



The value of geographic information to government is ... better governance and better citizen engagement



Every city is a collection of assets, creating lots of data.



Bridges Fiber optic cables Fire boxes Fire hydrants Fleets and vehicles Kiosks and benches Manholes Parking meters

Properties Roads and highways Sewer drains Sidewalks Street lights Traffic signals Trash barrels Trees



When city leaders can identify, track, monitor and manage the data from these assets, the full value and possibilities of geospatial data & connected technologies result in the **Location Intelligent** city.

Introducing - Location Intelligent City

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8



The McKinsey Global Institute estimates that IoT applications for transportation, public health and other municipal settings "could have an economic impact of \$930 billion to \$1.6 trillion per year in 2025

Source: Acil Tasman Study









Examples: Intelligent Infrastructure Management



Keeping the street lights on in London's Borough of Hounslow, UK

When Hounslow replaced its legacy sodium lights with connected LED lights, the city implemented a solution to control commissioning of the assets and receive condition data from the lamps.

✓ <u>Result</u>: more efficient maintenance, and far fewer citizen complaints.



Keeping traffic flowing smoothly for a large Australian metropolis

When traffic signals develop faults, an alarm is set so that resources can be allocated to investigate the situation as quickly as possible.

✓ <u>Result</u>: appropriate traffic management actions can be taken to minimize disruption.

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22

EXAMPLE

Storm Drain Water Monitoring and Flood Mitigation





Storm Drain Monitoring – Weather Event

Weather:

Persistent rain

Status:

A pinch point is immediately obvious as a cluster of storm drains are filling towards the bottom of the valley

Action required:

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Immediate remedial action, clear the pinch point

Certaining:

Test: Draining:

Image: Analysis

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(b) Storm Drain Monitoring - Surface Flooding Confirm[®] Map Reporting SS Weather: Legend Continuous rain 0% to 20%: 20% to 40% 40% to 60% Status: 0% to 80% Surface water flooding, long chain of 80% to 100% No Data: filled storm drains Options **Action required:** Refresh Rate Potential diversion and emergency Refresh Now action Zoom to data wes 🐌 Copyright ©2017 Pitney Bowes Inc. All rights reserved. ey Bowes | UN World Geospatial Information Congress | 20 November 2018

