An aerial photograph of a beach scene, showing a sandy shore, turquoise water, and numerous colorful beach umbrellas and lounge chairs. A large, semi-transparent green geometric overlay, composed of many triangles, is positioned diagonally across the upper left and center of the image. In the bottom right corner, there is a small white icon of a green arrow pointing upwards and to the right.

Hexagon: Shaping the Future of Smart Cities

Smart City: Key Goals



SMART CITY– Key Components



Hexagon: Core Competency in Geo Enabled Smart City Operation

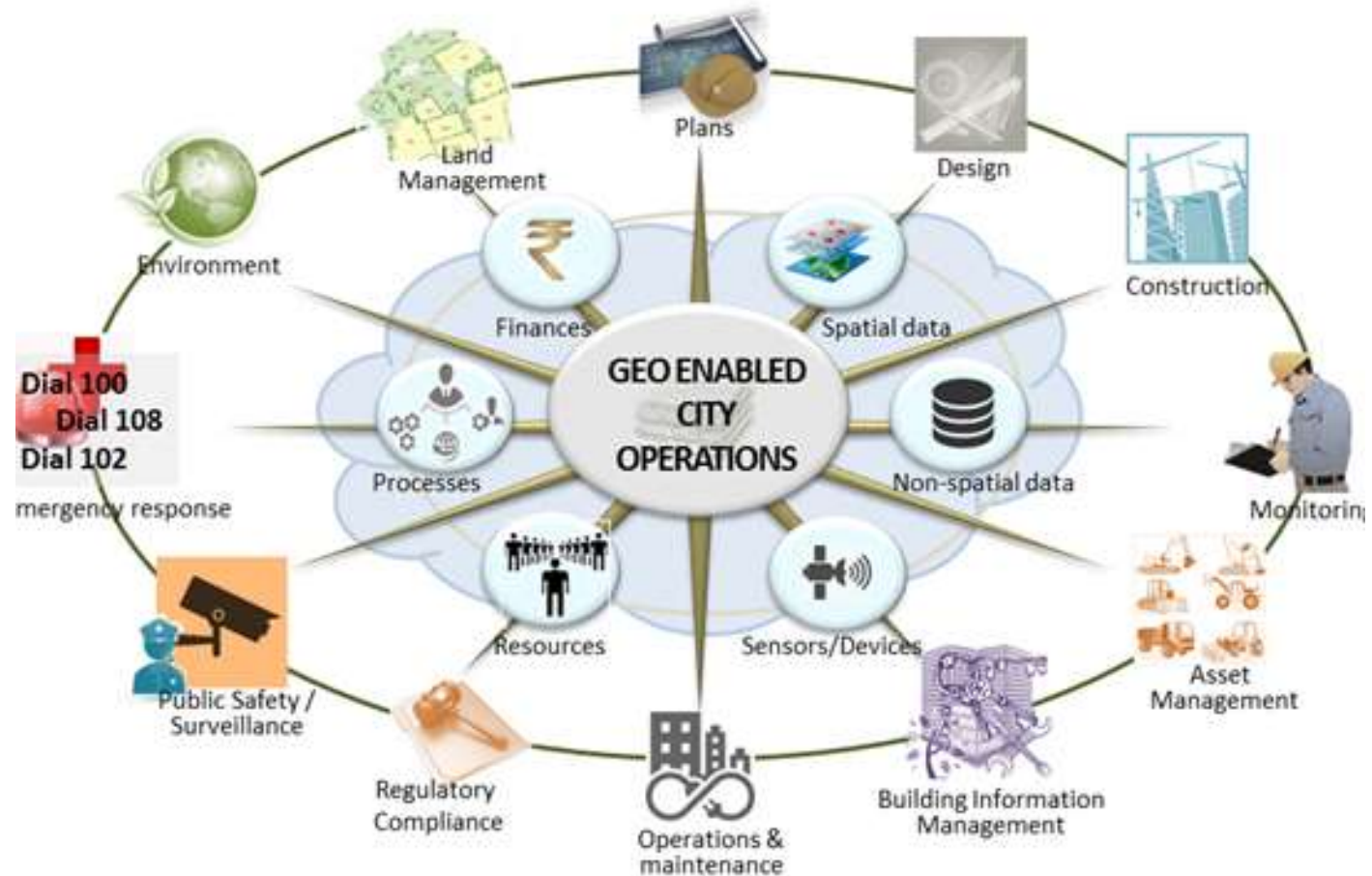
Location bases information is common to every aspect of smart city

- Design
- Planning & Development
- Management & Maintenance

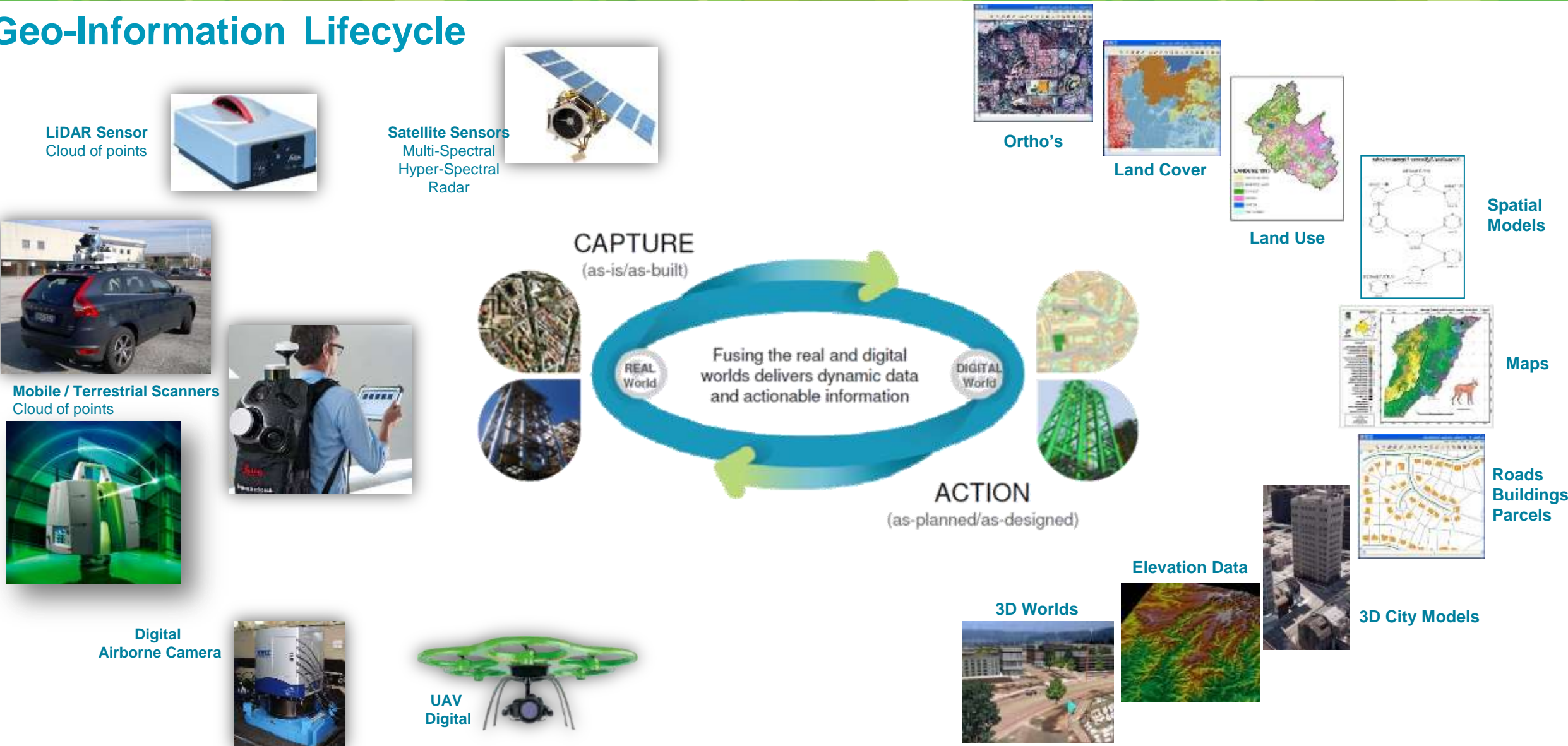
Geospatial technology offers a versatile alternative for

- Decision support
- Service delivery,
- Smart visualization,
- Analytics and
- Reporting

Geospatial forms the backbone of Smart City ICT planning & deployment



Geo-Information Lifecycle



Data Capture



Data Capture - Today's Technologies for fast, efficient Data Capture

- One point



TPS



GNSS



DISTO™



- Millions of points



Terrestrial - Laser Scanning



Mobile Laser Scanning



UAV - Laser Scanning

- Space/Airborne Based



Aircraft-based



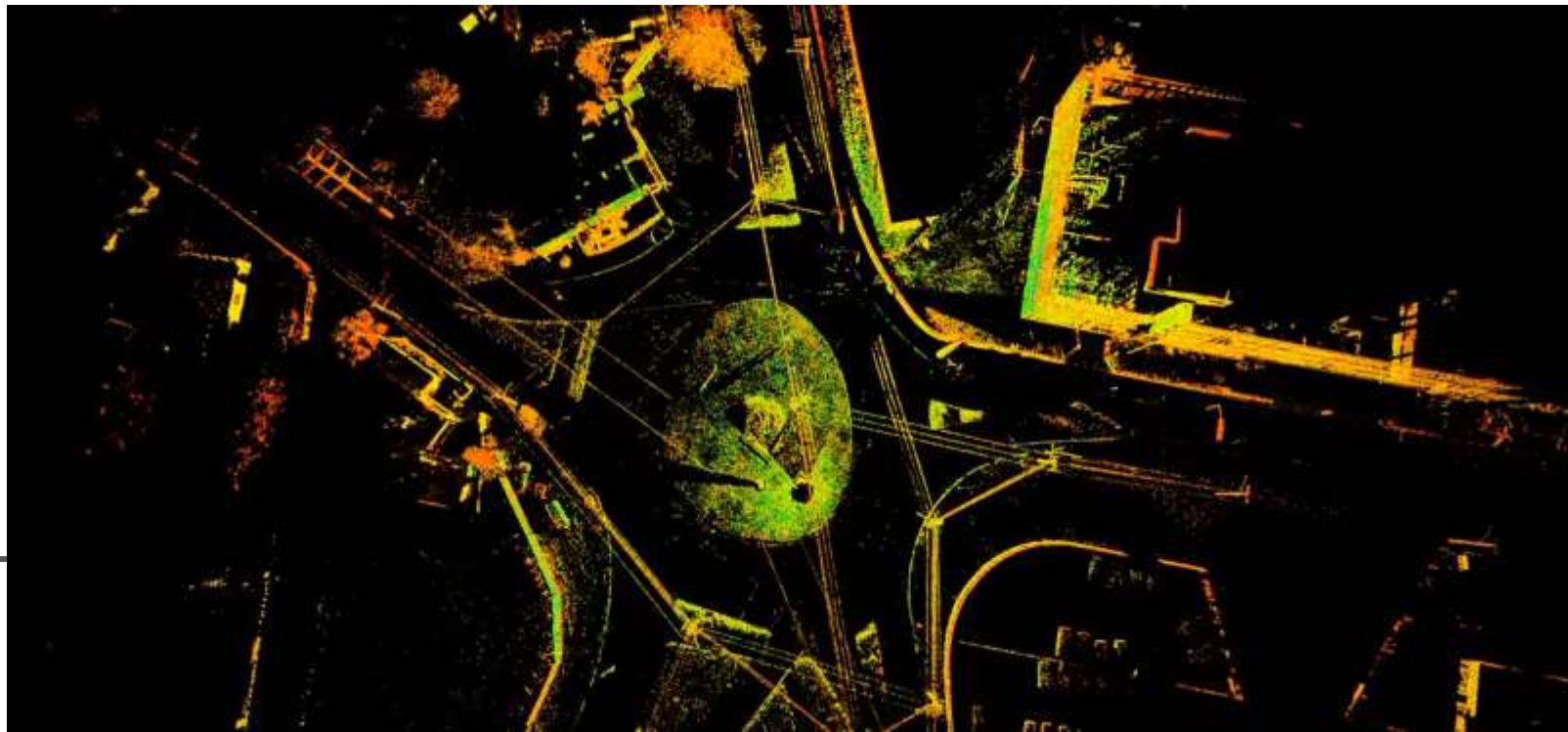
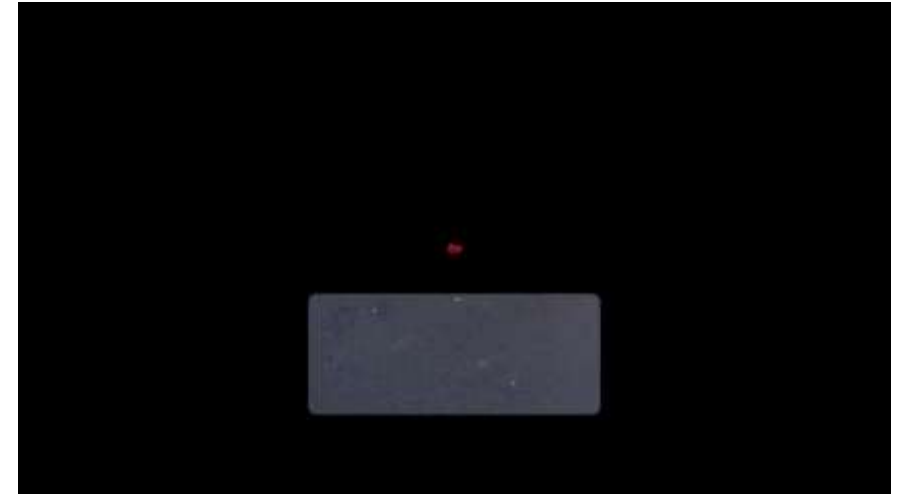
Remote sensing



Photogrammetry



Smart Data Capture





RCD30 Oblique camera

Requirements for 3D City modelling projects:

- 4 band data, RGB and NIR
- Oblique data
- High image quality
- Large ground coverage
- SW producing vectorized building models



UAV Platform

AIBOTIX UAV



Sensors



Visual Camera



Thermal Imager



Gas Detector



Multispectral
Hyperspectral



Lidar

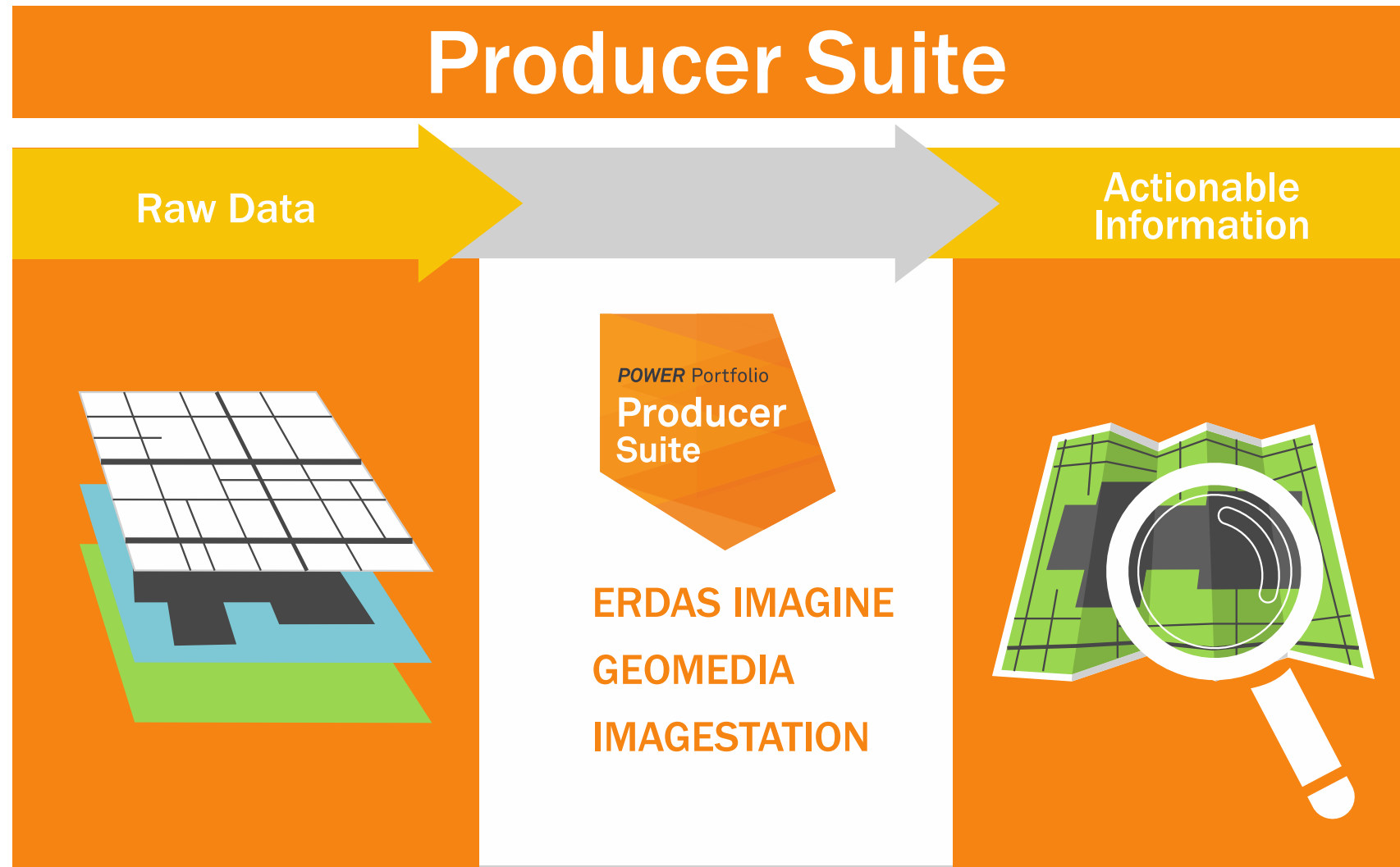
Promising Applications and Industry Solutions!

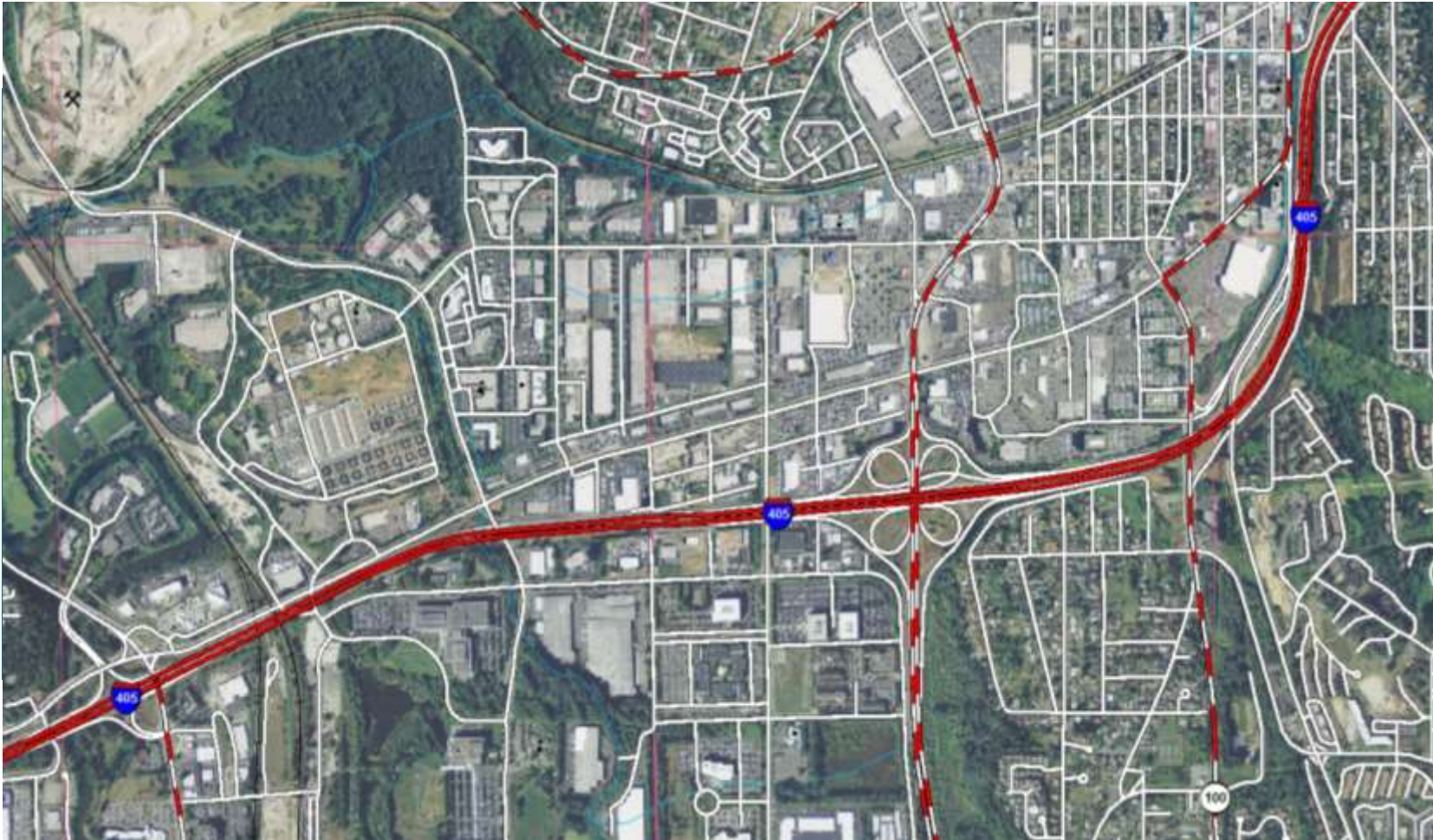


Data Processing & Analysis

The Power Portfolio



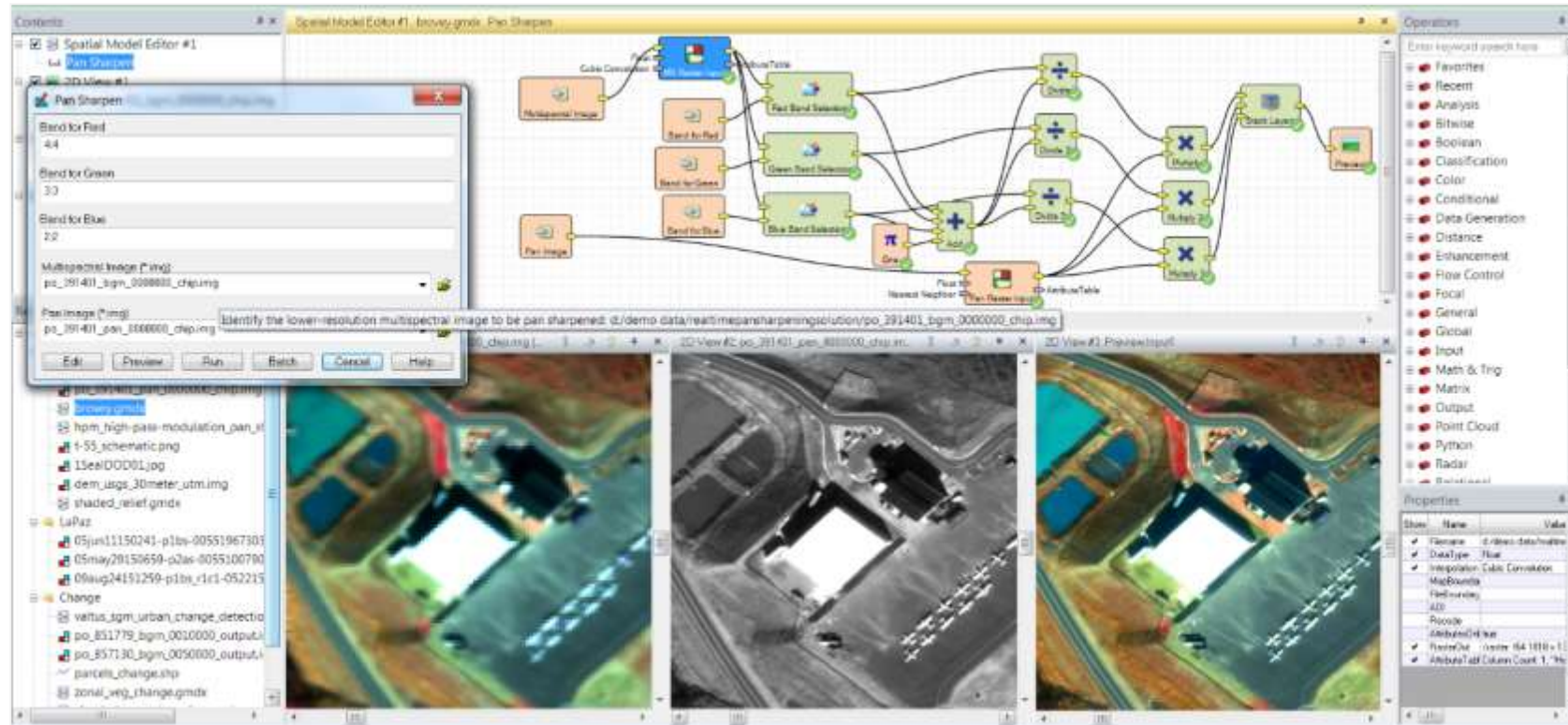




Comprehensive, Dynamic GIS



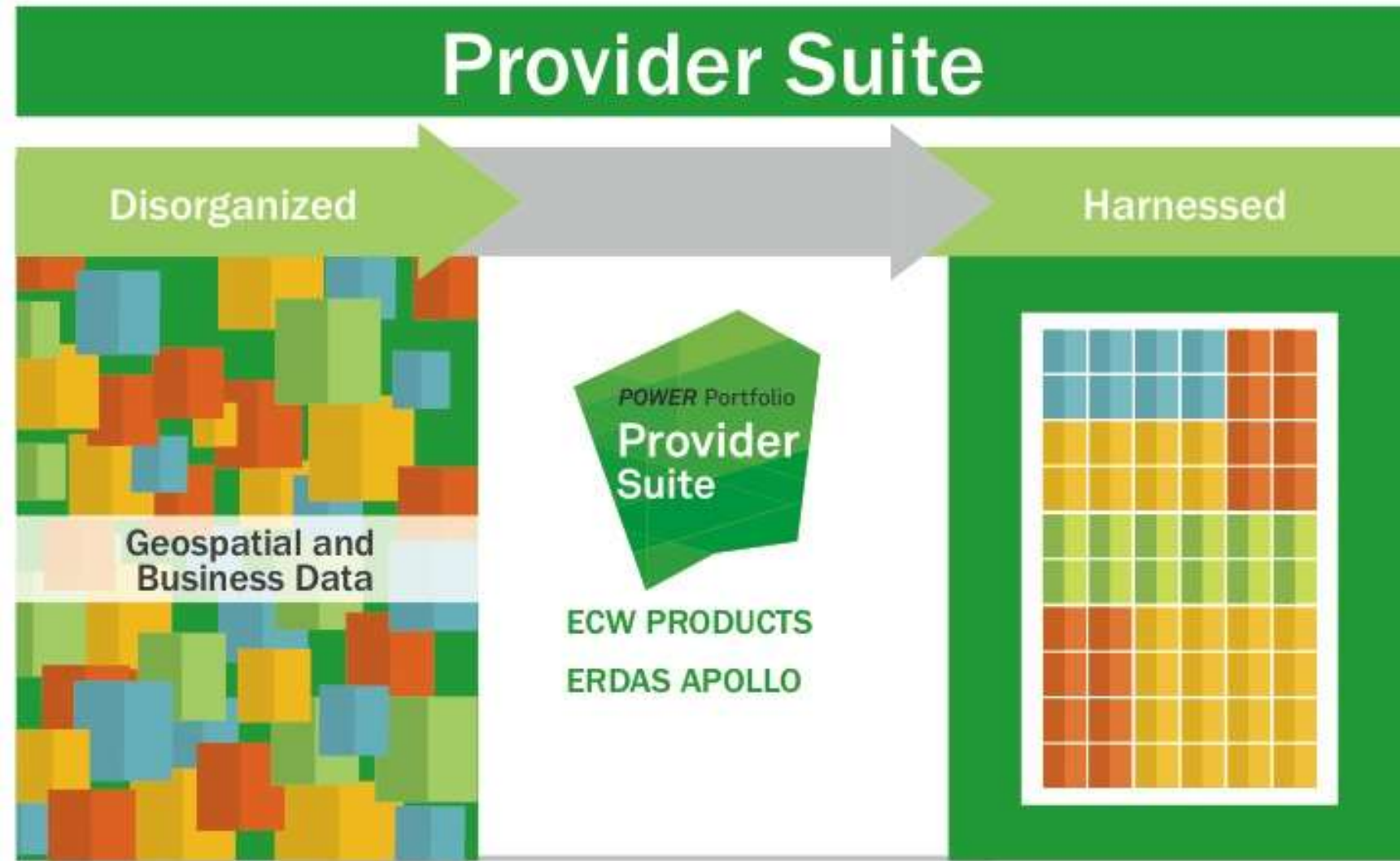
ERDAS IMAGINE and IMAGINE Photogrammetry



A powerful Remote Sensing, Photogrammetry,
Radar & Point Cloud authoring platform



The Power to Manage



Big Data Problems at the Organization



STORAGE



DISCOVERY



ACCESS & USE



ERDAS APOLLO



A comprehensive **enterprise data management** solution

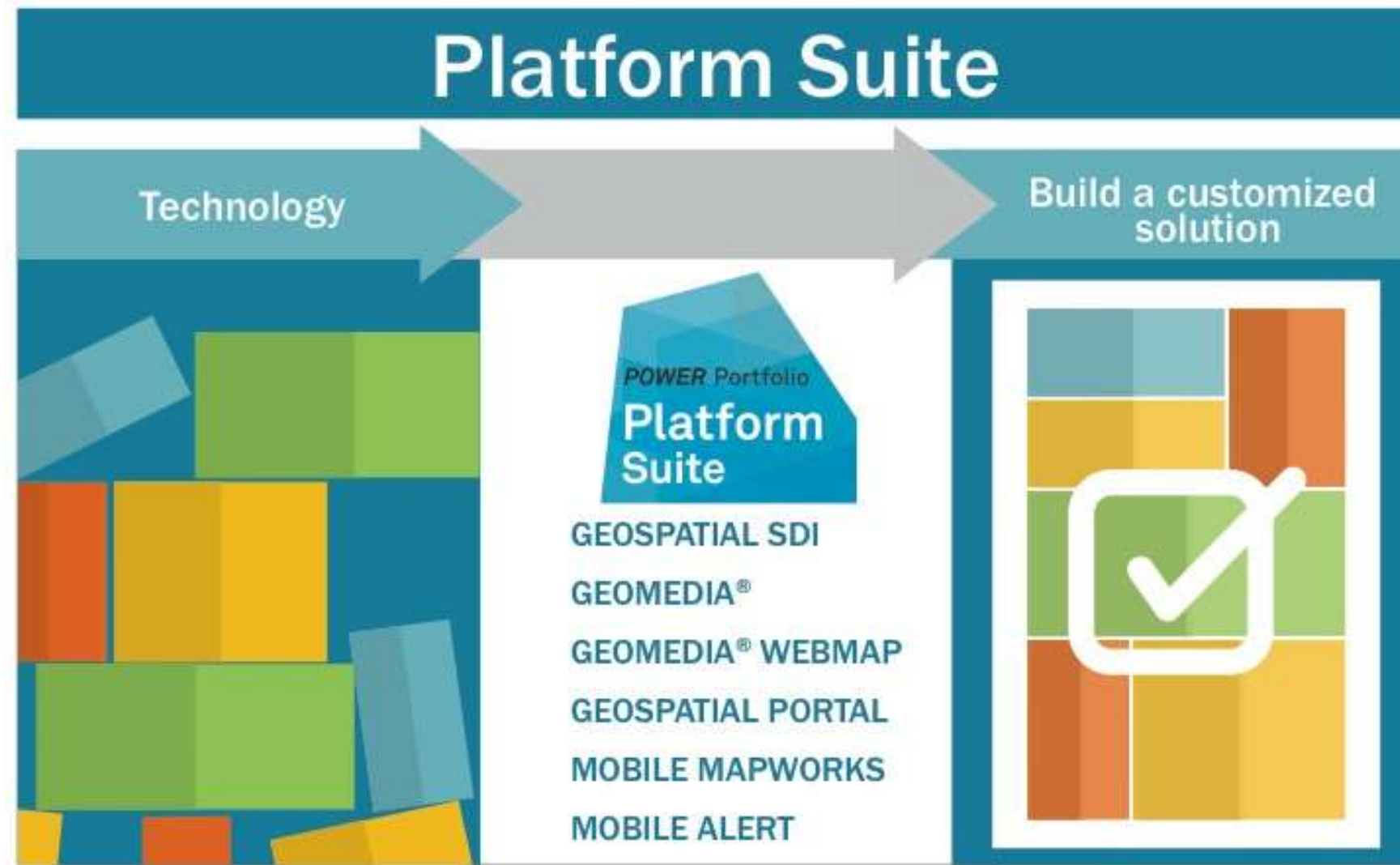




High-performance image compression



The Power to Build Solutions



Business Problems



Need a **SPECIFIC SOLUTION**



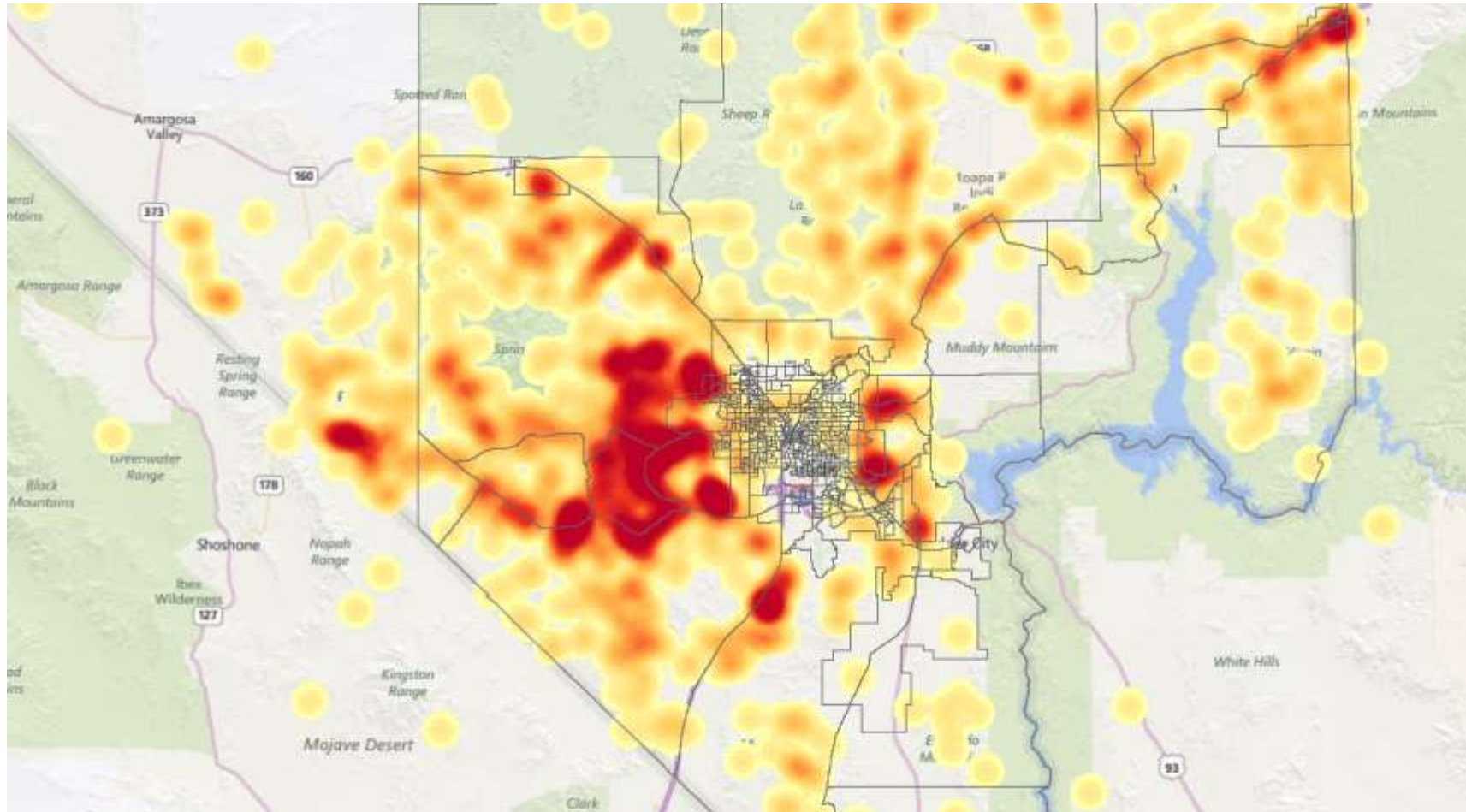
NOT AVAILABLE
Out-of-the-Box



Help is **HARD TO FIND**

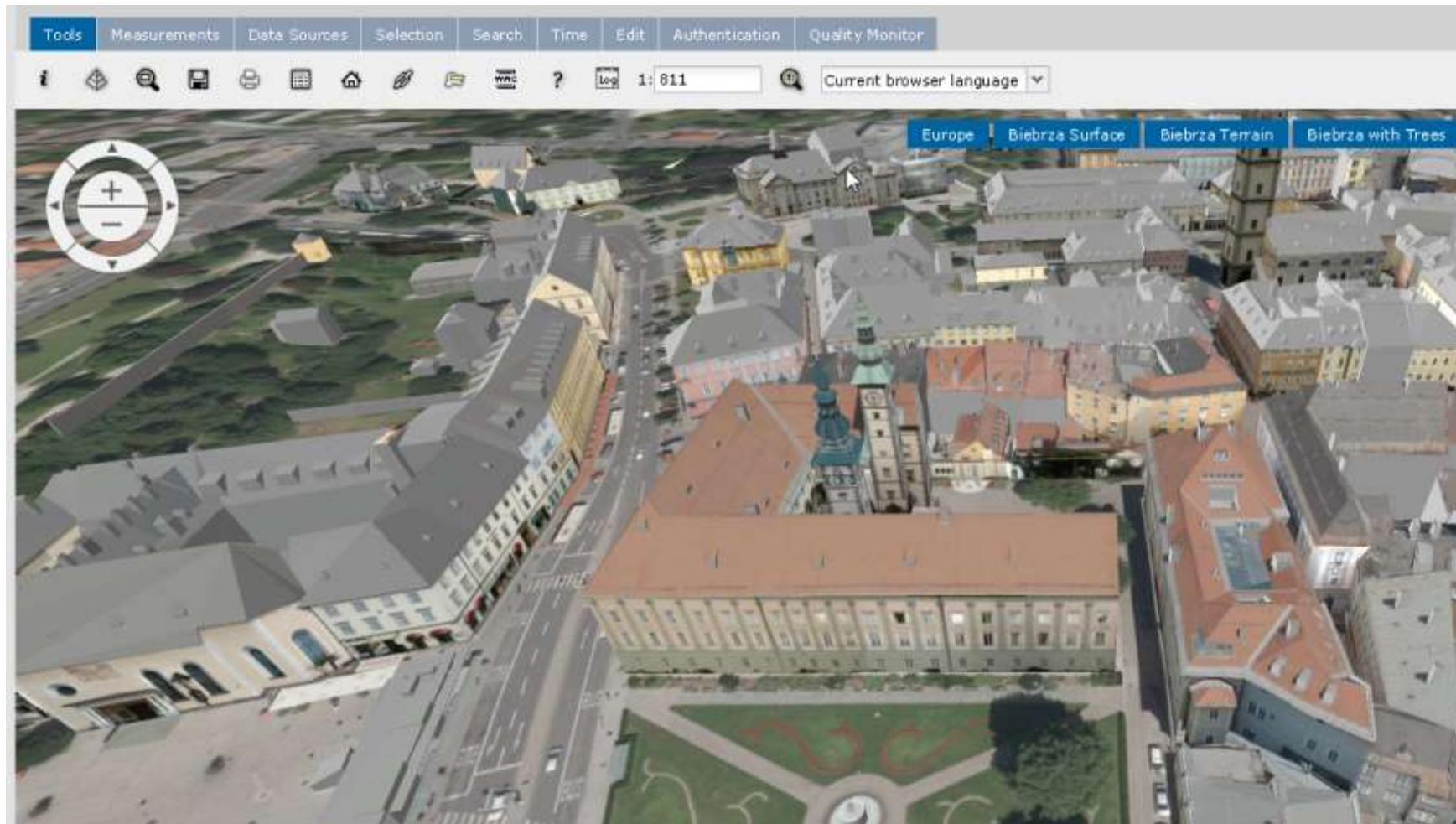


GeoMedia Smart Client



Create and deploy highly focused, **geospatial business workflows**





2D/3D web-based enterprise data access and sophisticated analysis



Mobile MapWorks



Real time tablet-based editing of enterprise GIS data



Mobile Alert



Cloud-based crowdsourcing of incident information



Cameras/Sensors – View shed Analysis & visualization



Hexagon Smart M.App®



WHAT IS THE MAP OF THE FUTURE?





IT'S NOT JUST A MAP.

A MAP DOESN'T DIRECTLY
GIVE ME ANSWERS.

A MAP IS NOT ALIVE.

A MAP IS NOT FRESH.

A MAP IS A REFLECTION
OF WHAT WAS.

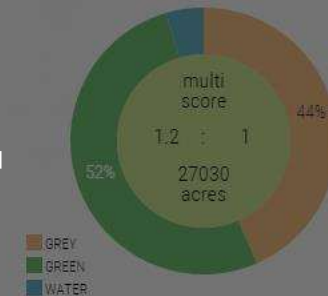


THE MAP OF THE FUTURE...

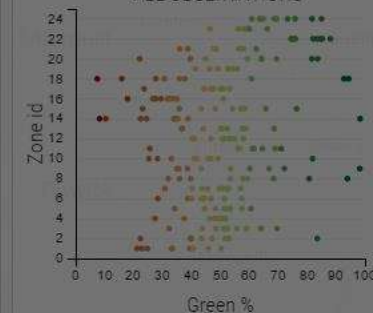
- IS FRESH
- IS PORTABLE
- PROVIDES ANSWERS
- MAKES SENSE

DATA: MILTON KEYNES, UK, 1985-2011

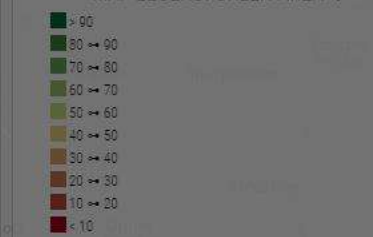
GREEN-GREY RATIO



ALL OBSERVATIONS



MAP LEGEND: GREEN AREA %



THE MAP OF THE FUTURE...

IS A DYNAMIC INFORMATION EXPERIENCE OF:

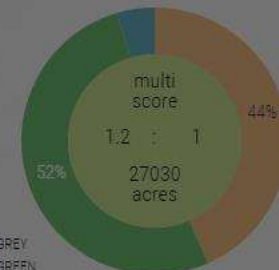
...WHAT WAS

...WHAT IS

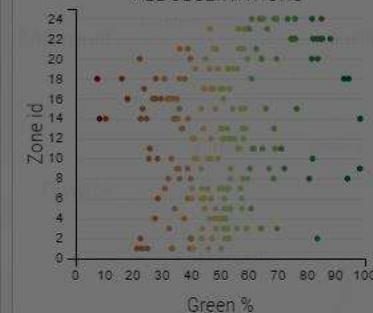
...WHAT CAN or *WILL BE*

DATA: MILTON KEYNES, UK, 1985-2011

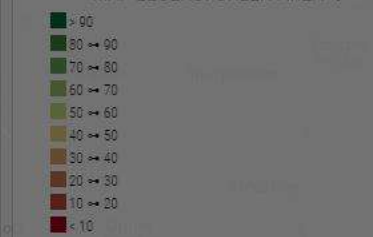
GREEN-GREY RATIO



ALL OBSERVATIONS



MAP LEGEND: GREEN AREA %



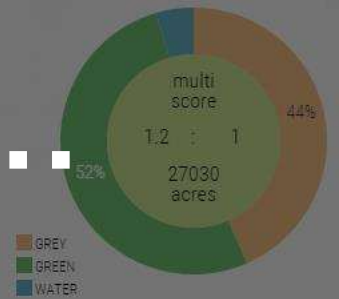
THE MAP OF THE FUTURE IS...



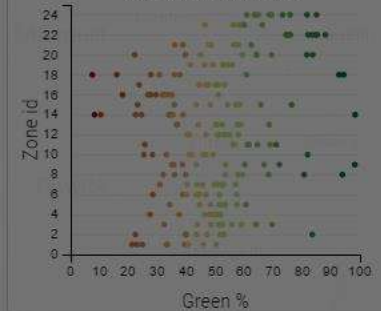
HEXAGON SMART M.APP

DATA: MILTON KEYNES, UK, 1985-2011

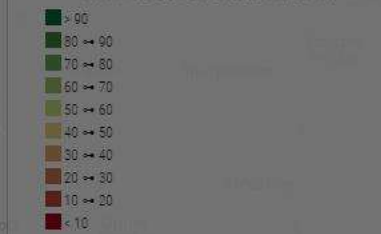
GREEN-GREY RATIO



ALL OBSERVATIONS



MAP LEGEND: GREEN AREA %



Hexagon Smart M.App



Content



Analytics



Workflow



Presentation

Targeted. Lightweight. Dynamic.



Business Problem



Due to security concerns, some enterprises are unable to capitalize on the value of **Hexagon Smart M.Apps**



M.App Enterprise



A platform to create geospatial apps within an organization, for that organization



Dynamically addresses enterprise location-based challenges



Can be hosted on premise



Use the power of Hexagon Smart M.App in your IT / security environment



Core Components



M.App
FOUNDATION

M.App STUDIO

Vector

3D

Point Clouds

Analytics





Security Analysis



Summary



Hexagon Advantage

1

SENSORS AND SOFTWARE

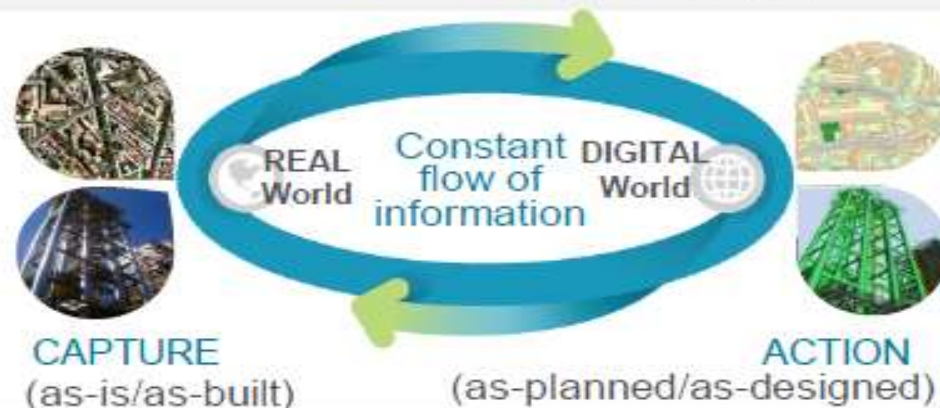
The combination of sensors and software is fundamental to delivering productivity and quality improvements across customer organizations



2

REAL-WORLD, DIGITAL-WORLD FUSION

Enables decision making based on actual circumstances. Fusing the real and digital worlds delivers dynamic data and actionable information



3

LINKING ISOLATED ISLANDS OF INFORMATION

Actionable information empowers the system – from people to machines – to act and react faster and more intelligently.





Visit us @ Booth # 4

THANK YOU

