



# AR-Enabled Emergency Response

24X7 WITH  
AUGMENTED  
REALITY

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2021 | BROCHURE

**ARCHWAY**

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## Multi- Functional One Call Centers for Emergency Response & Regional Business Development



### AMSER, AR-ENABLED TECHNOLOGIES

INTUS Emergency Response System is based on a cluster of Local/State Response Centers operating as a network of Shared Data Repository (SDR) during natural disasters or terrorist attacks.

At all other times these Centers will provide wireless business management services & technologies contributing to the local economic growth.

#### **Process - Data – Augmented Reality:**

- GPS Mapping via locating of underground and surface utility installations.
- Mapping of all other vital infrastructure in the region
- Integration of GPS information into comprehensive mapping system which is web-enabled, wireless accessible and dynamically modifiable.
- As built system for utility networks – Real time modifications
- Inventory systems for all major installations
- Wireless GPS field mapping technology
- Multi-Layered base-maps for data usage for Asset Management Systems
- Augmented Reality information environment

#### **Center Infrastructure Requirements:**

- Maps & digital mapping ability
- Online web map viewers
- Multi-layered GIS viewers
- As built electronic map generating & reporting
- Wireless GPS field mapping technology
- Wireless 2-way dispatching & reporting systems for mobile fleets



**Overview**

***Before a natural or induced disaster (Tornadoes, Fires, Flooding, Earthquakes or terrorist attacks:***

Preparation within GIS of all utility maps for vital installations and all Municipal Infrastructure and Building.

***New Orleans Dome before Katrina***



Example Utility lines



***During a disaster:***

Based on the weather watch center’s latest satellite image, superimpose GIS and utility map, guide any rescue teams to reach damaged area as soon as possible, in order to control the situation and avoid further damage.

***After a disaster:***

Use GIS or mapping information to superimpose the utility lines or any other items onto the satellite map from the damaged area, so the rescue or repair team to recover the sanitation system and electric power as soon as possible. Repair the damaged utility installations and gas pipelines, based on all the digital and multiple layers information from the one call emergency center or any other call centers in the network.



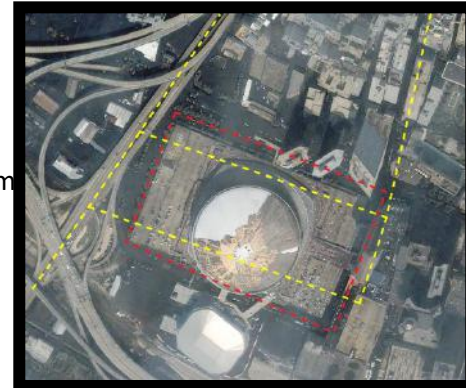
***Monitor & Coordinate converging GPS monitored response teams***

***“24 / 7 Emergency Response System”***

The “AMSER” (Asset Management, Safety and Emergency Response) System, gathers, organizes, dynamically updates and makes all crucial data instantly available to management and emergency response teams during a disastrous event. AMSER consists of a cluster of synergetic technologies and tools which facilitate safe emergency response and damage prevention, during natural or human-induced disasters. AMSER includes:

- Real-time Emergency Crew Management
- Tracking of mobile assets and daily activity
- Web-based remote visibility of facilities

- Web-enabled, Wireless-accessible and Dynamically Modifiable GIS Mapping of GPS and Georeferenced Assets and Infrastructure
- Capitalization of asset management information for multiple responders
- Scheduling and coordination of first response teams based on strategic decisions related to asset infrastructure
- Directly linked to Phosphorous leak detection systems and SCADA alerts
- Safety and Environmental Monitoring.



***New Orleans Dome after Katrina***

Responders can access remote server through GPS adapter via cigarette lighter, download relevant infrastructure data for all safety process on handling Gas, Power etc. Our Emergency System is supported 24/7, 365 days per year.





*During the wildfires of 2016 in Fort McMurray, Alberta, Canada, INTUS crews were first responders right behind the Firefighters ensuring Safety and Damage Prevention*



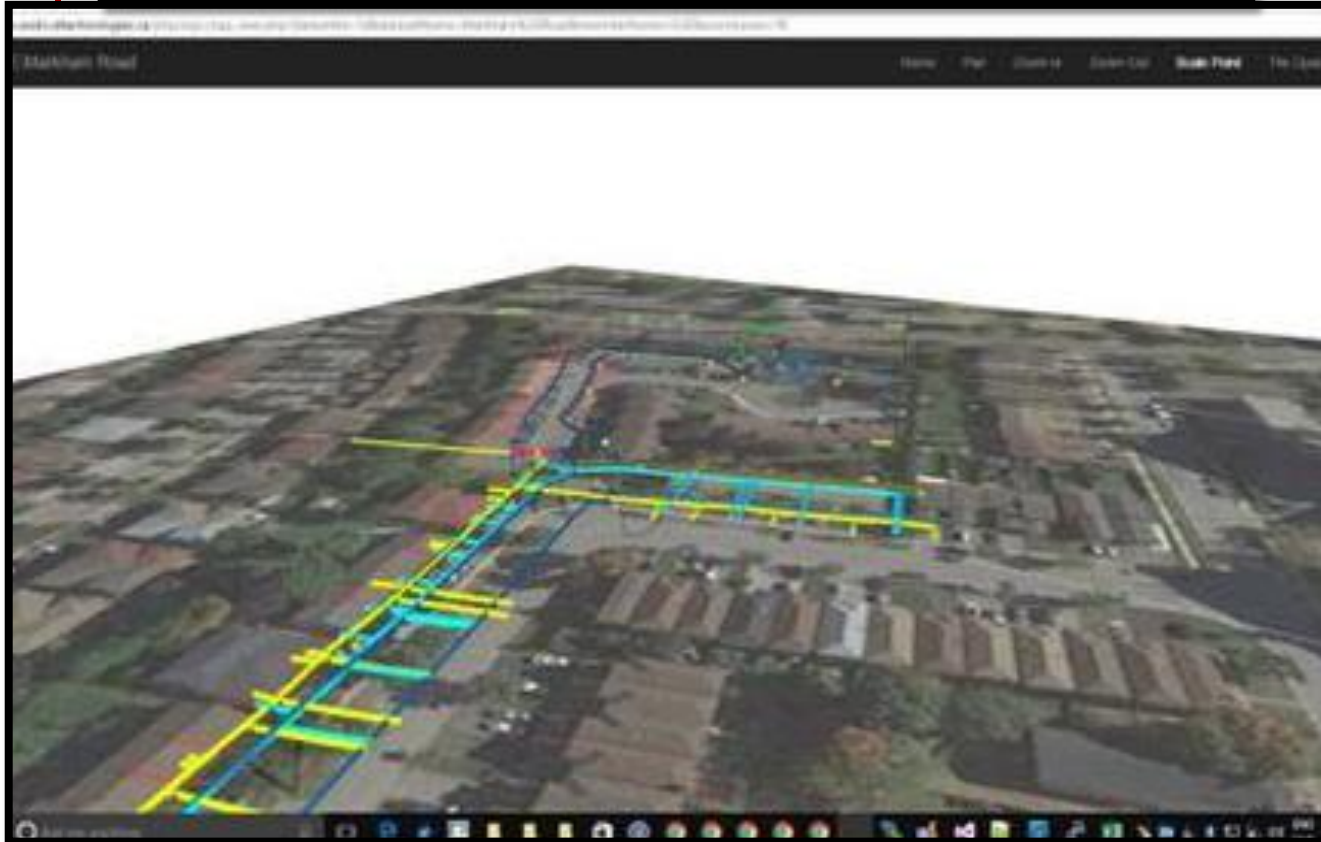
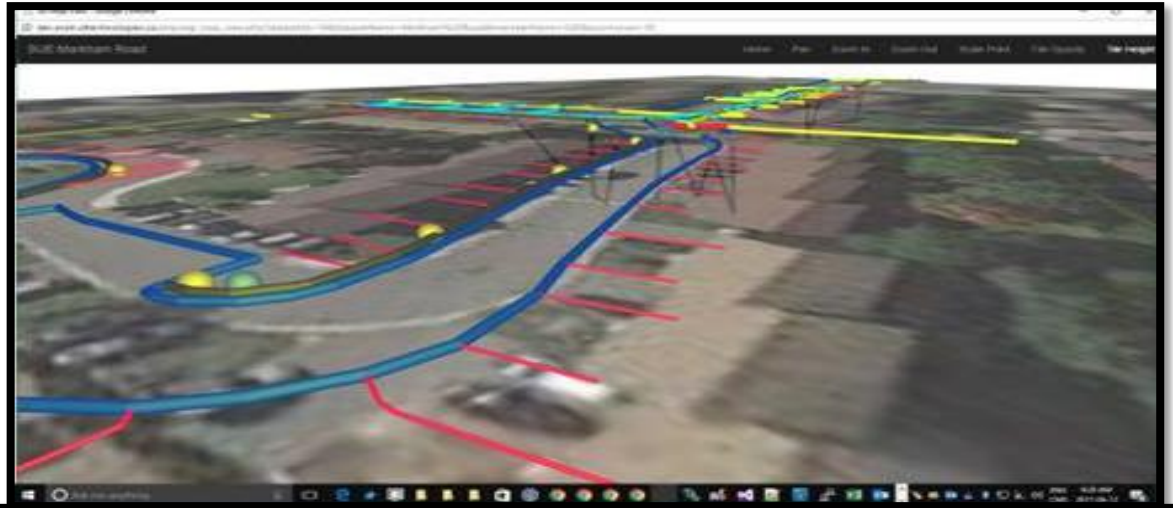
*INTUS and its Affiliates were One-Call Coordination Center and Emergency Team participants during the fires that devastated the City of Fort McMurray.*

*INTUS participation ensured that unnecessary additional damages were not incurred by responders through the use of their existing maps of the infrastructure, the GPS and GIS accuracy afforded them by the INTUS back-end technologies as well as timely locating sub-surface infrastructure for avoidance of its destruction by clean-up crews.*



***“24 / 7 Emergency Response System”  
Enhanced via Augmented Reality***

## 3D Utility Network Profiling



*Dynamic visualization  
via AR for:*

***Building Maintenance with  
Emergency Response capacity  
via Augmented Reality***

- Buildings & Indoors Installations superimposed with safety and evacuation procedures
- Underground Utility Assets

