

JIIIE 2014

# V Jornadas Ibéricas de Infraestruturas de Dados Espaciais

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INSTITUTO  
GEOGRÁFICO  
NACIONAL







# Intergraph **SMART** Solutions

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# Corporate Presentation





## Intergraph helps the world work smarter.

Our software and solutions improve the lives of millions of people through **better facilities**, **safer communities**, and **more reliable operations**.

Intergraph is part of **Hexagon**.



A high-angle, night-time aerial photograph of a city skyline, likely Shanghai. The Oriental Pearl Tower is prominent on the right, illuminated with blue and white lights. The Huangpu River flows through the center, reflecting the city lights. Numerous skyscrapers are visible, many with colorful light displays. The overall scene is vibrant and modern.

## Smart solutions

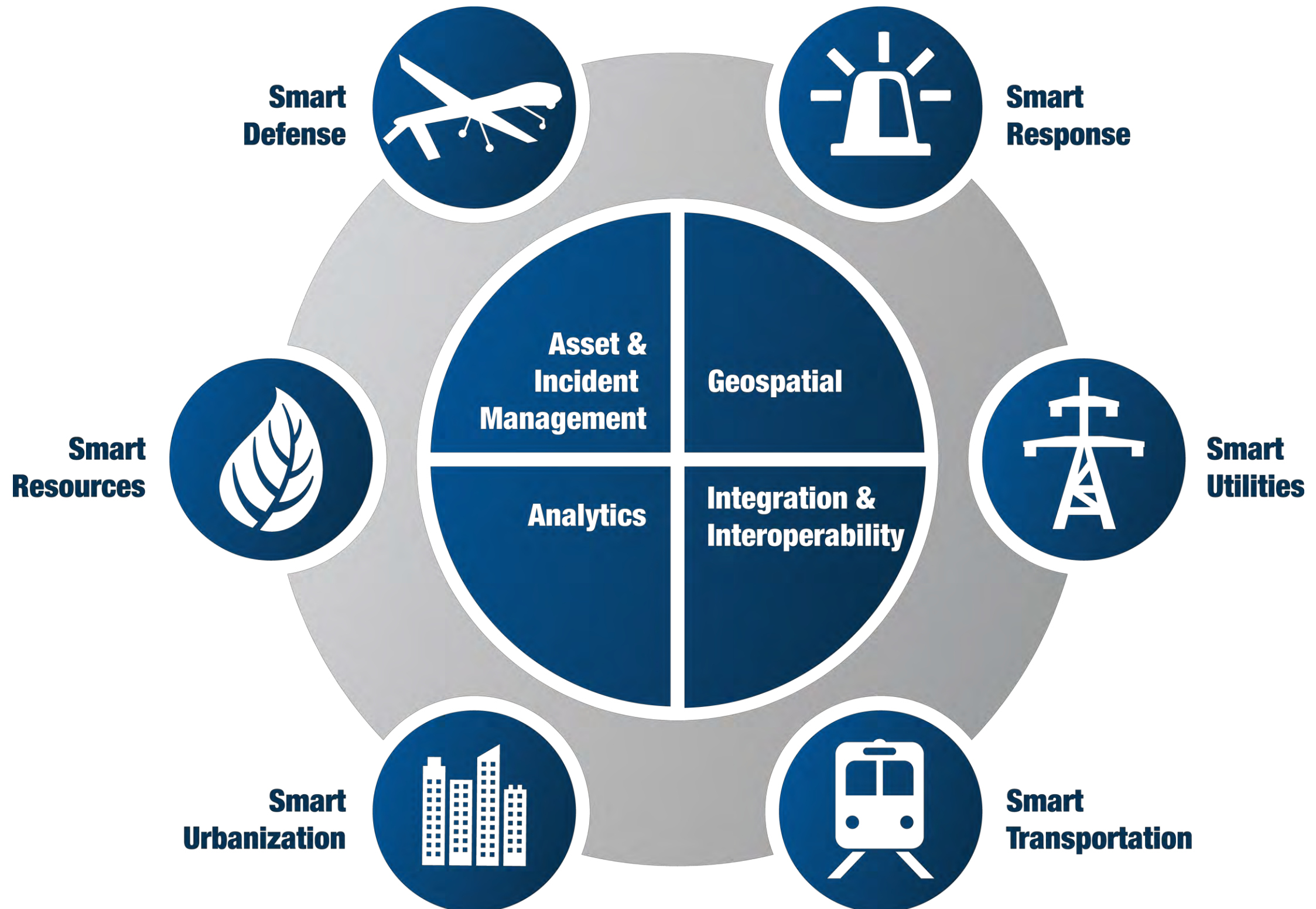
Intergraph Security, Government & Infrastructure (SG&I) is the leader in **smart solutions** for emergency response, utilities, transportation, and other global challenges.

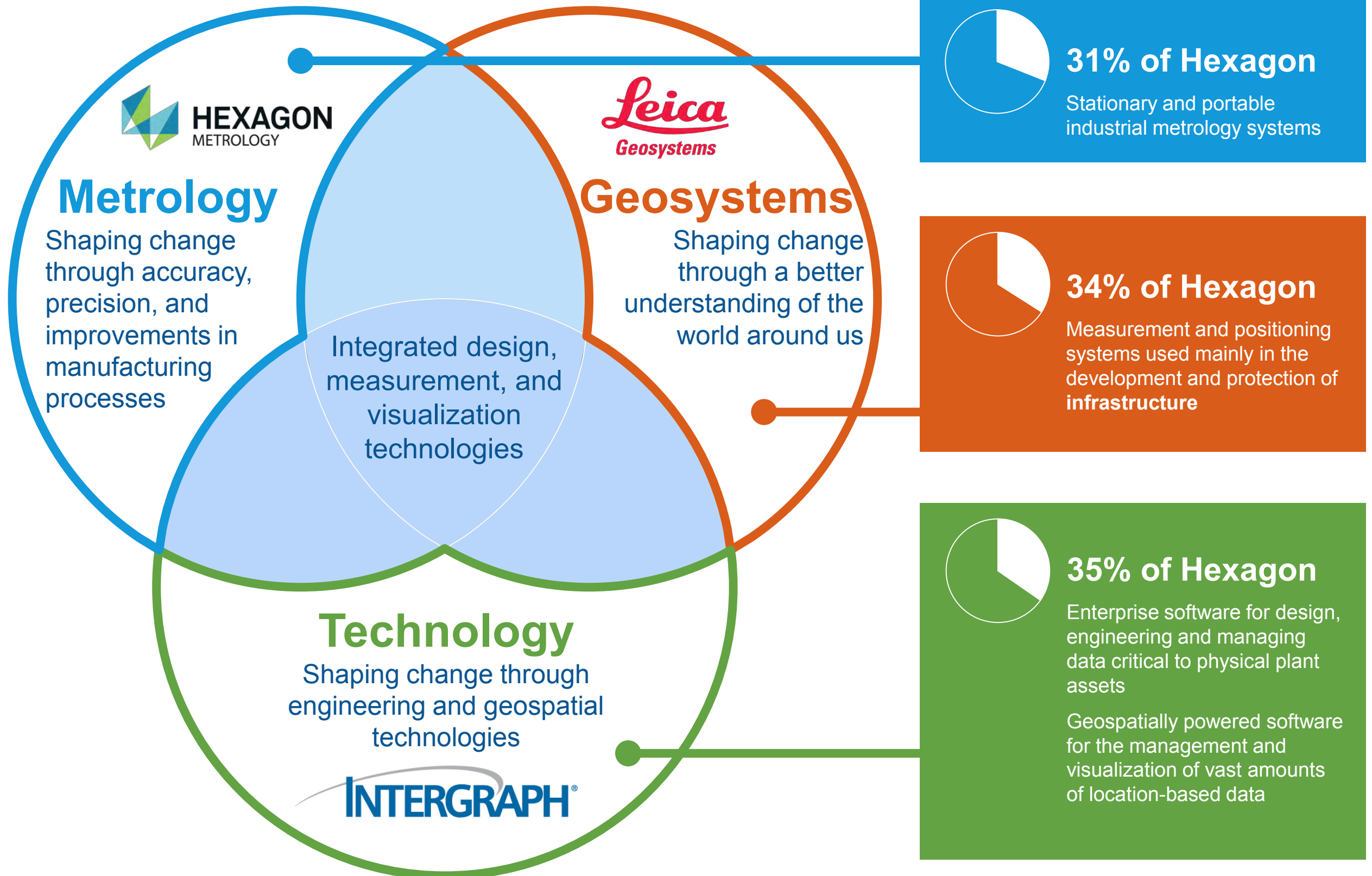
Our smart solutions are built upon:

- **Asset and incident management** for industry-specific challenges
- **Geospatial** data creation, visualization, processing, and management
- Data and system **integration and interoperability**
- **Analytics** for improving current and future operations

Smart solutions lead to **smarter decisions** and better results.







# **SMART** Solutions Concept





- Addressed for wisely operated and managed orgs.
  - Well balanced model of investments in human and physical resources;
  - Social and environmental responsibilities;
  - Integrated information and communication technologies;
  - Empower sustainability and efficiency;
  - Assure high quality of results and wide participation and engagement.
- Integrated approach of various components working together:
  - Shared vision, common objectives;
  - Diverse players, one single coordination overall;
  - Specific fields of action, but by means of sharing;
  - Empowering productivity, efficiency and competitiveness;
  - Improving knowledge and management tools within the organization.
- Solutions based in wise, shared and collaborative actions, each contributing with partial contributions, valuable to all.





# **SMART** Solutions Context





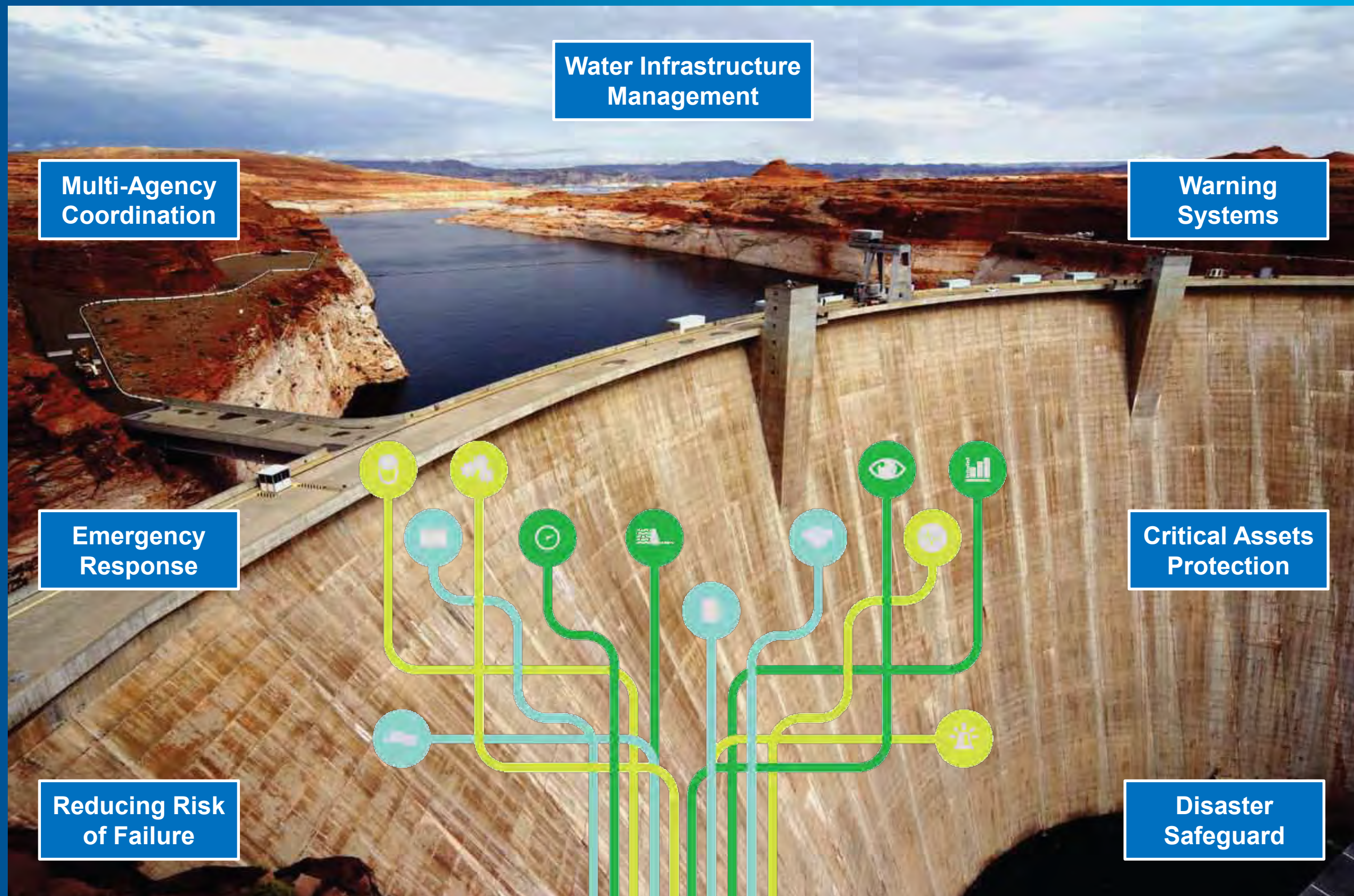
- The Hexagon Group, new partnerships and synergies:
  - **Geosystems Division:** Location and surveillance solutions;
  - **Metrology Division:** Sensors and risk monitoring solutions.
- Challenging evolution from SDI to solutions capable of responding to critical and business related essential needs;
- From Intergraph SDI platform, adding integrated branches to complementary domains like:
  - Emergency planning and response, Critical assets management and Security surveillance;
  - Infrastructures management and public works monitoring;
  - Environmental and energetic improvements.
- SMART Solutions, developed and explored in a tailored fashion addressing several business needs and scopes.





# **SMART** Solutions Examples









**Planning and  
Geoprocessing**

**Agribusiness  
Management**

**Precision  
Auto Piloting**

**Integrated Fleet  
Management**

**Increase  
Productivity**

## Process Planning

Topography and plot design  
Harvesting planning  
Auto-generation of autopilot lines

## MIS Integration

Integration with product planning  
Integration with external systems  
Historical reporting and analysis



## Process Execution

Loading line to the autopilot  
Digital analysis of soil variables,  
Variable rate application

## Process Control

Productivity control  
Aerial survey with drones  
Image analysis of crops

**Remote  
monitoring**

**Reduce Waste**



## Governance & Administration

**EDMONTON: SMARTCITY**

Edmonton is a smart city.

Home to more than one million people, Edmonton is Canada's cultural capital and a hub for commerce and natural resources industries. Edmonton is also a leader in the use of innovation to improve municipal services, from public safety to public works to transit.

With the help of Intergraph, Edmonton manages the demands of a growing population and a thriving economy, making smart decisions that improve the quality of life for its residents.

Read more in [Perspectives](#) magazine.

PORT OF HEXAGON

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INTERGRAPH

Transportation  
Networks

Safety &  
Security

Emergency  
Response

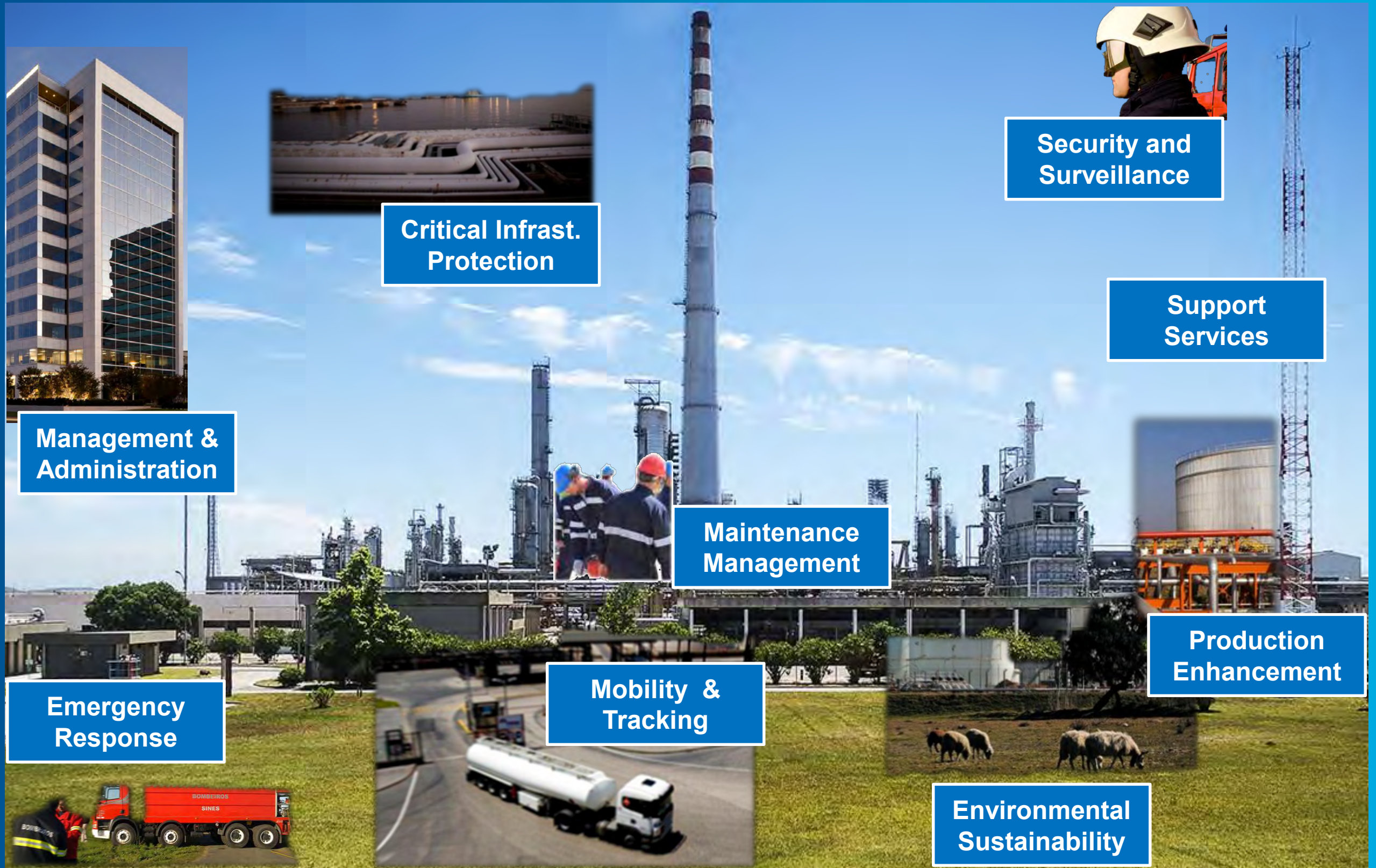
Environmental  
Management

Urban  
Mobility

Civil  
Protection

Infrastructures  
& Utilities









# Questions?