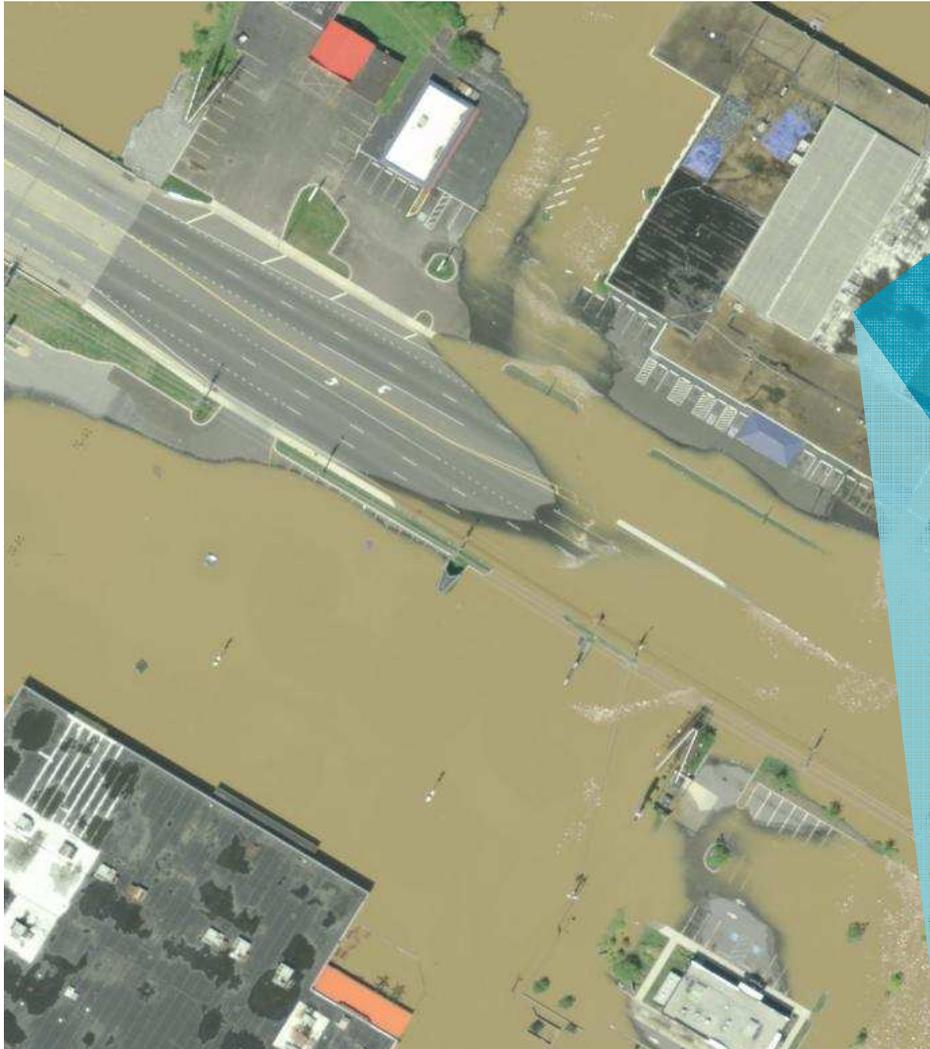




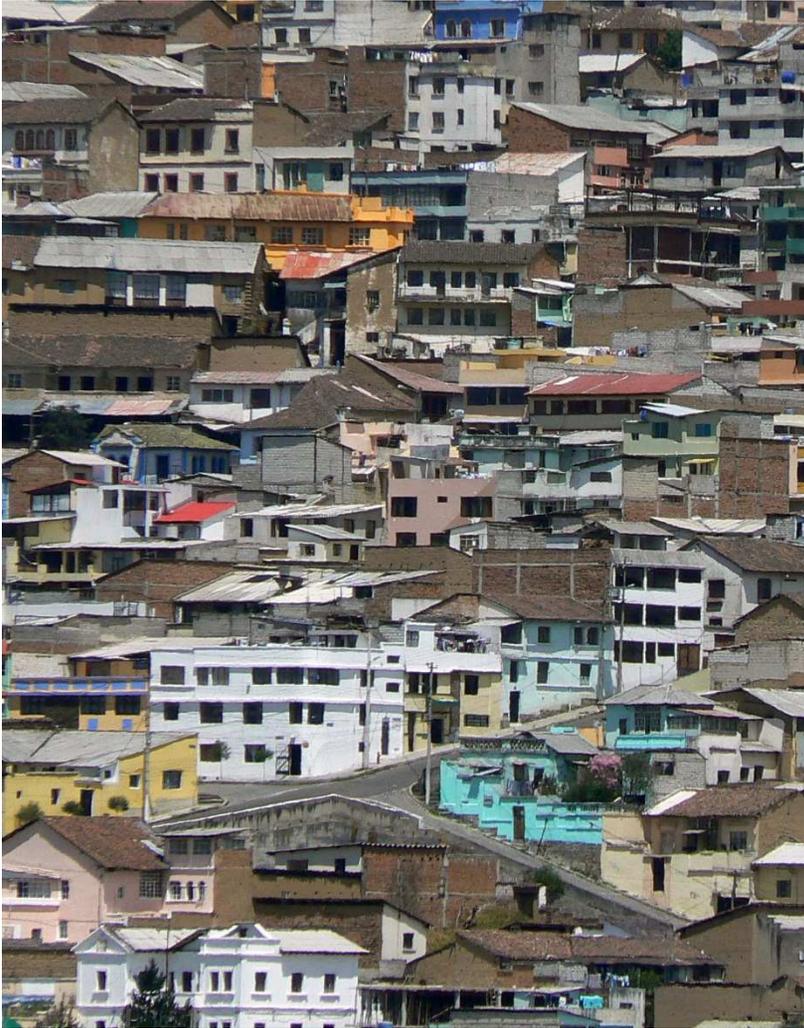
# Actionable Information from Dynamic GIS

By Juergen Dold, President Hexagon Geosystems



# Why actionable information and why dynamic GIS?

# The world is changing rapidly



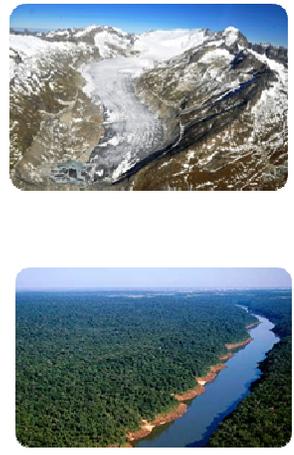
- Population today 7B  
in 40 years 10B
- Population in cities today 50%  
in 15 years 60%
- Global middle class today 0.6B  
in 10 years 1.5B

# More infrastructure & resources in a more complicated world

## Infrastructure



## Global Warming



## Resources



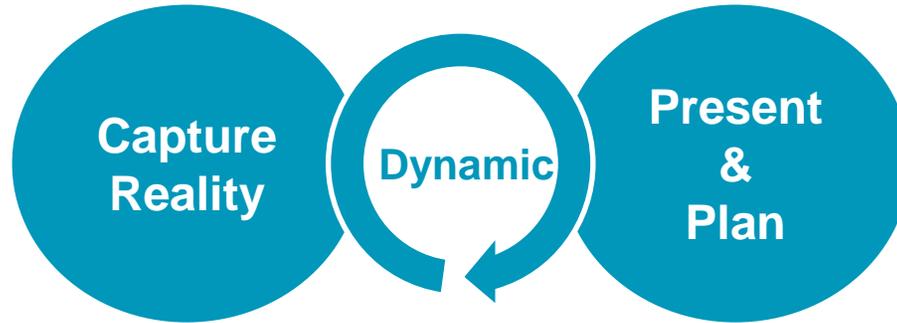
## Safety and Security



# Fast changing world needs actionable information

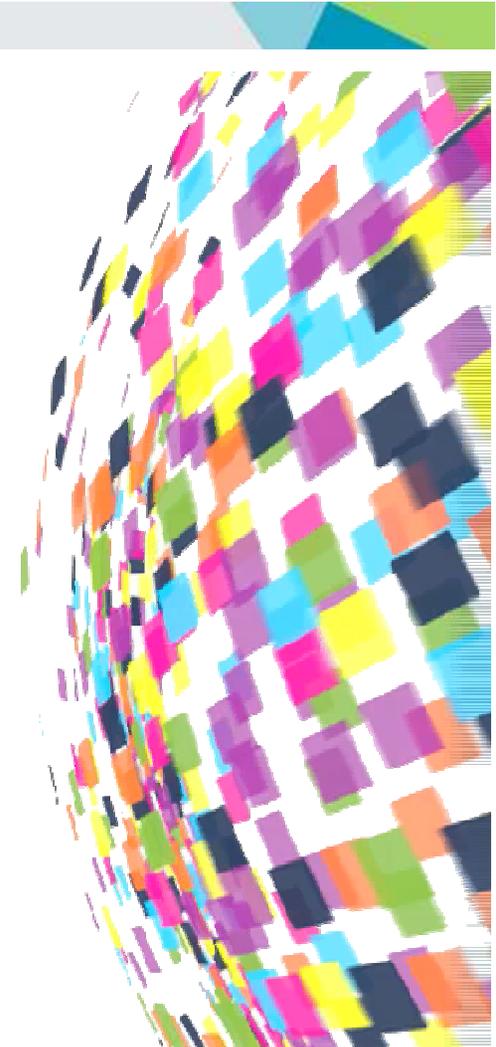


## Actionable Information



## About us in brief

- 3.2B USD in sales
- 12% in research and development
- 12'000 employees
- 43 countries & local management
- 200 years of history in the company



# Hexagon companies are capturing & managing reality ...



... and enable communication between institutions



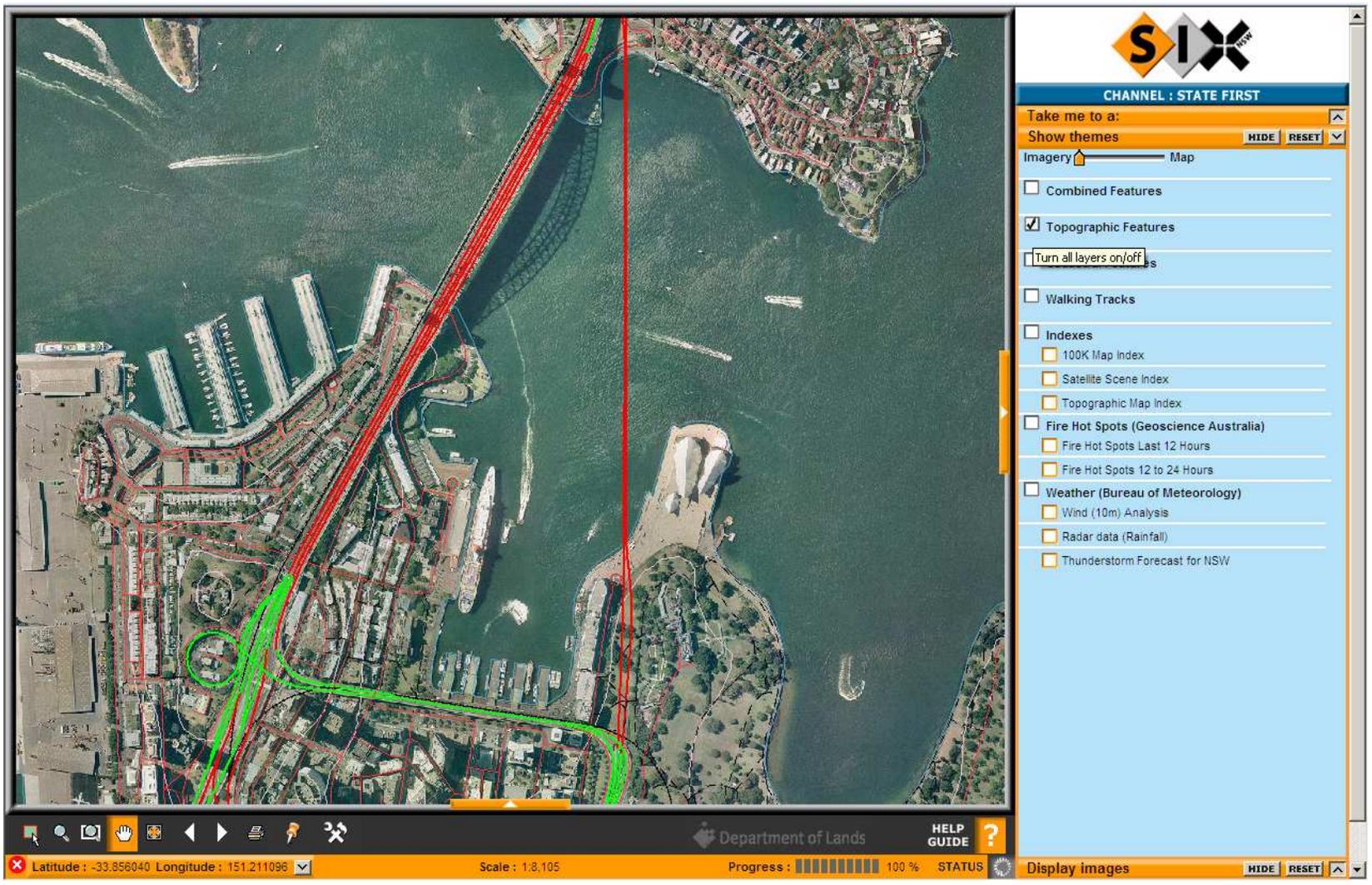
**INTERGRAPH®**

*Geospatially-powered solutions for security, government & infrastructure organizations around the world*

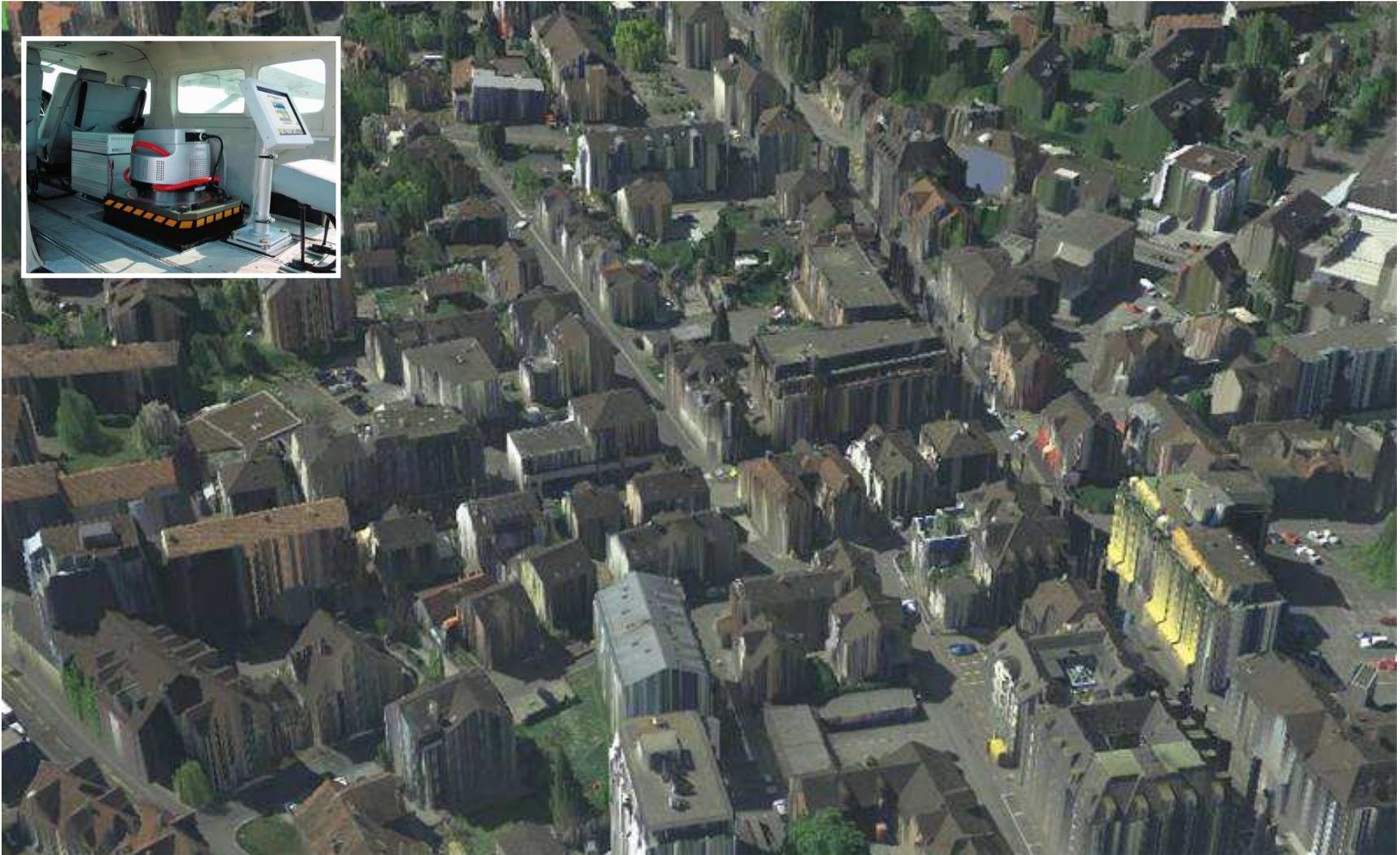


Sharing fused data  
also with industry!

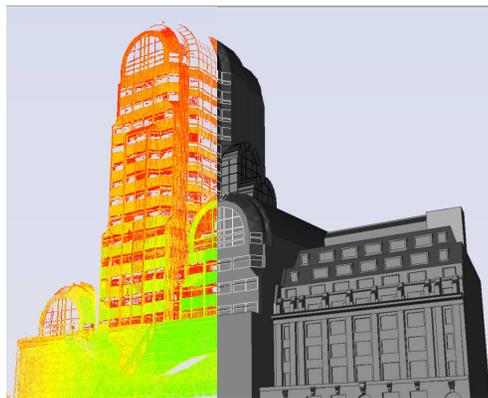
# Geospatial Data to be shared across agencies and industry



# From 2D towards 3D

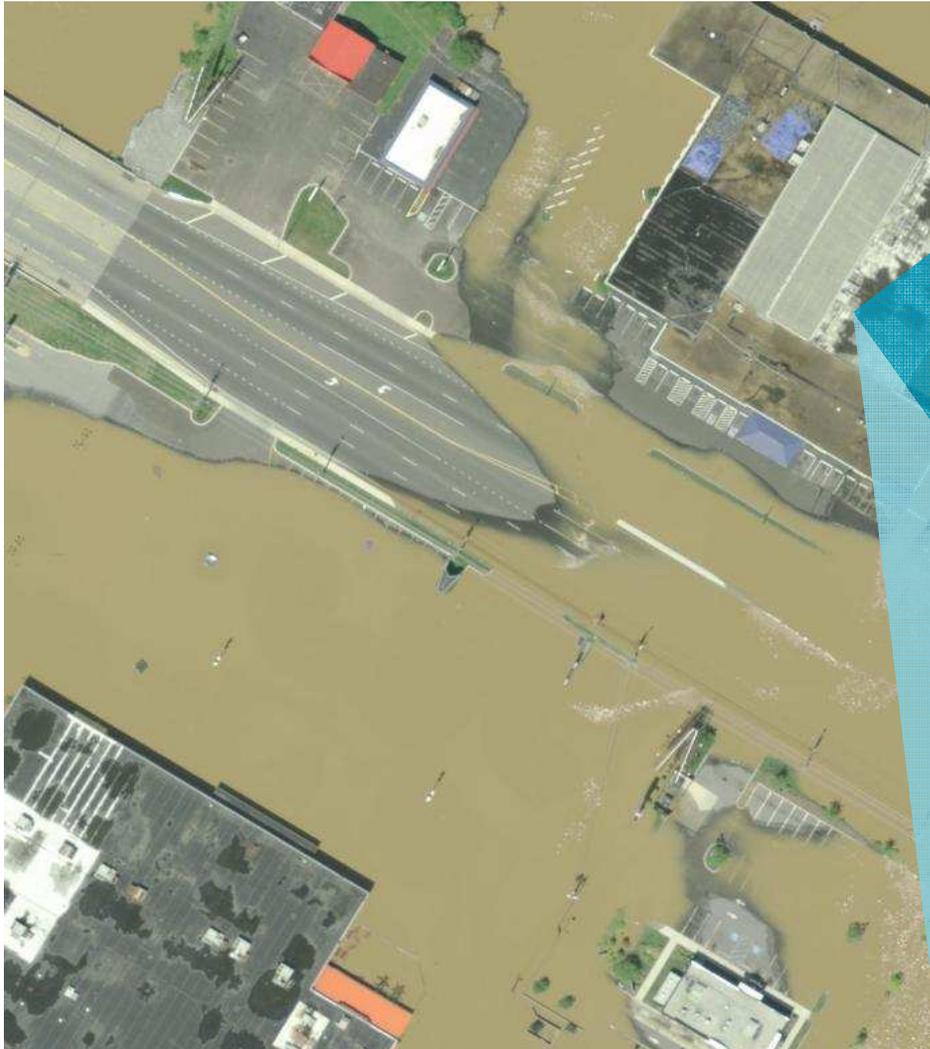


# Fusion of 3D data



# The need for actional information ... also for farmers



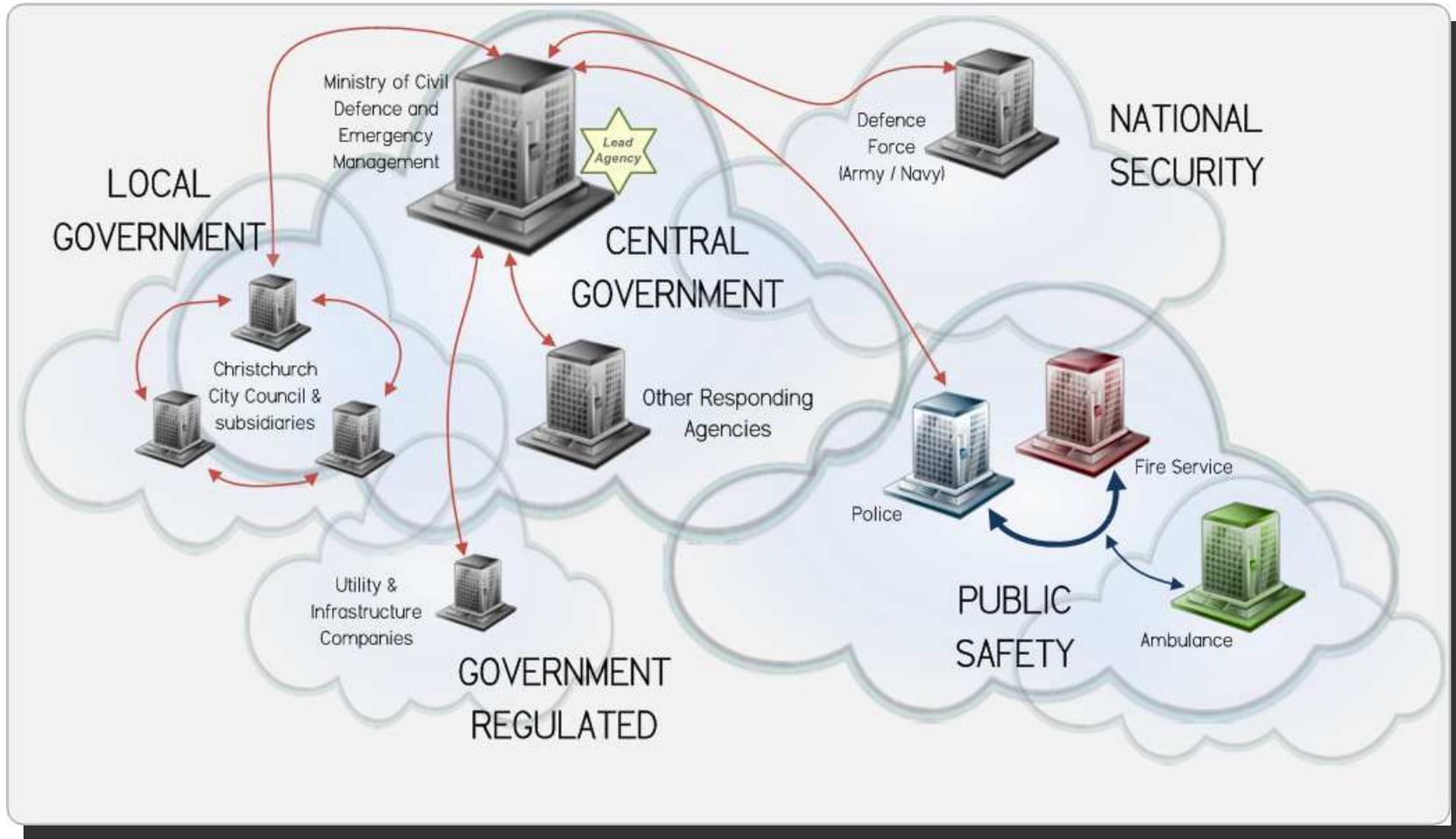


Collaboration  
in times where  
the world  
is getting  
more complicated!

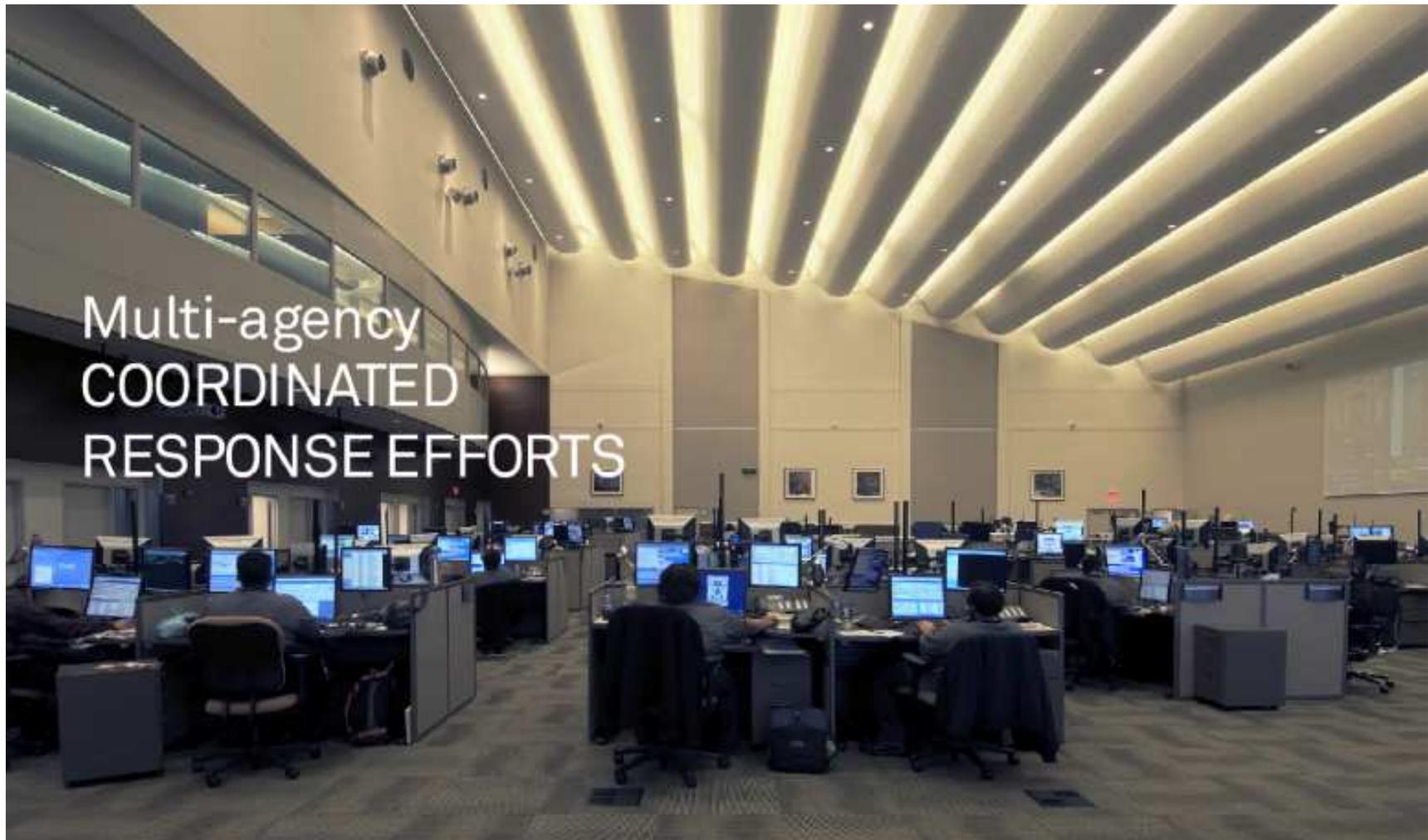
# Christchurch, New Zealand



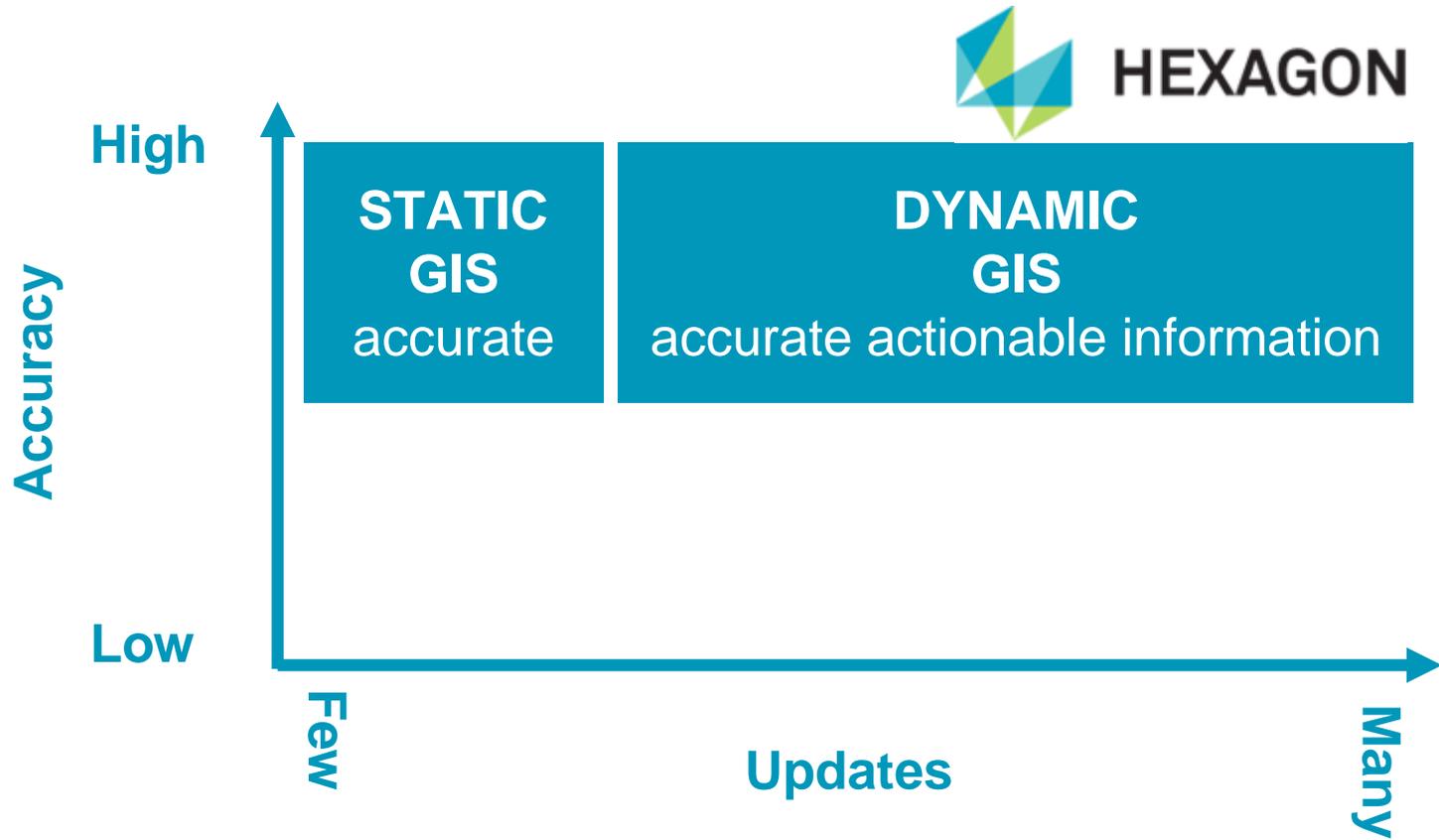
# New Zealand Emergency Response Overview



# Intergraph's Emergency Management & Dispatch Solutions



# Trend 2010 to 2020



## Hexagons view on GIS

### Critical components:

- Integration of sensors and GIS – from 2D to 3D
  - Consequently update the relevant parts of GIS data
  - Consequently share multiple sources (agencies/industry)
  - Real time positioning of critical objects
- 
- **Towards Actionable Information & Dynamic GIS!**



Thank You!