Lightning Talk
Global Tech Jam Conference and GCTC

Wilfred Pinfold, Global Tech Jam Co-Chair
Global City Teams Challenge Tech Jam

Event Details

Date: Jun 20, 2018 to Jun 22, 2018
Time: 8:00 am to 12:00 pm
Location: Oregon Convention Center
777 NE Martin Luther King Jr Blvd
Portland, OR 97232
Price: $100

Portland, Oregon, is pleased to host for the second year Global City Teams Challenge Tech Jam - Wednesday, June 20 - Friday, June 22, 2018.

Bringing together forward-looking municipalities, research institutions, federal agencies, leading private sector companies, interested in preparing their infrastructure for the latest technologies to provide better, more equitable services. This three-day conference will feature Transportation with participation from other project areas including Energy/Water/Waste, Public Safety, WiFi, City Platform/Dashboard, and more.

As co-hosts of this event, the Technology Association of Oregon and urban.systems aim to provide you with a world-class experience in one of America's leading destinations for urban and transportation planning as well as thriving food, arts and culture, and music scenes.
Smart and Secure Cities and Communities Challenge Kickoff 2018

February 6-8, 2018 – Washington DC, USA

2018 Global City Teams Challenge (GCTC) will be co-hosted by NIST and U.S. Department of Homeland Security Science and Technology.
Category:Transportation

Transportation SuperCluster (TSC) [edit]

This supercluster was formed and is managed by forward looking municipalities interested in preparing their infrastructure for new technologies that look set to provide better, more equitable services at lower cost. It explores the opportunities provided by first and last mile vehicles including shared, low speed and autonomous. It explores the opportunities for building vibrant communities around transfer points and mobility hubs and it addresses how these vehicles and hubs can play a role in the last mile delivery of packages and freight. To support these opportunities the supercluster works with teams developing new and advanced transportation models and environmental sensors that allow both the prediction of probable outcomes and the measurement of actual outcomes of introducing these technologies. Finally, the supercluster works with teams implementing a smart city SDK to ensure the portability and interchangeability of solutions and propose regulatory and policy changes that support the safe deployment of these technologies.

Chair [edit]

Winfred Parfitt, CEO, Urban Systems

Skip Newberry, President and CEO, Technology Associates of Oregon

Leadership Team [edit]

City of Portland OR, City of Columbus OH, Technology Association of Oregon, Urban Systems Inc., Baltimore Electric Vehicle Initiative, Isofostone North America, Pacific Northwest National Laboratory, Portland State University, Ohio State University, Ubiquity

Pages in category "Transportation"

The following 7 pages are in this category, out of 7 total.

F
- Farm to Fork Crop Tracking
- Final 50 Feet: Urban Goods Delivery System

G
- GENIVI Las Vegas Connected Vehicle Pilot Project

I
- Integrated Vehicle Service System

R
- Reduced customs clearance time with virtual extension of sea ports

U
Category: ActionCluster

GLOBAL CITY TEAMS CHALLENGE

Action Clusters  [edit]

There are more than 300 organizations participating in GCTC smart city technology projects, called Action Clusters. These participants include representatives from U.S. cities and states, major cities in other countries, government agencies, private companies, non-profits, universities, hospitals, and a variety of municipal-focused organizations.

Pages in category "ActionCluster"

The following 17 pages are in this category, out of 17 total.

C
- Constituent-led, Public Data & IoT Utility for Urban Health, Housing, and Environmental Hazard Management

D
- Deployment of user-friendly, secure and sustainable federated public Wi-Fi systems

F
- Farm to Fork Crop Tracking
- Final 50 Feet: Urban Goods Delivery System
- First Responders on the Grid

G
- GENIVI Las Vegas Connected Vehicle Pilot Project

I
- Illuminating Smart Cities: Kansas City Runs on IoT Platform
- Integrated Vehicle Service System

L
- Lighting Infrastructure as a Service Platform

P
- Portland Connected Intelligent Transportation

R
- Project GRACE
- Reduced customs clearance time with virtual extension of sea ports

S
- Saitama City Smart Community Project
- Smart Beyoglu: Digital Recollection of Beyoglu
- Smart City Vision, Strategic Planning, and Digital Transformation Methodology
- Smart Wide Area Protection and Security for All from Concord Security

U
- Urban Circulators utilizing Low Speed Electric Vehicles
GENIVI Las Vegas Connected Vehicle Pilot Project

Contents

1. Description
2. Challenges
3. Solutions
4. Major Requirements
5. Performance Targets
6. Standards, Replicability, Scalability, and Sustainability
7. Cybersecurity and Privacy
8. Impacts
9. Demonstration/Deployment

Description

The GENIVI Alliance, the Nevada Center for Advanced Mobility (Nevada CAM), the City of Las Vegas (CLV), the Regional Transportation Commission of Southern Nevada (RTC), and the University of Nevada, Las Vegas (UNLV) have partnered on a Connected Vehicle Pilot with a focus on pedestrian safety and traffic flow. CLV and RTC fleet vehicles are being outfitted with new technology utilizing GENIVI Alliance Remote Vehicle Interaction software that will allow the driver to receive information regarding road conditions, including crosswalk and bus stop locations, from city data on an infotainment platform. In essence, the vehicle will be sent messages based on its location in relation to city data to alert the driver that they may be approaching a location with the potential for high-pedestrian activity or that adverse traffic conditions are ahead on their route, creating a safer and more connected transportation network.

Challenges

- Address roadway safety for all users and prevent crashes due to distracted driving
- Clark County has one of the highest pedestrian fatality rates in the nation
- Ease of access to real-time and robust historical data that may provide insight into roadway operating conditions and crash investigation

Solutions

- Use connected car technologies to provide actionable messaging to drivers on road conditions
- Adoption of an open standard vehicle communication protocol based on a consortia-developed technology enabling faster deployment among vehicle manufacturers
- On-board diagnostic port data could be collected for big data analytics for city planning and decision-making purposes
- Identify roadway safety use cases that could be addressed using the connected car technologies
- Develop and deploy an in-vehicle unit that consistently gathers vehicle data from and displays information in a variety of makes/models in the city/regional fleet
- Establish secure, reliable, two-way wireless connectivity between the in-vehicle unit and city-hosted servers so that vehicle data flows and actionable alerts return to inform the driver
- Identify city infrastructure datasets that could interface with the vehicle data for messaging on static roadway features
GCTC Transportation Supercluster

Blueprint for Improving First and Last Mile Connections
For Transit Users

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This document was prepared with the help and support of the following contributors and advisors.

Pilot Programs for AV Technologies
- Transit Station to Company Campus:
- Transit Station to College Campus:
- Transit Station to Public Place (e.g. shopping mall):
- Residence to Transit Station:

Shared Mobility Vehicles

Freight

Mobility Hubs
- Electric Vehicle Charging Infrastructure
- Maintenance and System Operation

Right-of-way Management

Connected Vehicle
- Transaction Platform
- CityWeb
- Interoperability

May 9, 2018