City of Pittsburgh Proposal

Beyond Traffic: The Smart City Challenge

Submitted February 4, 2016
## The SmartPGH Platform

### Goal Attainment:
- Vision Zero
- 50% Emissions Reductions by 2030
- Corridors of Opportunity - mobility services for all residents

### Outcomes:
- Better Traffic Management
- Improved Safety
- Mode Shift toward Transit, Biking, Walking
- Corridor Investment
- Best practice and national standard

### Demonstrable Applications:
- Connected Autonomous vehicles
- Integrated payment systems
- Integration of district energy system

### Deployable Applications:
- Surtrac expansion
- Expansion of existing connected vehicle network
- Electric Avenue (2nd Avenue)
- MovePGH Mobility Information

### Data Collection Network:
- Fixed, Mobile, Human (Social Media) Assets
- RAMP Air Quality Monitors
- Mobility Analytics Center & Western Pennsylvania Regional Data Center

### Governance Structure:
- SmartPGH Consortium
## Partners

### Government Partners

- Allegheny County
- Commonwealth of Pennsylvania
- Senator Robert P. Casey
- Congressman Mike Doyle
- Port Authority of Allegheny County
- Southwestern Pennsylvania Commission
- Port of Pittsburgh Commission
- Urban Redevelopment Authority of Pittsburgh
- Allegheny County Department of Economic Development
- Pennsylvania Department of Transportation
- 3 Rivers Workforce Investment Board
- Westmoreland County Transit Authority

### University Partners

- Carnegie Mellon University Office of the President
- University of Pittsburgh Office of the Chancellor
- Carnegie Mellon University Center for Atmospheric Particle Studies
- Carnegie Mellon University Remaking Cities Institute
- Carnegie Mellon University Traffic21
- Carnegie Mellon University Metro21

### Philanthropic Partners

- Richard King Mellon Foundation
- Hillman Foundation
- Heinz Endowments
- Buhl Foundation
- Benedum Foundation
- Colcom Foundation

### Non-Profit Partners

- Transportation 4 America
- Smart Cities Council
- Intelligent Transportation Society of Pennsylvania
- SAE International
- Advanced Energy Economy
- Bike Pittsburgh
- Allegheny Conference on Community Development

### Industry Partners

- Uber
- Duquesne Light
- People’s Gas
- Bosch
- General Motors
- Aquion Energy
- TomTom
- Amazon
- Zipcar
- Ford
- General Electric
- IBM
- HERE
- Savari
- INRIX
- Advanced Energy Economy
- 1776
- Cohda
- OSI
- Arada
- Parsons Brinckerhoff
- AT&T
- Sidewalk Labs (Google)
- Peloton

### Neighborhood Allies

- Pittsburgh Community Reinvestment Group
- Envision Downtown
- Pittsburgh Supercomputing Center