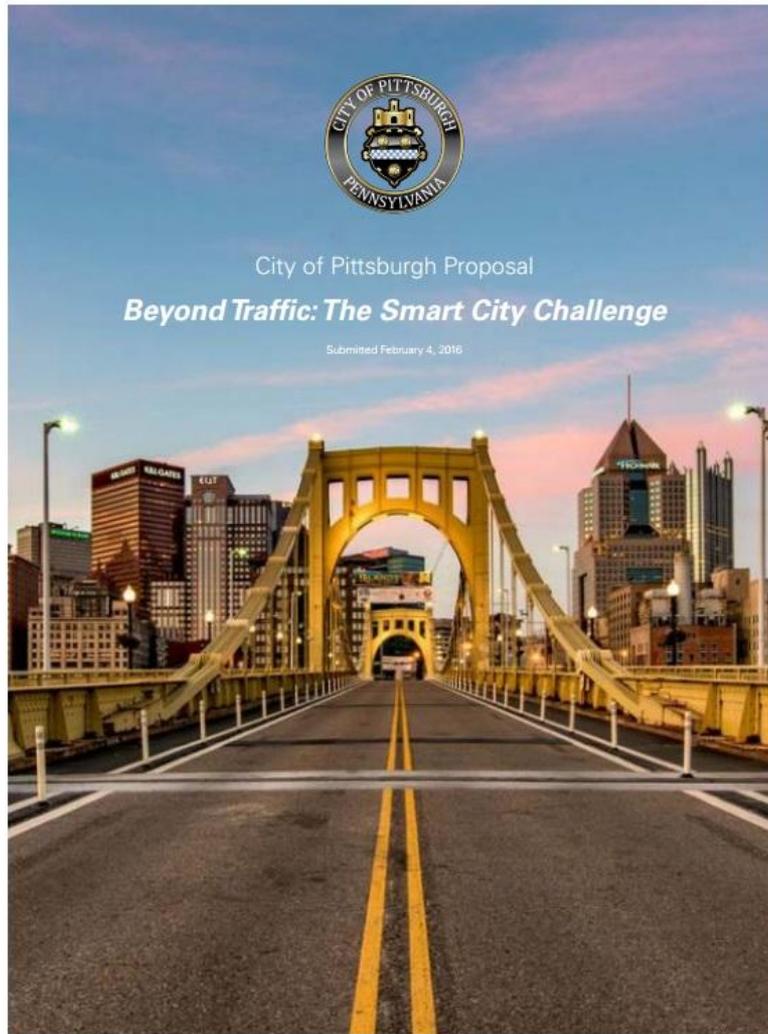




City of Pittsburgh Proposal

Beyond Traffic: The Smart City Challenge

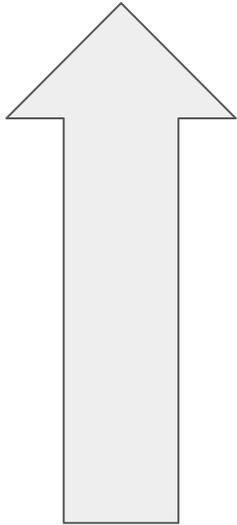
Submitted February 4, 2016





The SmartPGH Platform

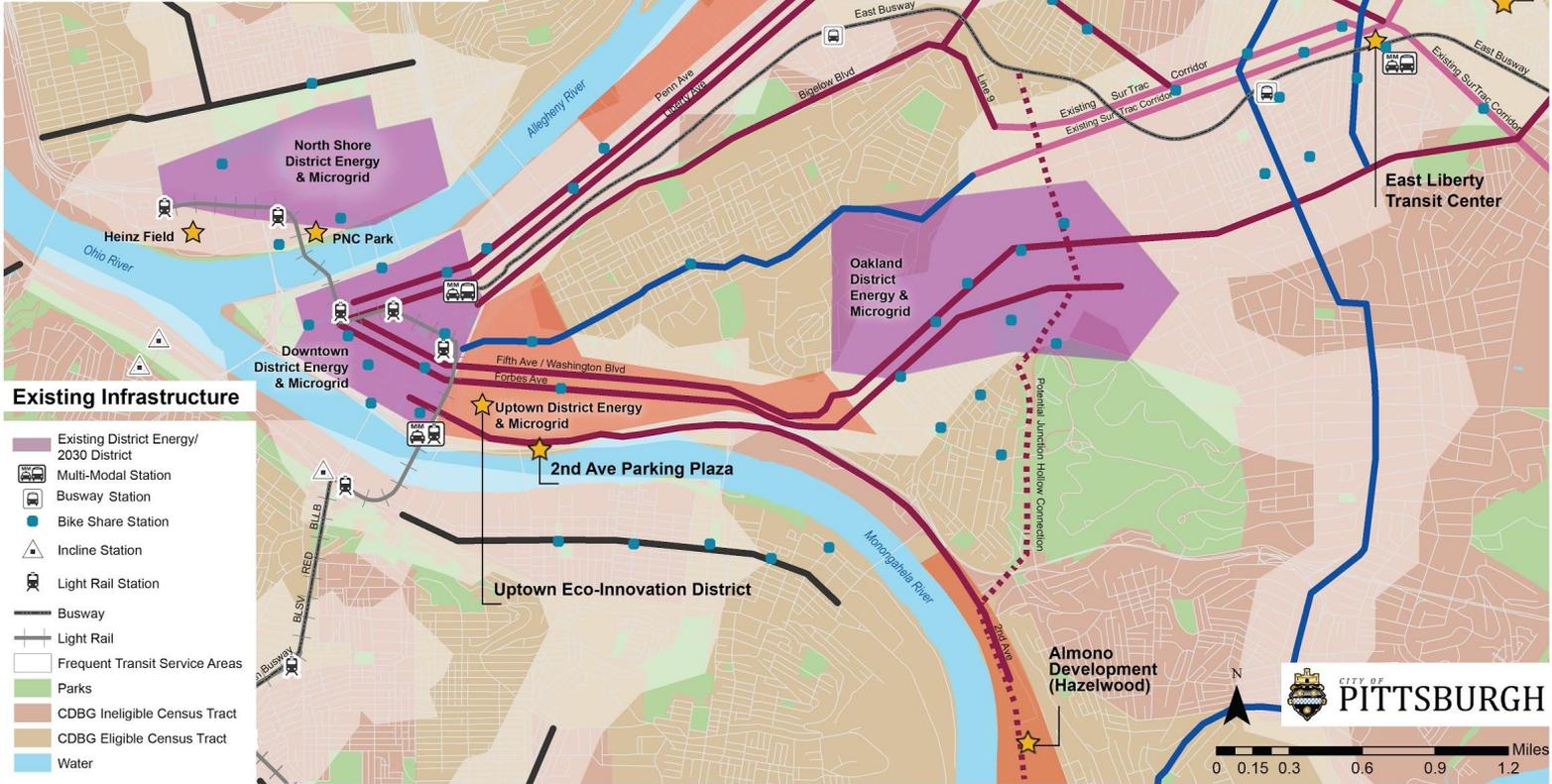
Goal Attainment:	<ul style="list-style-type: none">• Vision Zero• 50% Emissions Reductions by 2030• Corridors of Opportunity- mobility services for all residents
Outcomes:	<ul style="list-style-type: none">• Better Traffic Management• Improved Safety• Mode Shift toward Transit, Biking, Walking• Corridor Investment• Best practice and national standard
Demonstrable Applications:	<ul style="list-style-type: none">• Connected Autonomous vehicles• Integrated payment systems• Integration of district energy system
Deployable Applications:	<ul style="list-style-type: none">• Surtrac expansion• Expansion of existing connected vehicle network• Electric Avenue (2nd Avenue)• MovePGH Mobility Information
Data Collection Network:	<ul style="list-style-type: none">• Fixed, Mobile, Human (Social Media) Assets• RAMP Air Quality Monitors• Mobility Analytics Center & Western Pennsylvania Regional Data Center
Governance Structure:	<ul style="list-style-type: none">• SmartPGH Consortium



Smart Spine System

Proposed Infrastructure

- Existing SurTrac Corridors
- Phase 2 Priority Corridor
- Phase 1 Priority Corridors
- Phase 3 Priority Corridors



Existing Infrastructure

- Existing District Energy/ 2030 District
- Multi-Modal Station
- Busway Station
- Bike Share Station
- Incline Station
- Light Rail Station
- Busway
- Light Rail
- Frequent Transit Service Areas
- Parks
- CDBG Ineligible Census Tract
- CDBG Eligible Census Tract
- Water



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
Pittsburgh Community Reinvestment Group
Envision Downtown
Pittsburgh Supercomputing Center
Neighborhood Allies

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