Introduction to Geospatial Knowledge Infrastructure

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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
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

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

**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**
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.
Vision
Geospatial Knowledge at the heart of tomorrow’s sustainable 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.

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

Governments

Geospatial Knowledge at the heart of tomorrow’s global digital society

Integrated Policy Framework

Foundation Data

Partnerships and Collaboration

Industry Leadership

Applications, Analytics and Modelling

Geospatial Dimension to the Wider Digital Ecosystem

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

A Journey
To find out more:
https://geospatialmedia.net/gki-campaign.html