

# Leveraging the Internet of Things for Public Safety

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First Responder Network Authority

First, a word from our Sponsor ...



**VISION:** Create a dedicated and differentiated broadband communications experience that transforms public safety operations to save lives



**PUBLIC SAFETY'S NEEDS**



**ROADMAP**



**INVESTMENT**

# First Responder Network Authority Roadmap Domains



## Core

- EPC
- IMS Core
- Services Platforms
- App Servers
- Service Enablers



## Coverage & Capacity

- Macro Coverage
- Capacity
- In-building Solutions
- Temporary/On-Demand Coverage
- Range Extension
- Device-to-Device
- Air-to-Ground
- Maritime Operations
- Availability/Reliability/Resiliency/Hardening



## Situational Awareness

- Location Services
- Sensors
- Wearables
- Cameras/Video
- Mapping/Geographic Information System (GIS)
- Data Analytics/Artificial Intelligence



## Voice Communications

- Mission Critical Push-to-talk (MCPTT)
- PTT Interconnection



## Secure Information Exchange

- Data Access
- Data Sharing
- Cybersecurity
- Identity, Credential and Access Management (ICAM)/Single Sign-On



## User Experience

- Priority Services
- Applications
- Devices
- Accessories
- Hands Free Operations
- Augmented Virtual Reality
- Heads-Up Display

# Value in the Internet of Things ...





**Connected Vehicles**



**Intelligent Transportation Systems**

**Smart Buildings**



**Internet of Things IoT - Smart City  
Sensor and Control Network  
Broadband (City and Private Fiber)  
Also LTE-M, NB-IoT, FirstNet etc.**

**Video**



# Public Safety Broadband Summit



**Water**  
Smart meters, use and flow sensing

**Video**  
Fixed, dashcam, body-worn

**24/7 monitoring**  
Burglar alarms, parking lot use

**Energy**  
Smart meters, demand response

**HVAC**  
Fans, variable air volume, air quality

**FIRE RESCUE**

**Fire**  
Functionality checks, detection service

**Occupancy Sensors**  
Sensors in lights, exit signs etc.

**Access & security**  
Badge in, cameras, integration perimeter, doors

**Elevators**  
Maintenance, performance

**POLICE**





## Home IoT ...



Photo credits: Deutsche Telekom

# Hands Free Operation ...

Helmet camera



Hands-free mic  
with virtual assistant



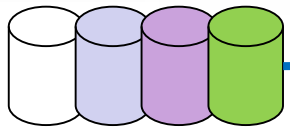
“Sherlock what are the symptoms and treatment for a valium overdose?”



“Sherlock, run Oregon plate Alfa Bravo Charlie One Two Three”



## RAPIDLITE



Internal/External Databases,  
Social Media and Other Sources





# FirstNet<sup>®</sup>

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