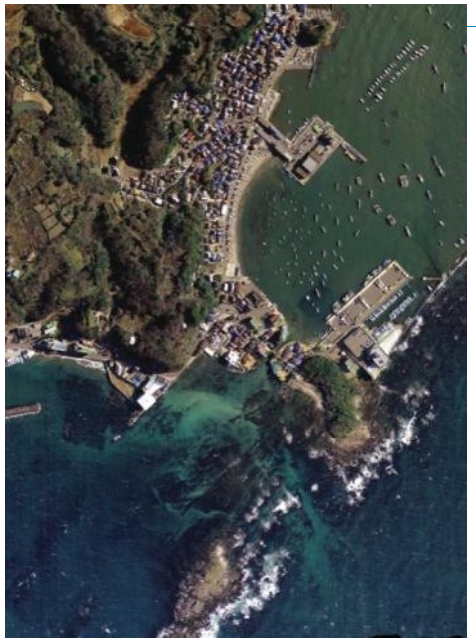
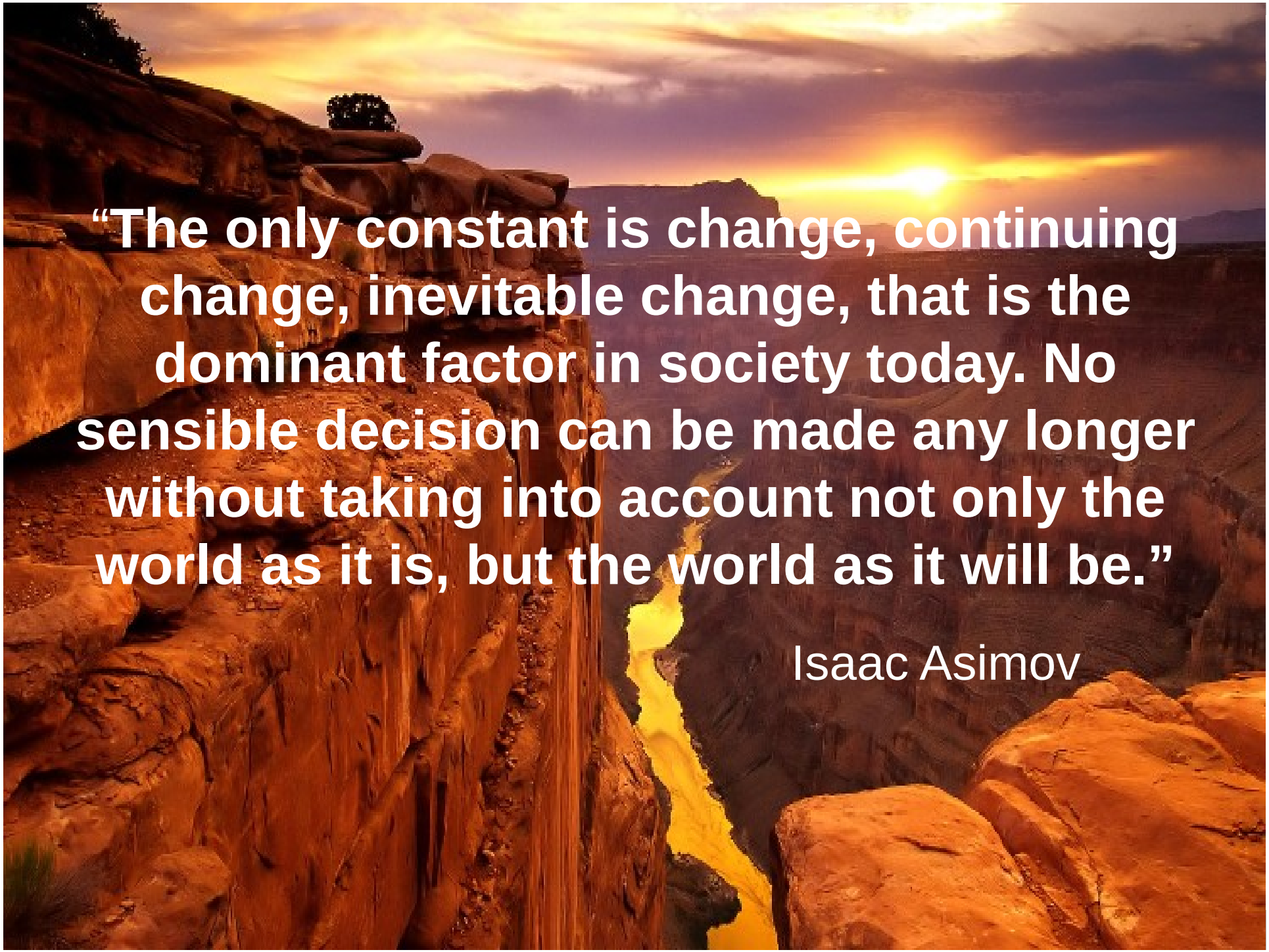
Powering Big Data: From Creation to the Cloud

Dean McCormick – Regional Sales Manager Geospatial – MEA Region




PART OF HEXAGON

SMARTERDECISIONS


“The only constant is change, continuing change, inevitable change, that is the dominant factor in society today. No sensible decision can be made any longer without taking into account not only the world as it is, but the world as it will be.”
Isaac Asimov

Climate Change

Urbanisation

Natural Disasters

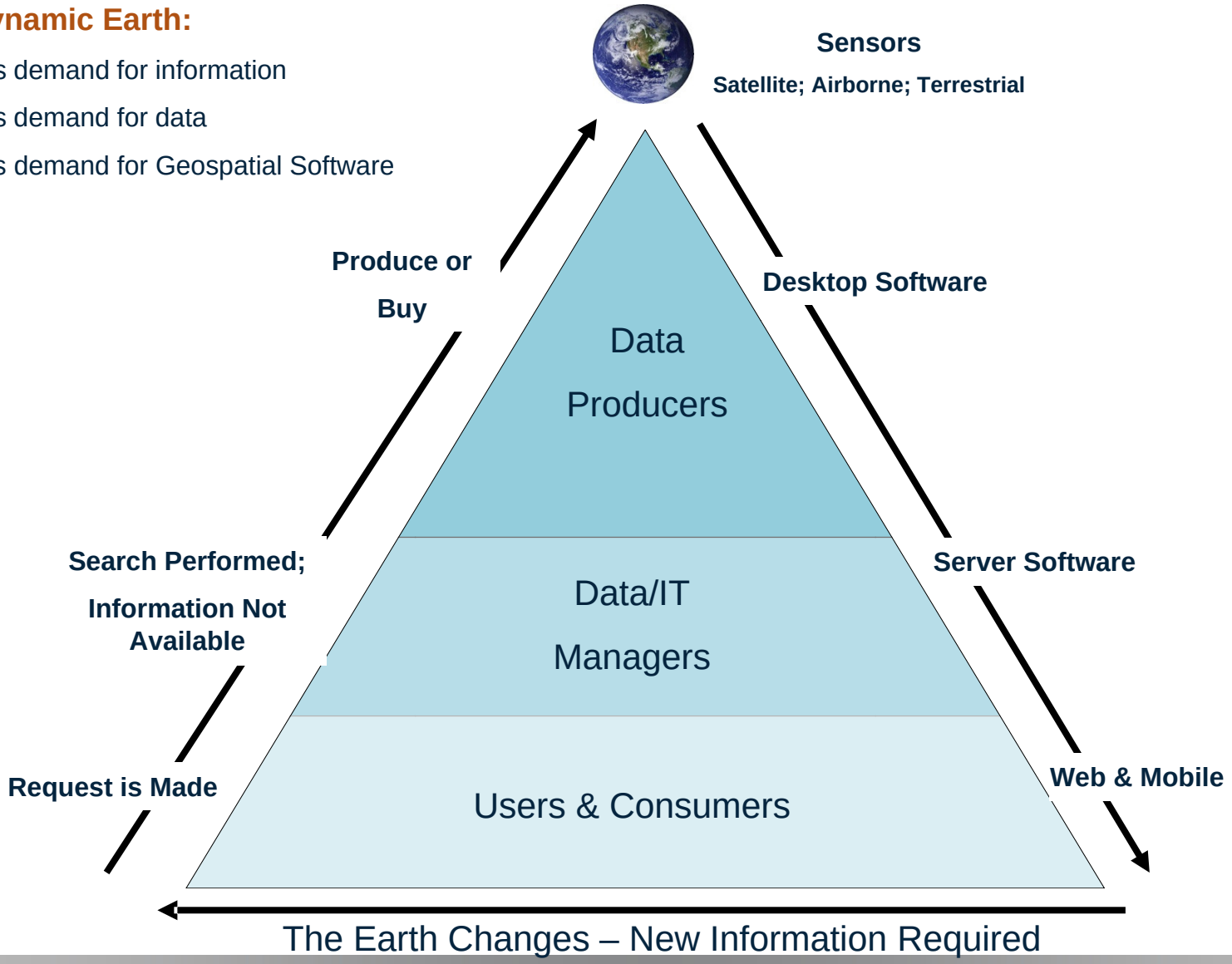
Smart Decisions

INTERGRAPH®

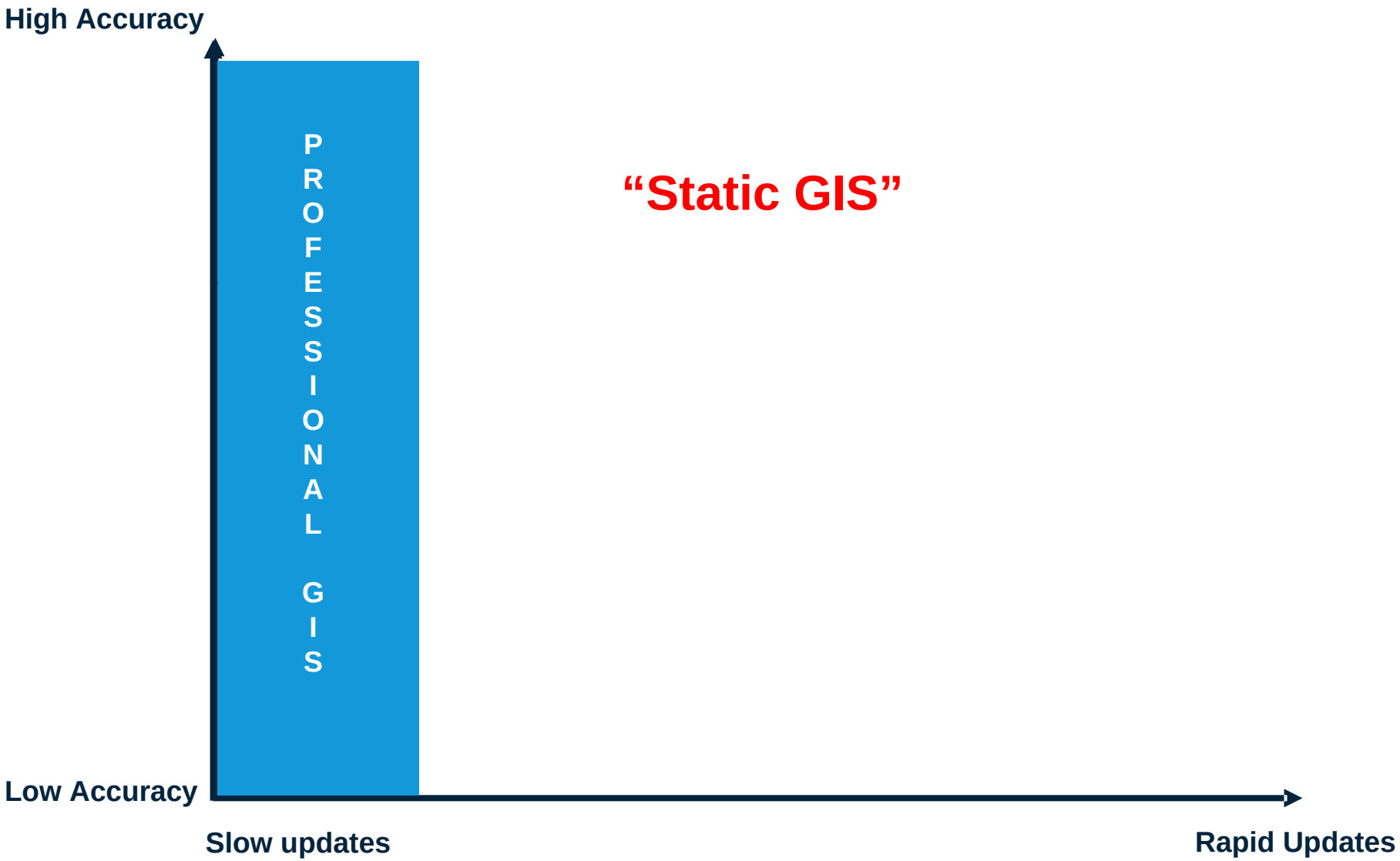
Lifecycle of Geospatial Information

The Dynamic Earth:

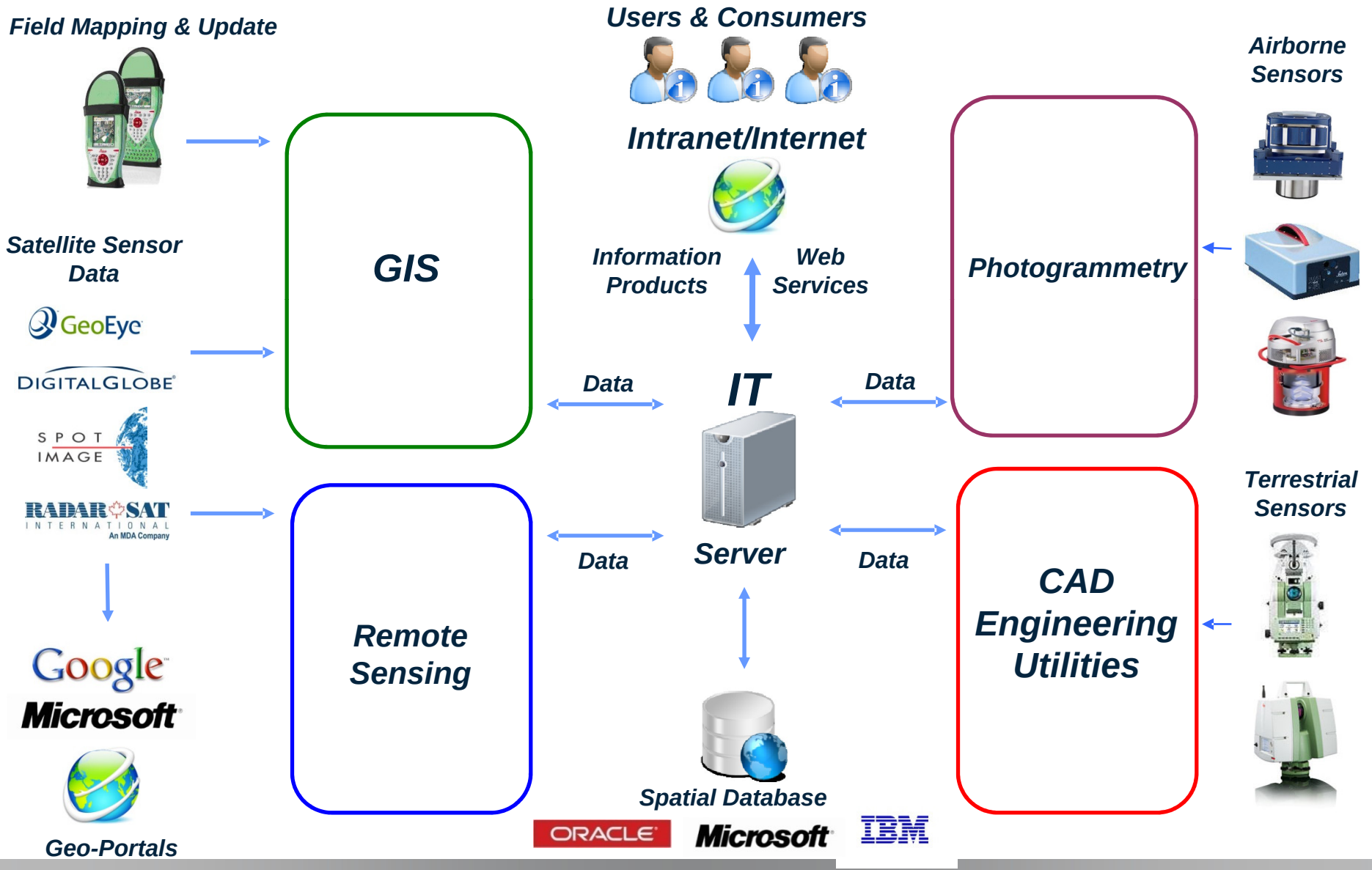
- Drives demand for information
- Drives demand for data
- Drives demand for Geospatial Software



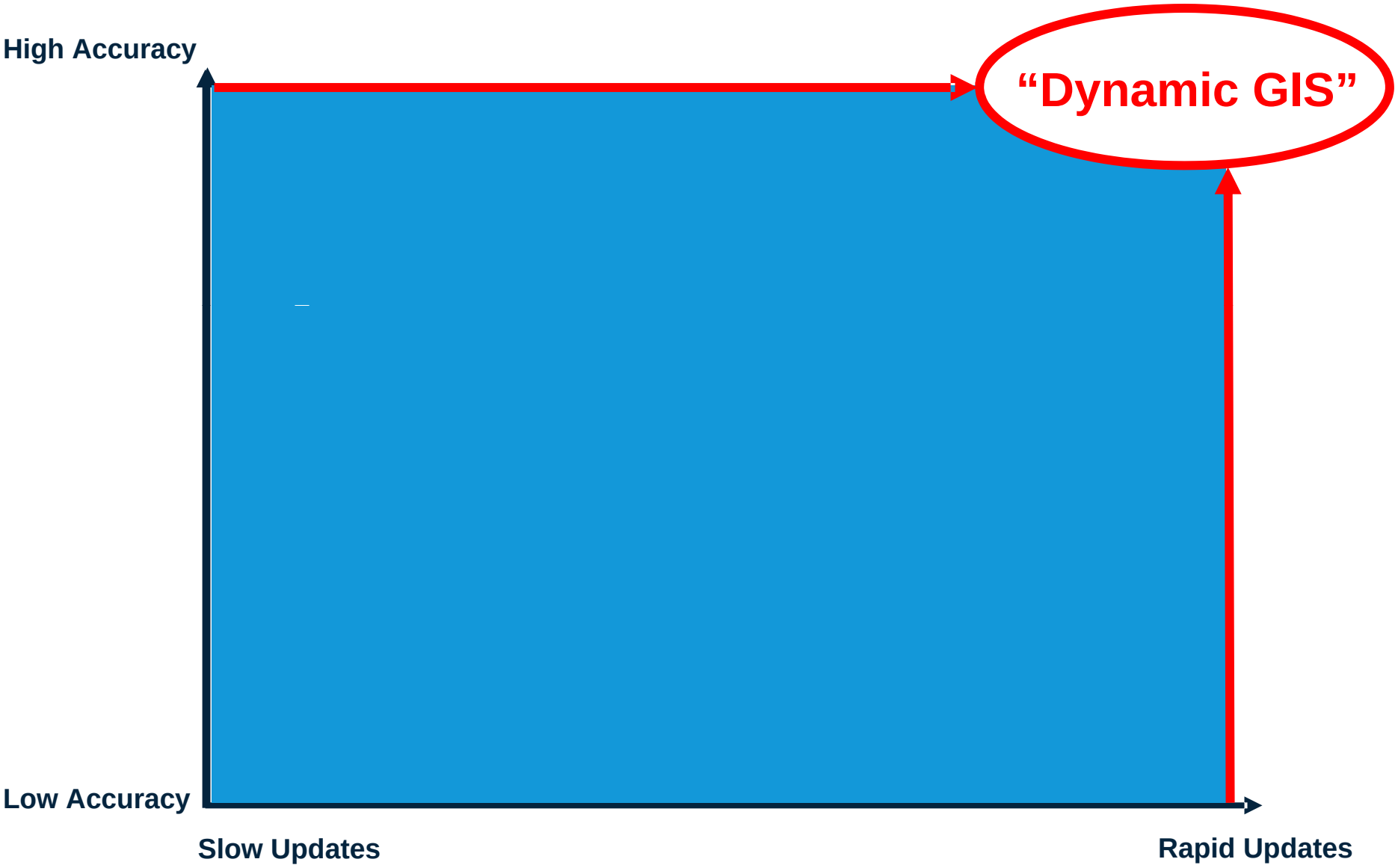
GIS Market Development: 2000 - 2010



Geospatial Ecosystem



GIS Market Development: 2010 and beyond…



Convergence of geospatial technologies

Fusion of Geospatial Genres

Surveying →

Photogrammetry →

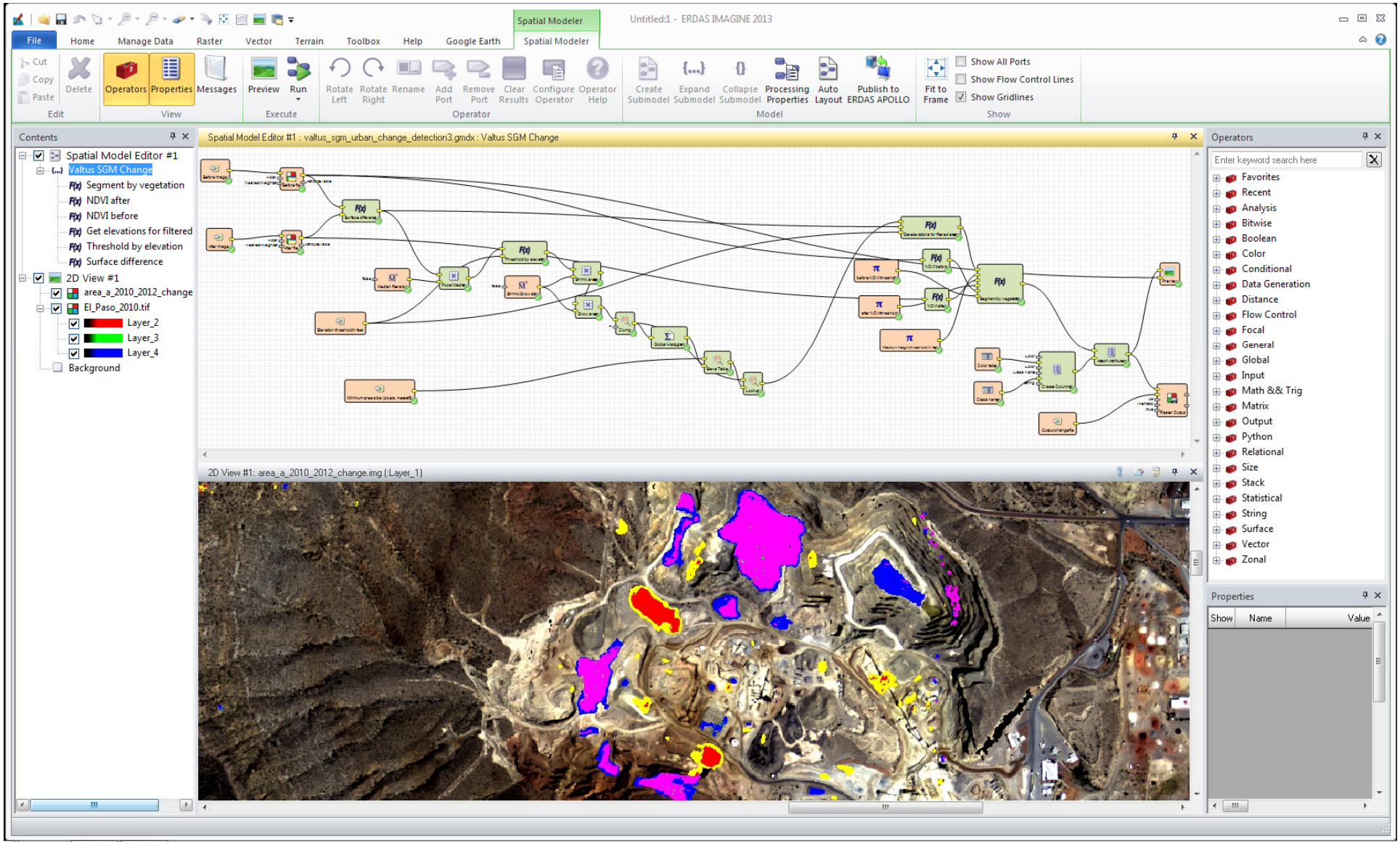
Remote Sensing →

GIS →

Data

Dynamic Geospatial Engine

Dynamic Spatial Modeling



Convergence of geospatial technologies

Fusion of Geospatial Genres

Surveying →

Photogrammetry →

Remote Sensing →

GIS →

Data

Dynamic Geospatial Engine

→

Mobile Apps

Dynamic Interactiv e Maps

5D Digital Worlds

Web Services & Applications

Reports & Presentations

CAPTURE+ PROCESS + SHARE + DELIVER

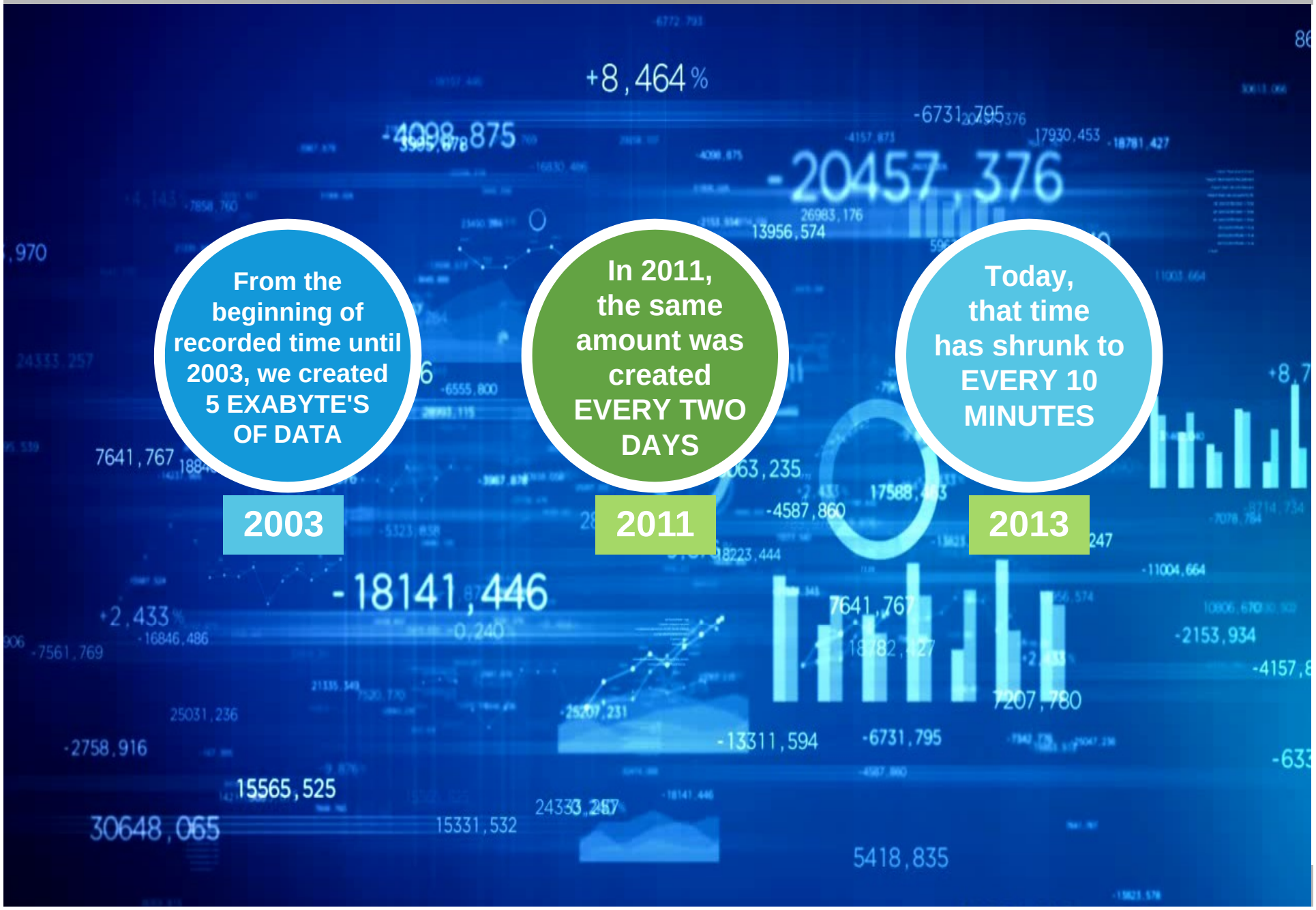
Use Together to Build Solutions

High Complexity = Empowering a Few

Simplicity = Empowering a Billion

Our work is never finished

Data Deluge


From the beginning of recorded time until 2003, we created 5 EXABYTE'S OF DATA
2003
In 2011, the same amount was created EVERY TWO DAYS
2011
Today, that time has shrunk to EVERY 10 MINUTES
2013

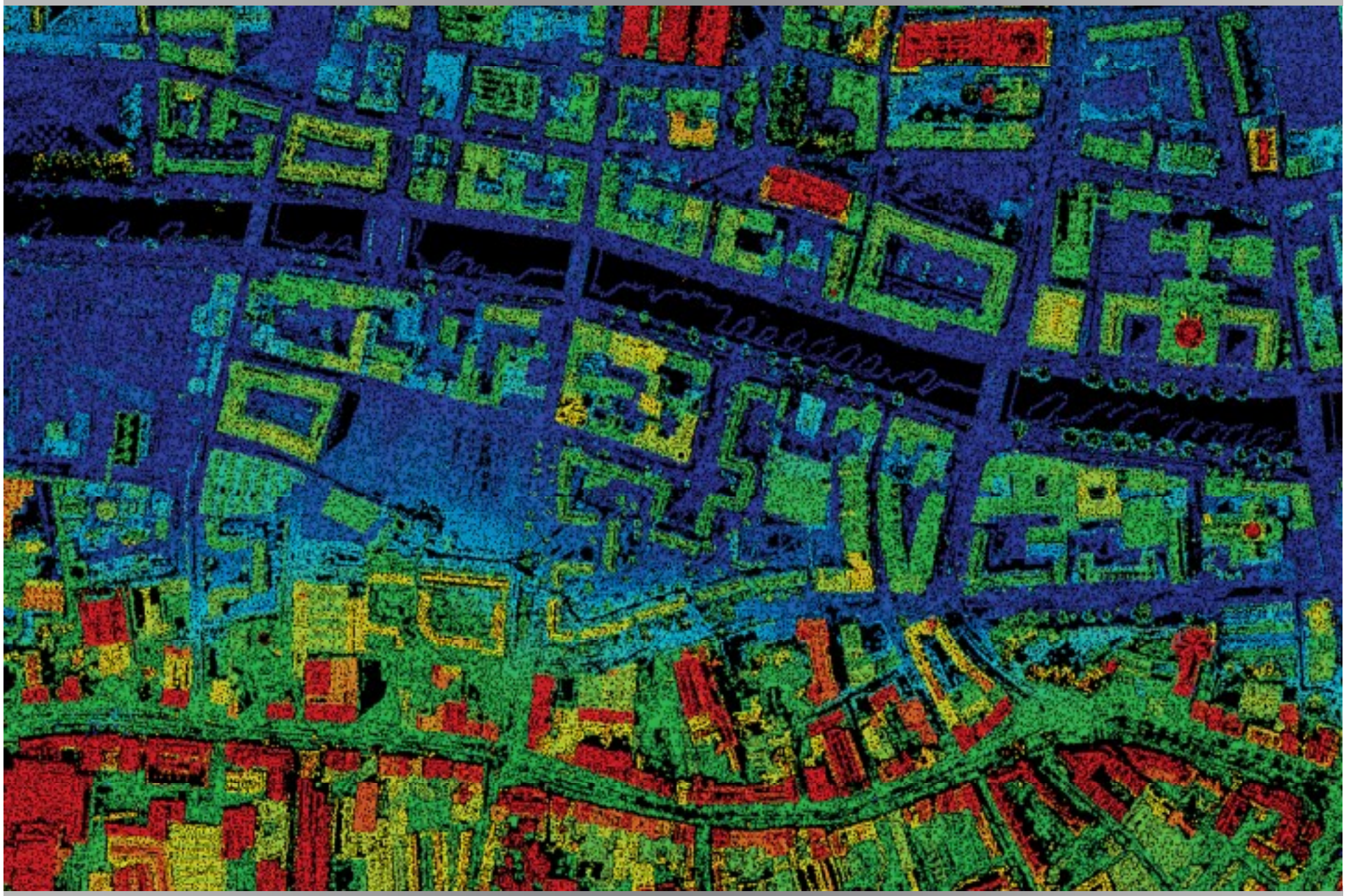
Rapid Low Cost Data Acquisition

INTERGRAPH®

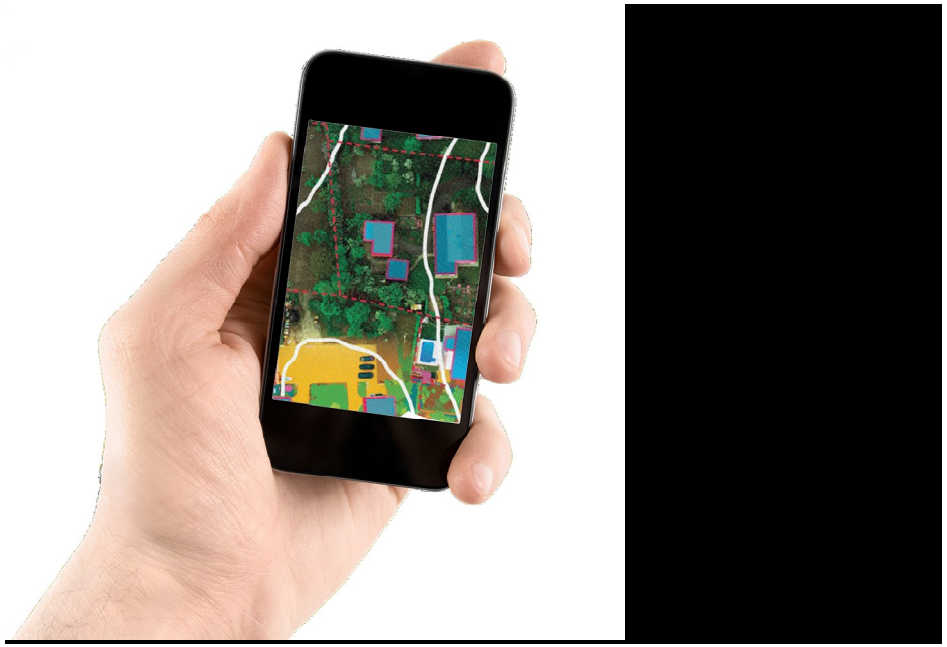
Greater Resolution, Greater Coverage, Greater Frequency, Greater Bit Depth

New Technologies

New Data Types



Rocketing User Demand



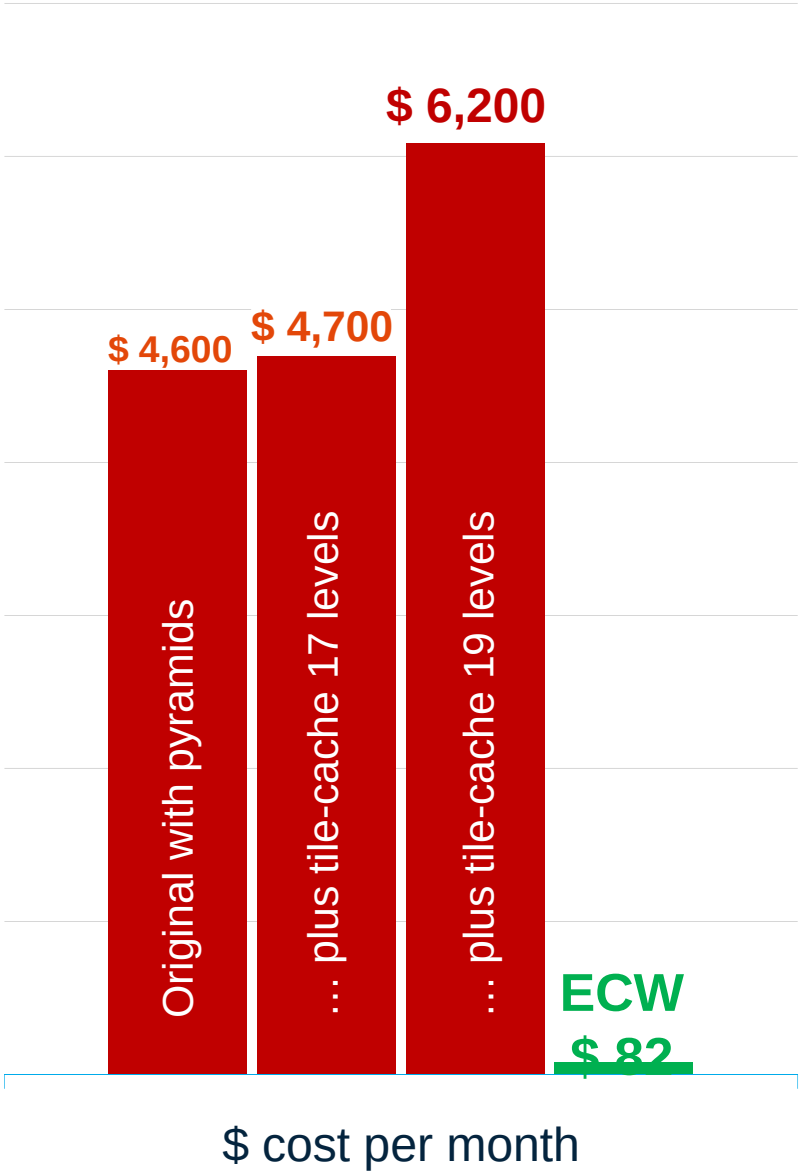
Every day, new users are demanding imagery, across all applications, on all devices

Addressing the Big Data Challenge

The World's Largest Geospatial Image

- Single Orthophoto @ 20cm GSD
- 14 Terra Pixels
- 38TB uncompressed
- 50TB with pyramid layering
- 370,000 resource files

Making Big Data Small



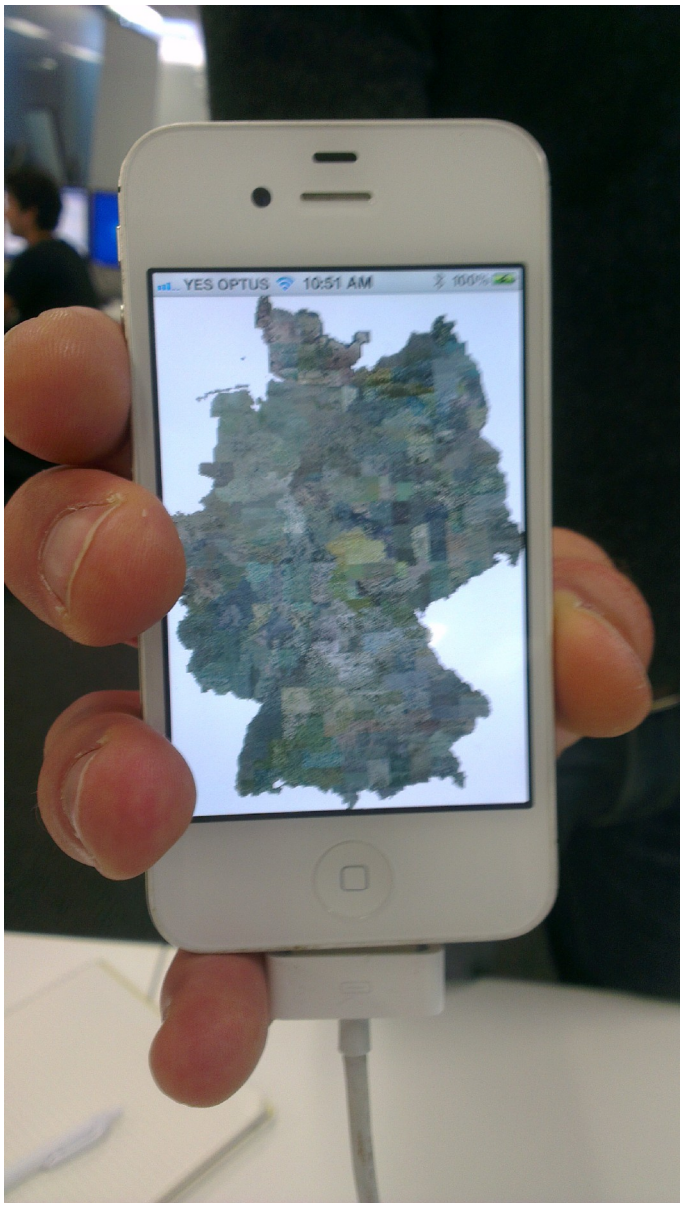
Amazon S3 Cloud storage Costs comparison example

98% lower costs using ECW
>$4.6k monthly saving
Up to $73k annual saving

Data generated using the Amazon S3 Cloud Calculator

INTERGRAPH

1 Image



< 1 TB

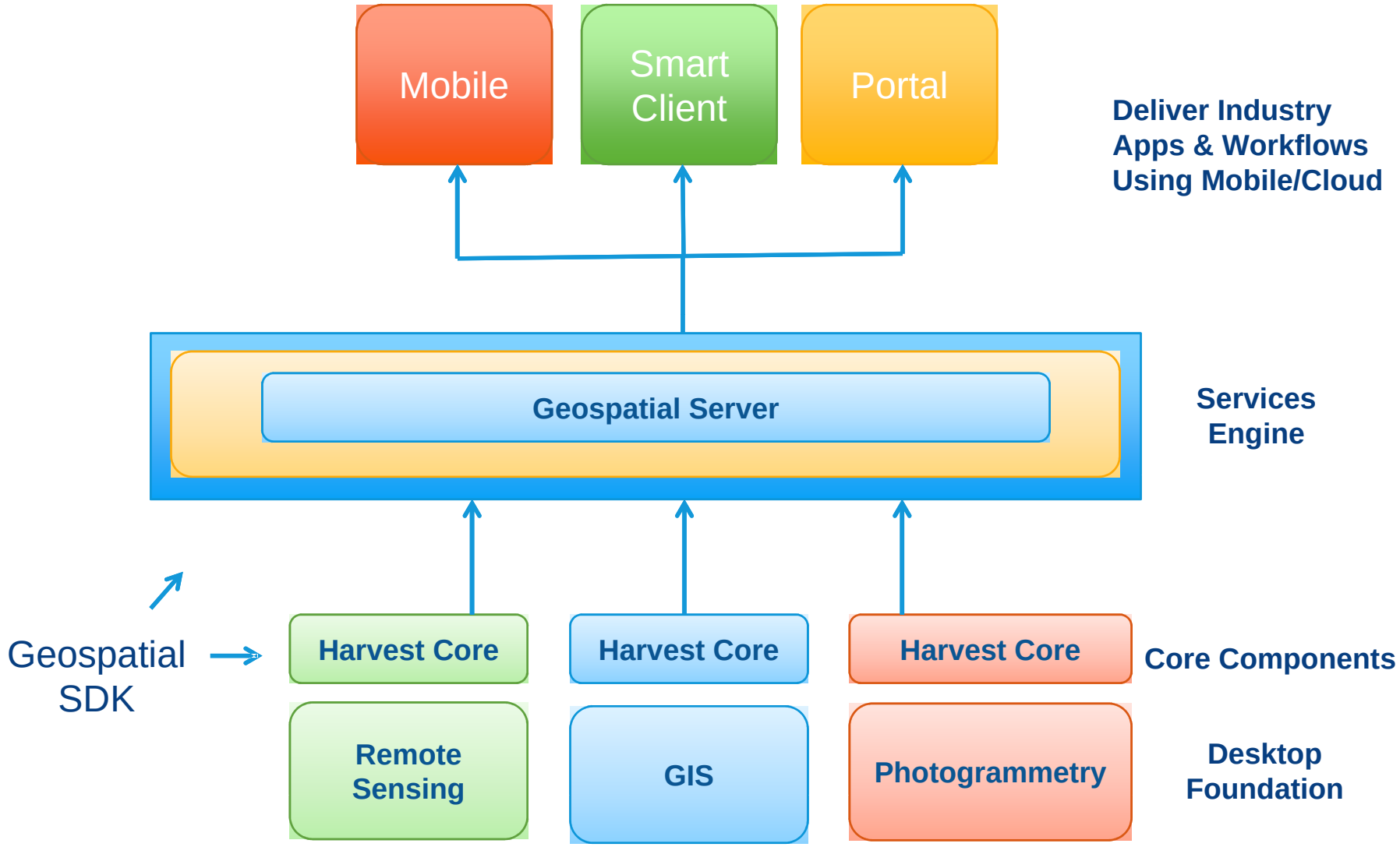
14 TeraPixels

Fast!

Analytics

New breed of user

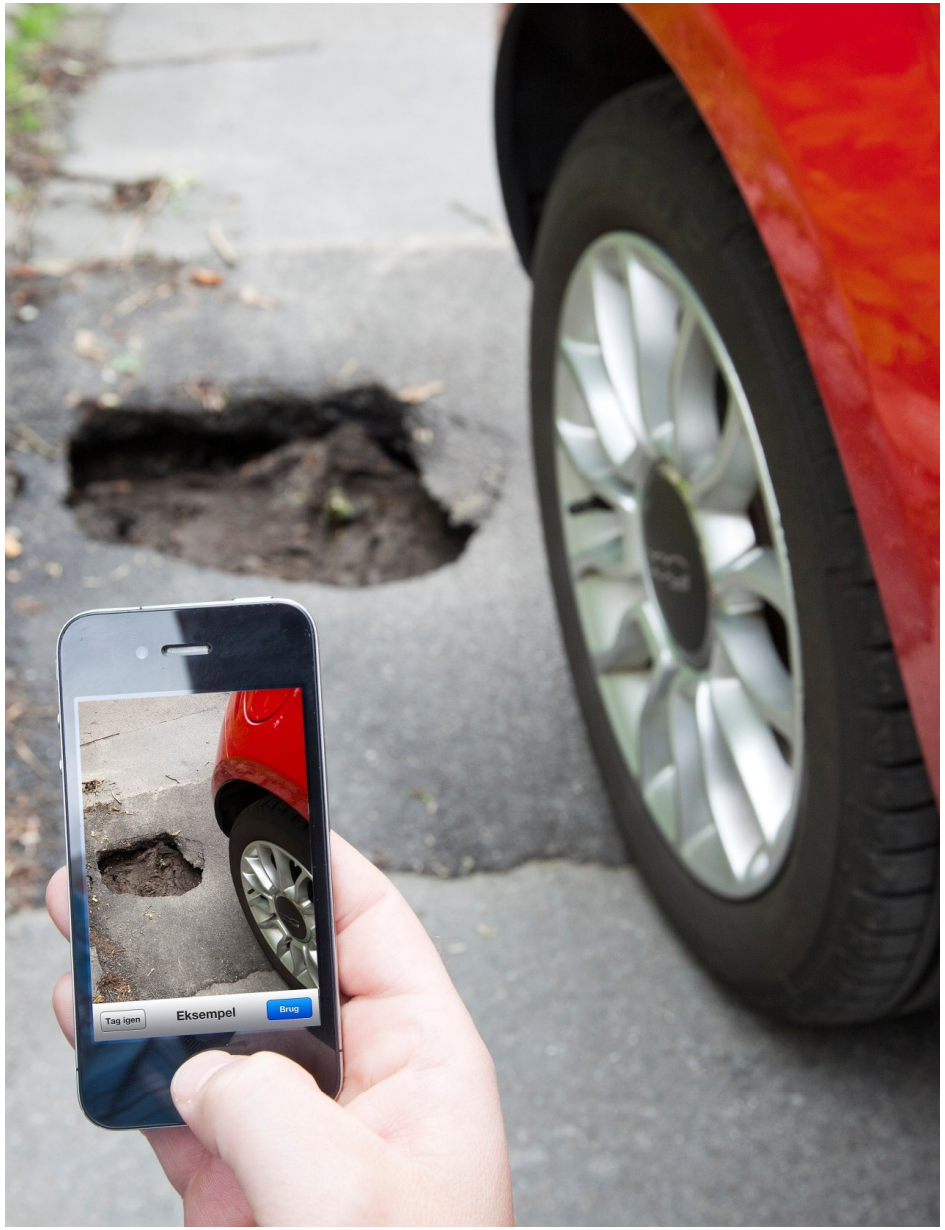
Light weight Apps for Mobile / Cloud



GIS on the Go

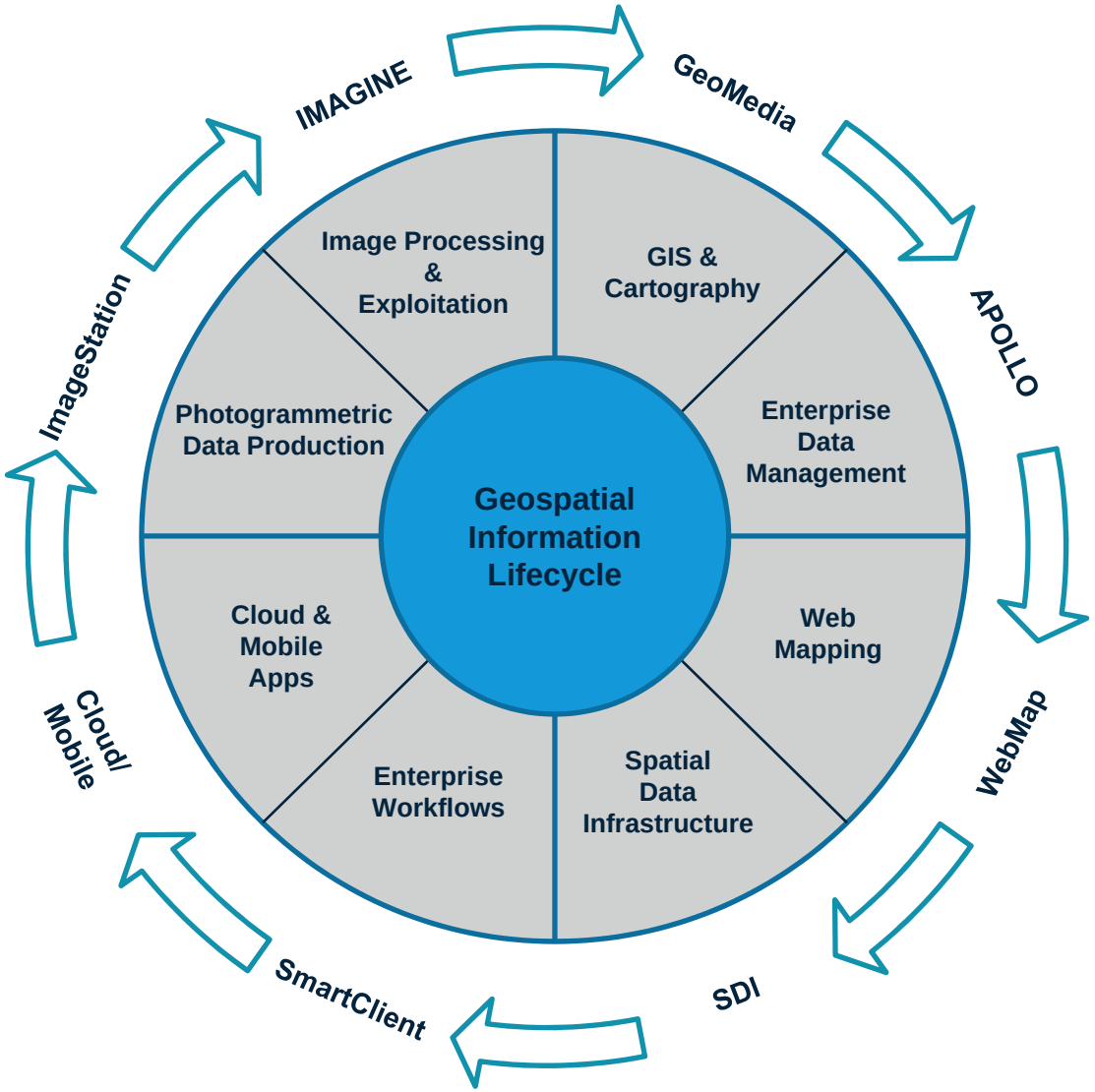
Tablet-based, field inspection and editing *app's* for enterprise GIS data.

Crowdsourcing Apps



Shortening Geospatial Information Lifecycle

Dynamically Changing Earth
From the Sensor to Information



Addressing Geospatial Trends

Thank You!

SMARTERDECISIONS