & industries.

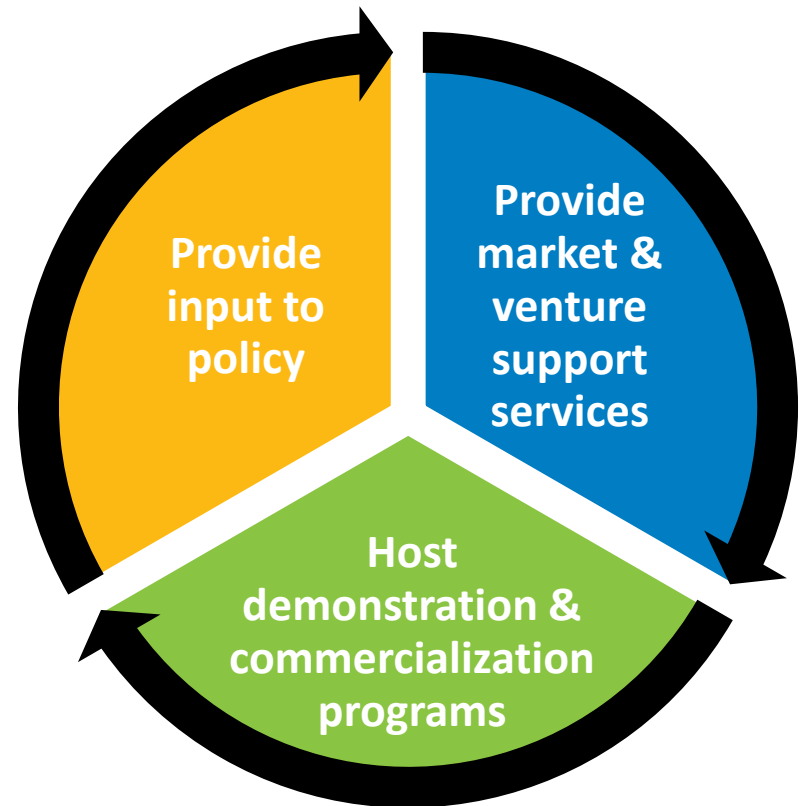


Who is **NEXT**ENERGY

Our Sectors

- **New Mobility**
- **Vehicle Electrification**
- **Energy Efficiency**
- **Energy Storage**
- **Power Electronics**
- **Renewables**
- **Sustainability**

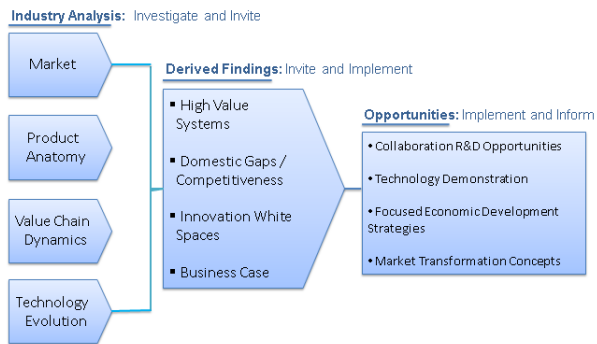
What We Do



NextEnergy Approach

Leverage people, place and relationships to accelerate growth

Knowledge (people)



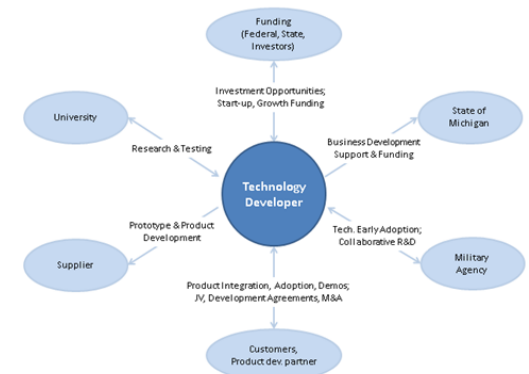
- Market Studies
- Technology Roadmapping
- Supply Chain Analysis
- Value Chain Dynamics
- Domestic Competitiveness

Technical Facilities (place)



- Technology Demonstrations
- System Integration
- Validation and Testing

Connections (relationships)



- Funding Sources
- Connect to R&D Institutes
- Go-to-Market Partners
- Customer Connections
- Business Model Support

What's Next with Vehicles...“V2B”

Mobile Internet
Subscribers:

60%

(in Developed Countries)

Percentage of US
drivers using
mapping apps in
vehicles:

47%

V2B

Jumps to
23% among
Millennials!

Smart Home
products in US
homes:

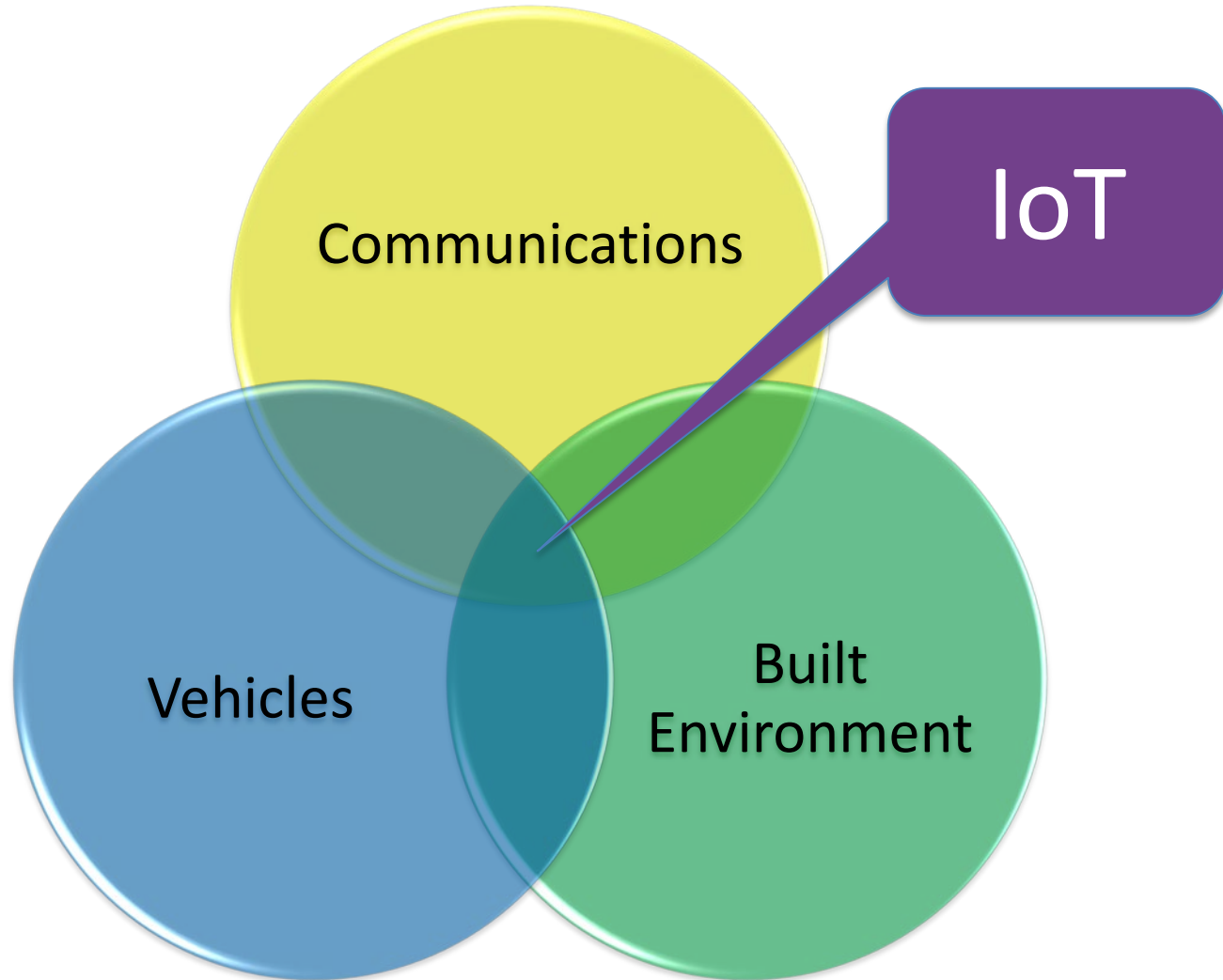
12%

US Commercial
Buildings with
BAS:

14%

Sources: GSMA, 2015
Automotive News, 2012
NPD Group, 2015
EIA, 2012

What's Next Broadly...IoT



What's Next... "Smart City" Solutions

Smart Street Lighting



Manage street lighting to reduce energy and maintenance costs

Smart Parking



Give citizens live parking availability information to reduce circling and congestion

Public Wifi & Citizen Engagement Platform



Leverage location data for contextual content and advertising

Smart City Traffic



Monitor and manage traffic incidents to reduce congestion and improve livability

Smart City Safety & Security



Automatically detect security incidents, shorten response time, and analyze data to reduce crime

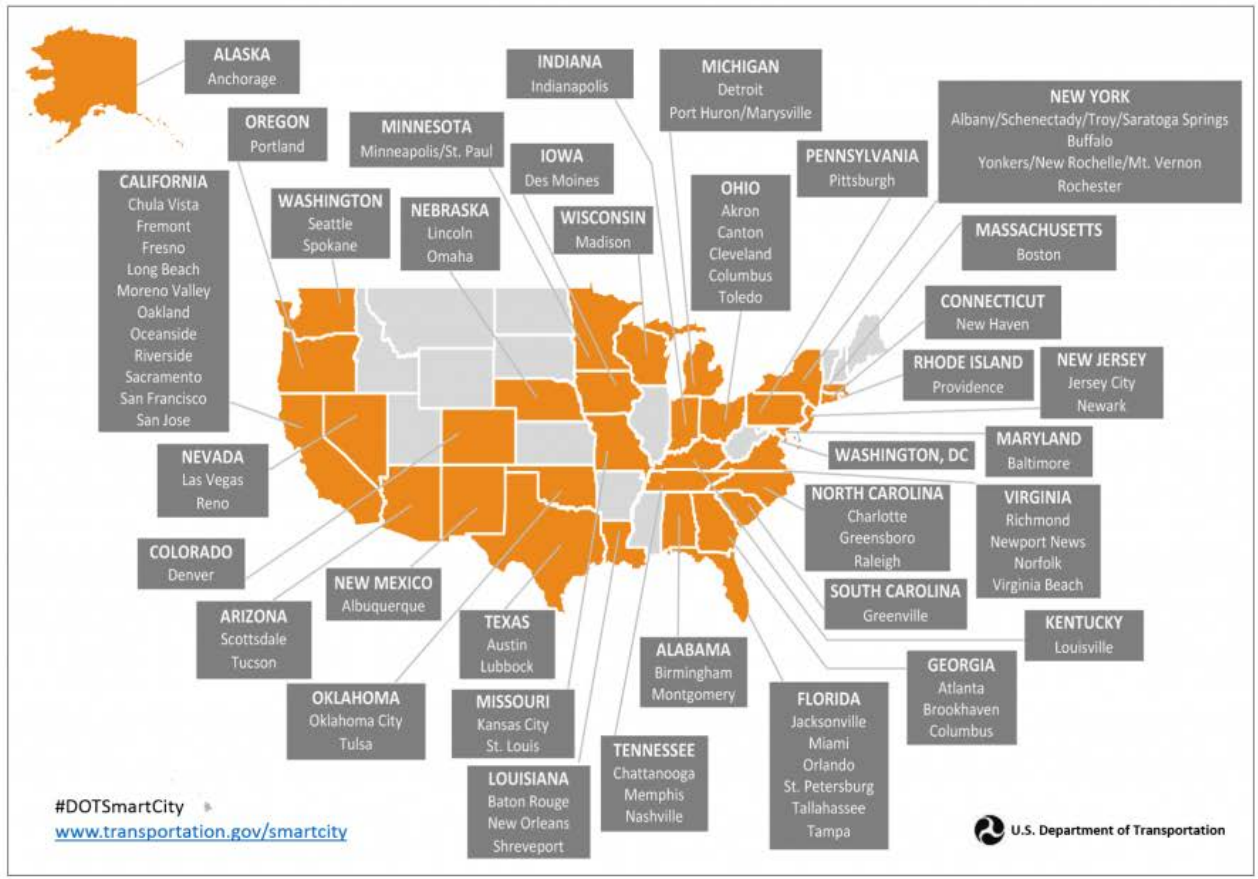
Source: Cisco



What's Next...US DOT Smart City Challenge

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



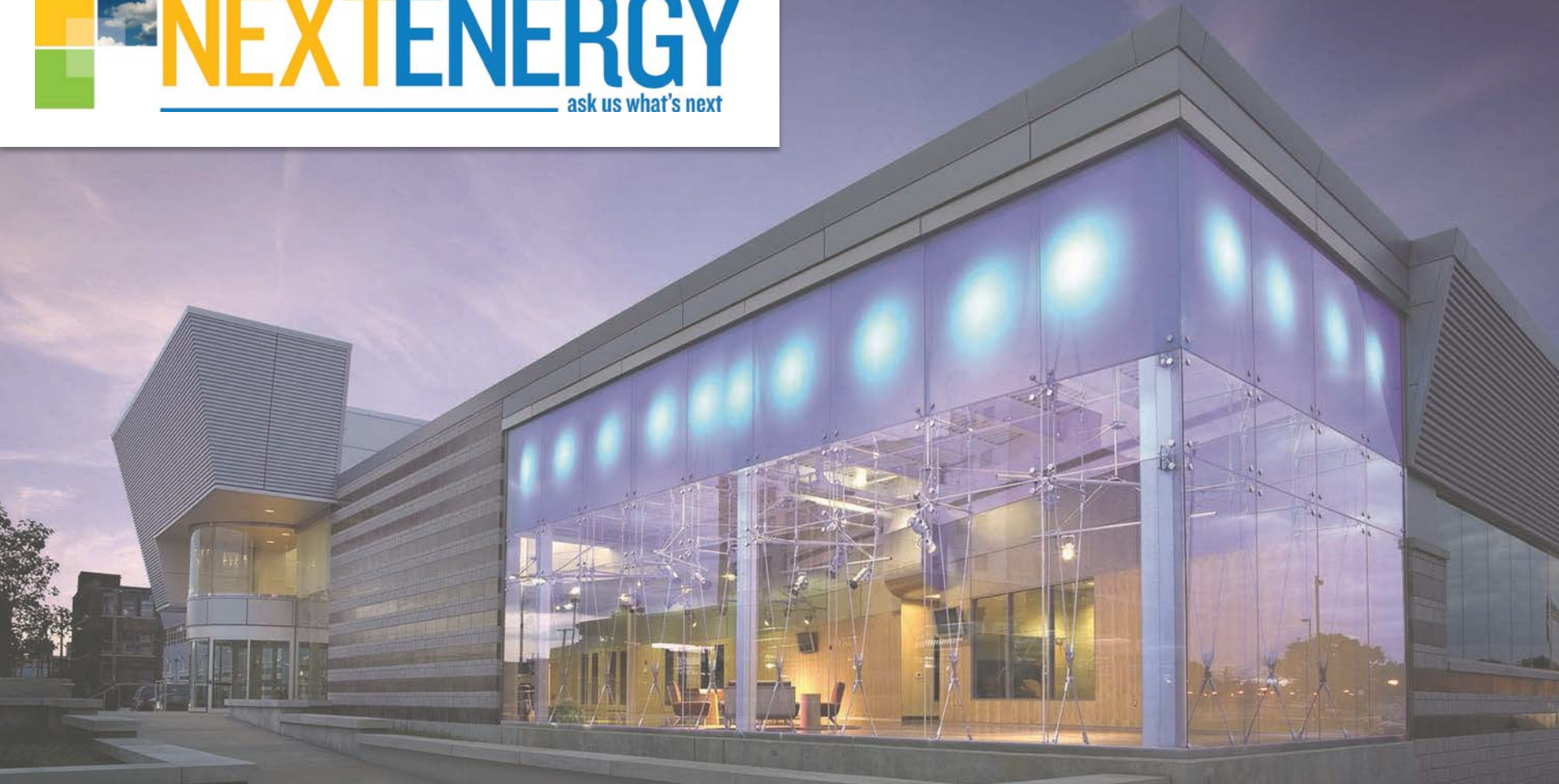
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What's Next...In Summary

The Art of the Possible...Here now!

- Increasing *density of sensors* will enable
 - Remote monitoring
 - Autonomous vehicles
 - *Connected everything*
- Developing *infrastructure as a service* will invite outside investment, structuring new opportunities for private investment
- *New business models* automating payments, health monitoring, safety, security and more...





ASK US WHAT'S NEXT