Building Smart Cities and Communities at the Regional Level

NTIA Webinar Series

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June 19, 2019
Participants

Presenters

• Maci Morin, Program Coordinator, National Association of Regional Councils
• Danielle Hughes, Capital Program Manager, Tahoe Transportation District
• Karl D. Darin, VP & Program Lead, Smart Region Movement, Greater Washington Board of Trade

Moderator

• Jean Rice, Senior Broadband Program Analyst, BroadbandUSA, NTIA
Helpful Information

Questions
• Please type questions and comments in the question box on the right hand side of the screen. Questions will be taken after the final presenter.

Presentation
• The presentation along with a transcript and an audio recording will be available on the BroadbandUSA website within 7 days of this webinar under Events/Past Events.
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Technical Assistance
• Guides, products, publications, and other tools are available to assist you with the planning, funding and implementation of your broadband project.
  • [https://broadbandusa.ntia.doc.gov](https://broadbandusa.ntia.doc.gov)

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Smart Regions

Jean Rice
Senior Broadband Program Analyst
BroadbandUSA, NTIA
WABASH HEARTLAND INNOVATION NETWORK

We exist to cultivate a regional ecosystem that empowers globally competitive businesses to plant and grow in the Wabash Heartland.

We envision the Wabash Heartland as a global leader of digital agriculture and next-gen manufacturing empowered by smart IoT platforms.

Engage agriculture producers/businesses in the region and develop career-ready certificates, digital-readiness trainings, and agriculture IoT testbeds.

Enable real-time analytics of manufacturing systems, develop workforce education opportunities, and IoT testbeds.

Invest in innovative place-making projects that increase education, vitality, and connectivity.

Smart technology. Smart region. Smart future.

http://WHIN.org
Food Shed and Freight Analysis Zones
Vancouver, Seattle and Portland Form the Cascadia Innovation Corridor

Homogeneous
Green
Socially aware
Tech-savvy
Geologically unstable
Supercomputer Modeling and Artificial Intelligence Cluster for Smart Cities and Regions

Super Computing

Partner Eco-System

Data Economies

Solution Marketplace

Artificial Intelligence
ICT Systems

Innovation Testbeds

Policy and Ethics

Global Reach

Resiliency

Cities, Regions, Rural

Property of Innovation Corridor LLC and Powering IoT LLC
GCTC Smart Regions Collaborative

Maci Morin, Program Coordinator, National Association of Regional Councils
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Principal Partners:
- GCTC Smart Regions
- Collaborative Leadership
- Johnny Park, Wabash Heartland Innovation Network
- Danielle Hughes, Transportation Infrastructure Adaptation Projects
- Karl Darin, Greater Washington Smart Region Movement
- Eric Drummond and Mathew James Bailey, Supercomputing and Artificial Intelligence SuperCluster
- Scott Seeley, Tri-State (PA, WV, and OH) Region Food System Project
- Johnathan Fink, Digital City Testbed Center in the Cascadia Innovation Corridor

Powering IoT:
- NIST
- NARC
Value of the GCTC Smart Regions Collaborative

• Elevates smart cities and communities conversations to the regional level

• Encourages the formation of teams that span across jurisdictions, sectors, and disciplines

• Regional projects not limited to one particular issue area (can address resiliency, health, public safety, agriculture, mobility, and more)

• Highlights that regional, smart approaches are critical to reach people living in ALL types of communities
Goals of the GCTC Smart Regions Collaborative

- Create a blueprint that empowers local, regional, and tribal leaders to build their own smart region strategies
- Link participants to information, technical assistance, and connections to relevant industry professionals
- Allow plenty of opportunities for peer-to-peer networking
- Hold regular discussions on topics that come up as challenges in most smart region efforts
Thank you

Maci Morin
Program Coordinator
National Association of Regional Councils
Lake Tahoe Basin End Warning System and Bi-state NextGen 911 Dispatch and Traffic Management Center
Is Tahoe Paradise?

California Races To Predict Which Town Could Be Next To Burn

Wednesday, April 10, 2019

By Associated Press

Kings Beach: Tourists seek fun, bring fire danger

Population (2010)—3,796 In Very High Fire Hazard Severity Zone—3,796

Situated on the pristine north shore of Lake Tahoe, Kings Beach is one of the most heavily visited vacation spots in Northern California.

That’s a big part of the problem.

Because so much of the population comes and goes, it becomes harder to get people to treat wildfire risk with the respect it deserves, said Erin Holland, a spokeswoman for the North Tahoe Fire Protection District. One of the district’s six stations is in Kings Beach.

“It’s definitely a challenge because we have so many homes that are vacation homes,” she said. “It’s really a challenge to educate those visitors. They want to have a camp fire.”

Tahoe’s vulnerability to major fires was brought home dramatically in recent years. The Angora Fire in 2007, while it was confined to the south shore area, left physical and emotional scars on the entire basin after burning through 3,100 acres.

Angora Fire

The Angora Fire approaches a local business structure.

Location South Lake Tahoe, California

Coordinates 38.863°N 120.05°W

Statistics

Cost At least $152.7 million (2007 USD)

Date(s) June 24, 2007 – July 2, 2007

Burned area 3,100 acres (13 km²)

Cause Illegal camp fire

Buildings destroyed 280

Gondola fire burning out of control near South Lake Tahoe

News | July 3, 2002

Tahoe Daily Tribune

One day before its biggest holiday of the year, a major wildfire is burning out of control east of South Lake Tahoe near the Heavenly Ski resort.
End Warnings

• Partnerships to leverage resources, infrastructure, and data
• Build off of recent successes and lessons learned: 12-minute reduction in incident response times in Southern Nevada
• Multiple data sources to improve detection, notification and verification
• Real-time sharing of incident information across multiple agencies and to the public
End Warnings

• Decreased vehicle hours travelled due to reduced traffic congestion
• Increased vehicle fuel efficiencies due to better management of system
• Decreased accidents due to reduced traffic congestion and fewer secondary incidents
• Decreased need for roadway capital improvements due to more efficient traffic management
• More data driven planning and decision making through problem area identification
The Freeway and Arterial System of Transportation (FAST) is one of the first truly integrated Intelligent Transportation System (ITS) organizations in the country.

Red River Regional Dispatch 1st to cross state lines working under a Joint Powers Agreement (JPA) servicing all law enforcement, fire, and medical response.

The San Francisco Bay Area Water Emergency Transportation Authority carries over 2.8 million passengers annually utilizing a fleet of 14 high speed passenger-only ferry vessels with coordinated water transit response to regional emergencies.
What Now?

• Assess procurement options
• Assess baseline population, visitor data, operational boundaries, traffic movements, and vulnerabilities
• Gather existing agency roles, responsibilities, and agreements
• Gather existing ITS and communications information
• Consider relevant subcommittees
• Consider related planning efforts and policy
• Develop MOUs, planning, operation and maintenance agreements
Technical Assessment Studies

• Develop communications and ITS architecture strategy
• Develop SOPs and technology build-out, expansion, KPIs
• Analyze personnel, training, equipment, and logistics factors
• Develop notifications, interoperability, and evacuation strategies
• Develop funding strategies and opportunities for co-project implementation
• Provide objective feasibility data
• Identify challenges and provide recommendations
Thank You

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Greater Washington Smart Region Movement

NTIA’s BroadbandUSA Webinar: Building Smart Cities and Communities at the Regional Level

Karl Darin
Program Lead, Smart Region Movement
Greater Washington Board of Trade
Greater Washington’s Regional Challenges

Fragmentation     Inequality     Technology Adoption

Our Mission:
Create the nation’s leading digitally enabled region
Greater Washington Smart Region Movement

**OBJECTIVE**
To establish a regional digital infrastructure for delivering smart technology solutions at scale

**VALUES**
- Locally Driven & Collaborative
- Innovative & Empowering
- Inclusive & Accessible
- Secure & Private
- Regional & Public-Private

**BENEFITS**
- Improve quality of life
- Narrow the digital divide
- Expand local talent pipeline
- Realize economies of scale
- Attract private financing
- Drive innovation & growth
- Foster inclusion & collaboration
Smart Region Movement Partnership Strategy

**FOUNDING MEMBERS**

- **Industry**
  - Greater Washington Board of Trade
  - 300+ companies & organizations

- **Government**
  - Metropolitan Washington Council of Governments
  - 24 local governments, MD & VA state legislatures, U.S. Congress

- **Academia**
  - Consortium of Universities of the Washington Metropolitan Area
  - 17 colleges & universities

**STRATEGIC PARTNER**

- Regional Transit Authority
- WMATA

**INDIVIDUAL PARTNERS**

- Federal Gov’t Agencies
- Regional Orgs
- Corporations
- Startups
- Non-Profits
- Financial Institutions
- Academia

Proprietary and confidential to the Greater Washington Board of Trade.
Socially inclusive perspectives inform a smart region
Thank you

Karl Darin
Program Lead, Smart Region Movement
Greater Washington Board of Trade
Building Smart Cities and Communities at the Regional Level

Questions and Answers

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Tune in for the next Practical Conversations Webinar

FirstNet Deployment
Status of the Nationwide Public Safety Broadband Network

July 17, 2019
2:00 pm EST

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https://broadbandusa.ntia.doc.gov/event
BroadbandUSA is available to help communities with their broadband access and digital inclusion efforts.

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- 202-482-2048
- broadbandusa@ntia.gov
- https://broadbandusa.ntia.doc.gov/resources

**To Request Technical Assistance (TA):**
- Broadband TA Request Form - https://broadbandusa.ntia.doc.gov/ntia-common-content/how-we-can-help

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**BBUSA Resources**
- Implementing a Broadband Network Vision: A Toolkit for Local and Tribal Governments
- Community Broadband Roadmap Toolkit
- Guide to Federal Funding of Broadband Projects
- Using Partnerships to Power Smart Cities