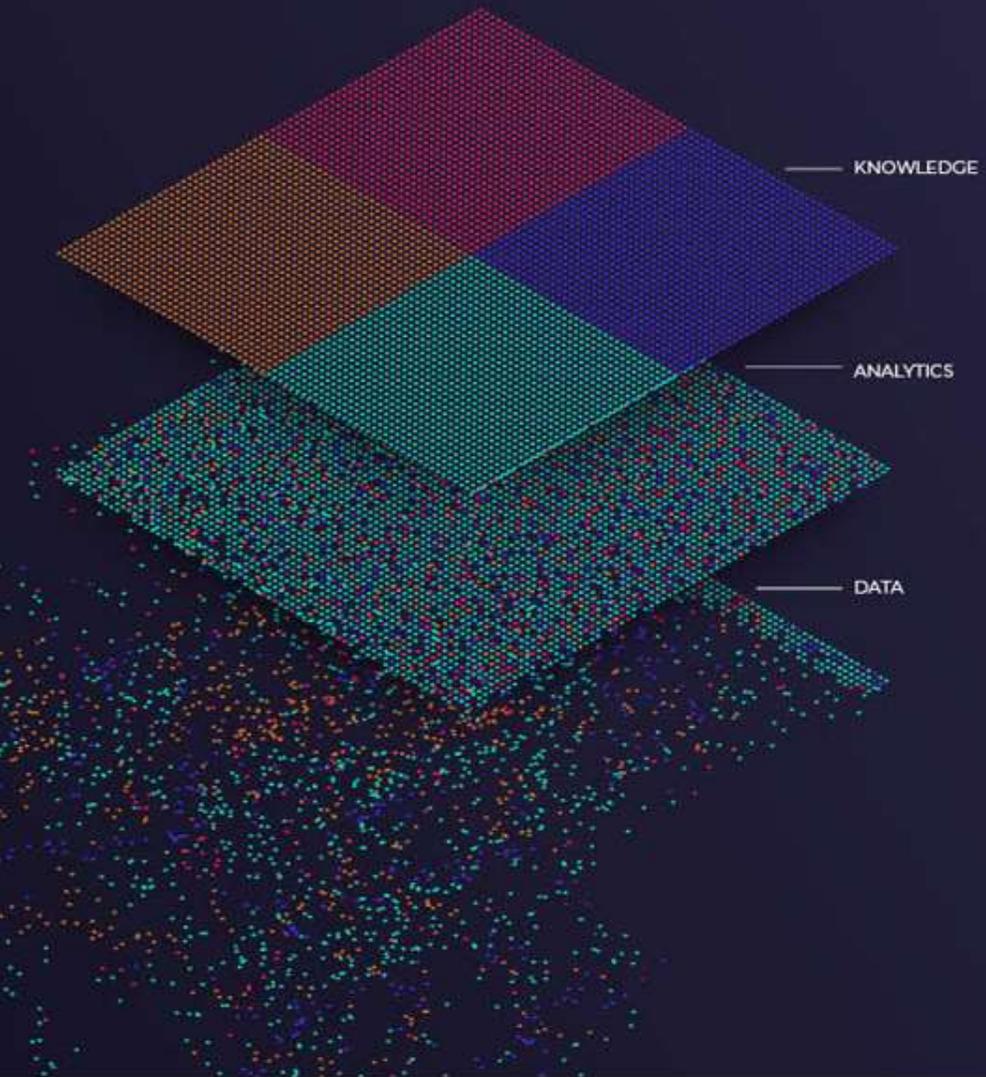


Introduction to Geospatial Knowledge Infrastructure



John Kedar

Jointly Organized by



Partners



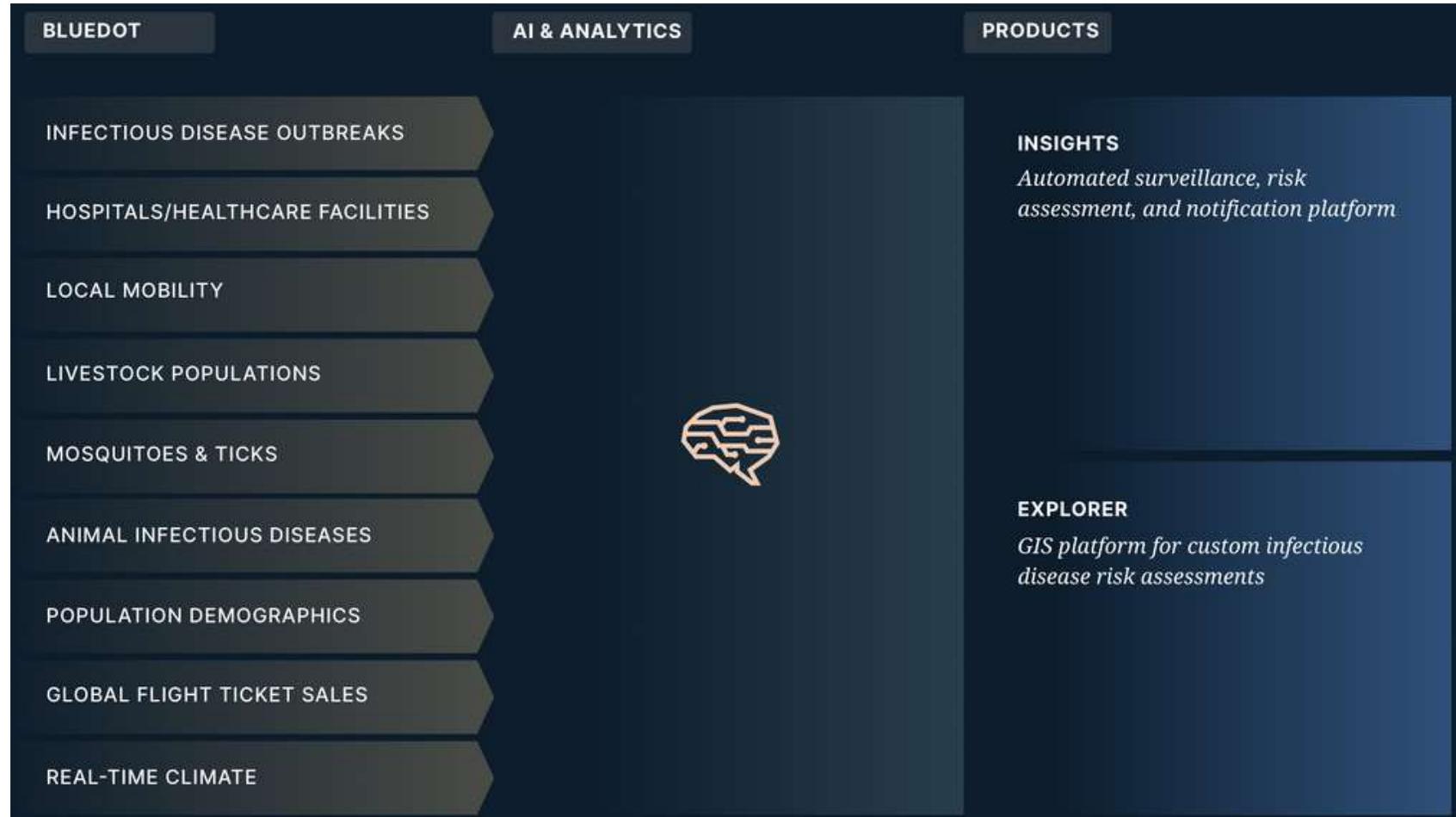


*As a geographically-aware organization, we have to be able to visualize things in all dimensions. The knowledge of where things are happening is very important to us and so data gathering and handling are crucial, says **Air Chief Marshal Sir Stuart Peach GBE KCB DL, Chairman of NATO's Military Committee** (April 2021).*

<https://www.geospatialworld.net/article/geography-matters-to-nato>

Covid - geospatial detection?

*A little after midnight on 30 Dec 19, Canadian AI company **bluedot** picked up on a cluster of “unusual pneumonia” cases happening around a market in Wuhan, China. (CNBC)*



Why a new concept? The fourth industrial revolution

Advanced Analytics and Artificial Intelligence	Web 3.0	Knowledge on demand
Robotics	The growth of Space	Bio-Tech
Internet of Things	Automation	Augmented reality
Cloud and Edge Computing	Renewable energy technologies	Autonomous Systems
Big Data	Ubiquitous sensors	3D printing and bespoke production
Computing power	Continuous high-data connectivity (5G, satellite broadband, fibre)	Personal Smart Devices

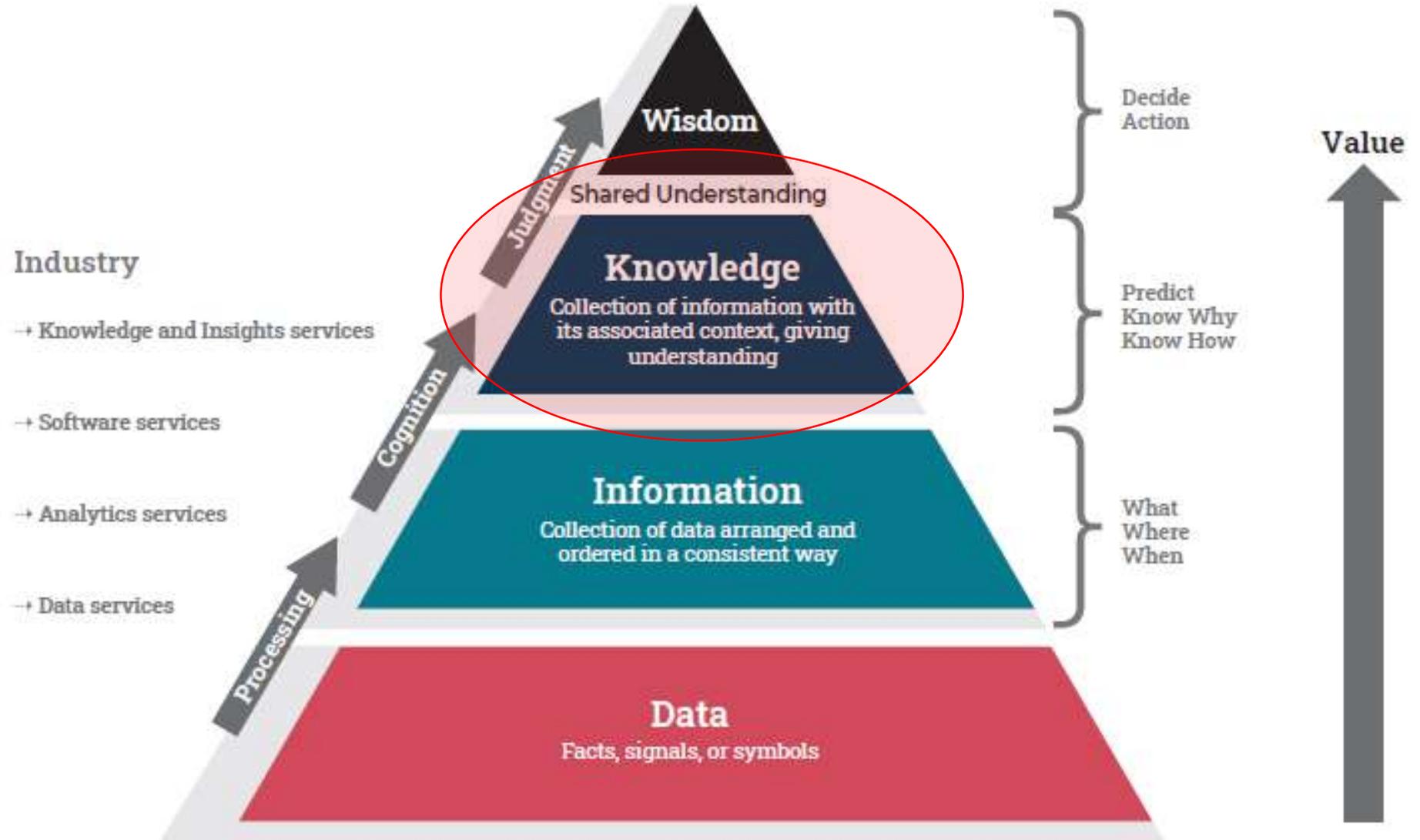
Digital Disruption is accelerating

Understanding the users and use cases

- The user is no longer solely human, but also machine.
- Understand government and business investment priorities.
- Understand current and future requirements along the value chain, and thus determine what knowledge the market can provide and what authoritative data government should provide.
- Be close to user communities across all industry and government sectors, not just today's customers but with industry associations or government bodies looking at future development.
- Use cases are built collaboratively, data/apps/services, and based on the knowledge required for the outcomes desired.

Why a new concept? Expectations are changing

Knowledge on demand



Fundamentals of Geospatial Knowledge Infrastructure (1)



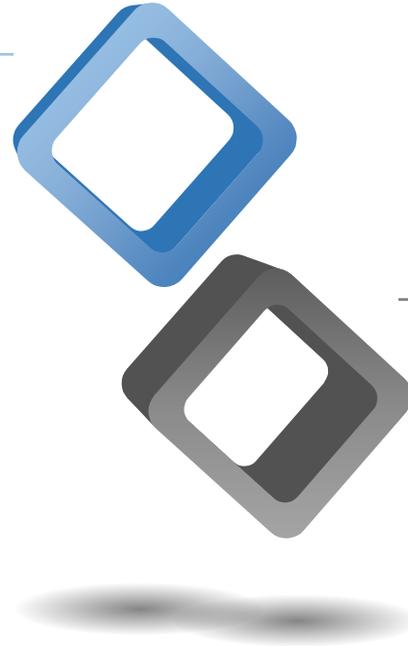
• Vision

Geospatial Knowledge at the heart of tomorrow's global digital society.

Fundamentals of Geospatial Knowledge Infrastructure (1)

Vision

Geospatial Knowledge at the heart of tomorrow's global digital society.



Definition

A Geospatial Knowledge Infrastructure provides a blueprint to integrate digital economies, societies and citizens with geospatial approaches, data and technologies and in so doing deliver the location-based knowledge, services and automation expected in the 4IR age.

Fundamentals of Geospatial Knowledge Infrastructure (1)

Vision

Geospatial Knowledge at the heart of tomorrow's sustainable digital society.

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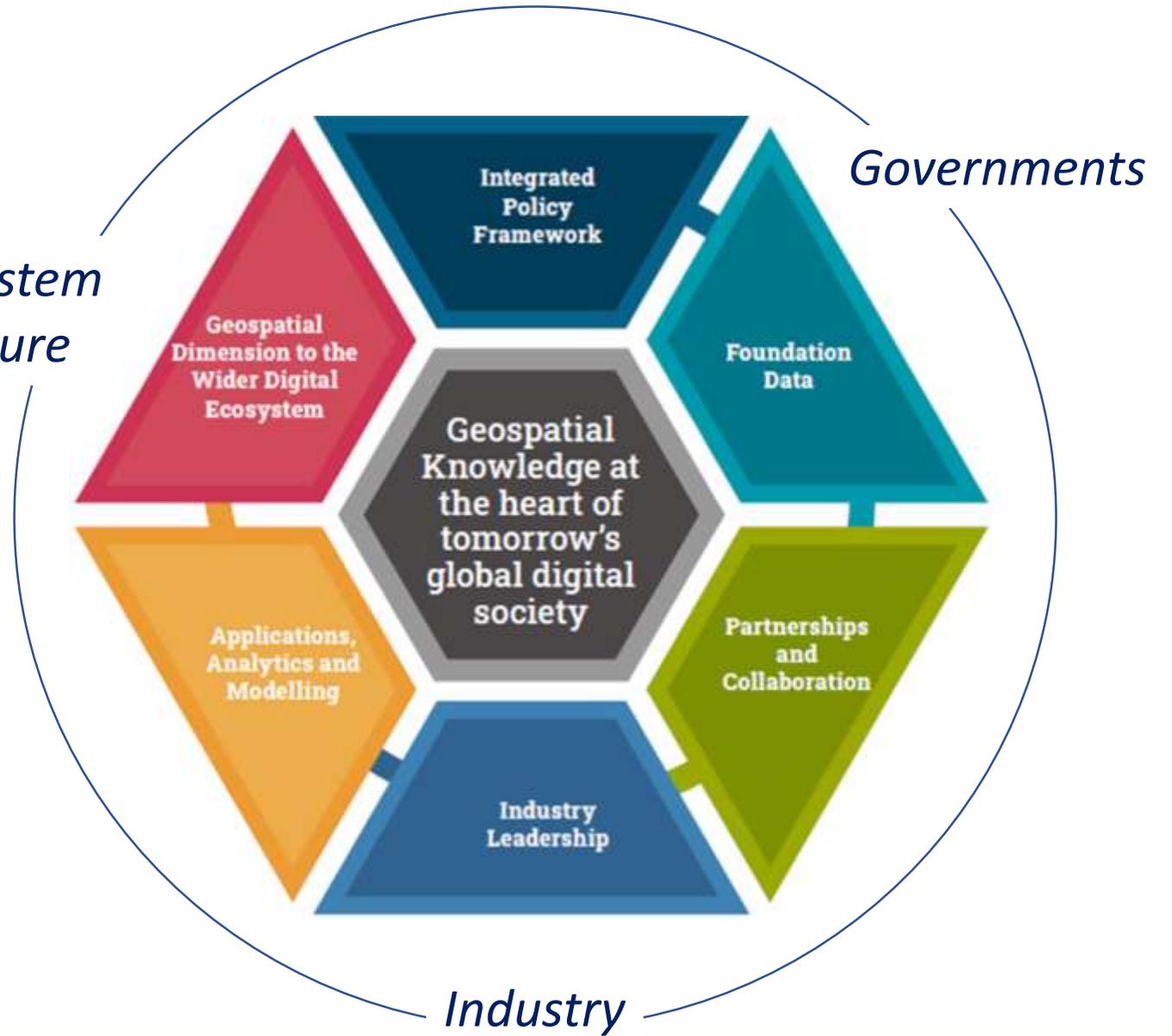


Principles

- Knowledge focus.
- Integrate with wider digital infrastructures.
- Led by users along the value chain.
- Achievable actions now then scale.
- Agility.
- Decentralised.
- Predictive.

GKI Elements

*Digital ecosystem
& infrastructure*



Geospatial Knowledge Infrastructure at the heart of tomorrow's society and economy

A Journey

To find out more:

<https://geospatialmedia.net/gki-campaign.html>

