What’s Next?...Smart Cities

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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

Provide market & venture support services
Provide input to policy
Host demonstration & commercialization programs
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%

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

- Communications
- Vehicles
- Built Environment

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

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

#DOTSmartCity www.transportation.gov/smartment

U.S. Department of Transportation
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...