

Stan Caldwell, Executive Director

Mobility21

**A USDOT NATIONAL
UNIVERSITY TRANSPORTATION CENTER**

Carnegie Mellon University

 **Penn**
UNIVERSITY OF PENNSYLVANIA

 **THE OHIO STATE UNIVERSITY**

 **CCAC**

Our UTC's approach is...

- Research
- Development
- Deployment through partnerships

Deployment Partner Consortium
with over 80 members

Spinoffs from CMU's National UTCs



Affordable Automated Road Assessments

Jobs Created

> 30



Intelligent transportation technologies for smart cities

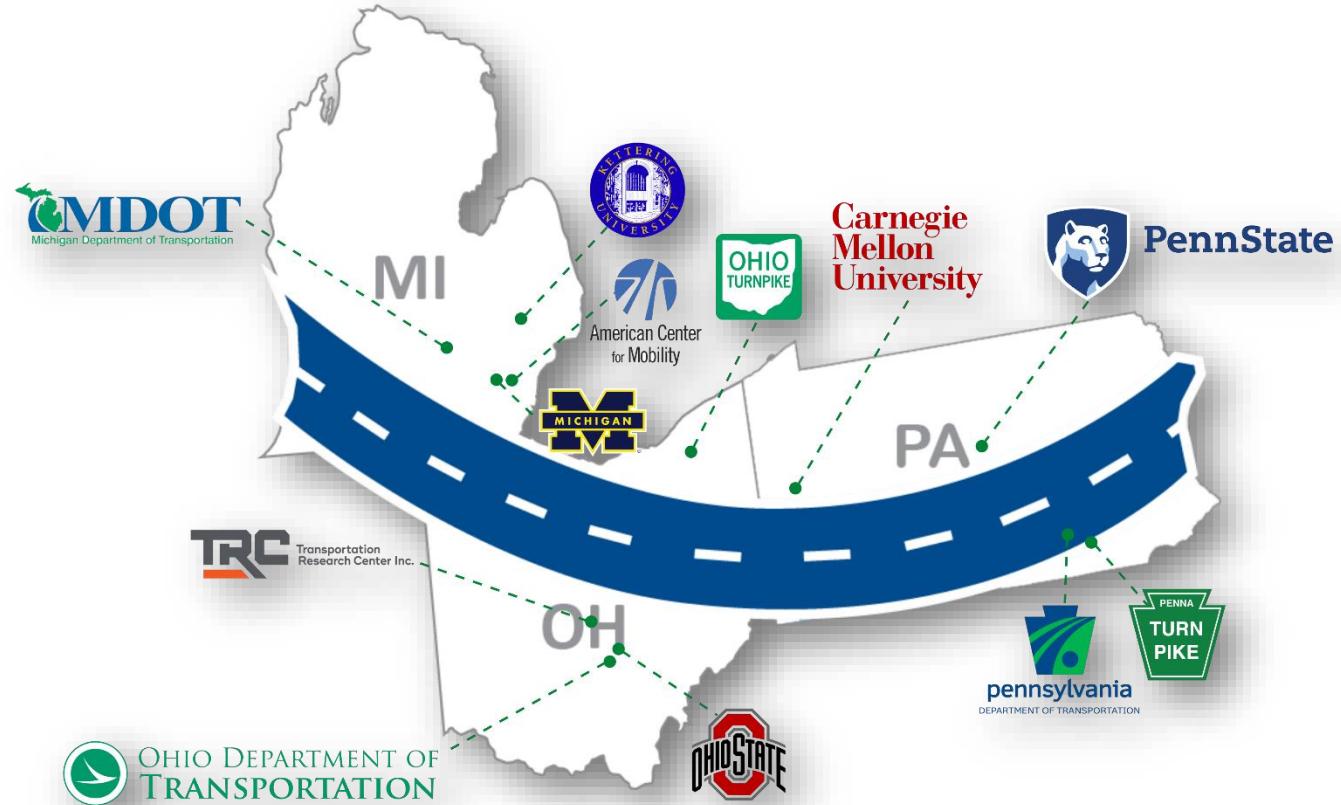
> 10



Intelligence for connected and automated vehicles

> 100

Smart Belt Coalition



Attributes:

4 Distinct Seasons

Urban & Rural Roadways

Multi-jurisdictions

Priorities:

Freight

Work Zones

Traffic Incident Mgmt.

44 cities, 5 counties and 59 universities



UTC Technology Transfer Plan Components (1 of 3)

1. Involvement of Stakeholders in the Research Program

- Deployment Partner Consortium Symposium
- Community Partners for Individual Projects
- National Safety Summits and National Mobility Summits

2. Assisting Stakeholders in Implementing and Deploying Research Outputs

- Support of the City of Pittsburgh Smart City Challenge and ATCMTD Grant
- City of Pittsburgh Autonomous Vehicle Proving Ground
- Smart Mobility Challenge

3. Commercialization Process of Research Outputs

- Spinoff Companies, Jobs Created and Communities Served

UTC Technology Transfer Plan Components (2 of 3)

4. Collection and use of licensing revenues to project further support for research and technology transfer

- CTTEC, Swartz Center and Engineering Research Accelerator

5. Dissemination of Research Results

- Publications and Presentations, What's Happened, Dispatch

6. Tracking and Reporting of Research Outputs, Outcomes and Impacts

- PPPR Live
- Impacts and Accomplishments

7. How Corporate Research Support Will Be Increased

- Corporate Sponsored Research

8. Technology Transfer Goals and Performance Measures

	Research Performance Measure	Target
Output #1	Annual Number of Journal Publications	35
Output #2	Annual Number of Research Pilot Deployments	10
Outcome #1	Annual Number of Media Stories Referencing UTC Research, Faculty, or Spinoff	80
Outcome #2	Annual Number of Instances Providing Exposure to Transportation, Science and Technology for Practitioners, Teachers, Young people, or Other Members of the Public (other publications, conference papers and presentations)	50
Impact #1	Annual Number of Instances of Technology Adoption or Commercialization	3
Impact #2	Annual Number of Instances of Research Changing Behavior, Practices, Decision Making, Policies (Including Regulatory Policies), or Social Actions	3

PPPR Live

The screenshot displays the Mobility21 website interface. At the top left is the Mobility21 logo. A navigation bar contains links for HOME, CONTACT, IMPACTS, ACCOMPLISHMENTS, and US DOT REPORTS. Below this is a secondary navigation bar with links for About Us, News, Events, What's Happening (highlighted in green), Projects, and For Students. The main content area features three news items:

- Mobility21 Researcher Participates in the Traffic Safety and the 5.9 GHz Band Conference**
June 3, 2019
Mobility21 UTC researcher, Steve Smith participated in a panel at the Traffic Safety
- CCAC Faculty Leads Transportation Discuss with Career and Technology Center Students**
June 1, 2019
Bob Koch from the Community College of Allegheny County visited the Western Area
- UTC Faculty Received Award from Office of Naval Research**
May 30, 2019
Venkat Viswanathan, Assistant Professor at Carnegie Mellon University and UTC funded faculty received a 2019 Young Investigator Award from the Office of Naval Research to research how to improve battery safety in low

At the bottom of the browser window, the address bar shows the URL: https://mobility21.cmu.edu/whats_happening/ccac-faculty-leads-transportation-discuss-with-career-and-technology-center-students/. The presentation controls at the bottom indicate 'Slide 9 of 9' and a zoom level of 54%.