

How “situational awareness” is applied as a predictive model, and how research helps mitigating the X-event

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NICE SECURITY

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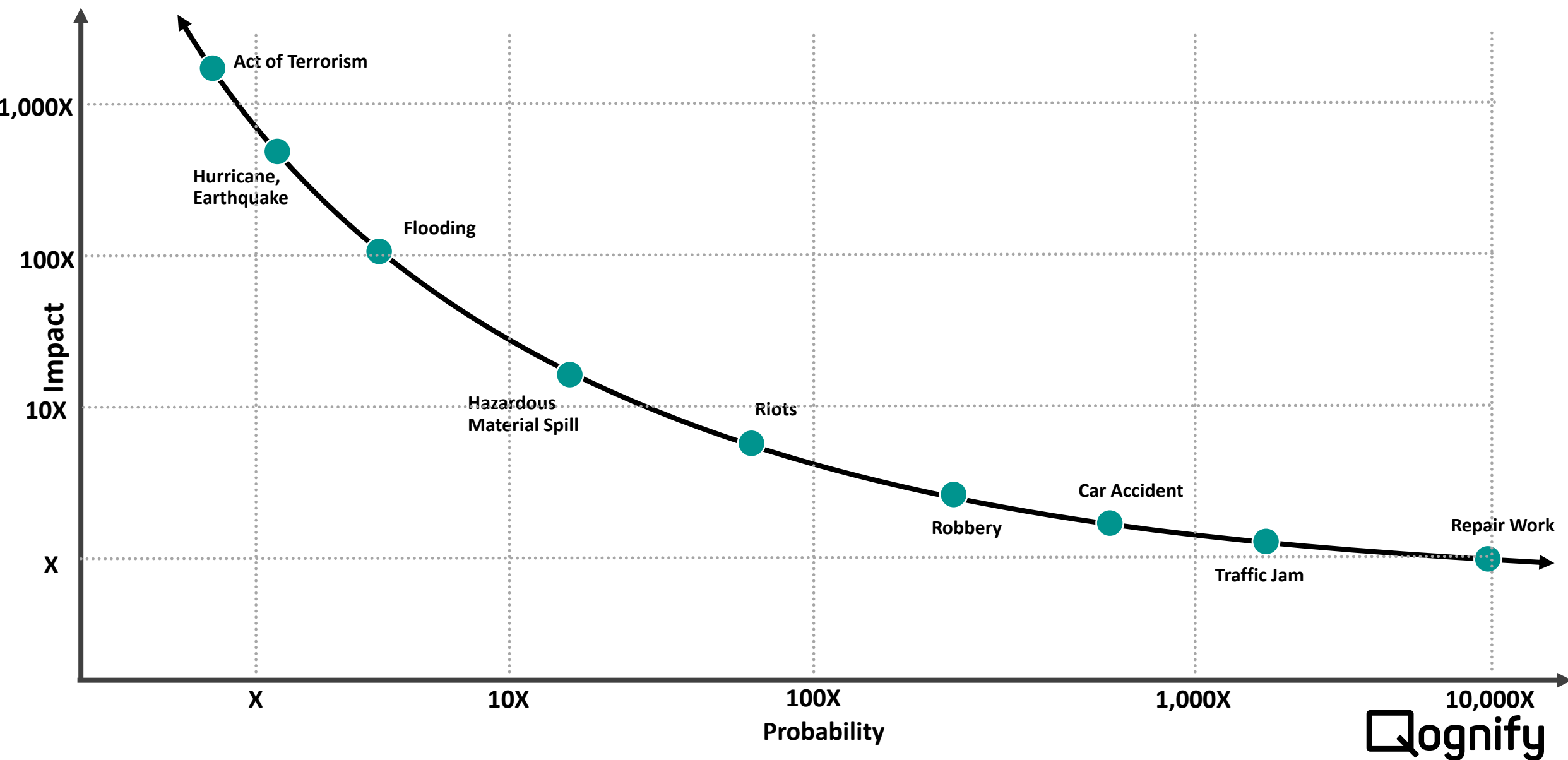
Keeping Cities Safe and Moving



An aerial photograph of a multi-lane highway filled with cars, illustrating a traffic jam. A white speech bubble with a tail pointing towards the bottom right is overlaid on the left side of the image. Inside the bubble, the text "Handling Cities Situation's Spectrum" is written in a bold, white, sans-serif font.

Handling Cities Situation's Spectrum

City's situations spectrum



Implications of Long Tail Incidents – Road Closures

- Direct cost to respond to a **road accident** - **\$100,000/hour**
- If **HAZMAT** is involved the cost increases to **\$250,000/hour**
- Overall Economic Impact for a **major road closure** – **\$800K to \$1M /hour**



Colorado incurs direct annual losses of **\$47 million** and **\$250 million** in GDP due to road closures

City - a complex environment

Difficult to coordinate
response in real time

Slowed decision
making

Inefficient staff
deployment

Costly delays,
shutdowns



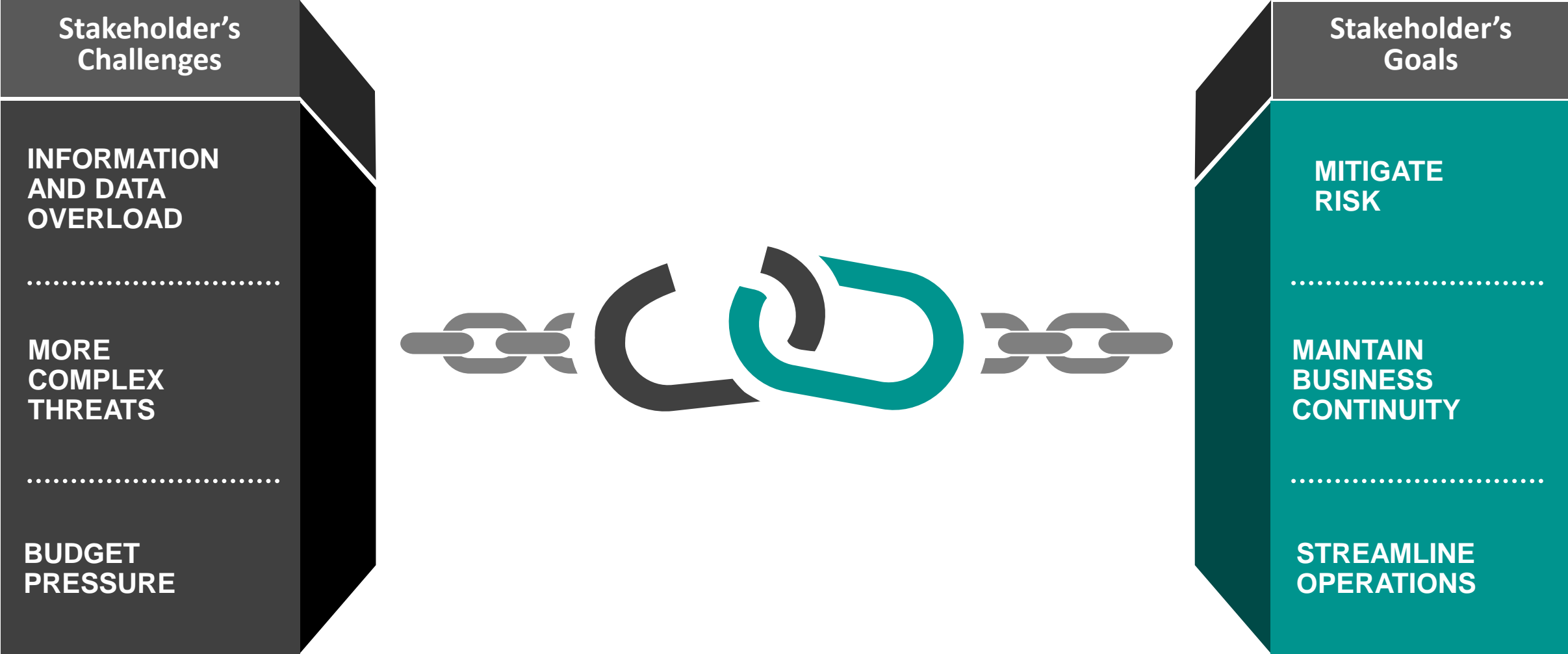
 **Sensors**

 **People**

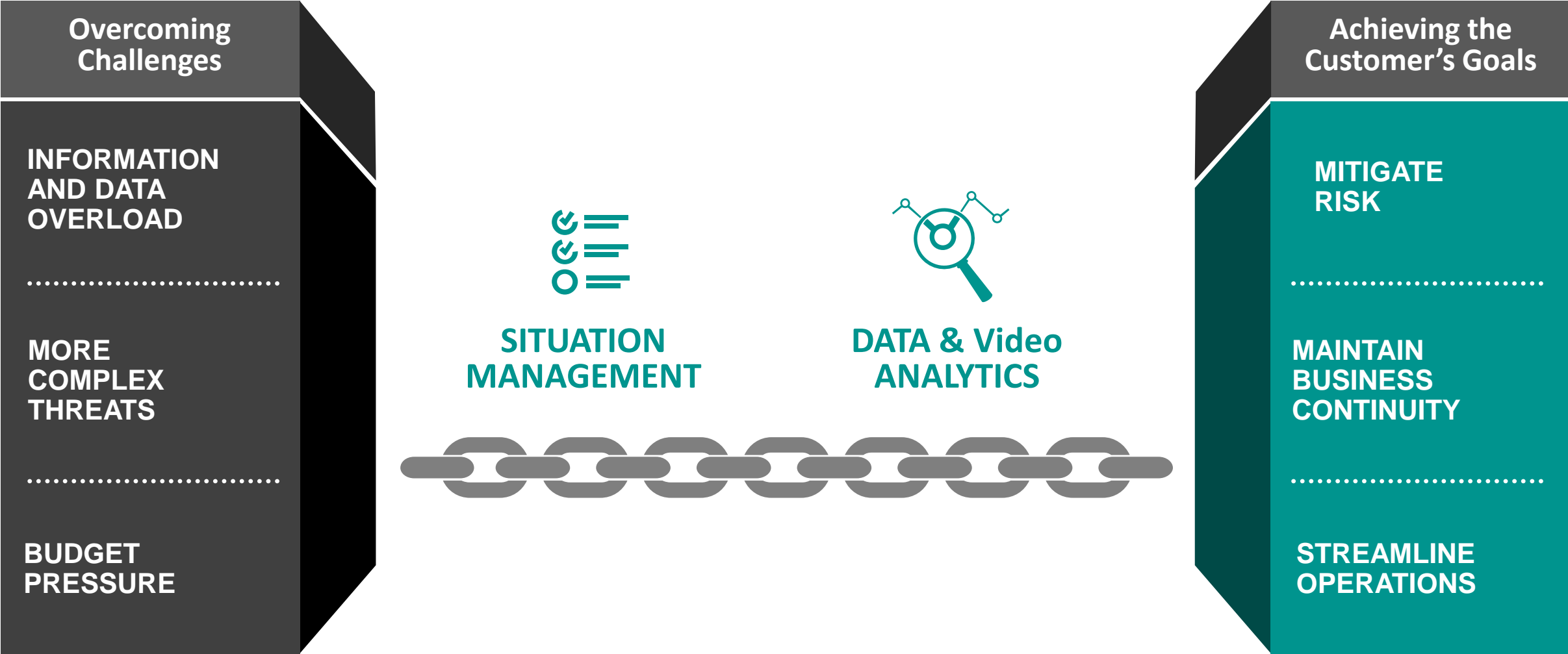
 **Systems**

 **Processes**

The challenge



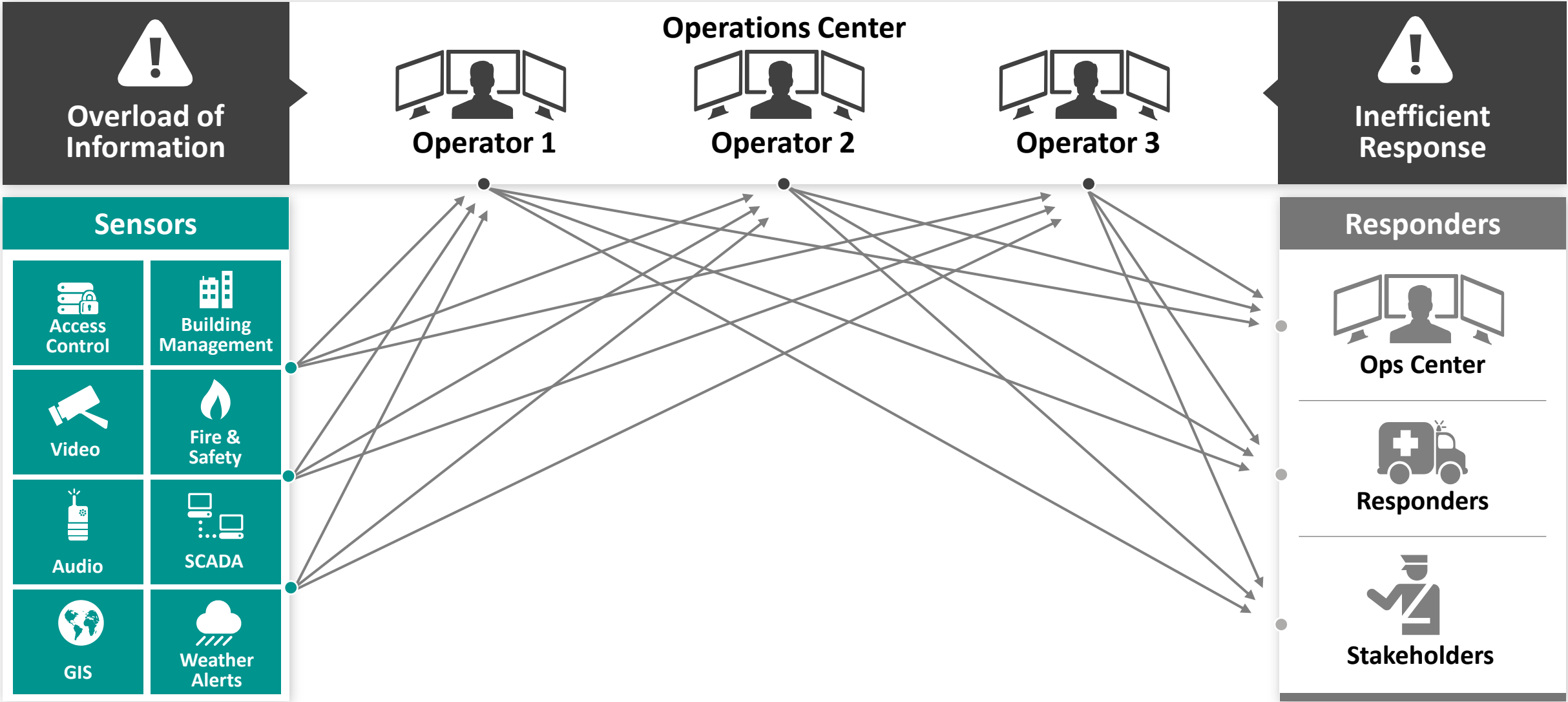
The solution



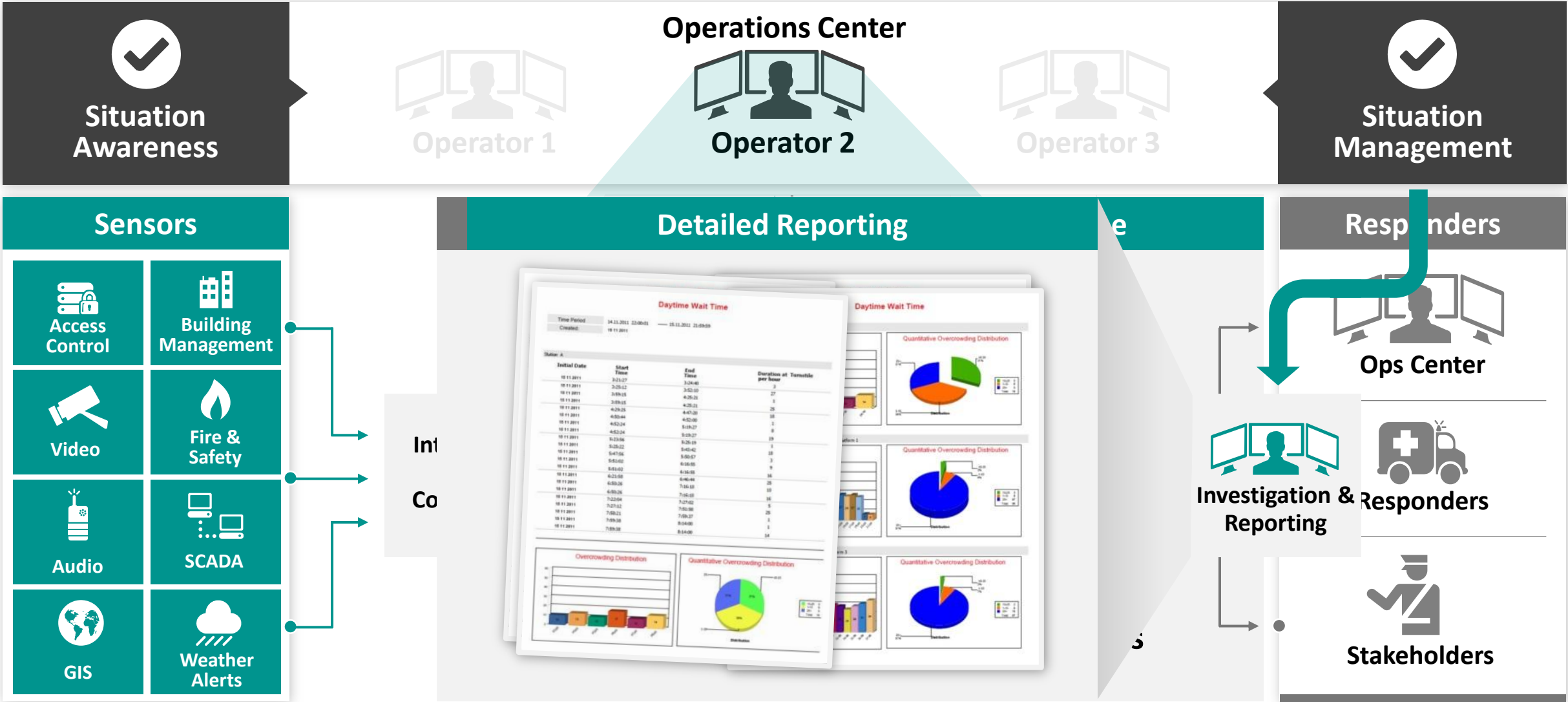


The Evolution to Safer and Smarter City

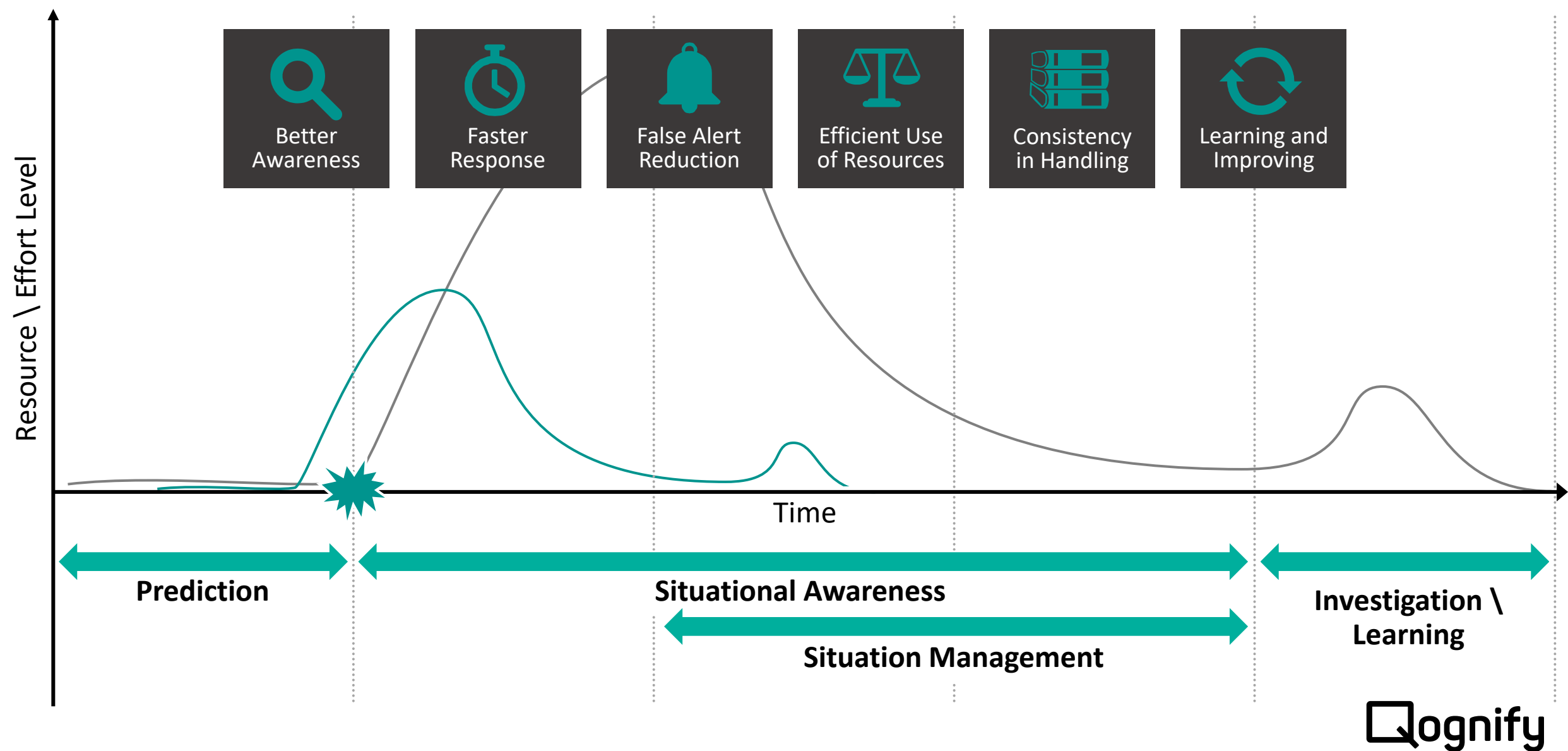
The situation today



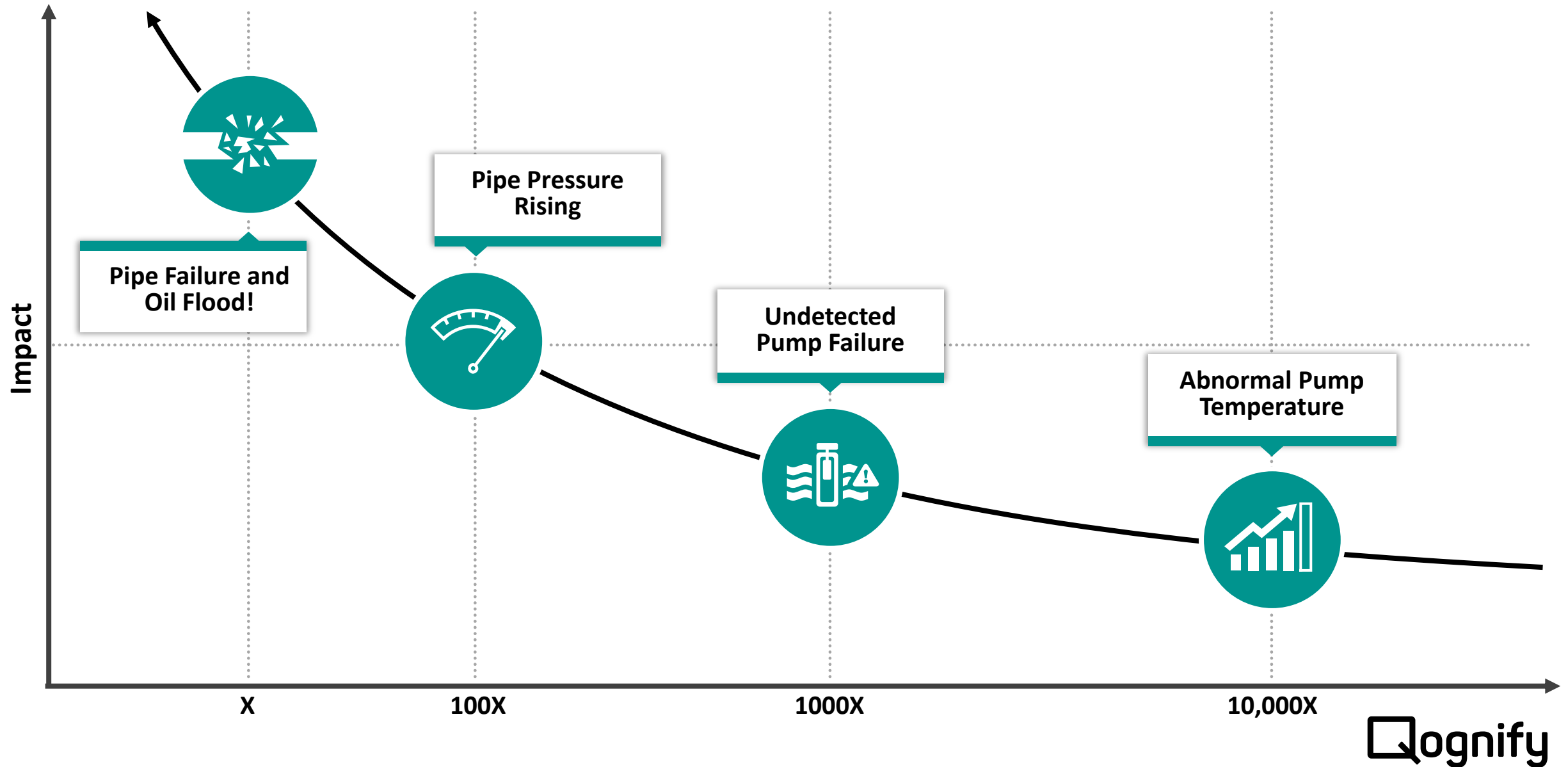
Advanced Situation Management



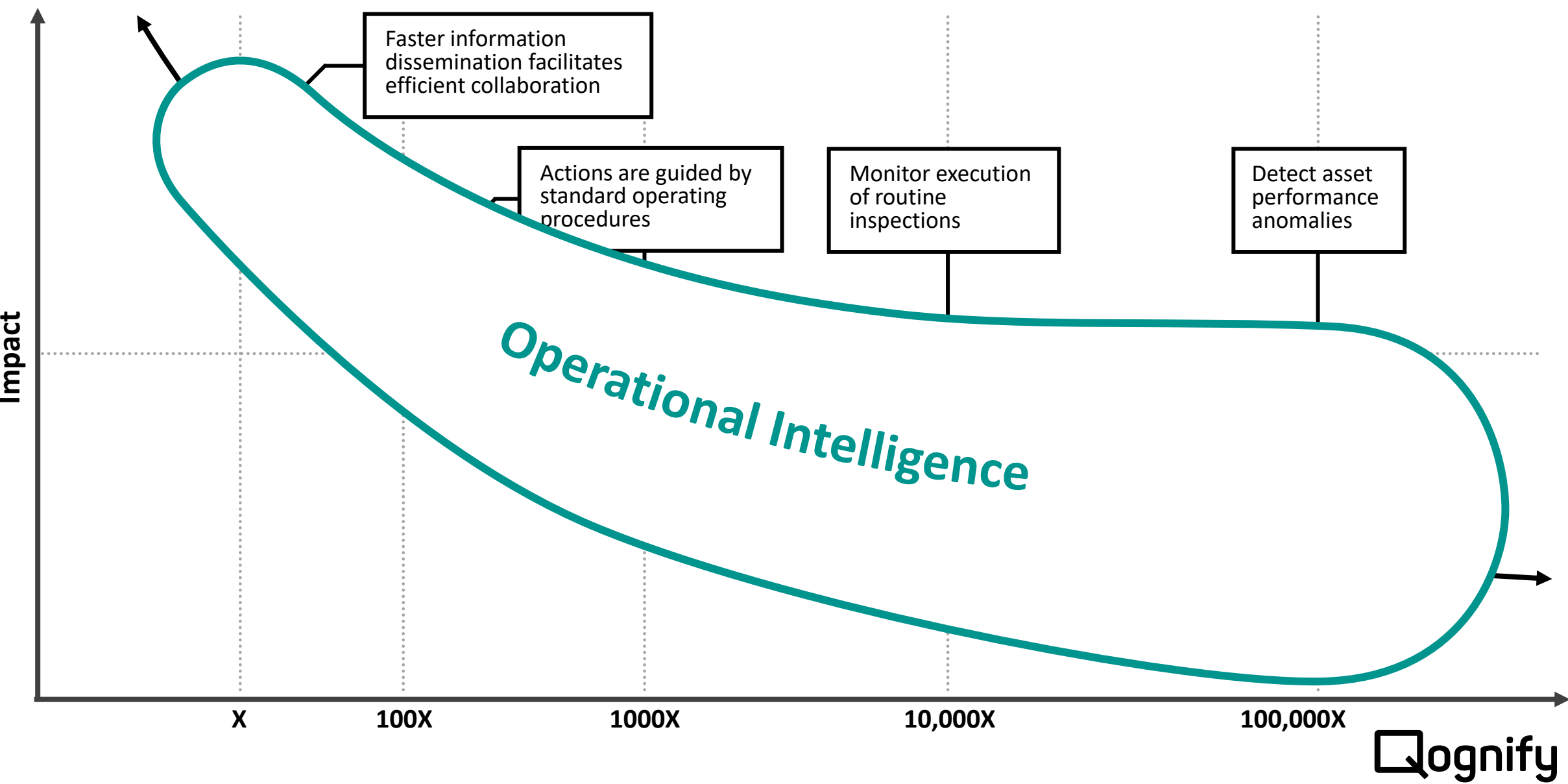
Handling the complete incident lifecycle



Escalation cycle – from a daily event to an X-Event



Holistic management of city situations' spectrum





Qognify Experience

World's Critical Facilities and Landmarks...

Eiffel
Tower



New York
City



London
Underground



Los Angeles International
Airport



New Jersey
Transit



Beijing
Airport



...And world's large and sensitive events

| | | |
|--|--|--|
| New Jersey | Sochi | Glasgow |
|  |  |  |
|  |  |  |
| New Delhi | Queensland | Presidential Debate (University of Denver) |

Glasgow – Commonwealth Games



Big Data and Operational Intelligence

Transforming Data Into Operational Intelligence



Intelligence

From a single incident to multiple incidents & overall view of the business

Advanced analytics and reporting tools unlock hidden insights
– Operational Intelligence



Action

Automated and actionable procedure

– Adaptive workflows transform best practices into SOPs
– Visualization of actionable data



Information

Situational Awareness

– Powered by correlation and analysis
– Common Operating Picture (COP)



Data

Black Box

– Integrates and collects structured and unstructured data sources

The pioneers that lead the new paradigm shift



PUBLIC TRANSPORT



AIR/SEA PORTS



UTILITIES



BANKS



CRITICAL FACILITIES



San Antonio Military Medical Center



A large white speech bubble outline is positioned on the left side of the slide. It has a rectangular body and a small tail pointing towards the bottom right.

Thank You