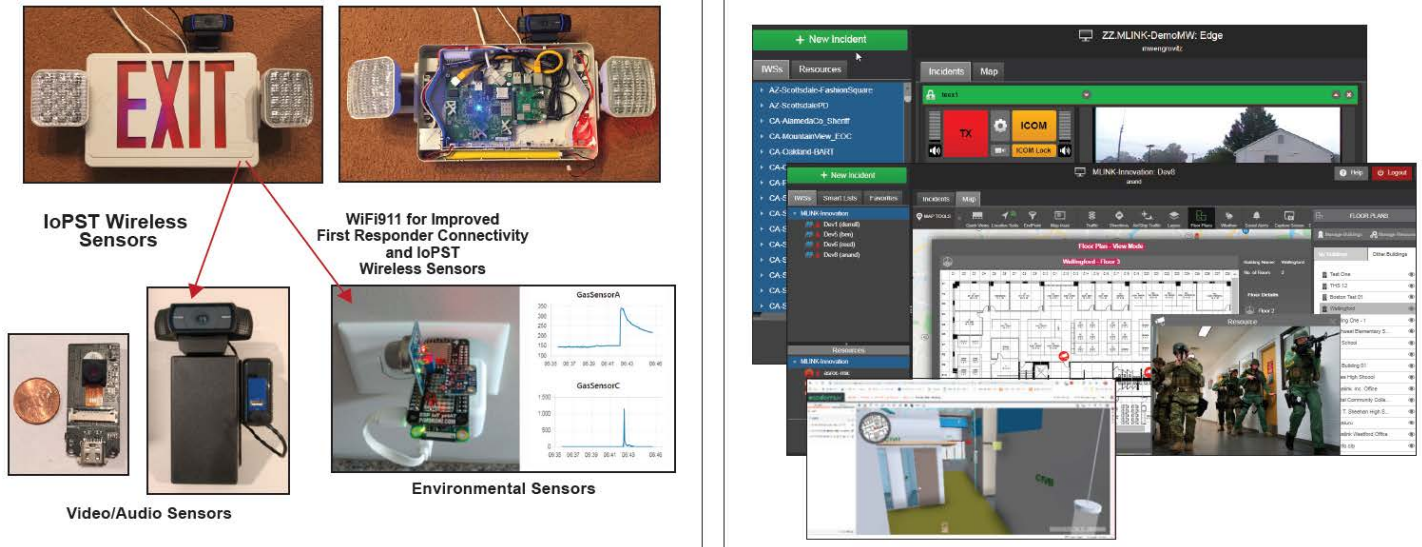# Mutualink
## *Internet of Public Safety Things*

## MUTUALINK: CAPABILITY DESCRIPTION

Mutualink is developing technologies that allow DHS stakeholders to easily share voice, video and data for cross-agency multimedia collaboration to quickly resolve emergency incidents. This project developed an innovative in-building sensor network based on use of Internet of Public Safety Things (IoPST™) wired and wireless sensors. Sensors provide video, audio and environmental data that is used to automatically trigger business-rules-based multimedia collaboration and situational awareness for Public Safety Agencies. More than a dozen state-of-the-art IoPST prototypes were constructed and deployed at the SCITI Labs Developmental Test and Evaluation Event, held at Texas A&M TEEX, and at least two end-customer-driven commercialization deployment opportunities have resulted.

DHS stakeholders are a large user of Mutualink systems to assist in addressing gaps in the following areas:

- Deployment for Mutualink/IGS core services within DHS Components

- Provide immediate and complete continuity among these Department Agencies

- Provides immediate and complete continuity between IGS and IRAPP to state and local authorities

- Provides interoperability enhancements to FirstNet beyond what was statutorily and contractually scoped. Creating a more collaborative capability supporting the Within, Among to State and Local authorities.



IoPST Wireless Sensors

WiFi911 for Improved First Responder Connectivity and IoPST Wireless Sensors

Video/Audio Sensors

Environmental Sensors

## MISSION-RELATED USE CASES

Mutualink is developing technologies that allow DHS stakeholders to easily share voice, video and data for cross-agency multimedia collaboration to quickly resolve emergency incidents. Public safety agencies and critical infrastructure organizations use Mutualink's products and network to achieve secure LMR-to-LMR, LMR-to-LTE interoperable disparate Land Mobile Radio (LMR) bridging, real-time video sharing, and data exchange.

# Mutualink

## *Internet of Public Safety Things*

- Systems deployed nationwide to include US territories for COOP/COG mission

- Used today by FEMA NCP, TSA OSO, USCG C4ISR, HSI, and FPS

- FEMA NCP currently working through Authority to Operate (ATO) for IGS

- FEM-07748-MAJ-07748

- USCG currently under deeper evaluation for capability deployment to support land, air, and sea location

- Numerous supporting documents available upon request e.g. DHS exercise reports, FEMA and TSA AARs

## PRODUCT SPECIFICATIONS

- Desktop workstations hosted by Mutualink or DHS/FEMA private network

- Radio, Video, Telephony Network Interface Controllers

- EDGE mobile device clients hosted by Mutualink or DHS/FEMA private network

- Mobile drop kits with capabilities listed prior

- Integrations to many 3rd party solutions

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## SMART CITY INTERNET OF THINGS INNOVATION (SCITI) LABS

The Smart City Internet of Things Innovation (SCITI) Labs program is a collaboration between the U.S. Department of Homeland Security (DHS) Science and Technology Directorate (S&T) and its industry partners to develop smart technologies for public safety and related missions. The program focuses on adapting commercially viable products to meet mission needs in three areas:

- **Smart Buildings**, including sensors and communications;
- **Unmanned Aerial Systems** for indoor and outdoor search and rescue; and
- **Mobile SmartHubs**, combining communications & sensors to increase situational awareness

Mutualink is one of the Smart Buildings technology performers for SCITI labs.

DHS S&T Contact: SPTechnologyCenter@hq.dhs.gov

For more information on Mutualink, visit: https://mutualink.net/

**SCITI LABS**