



MUNICIPAL NETWORK **MANAGEMENT** 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.

DETECTION & INTEGRITY

MUNICIPAL NETWORKS

Municipal networks are comprised of key assets that are vital for the continued operation and growth of society. Networks such as electrical distribution, oil & gas transmission, telecom, fiber optic, water & sewer networks, and much more, are part of our every day life and continued societal function. Because society is accustomed to such networks and depend on them so heavily, any malfunction can wreak havoc in an urban environment. There are numerous instances of this occurring around the world, where networks are not properly managed, resulting in delayed responses and serious damage.

Without proper network management, these vital systems fall victim to damage and disrepair. Smartpolis can help ensure that all municipal networks are functioning and operating as they should.

Risk

Mitigation?

Utility network damage can have serious repercussions. Collapsing sewer networks can cause environmental damage and bacterial epidemics leading to serious and widespread illness. Leaking pipelines can trigger massive explosions and cost hundreds of millions (or even billions) of dollars in damage.

Because of society's reliance on and proximity to utilities, it is essential that damage prevention and detection are carried out in the fastest way possible.



MOBILE ASSET SOLUTION SMARTPOLIS SOLUTIONS

With a multi-utility integrity management system, vast networks of utilities are always monitored to ensure optimal performance. With such a system, users receive alerts when irregularities or damage occurs. This system can fast track damage, confirming that it is taken care of right away. Smartpolis' municipal network system offers this type of asset management capability and more, by utilizing utility-specific sensors, data, and GIS to create a full management service loop, ensuring that damage prevention and repairs are done expeditiously.

Smartpolis offers a sophisticated geospatial infrastructure network management & monitoring system, which provides real-time performance monitoring of various assets/networks. This multi-utility management system integrates with a GIS platform to provide wide usability for a number of industries.



KEY FEATURES



SENSOR DETECTION & INTEGRITY MANAGEMENT

Smartpolis utilizes proprietary sensors to manage and detect damage of important assets. Smartpolis' systems and sensors will work together to generate instant results making detection immediate and responsive.



GEOSPATIAL ASSET MANAGEMENT

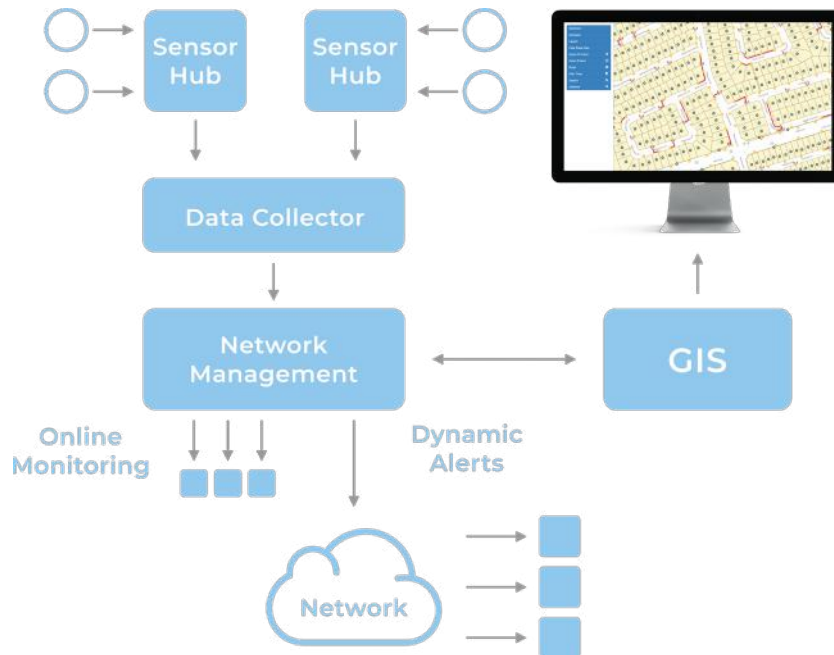
Smartpolis utilizes Web-GIS to pinpoint the exact location of an infrastructure asset that must be attended to. All geospatial information is accessible 24/7 by any user or field crew.



DAMAGE PREVENTION, DETECTION & REPAIRS

Smartpolis' system works as a total 360° solution to ensure the health of infrastructure assets. Smartpolis systems work together and can also work with 3rd party integrations as well, to ensure total control and operability.

SYSTEM DIAGRAM



PROCESS HOW IT WORKS

These disturbances are sent to a sensor hub and finally into a data collector. Smartpolis is able to communicate with this data collection unit, receiving all data accumulated in real time. All the info collected is sent to GIS, which integrates, organizes, and renders the asset and its location in both 2D and 3D. In other words, GIS works with Smartpolis to provide dynamic infrastructure mapping and incident highlighting during times of emergency. Both Smartpolis' Municipal Network Management system and GIS work together in a 360° loop to enforce the proper maintenance and repairs of a network. Information is constantly being communicated by both systems, allowing for dynamic alerting to be sent over a cloud-based network.

Along with the alerts, a work order is created, highlighting the specific elements damaged and the course of action for repairs. Smartpolis offers cross platform capability with the ability to communicate with 3rd party online monitoring software from companies such as SAP and ESRI.

"Through cutting edge technology and continuous management, we aim to protect society and urban environments from potential and future disasters."

USAGE & DETECTION SCENARIOS

There are many uses for Smartpolis that span across multiple sectors of infrastructure. All types of important infrastructure assets can be monitored to ensure that damage is minimized, costs are kept low, and that safety is maintained. Smartpolis can monitor gas lines, street lights, electric networks, sewers, stormwater, fire hydrants and much more.



**GAS
EXPLOSIONS**

**STREET
LIGHTS**



**ELECTRIC
NETWORKS**



SEWERS



STORMWATER

**FIRE
HYDRANTS**



MAINTENANCE



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Company Info



501 Silverside Rd #411,
Wilmington Delaware
19809, United States



+1 (302)-385-1060



info@intussmartcities.com