Cognitive Cities
The future of SMART Cities
Qognify

Cognitive Cities

Cognitive city

Cognitive city is a term which expands the concept of the *smart city*[1] with the aspect of cognition. A cognitive city differs from conventional cities and smart cities in the fact that it is steadily learning through constant interaction with its citizens through advanced information and communications technologies (ICT) and that, based on this exchange of information, it becomes continuously more efficient, more sustainable and more resilient.

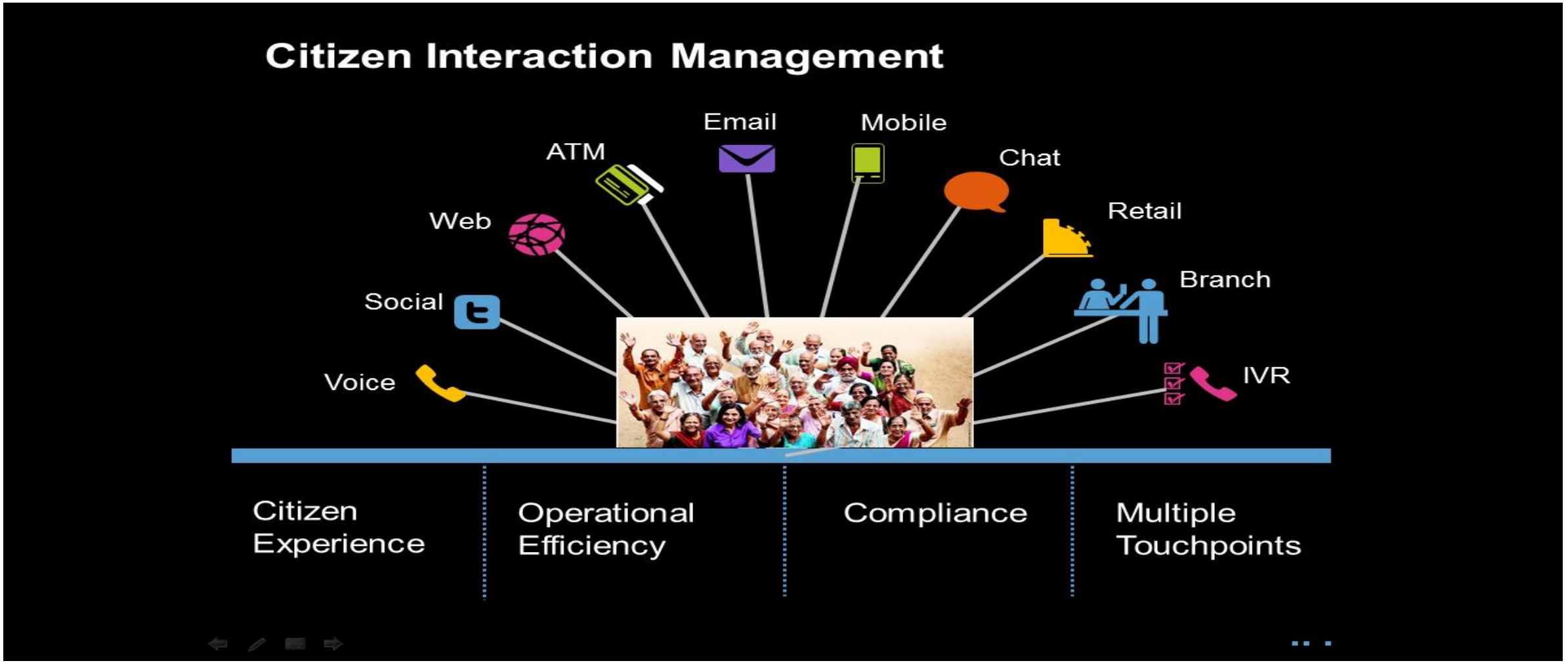
Cognition
Noun
conscious mental activities : the activities of thinking, understanding, learning, and remembering

Cognitive
Adjective
1: of, relating to, being, or involving conscious intellectual activity (as thinking, reasoning, or remembering)
2: based on or capable of being reduced to empirical factual knowledge

Artificial intelligence
Noun
1 : a branch of computer science dealing with the simulation of intelligent behavior in computers
2 : the capability of a machine to imitate intelligent human behavior

- *Dictionaries*
- *Lexicons*
- *Ontology*
- *Categorizations*
- *Natural Language*

Citizen Interaction Management



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Evolution of Qognify's Situation Management

Situation Management (SM)

- **Automation & Correlation**
- **Situational Awareness**
- **Situational Management**

Operational Intelligence Center (OIC)

- **Monitor Leading Indicators**
- **Snapshot of Current Status**
- **Trend / Pattern Analysis**

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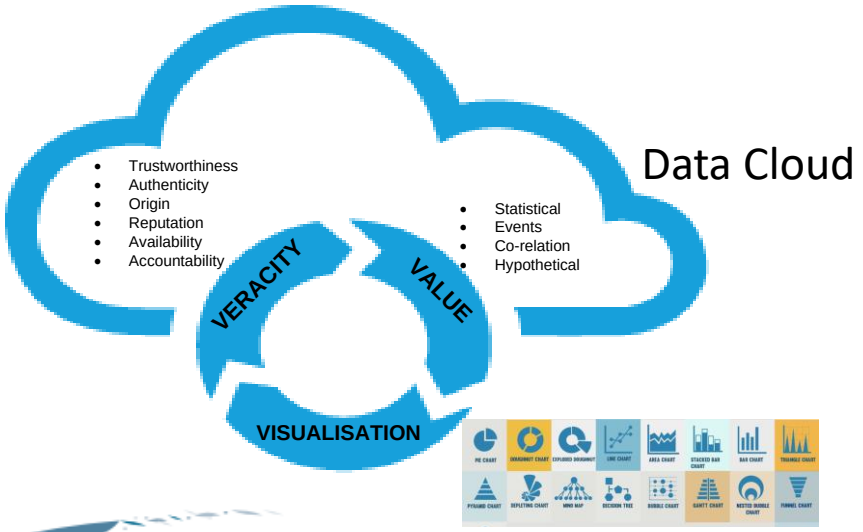
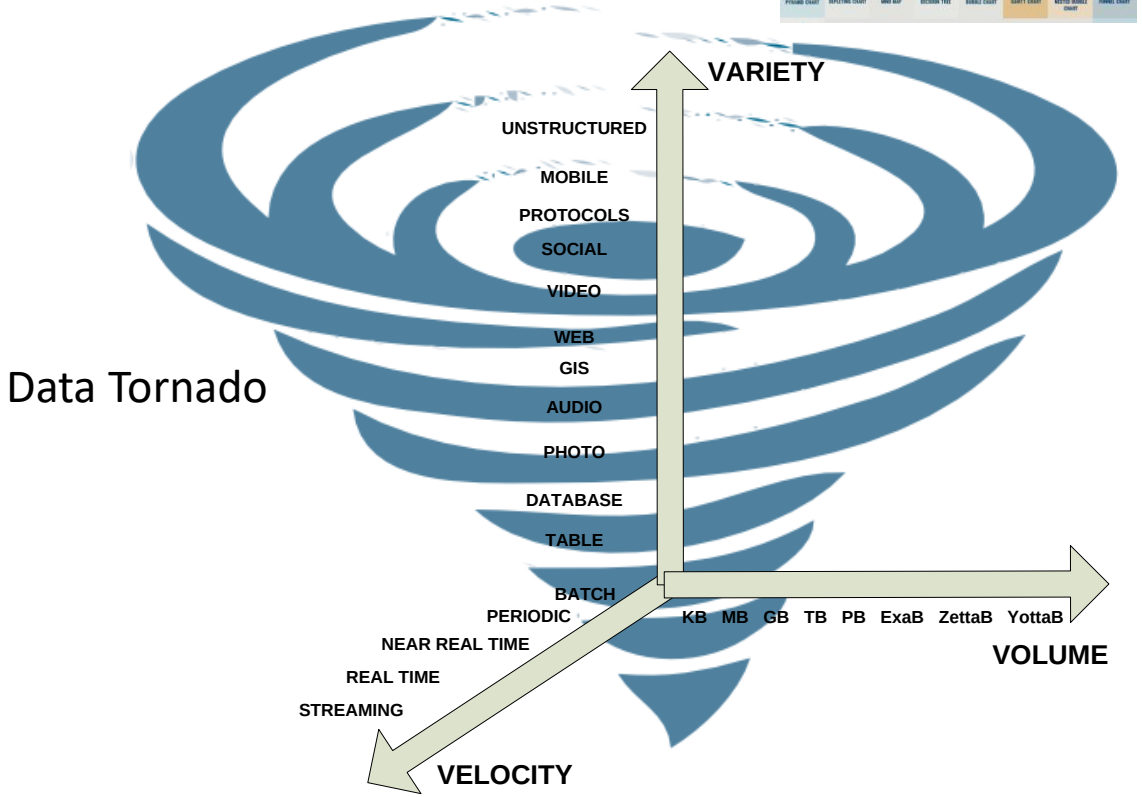
City –
A Complex dataset





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City - a complex environment

Difficult to coordinate response in real time

Slowed decision making

Inefficient staff deployment

Costly delays, shutdowns

Sensors

People

Systems

Processes

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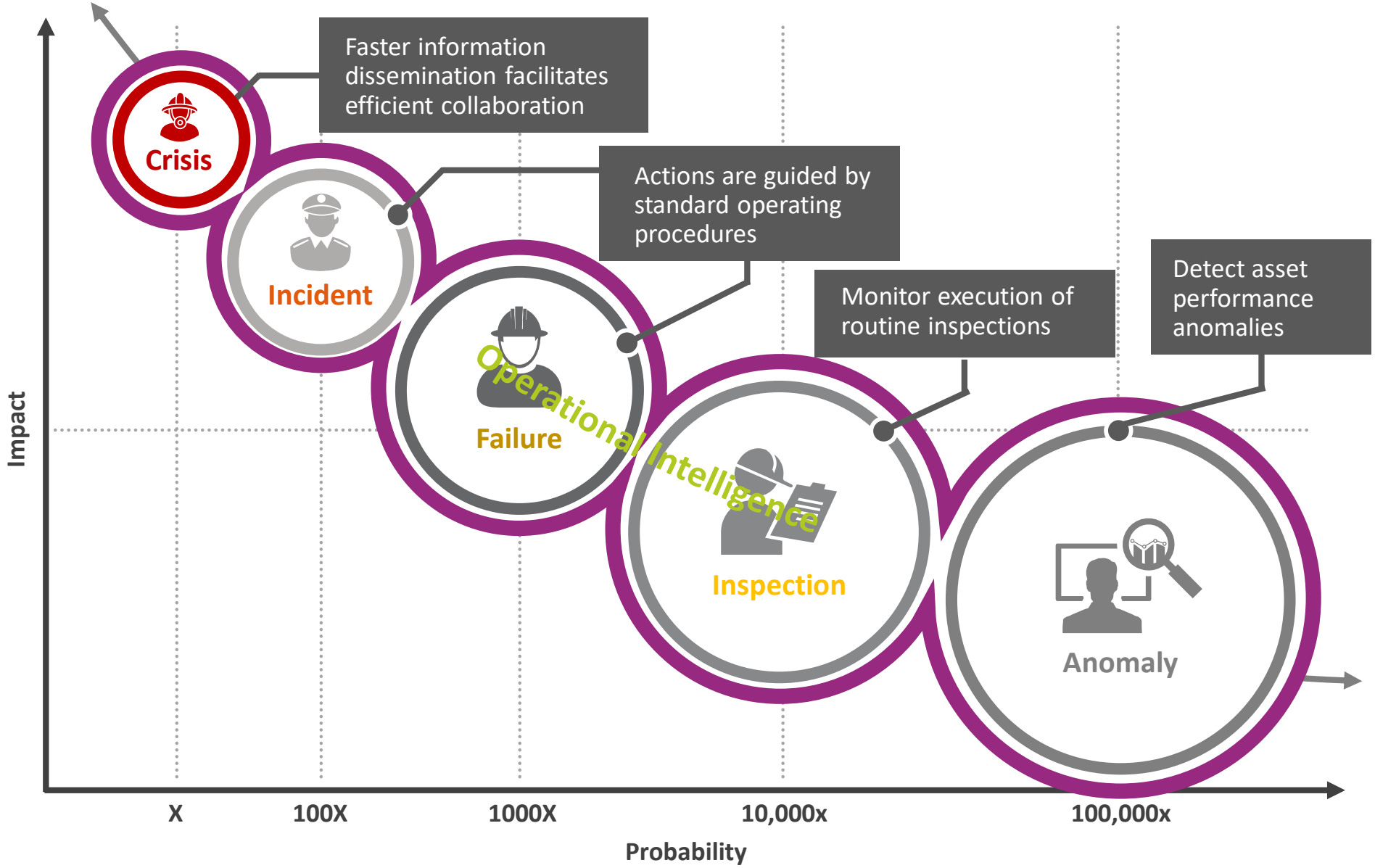
Holistic Management of City Situations' Spectrum



Thank you!