



# EMERGENCY **RESPONSE** MODULE OVERVIEW

**INTUS**  
smartcities

INTUS Smartcities is setting out to change the way cities operate on a global scale. Through the use of proprietary resources, INTUS Smartcities solves infrastructure challenges and problems related to safety, efficiency, resource sustainability, environmental damage, and data.

## RESPONSE & ACTION

# EMERGENCY RESPONSE

**W**ith rapidly expanding infrastructure and utilities comes new safety threats if maintenance and management are not in place. From gas explosions to transmission line fires, damage can be magnified if preventative measures have not been put in place for natural and man-made disasters. These emergencies can end up costing enormous amounts of money and can end in permanent damage and loss of life. This is why it is of vital importance that cities have strong emergency response systems and procedures in place.

When things do go wrong, it is important that there is an immediate solution to mitigate damages and/or avoid damages all together. Smartpolis offers advanced emergency response systems and procedures so that cities can minimize damages and keep operating at safe levels for citizens.

### What is Emergency Response?

Emergency response refers to the ability to deal with any type of emergency that arises within the built environment.

For example, a gas leak could potentially put hundreds of people in danger. Emergency response systems can detect this leak, dispatch a field crew & first responders, and provide crews the necessary data (blueprints, layouts, etc.) so that they can pinpoint where the leak occurs.

These systems and process save billions of dollars annually and saves lives. Emergency response is a vital necessity that every city should have.



# EMERGENCY SOLUTIONS

## SMARTPOLIS SOLUTIONS

Smartpolis has the capability to not only detect damage, but also make sure that all dispatching, logistics, and access to information is done as soon as possible. Smartpolis' emergency response technologies and planning allows public safety to reach a new level of precision when it comes to preventing and mitigating damage and loss of life in an emergency situation.

Smartpolis' systems can work for both utility network damage and other damages that occur in the built environment (building fire, earthquake damage, etc.). Through data integration and work order management, Smartpolis can immediately detect damage, create a work order for crews and make all assets in the emergency area viewable on a tablet or mobile device. This significantly cuts down response time as crews are notified immediately and provided with all the necessary information.



## KEY FEATURES

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### 24X7 REMOTE SERVER

24x7 remote server is a server that provides all necessary data, communication and other information during time of an emergency. It facilitates mobile crew cooperation, monitoring via GPS technologies and mobile communication via a smartphone app.



### COORDINATION CENTER

This center handles all data migration and integration of infrastructure data. The center also handles alert processing, auto dispatching, coordinating, and provides the necessary safety/operating manuals for specific equipment involved in the emergency.



### SERVICE PERSONNEL

Smartpolis can ensure that the proper personnel are used to deal with certain emergencies. Smartpolis can contact firefighters, utility restoration personnel, fiber, telecom and electric cable splicers, and emergency center operators.

## RESPONSE IN REAL-TIME 3D AUGMENTED REALITY

One of most exciting features of Smartpolis' emergency response is its utilization of AR technologies. Through the use of augmented reality (AR) for infrastructure management, physical characteristics of buildings can be mapped and integrated into a number of wirelessly accessible, and dynamically modifiable real-time systems. These systems add a new dimension of emergency response capabilities, helping first responders make life saving decisions. AR can be used for both municipal networks and for many other types of assets and structures in the built environment.



## THE APPROACH INTEGRATION

Smartpolis is able to integrate all cities into its systems and procedures. Smartpolis provides all necessary services that are required for integration.

A

### Data Migration

Migration of Infrastructure Data (preferably GIS Data) into a Remote Server accessible by Cloud Technologies. This data can be accessed at any time from any location.

B

### Cloud Integration

Migration of all Infrastructure Safety and Operations Training manuals on Cloud. This data can be accessed and stored on servers.

C

### Devices

Provide Hand Held devices to all responders for viewing all GIS and Safety. Devices can also be used to view assets in AR (augmented reality).

D

### Communication

Procedures on a Geo-location model, with enabled two-way communication via these devices for full scale reporting from the field. (Damages, casualties etc.)

E

### GPS

Implement GPS technology to all First Responders vehicles. These technologies will assist with mobile asset management for all response vehicles.

F

### Response Center

Provide portable Emergency Response Center technologies and operational personnel.

G

### Transferring Data

Involve Emergency response in advance of any situation by transferring Infrastructure Data into GIS and Web GIS. This will help to visualize where damage is occurring.

H

### Plan Integration

Integrate Building Infrastructure Plans and provide Emergency Exit Instructions visually on mobile hand-held devices.



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