

## RESOLUTION T-2-16

### **“MORPC’S SUPPORT OF THE CITY OF COLUMBUS’S APPLICATION FOR THE U.S. DOT BEYOND TRAFFIC: SMART CITY CHALLENGE”**

WHEREAS, on December 7, 2015 the U.S. DOT issued a Notice of Funding Opportunity for the Beyond Traffic: Smart City Challenge, which offers up to \$40 million in federal funding with additional private resources for a Mid-Sized City to Conduct a Smart City Demonstration; and

WHEREAS, the criteria for a candidate city include:

- a population between approximately 200,000 and 850,000
- a dense urban population typical for a mid-sized American city
- representing a significant portion (more than 15%) of the overall population of its urbanized area using 2010 Census data
- having an existing public transportation system and an environment that is conducive to demonstrating proposed strategies
- continuity of committed leadership and capacity to carry out the demonstration throughout the period of performance
- having a commitment to integrate with the sharing economy
- a clear commitment to making open machine-readable data accessible, discoverable and usable by the public to fuel entrepreneurship and innovation
- is proactively working to improve safety, enhance mobility, and address climate change; and

WHEREAS the City of Columbus is an ideal Smart City candidate as it meets all of the above criteria; and

WHEREAS, the City of Columbus shares a vision with the U.S. DOT for its city that incorporates Technology Elements, Innovative Approaches to Urban Transportation Elements and Smart City Elements; and

WHEREAS, the City of Columbus was designated the 2015 Intelligent Community of the Year in an international competition held by the Intelligent Communities Forum, and has built partnerships with key technology organizations through seeking this honor with Battelle, The Ohio State University and others, proving that the city has the expertise and partnerships in place to be successful at developing Smart City strategies; and

WHEREAS, the City of Columbus has built the high-tech Columbus Traffic Signal System, which includes advanced signal coordination, high-speed fiber installation throughout the city, and connectivity to other municipalities, counties and the Ohio Department of Transportation, proving the city has the knowledge and experience to be successful in implementation of Smart City strategies; and

WHEREAS, the base infrastructure for a Smart City proposal will be the Columbus Traffic Signal System and the Central Ohio Transit Authority’s technologies already employed in the city, and this infrastructure benefits the region through interconnectivity of multi-agency traffic, transit services beyond the city limits, and economic development access to high-speed fiber for the region; and

WHEREAS, the Smart City proposal being developed by the City of Columbus proves that the city and the region have made significant strides toward being an ideal test bed for implementation of Smart

City Technology, focusing on Job, Freight, Visitor and Citizen Mobility in a mid-sized city in the United States; now therefore

**BE IT RESOLVED BY THE TRANSPORTATION POLICY COMMITTEE OF THE MID-OHIO REGIONAL PLANNING COMMISSION:**

- Section 1. That it supports the City of Columbus's proposal to U.S. DOT for the Beyond Traffic: Smart City Challenge as a project of regional significance and benefit.
- Section 2. That MORPC will continue to work with the City of Columbus to support all related elements of the Smart City proposal and implementation of the project upon award.
- Section 3. That this committee finds and determines that all formal deliberations and actions of this committee concerning and relating to the adoption of this resolution were taken in open meetings of this committee.

---

Eric S. Phillips, Chair  
**MID-OHIO REGIONAL PLANNING COMMISSION**

---

Date

Prepared by: Transportation Systems & Funding Staff

Attachment: Smart City Challenge – Regional Benefits Summary

# Smart City Challenge

## Regional Benefits Summary

### THE OPPORTUNITY

#### BEYOND TRAFFIC: SMART CITY CHALLENGE

Up to \$40 million  
in Federal funding

Up to \$10 million  
in Vulcan EV Technology

Mobileye on Every City Bus

*USDOT is requesting proposals from Mid-Sized City to Conduct a Smart City Demonstration that:*

- ✓ Demonstrates ITS technology and applications
- ✓ Reduces congestion
- ✓ Increases safety
- ✓ Protects environment
- ✓ Addresses climate change
- ✓ Connects underserved communities
- ✓ Supports economic development

*Successful Proposals will include:*

- ✓ Technology (urban automation, Connect Vehicles, intelligent sensor infrastructure)
- ✓ Innovative approaches to urban transport (urban analytics, mobility, P&D, business model, smart grid, connected citizens)
- ✓ Smart City (architecture/standards, ICT, land use)

*Proposal Selection led by FHWA*

### THE APPROACH

#### Columbus Vision: Access For All (“A4A”)

*The City of Columbus’ vision of “Access For All” is based on the desire to increase access to transportation for ALL citizens and businesses. This access addresses mobility and reliability. This access will be achieved with data collection, analysis and distribution to ALL citizens and businesses. These data will increase access to transportation conditions that improve mobility, reliability, and the environment as well as create new ventures and jobs. The key to meeting this Vision is data.*

**Brand:** Columbus – America’s ITS Deployment City

#### Application Themes:

Five Potential Themes - Jobs Mobility; Freight Mobility; Citizen Mobility; Visitor Mobility and Electrification/Fuel Availability

#### Potential Technology Projects in Columbus:

- Advanced parking information via smart phone
- Traffic congestion during major events (i.e., sporting)
- Public transit service information via smart phones
- Ride-sharing car service located in mobility-challenged socio-economic areas and universities
- Freight P&D services for downtown commercial area
- Freight congestion and delivery reliability information
- Tourist sightseeing options, restaurant reservations, etc., via smart phones
- Smart intersections
- Controlled and revenue service self-driving car corridor

#### Existing & Developing Partnerships:

- Implementation Partners - Columbus, Columbus 2020, OSU-UTC & CAR, IBM Data Center, Battelle, MORPC, COTA, ODOT, and Technology/ITS/Engineering professional team
- Additional Implementation Partners/Collaborators – Uber, car2go, CoGo, banking sector, insurance sector, Franklin County, Clean Fuels Ohio, Central Ohio communities
- Potential Regional Technology Partners – Ann Arbor (UoM/car industry) and Pittsburgh (CMU/smart vehicle/service industry)
- Potential International Project Partners - Barcelona