SMARTCOLUMBUS

OUR VISION

ACCESS TO JOBS | **SMART LOGISTICS** | **CONNECTED RESIDENTS** | **CONNECTED VISITORS** | **SUSTAINABLE TRANSPORTATION**

The City of Columbus "Smart Columbus" vision won the **U.S. Department of Transportation $40 million Smart City Challenge** in June, 2016 after competing against 77 cities nationwide to implement a holistic vision for how technology can help all residents to move easily and to access opportunity. Columbus was also awarded an additional **$10 million grant from Paul G. Allen's Vulcan Inc.** to reduce greenhouse gas emissions through the decarbonization of the electric supply and transport sectors.

Smart Columbus aspires to:

- Improve **access to jobs** through expanded mobility options in major job centers
- Compete globally through **smart logistics**
- **Connect Columbus residents** to safe, reliable transportation that can be accessed by all
- Better **connect our visitors** to transportation options
- Develop a more environmentally **sustainable transportation** system

THE COLUMBUS WAY

Columbus has built an unprecedented culture of collaboration. By knocking down silos and building partnerships, Columbus has quickly become one of the fastest growing cities in the country, leading the Midwest in job and wage growth. The City of Columbus is matching the USDOT and Vulcan grants with more than **$360 million in pledges** from public and private sector partners.

OUTCOME: A SAFER, MORE MOBILE AND SUSTAINABLE CITY

Columbus will become the nation's epicenter for intelligent transportation systems (ITS) research to improve safety, enhance mobility, create ladders of opportunity for those who may have been left behind in the past, and reduce emissions.

U.S. Department of Transportation

transportation.gov | **columbus.gov/smartcolumbus**

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SAFETY

MOBILITY

OPPORTUNITY

DECARBONIZATION

STATE-OF-THE-ART PROJECTS

Smart Columbus will develop, deploy and share lessons learned for 15 USDOT-funded and 4 Vulcan-funded priorities within the following framework and districts.

USDOT

Integrated Data Exchange

The heart of Smart Columbus is the Integrated Data Exchange (IDE), a dynamic, cloud-based platform that integrates data from multiple sources, including the planned smart city technologies, traditional transportation data, and data from other community partners, such as food pantries and medical service providers. This will facilitate better decision-making and problem solving for all users.

Columbus Connected Transportation Network

Leveraging the city's high-speed fiber investment, the Columbus Connected Transportation Network (CCTN) will connect people, vehicles, infrastructure and transportation providers in a safe, secure and seamless manner. Projects include connected vehicles, smart street lights with Wi-Fi and a transit-pedestrian collision avoidance system.

The Residential District: Linden

Smart Columbus will leverage cutting edge transportation technology to enhance human services and improve the lives of residents who have not historically enjoyed their share of the city's gains. Trip planning and payment options will be integrated so residents have more convenient access to jobs, school, fresh food and doctor appointments. Central Ohio Transit Authority (COTA) will launch a mobile application that enables persons with cognitive disabilities to travel independently.

The Commercial District: Easton

"First and last mile" transportation solutions will be implemented in Easton, a popular retail and commercial hub on the northeast side of Columbus. A fleet of six connected electric autonomous transit vehicles will be deployed, making Smart Columbus one of the first connected, autonomous vehicle deployments in the nation consistent with USDOT guidelines. Multiple inductive charging stations will also be installed.

The Downtown District

Smart Columbus will introduce real-time freight delivery zone availability technology in the Short North Arts District, a bustling urban area. The city will also deploy and evaluate an enhanced parking permit system and create a new parking management system. This will allow travelers to plan, reserve and book a parking space during large events. Direct routing of travelers is expected to reduce congestion during those times.

The Logistics District

Through the use of truck platooning and oversized vehicle routing, Smart Columbus will improve fuel efficiency, increase safety and improve overall delivery efficiency. Additionally, by integrating truck parking information into the Integrated Data Exchange, Smart Columbus will be able to direct commercial vehicle drivers to safe, convenient parking solutions.

VULCAN

Decarbonization

Produce one of the largest regional Greenhouse gas (GHG) reductions in the U.S. through grid modernization, electric vehicle adoption and installation of charging infrastructure.

Electric Vehicle Fleet Adoption

Address the Midwest's lagging position in public and private electric vehicle fleet deployment.

Consumer Electric Vehicle Adoption

Advance a replicable model of transportation electrification for mid-sized cities across the nation.

Charging Infrastructure

Significantly increase the number of electric vehicle charging facilities with the purpose of accelerating electric vehicle adoption.