# 33 SMART MOBILITY CORRIDOR

The 33 Smart Mobility Corridor is one of the nation's ultimate smart mobility playgrounds. The corridor offers a 35-mile stretch of connected highway with on-the-road infrastructure that allows for the development and testing of CV technologies in a real-world, open and closed, all-weather environment.

## ULTIMATE PLAYGROUND

- 35-mile stretch of Continuous Connected Vehicle Infrastructure
- 94 Road Side Units (RSUs) & 1,000 On Board Units (OBUs)
- 27 Smart Signals in City of Marysville; 5 in City of Dublin
- 147 Smart Signals in City of Columbus (Regional Partners)
- 432-strand Redundant Fiber Network
- Closed Testing at 540-acre Transportation Research Center's SMARTCenter
- Open Testing on US-33, Connected Marysville & Dublin, & Smart Columbus Platforms
- All-Weather Testing Environment
- Testing in Rural, Exurban, Suburban, and Urban Environments
- Testing of Unmanned Aircraft Systems
- $500 million Being Invested in Regional Smart Mobility Infrastructure

## ACADEMIA & INDUSTRY PARTNERS

- Transportation Research Center
- NHTSA Research and Test Center
- Automotive & Mobility Innovation Center (AMIC)
- OSU Center for Automotive Research
- Honda-OSU Partnership
- Ohio University
- Columbus State Modern Manufacturing Apprenticeship Program

## AUTOMOTIVE JUGGERNAUT

- 70+ Automotive Companies within Corridor
- 150+ Automotive Suppliers within Region
- 645,000+ Vehicles Produced Annually within Corridor
- Smart Mobility Incubator and Collaboration Space
- Multiple Sites for Development

## BEST IN TALENT

### COLUMBUS REGION

- One of the highest concentrations of college students in the nation with approximately 134,000 students
- 52 Colleges and Universities
- 18,000+ Automotive Employees

### 33 SMART MOBILITY CORRIDOR

- On average, 7-times more Engineers than Ann Arbor, Michigan MSA and Las Vegas, Nevada MSA, which are peer CV regions
- 25% of workforce dedicated to Research & Development

# The 33 Smart Mobility Corridor is a part of the Columbus Region Connected Vehicle Ecosystem.

"...one of the greatest collections of engineering and production talent in the world."

- Hidenobu Iwata, Former President & CEO
Honda of America

### TRANSPORTATION RESEARCH CENTER

- Nation's largest independent vehicle testing facility and proving grounds
- NHTSA Vehicle Research Center
- 24/7 testing with 4,500 acres of road courses/trails, 7.5-mile test track, and 50-acre Vehicle Dynamics Area
- 540-acre SMARTCenter allows testing of CAVs
- Offers real life traffic scenarios

### CONNECTED MARYSVILLE

- 27 Smart Intersections
- 1,000 Connected Vehicles
- Testing of CV Applications
- Online Data Repository
- Fiber Connectivity

### 33 INNOVATION PARK

- 206-acre site for smart technology companies
- Fiber Connectivity

### CITY OF DUBLIN

- 5 Smart Intersections
- Connected Roundabout
- Smart Parking Technology
- Fiber Connectivity
- West Innovation District
- Metro Data Center

### STATE RESOURCES

**DRIVEOHIO**

- Statewide initiative that organizes and accelerates smart vehicle and CV projects
- Single point of contact
- Develops goals, policies, and operating standards

**JOBSOHIO**

- A private non-profit corporation designed to drive job creation and new capital investment in Ohio
- Works directly with companies on attraction and expansion efforts

### AUTOMOTIVE MOBILITY INNOVATION CTR.

- Tech and business incubator
- High-performance computing
- Fiber connectivity
- CAD/CAE talent
- 3D scanning capabilities
- Physical prototyping

### UNMANNED AIRCRAFT SYSTEMS

- Partnership of DriveOhio's UAS Center and The Ohio State University
- Drones monitor traffic and road conditions
- Data Sent to Ohio Traffic Management Center

### CENTER FOR AUTOMOTIVE RESEARCH

- University research center focused on energy, safety, the environment, and improving mobility
- State-of-the-art facilities for students, faculty, research staff and industry partners

### SMART COLUMBUS

- Technological backbone of future smart city projects
- Measures performance and progress of USDOT initiatives
- Focused on enabling technologies for a CV environment, enhancing human services, and developing emerging technologies

East Liberty

Marysville

Dublin

Columbus

US 33

71

270

70

## PLANNED CAV APPLICATIONS

| | |
|---|---|
| PEDESTRIAN CROSSWALK WARNING | Inform drivers of pedestrian presence |
| REDUCE SPEED ZONE WARNING/LANE CLOSURE | Inform drivers of travel lane disruptions |
| RED LIGHT VIOLATION WARNING | Inform drivers of probable violation |
| CURVE SPEED WARNING AT INTERCHANGE RAMPS | Inform driver of high speed approach |

## DRIVEOHIO

WWW.DRIVE.OHIO.GOV

**DriveOhio** serves as the hub for all things autonomous and connected in Ohio. As the single point of contact for all of Ohio's smart mobility initiatives and advancements, DriveOhio fosters cooperation and collaboration, offers faster access to resources by breaking down government barriers, and improves efficiencies for people and organizations that want to be part of this industry.

DriveOhio

The Future of Smart Mobility

### Smart Mobility Projects

1. Self-Driving Shuttle on the Scioto Mile
2. Unmanned Traffic Management Pilot
3. Connected Marysville
4. Smart Columbus
5. Uber Movement, Cincinnati Mobility Lab Project
6. Dublin Connected Roundabout
7. Smart[2]
8. FlyOhio: SkyVision

### Connected Corridors

1. U.S. 33 Smart Mobility Corridor
2. Ohio Turnpike Corridor
3. Future Ohio Turnpike Corridor Expansion
4. Cincinnati/Dayton Workforce Corridor
5. Lake Effect Corridor
6. SmartLane

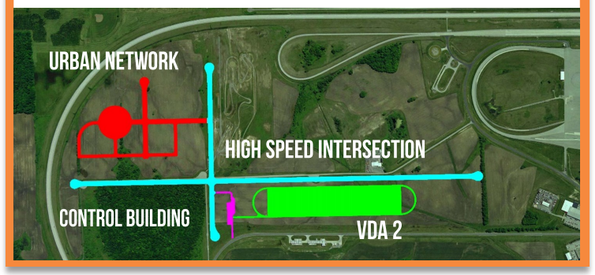
### City Use Cases in Development

## TRC SMARTCENTER

WWW.TRCPG.COM

The Transportation Research Center's new 540-acre **SMARTCenter** is a state of the art hub that allows the testing of highly automated and connected vehicles before deployment on public roads in a safe and controlled environment. The safe environment allows engineers to test challenging, real life, traffic scenarios without the risk to people or property. The SMARTCenter features:

- the longest and widest connected, signalized intersection in the industry
- an urban network consisting of movable intersections, roundabouts, and oblique intersection scenarios
- a 10,000 SF control building with garage and office space
- full site access to DSRC and high speed wireless communication
- an underground power distribution and fiber network




## SITES & AMENITIES

The 33 Smart Mobility Corridor offers a wide variety of prime development sites with freeway visibility and access, high architectural standards, and the latest in modern infrastructure. Two such sites are the 33 Innovation Park in Marysville, and the West Innovation District in Dublin. Both locations offer excellent options for smart mobility companies, research and development firms, advanced manufacturers, tech and corporate offices.

### 33 INNOVATION PARK

The new 206-acre **33 Innovation Park** in Marysville features brand new utility infrastructure, including an unparalleled fiber optic network. With an ideal location, freeway visibility and access, competitive lot prices, and flexible development options, the 33 Innovation Park is the perfect location for smart mobility companies that wish to utilize the nearby 33 Smart Mobility Corridor for testing.

Contact: Lee & Associates, 614.923.3300
**www.33innovationpark.com**

### WEST INNOVATION DISTRICT

The 1,100-acre **West Innovation District** in Dublin is a showcase business community for forward-thinking companies that desire high-tech office space, clean manufacturing facilities, and related supporting purposes. Freeway visibility and access, open spaces, and a unique mix of contemporary architecture and natural landscapes make this business neighborhood an ideal setting for modern enterprise campuses.

Contact: Dublin Economic Development, 614.410.4618
**www.econdev.dublinohiousa.gov**

### AUTOMOTIVE & MOBILITY INNOVATION CENTER (AMIC)

The **AMIC** is a 20,000 SF center of innovation that will be located at the 33 Innovation Park in Marysville. It will house the following:

- Entrepreneurial center and business incubator
- Office and co-working space for emerging companies
- Offices for state agencies involved in automotive and smart mobility
- Testing lab and data center
- Space for K-12 and higher education institutions promoting talent and entrepreneurial development
- Display area to promote smart mobility and to educate citizens on the evolution of mobility
- Co-working space that will inspire innovative thought and collaboration among the AMIC tenants, automotive, and smart mobility companies
- Space for a Traffic Management System operations office

Contact: Union County-Marysville Economic Development, 937.642.6279
**www.amicohio.org**

### METRO DATA CENTER

The **Metro Data Center** (MDC) in Dublin is a full-service business hosting and data center. The center offers 22,000 SF of "High Tier" infrastructure, supporting a fully redundant N+1 environment. The MDC is equipped to provide businesses with tailored, flexible solutions they need with reliability and superior service.

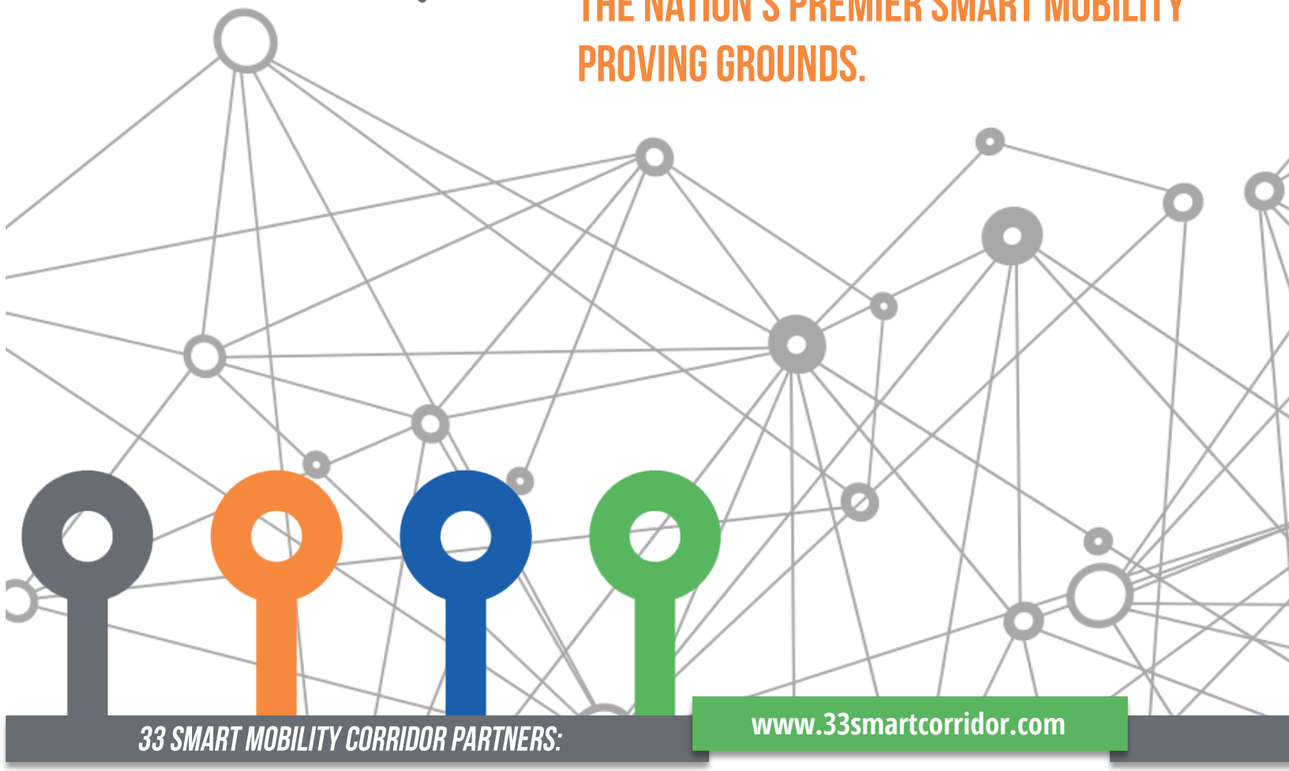
Contact: Metro Data Center, 614.408.9061
**www.metrodatacenter.com**

**FOR MORE INFORMATION ABOUT THE 33 SMART MOBILITY CORRIDOR, PLEASE VISIT OUR WEBSITE: WWW.33SMARTCORRIDOR.COM**

May 2019

# 33 SMART MOBILITY CORRIDOR

## THE NATION'S PREMIER SMART MOBILITY PROVING GROUNDS.



**33 SMART MOBILITY CORRIDOR PARTNERS:**

**www.33smartcorridor.com**

JobsOhio · DriveOhio The Future of Smart Mobility · City of Dublin OHIO, USA · City of Marysville · Union County Ohio grow with us. · The Ohio State University · TRC Transportation Research Center Inc.