SMART MOBILITY AND SMART CITIES: ACCESS & OPPORTUNITIES

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Mobility: The movement of people and goods from place to place, job to job, or one social level to another (across bridges – physical or assumed).
Smart Mobility: The movement of people and goods with...

TRIPLE ZERO

0 Accidents and Fatalities
0 Carbon Footprint
0 Stress
Columbus Smart Mobility

**Vision:** Ohio leads the nation and world in the development of smart mobility and smart city technologies that have major impact on Ohio transportation industry and drives significant job growth.
Facilities:
- I-76
- City of Ann Arbor
- City of Columbus
- Mcity
- TRC

Smart Roads:
- I-75 Corridor
- I-80/I-90 Turnpike
- I-94 Corridor
- US-33 Corridor
- I-76 Corridor

Stakeholders:
- Columbus 2020
- Carnegie Mellon University
- JobsOhio
- Michigan Dept of Transportation
- Ohio Dept of Transportation
- The Ohio State University
- Ohio Turnpike
- Rev1 Ventures (TechColumbus)
- TRC
- University of Michigan
- Save Lives
- Improve Lives of Older Adults and People with Disabilities
- Transportation in Era of Urbanization
- Environmental Sustainability
- Economic Sustainability
FUTURE MOBILITY SOLUTIONS?

MAAS (MOBILITY AS A SERVICE)
ELECTRICIFICATION
INCLUSIVE MOBILITY
Who Drives Mobility As a Service?

Public Sector:
• Infrastructure
• Incentives
• Standards

Private Sector:
• Market Adoption
• End-User Interface
• Navigation Software
• Derivative Technologies
Opportunity

- “It’s all about mobile.”
- Getting users connected to their vehicles
- In-transit data for marketing studies
- Auto-navigate to garage for service
- Vehicle loaning
Electric Vehicle Incentives

- Consumer Outreach/Ride n Drives
- EV Stations
- Building Codes – Public and Private
- Green Car Spaces in Garages
Inclusive Mobility

Paratransit Shuttles
Inclusive Mobility

Exploring more robust solutions in accessibility and autonomy
Smart Cities:
The deployment of technology and data... ...to improve people’s lives.
Smart City Goals
Smart Columbus Overview

VISION

ACCESS TO JOBS
SMART LOGISTICS
CONNECTED RESIDENTS
CONNECTED VISITORS
SUSTAINABLE TRANSPORTATION

ENABLING TECHNOLOGIES

Columbus Connected Transportation Network (CCTN)
Integrated Data Exchange
Enhanced Human Services
Electric Vehicle Infrastructure

DEPLOYMENT

RESIDENTIAL DISTRICT
COMMERCIAL DISTRICT
DOWNTOWN DISTRICT
LOGISTICS DISTRICT

OUTCOMES

SAFETY
MOBILITY
LADDERS OF OPPORTUNITY
CLIMATE CHANGE
Easton Shuttle

- Moves parking out of high-traffic areas
- Shuttle is wheelchair-accessible
- Mall Expansion can be further from center
- More space for pedestrians
Truck Platooning

SAVING FUEL AND IMPROVING SAFETY
A FUTURE TRANSPORT CONCEPT BY VOLVO GROUP

THE OHIO STATE UNIVERSITY
COLLEGE OF ENGINEERING
Effects

Mobility For All
• Lower barriers to success

Sustainable transportation encouraged
• Greener Transportation Grid

Valuable Data Produced
• Smarter Transportation Solutions
Integrated Data Exchange

Non-Transportation Data Sources

Data from Smart COLUMBUS Program

Transportation Data Sources

Integrated Data Exchange (IDE)

Private App Developers

Public Sector

Private Sector

Independent Evaluators
Local Engagement

17 Local Partners
Engaging with USDOT Partners
THANK YOU!!!

Q&A