

The Power of **Where**

Geospatial Knowledge at the Heart of Tomorrow's Global Digital Society

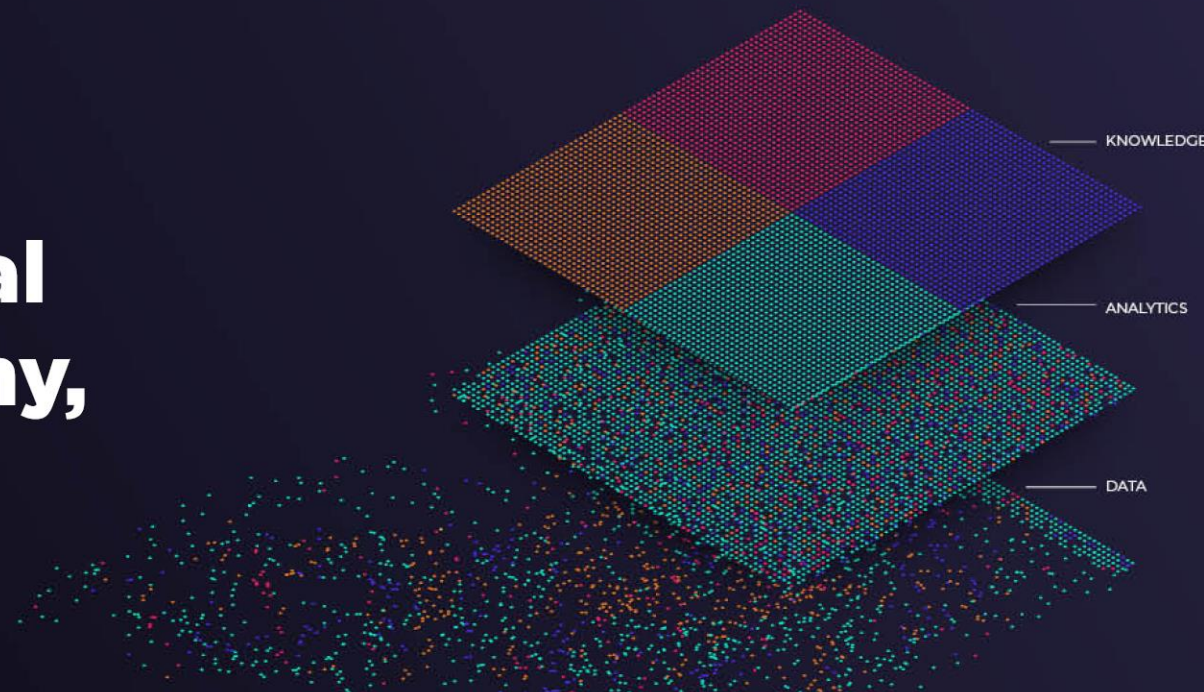
John Kedar

19th July 2022



PROJECT

Advancing Role of Geospatial Knowledge in World Economy, Society and Environment

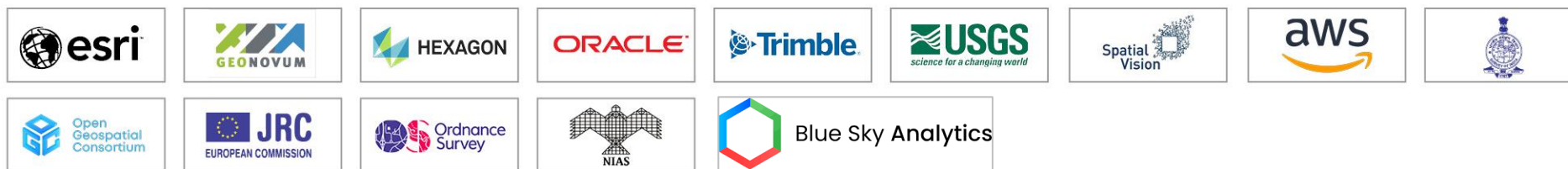


Partners

Phase 1



Phase 2



Jointly
Organized by



Why a new concept? Users are changing



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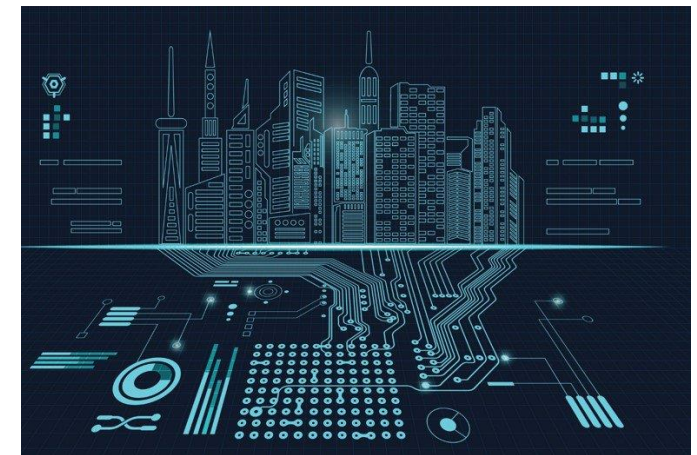
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Why a new concept? Geospatial is changing



“These companies do not recognise a ‘geospatial sector’, it is just data, analytics and user interfaces in which location plays a greater or lesser part. Innovative geospatially enabled businesses are the norm and set high user expectations.” GKI White Paper



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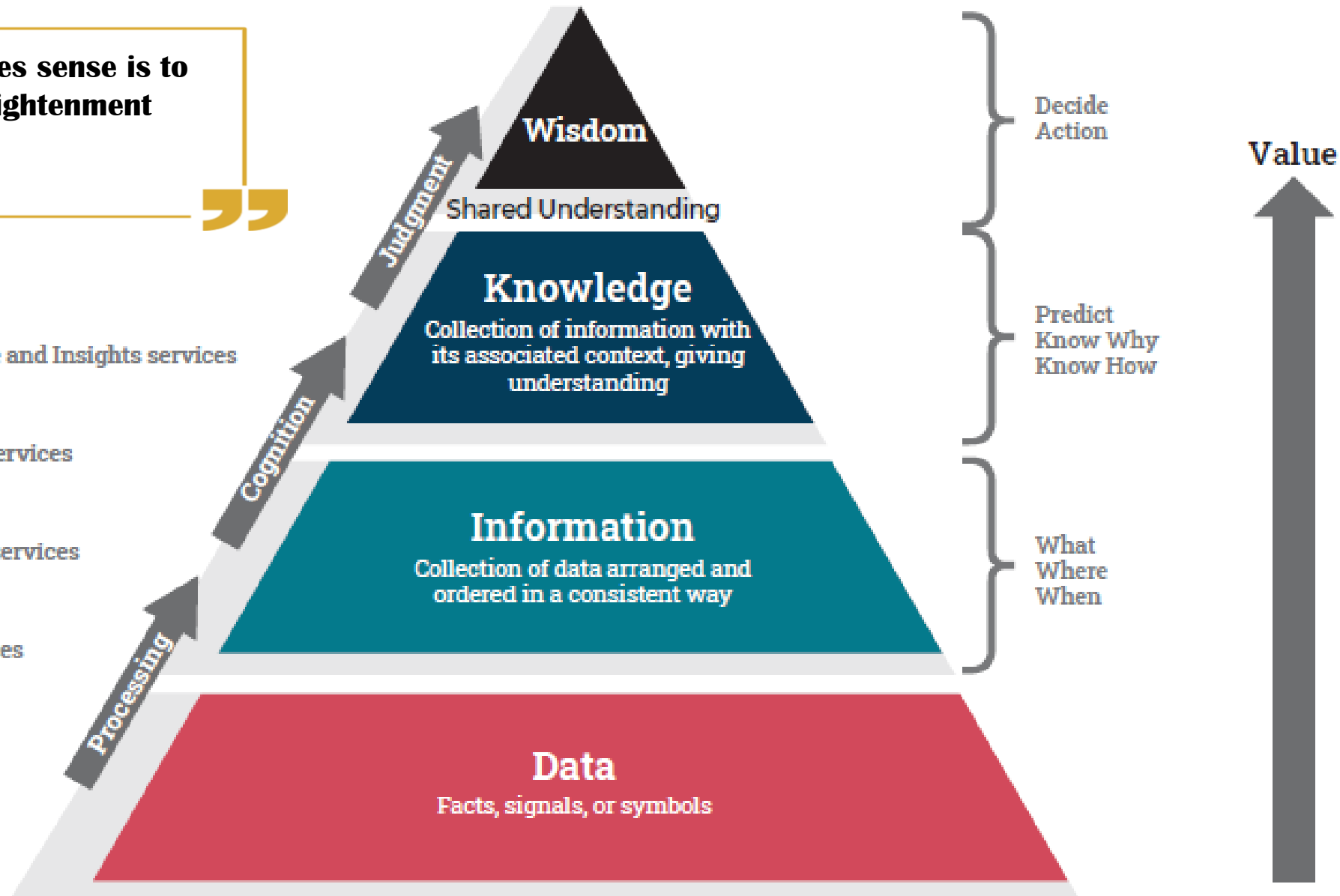
Why a new vision? Expectations are changing

Really, the only thing that makes sense is to strive for greater cognitive enlightenment

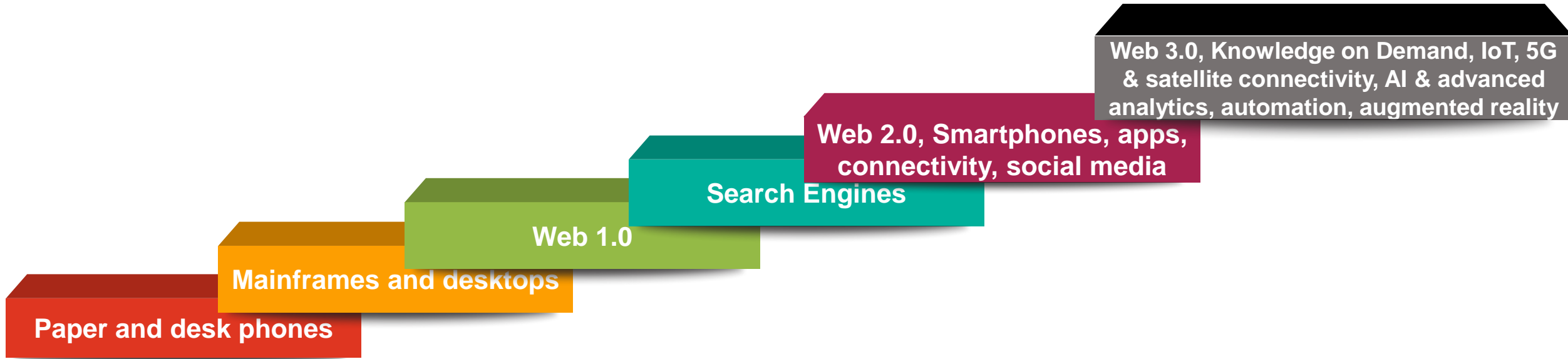
Elon Musk

Industry

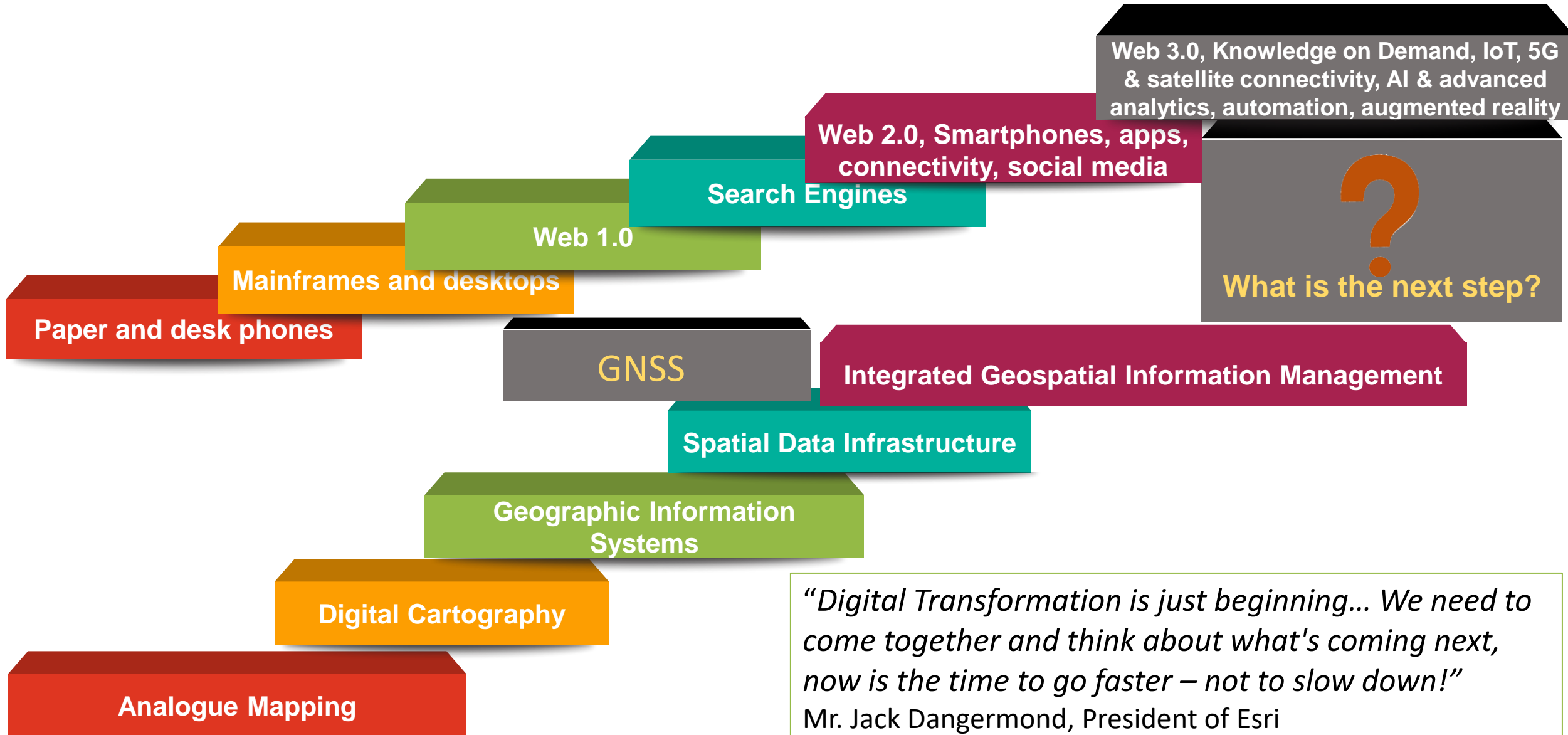
- Knowledge and Insights services
- Software services
- Analytics services
- Data services



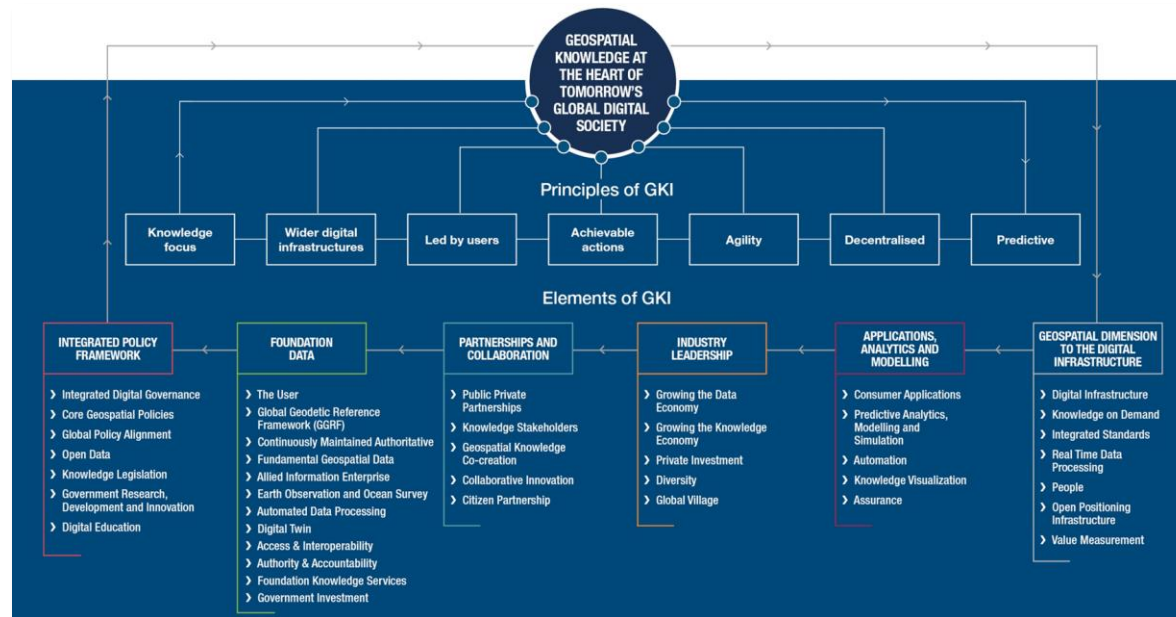
The digital road



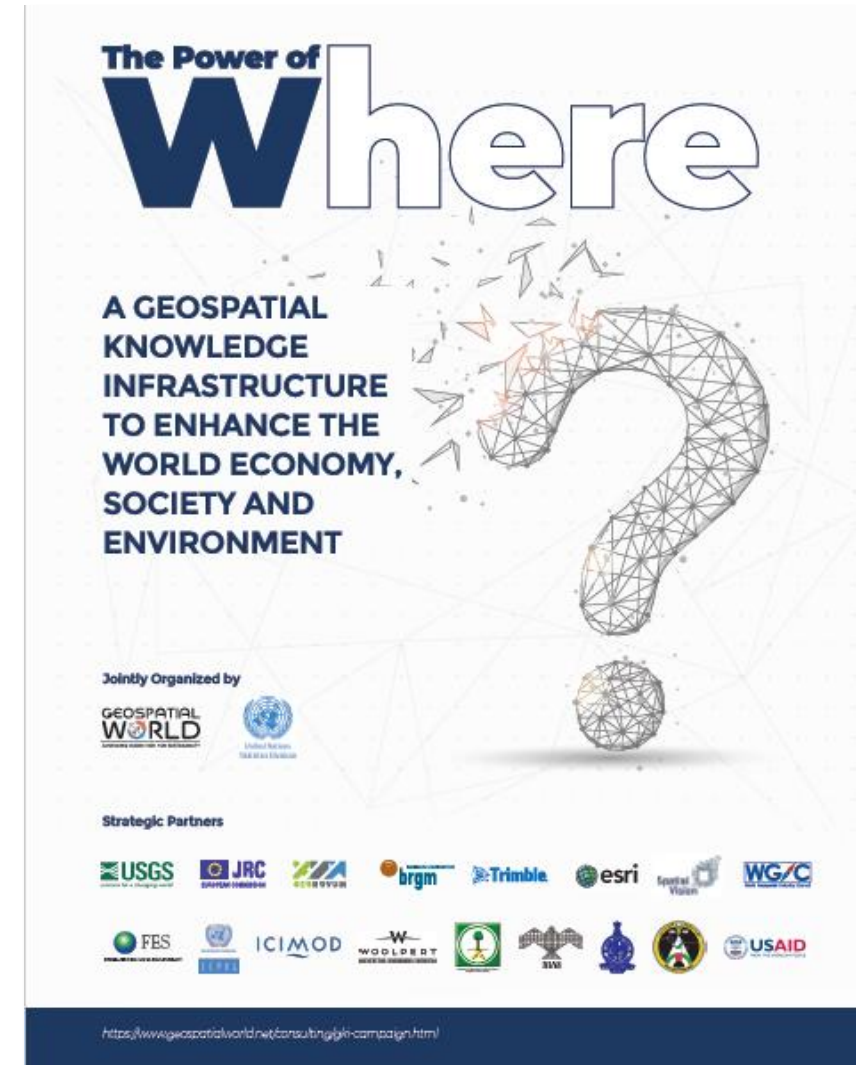
The geospatial road



GKI White Paper



<https://www.geospatialworld.net/gw-assets/pdf/GKI-White-Paper.pdf>



Tomorrow's geospatial knowledge infrastructure (GKI)

Vision

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

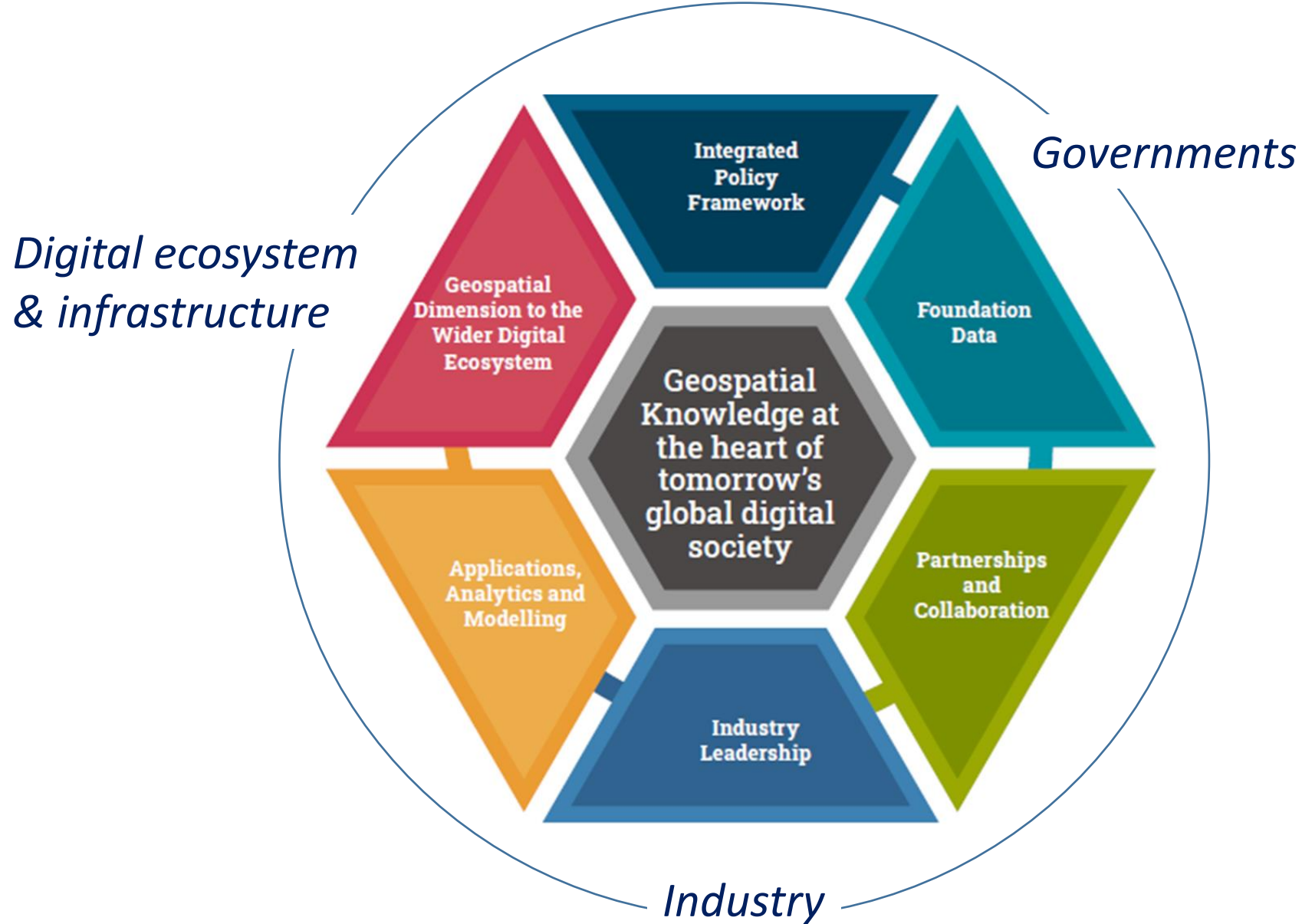
Definition

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.

Geospatial knowledge infrastructure principles

1. Geospatial technology should integrate with established and emerging wider digital infrastructures to be a **single digital ecosystem**.
2. **Knowledge is the focus.** Humans and machines seek knowledge, not data, to make decisions.
3. **Predictive.** Be it in milliseconds or years, geospatial moves **from insight to foresight**.
4. Be **led by users**, based on the knowledge needed, not data and applications available.
5. **Take achievable actions now** and then scale; success cannot be achieved overnight.
6. **Agility is inbuilt.** Innovative, dynamic and agile solutions are far better able to respond to global challenges, technology change and people's expectations in a rapidly developing world.
7. **Decentralized.** The web is naturally decentralized, with data and application value-chains becoming more complex across wider ranges of partnerships.
8. **Collaborative.** To more quickly meet societies' global sustainability challenges, including the digital divide.

GKI elements



GKI Project Year 2 User Industry Focus



Energy Transition



Transport & Infrastructure



Autonomous Driving



Land Administration



Logistics and Supply Chain



Cities



Public Safety and Security



Agriculture

Integrated policy framework



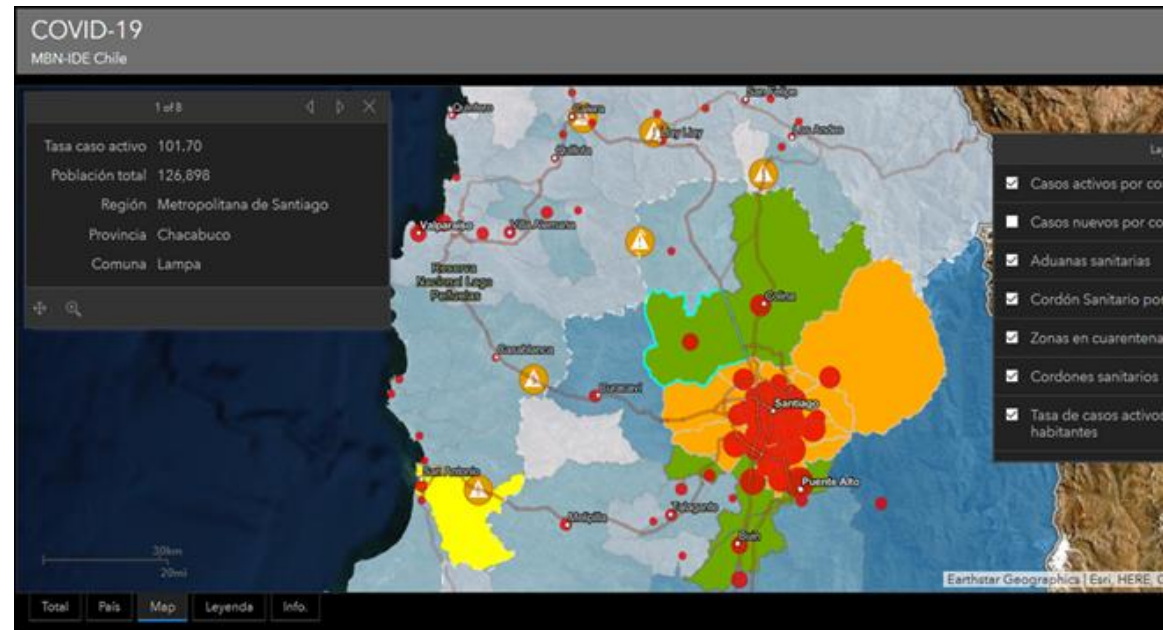
- Improved, integrated, evidence-based government policies and services.
- Established frameworks that maximise the benefits of geospatial knowledge to nations.
- A digital infrastructure and economy.
- Resilient nations prepared for crisis.

Foundation data



- Foundation data as part of a national digital infrastructure.
- Foundation data that utilises 4IR technologies to meet user requirements for continuously updated data.

Partnerships and collaboration



- Widespread cross-sector geospatial knowledge engagement.
- Industry-government geospatial knowledge and foundation data partnerships.
- Diverse ideas - innovative industry.

Industry leadership



Photo: <https://www.geoworks.sg/>

- Increased use of geospatial capabilities across all industry sectors.
- Industry able to meet the exacting requirements of foundation data agencies and at year-on-year lowering prices.
- Recognising that the industry geospatial knowledge ecosystem is broad and growing, professional associations will grow into this space.

Applications, Analytics & Modelling



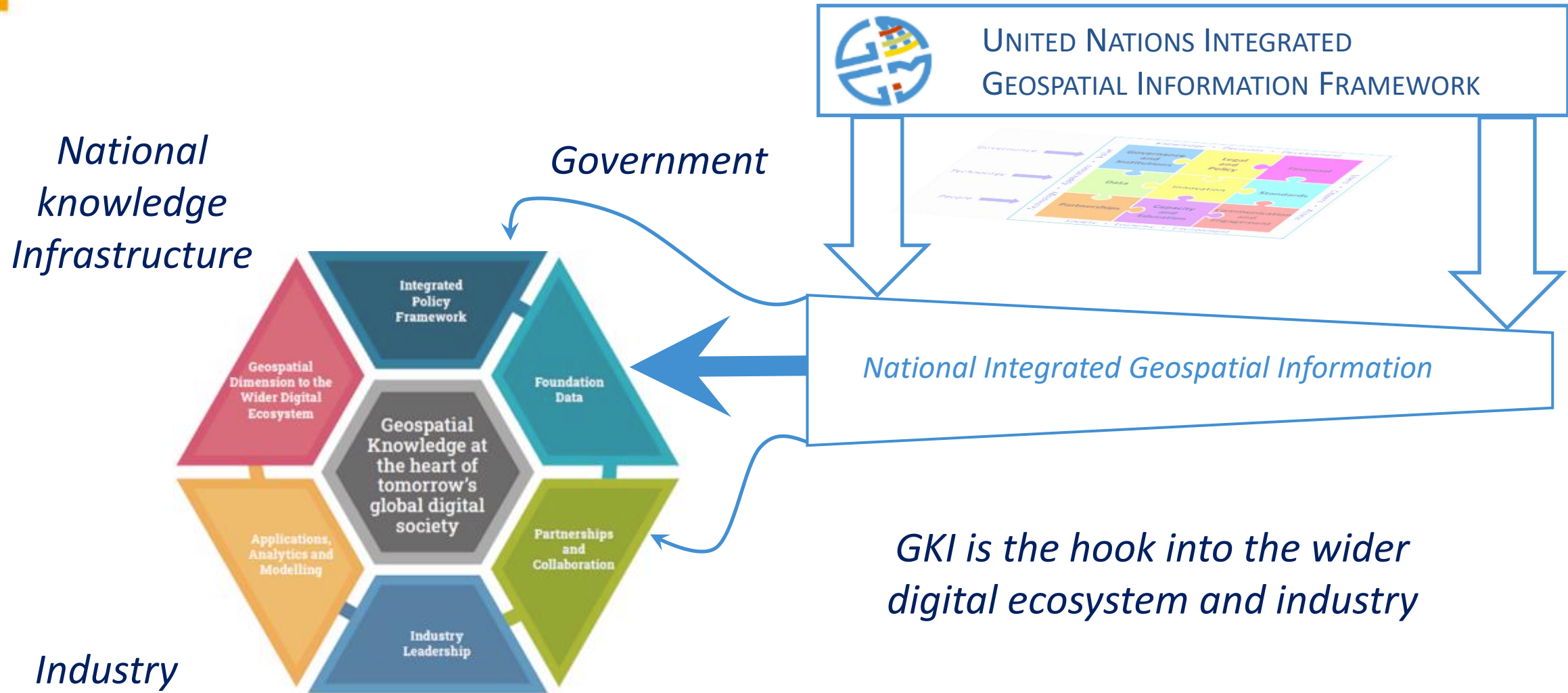
- Widespread use of geospatial tools, data and knowledge within consumer applications.
- Geospatial knowledge that provides prediction and foresight, not hindsight.
- Trust in geospatial derived knowledge for the human or automated use it is to be put.

Geospatial dimension to the wider digital ecosystem



- From individual companies to global institutions, location becomes a fundamental attribute within data and information, and a core element of data infrastructures and business processes.
- Geospatial technologies and standards are seamlessly integrated into web, business and government systems and enterprises.

Relationship between GKI and UN IGIF

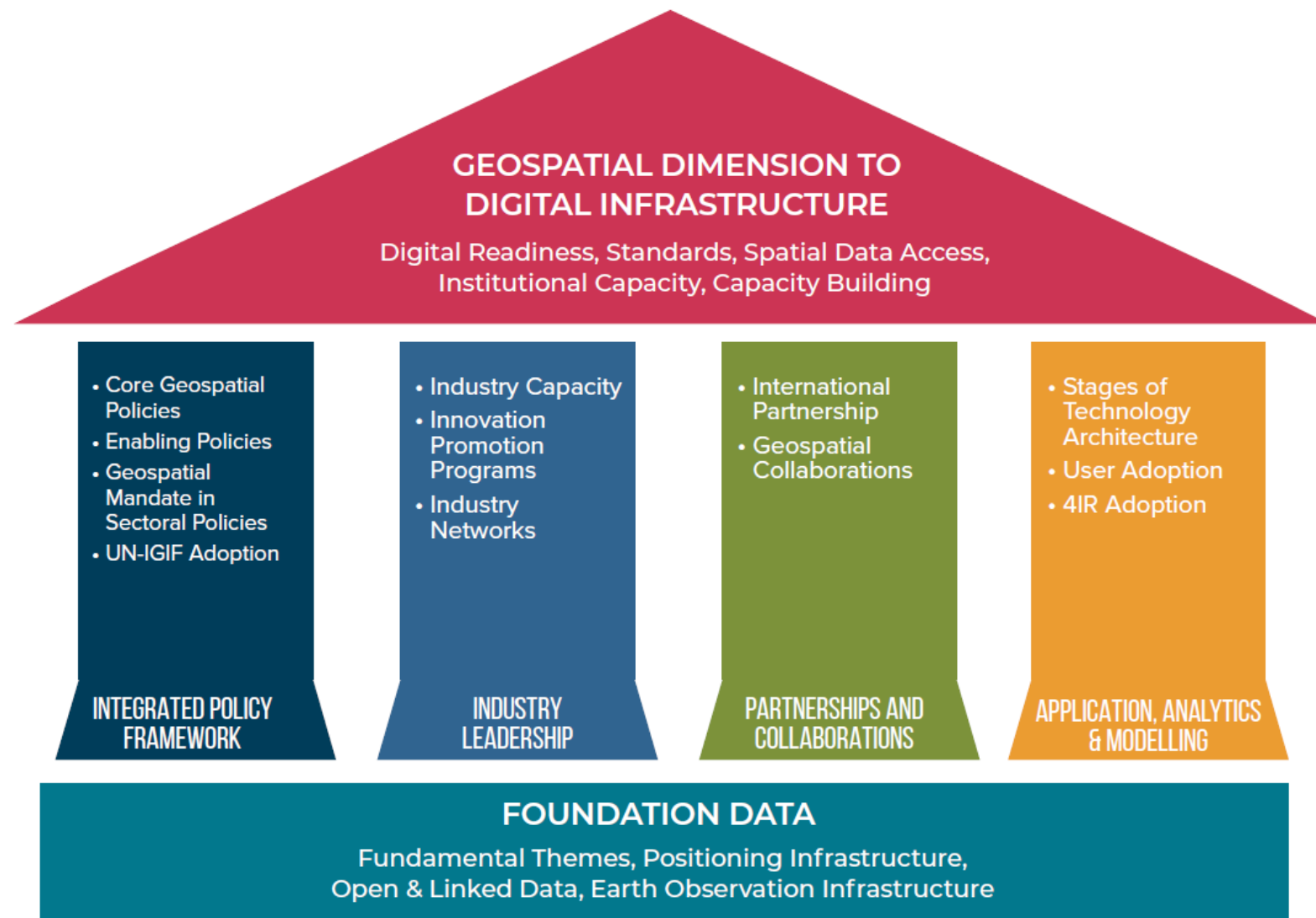


2022 GKI Report – published today



<https://www.geospatialworld.net/consulting/gki-phase-2/report.html>

2022 GKI Report – Readiness Index



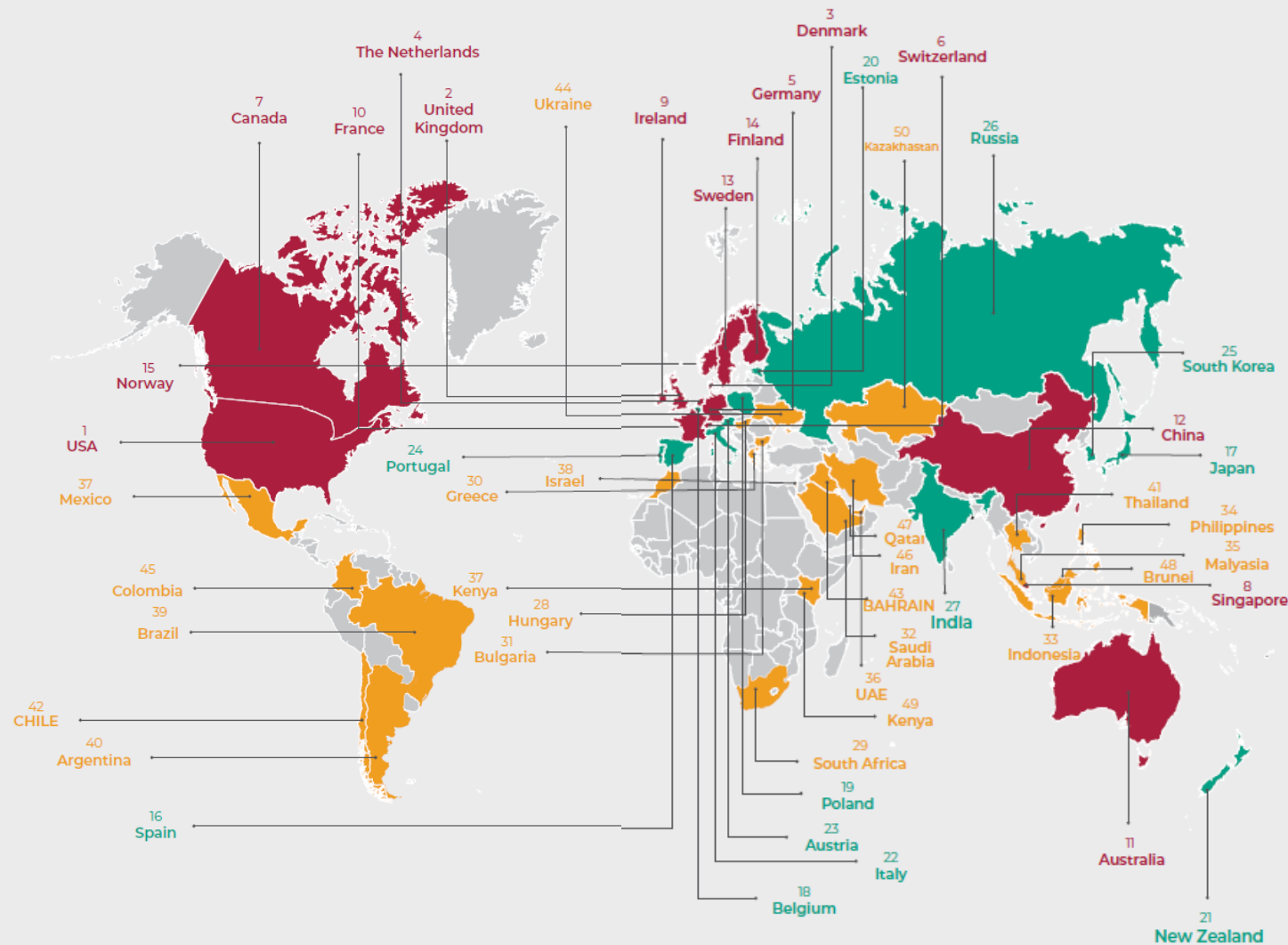
2022 GKI Report – Readiness Index

LEADERS

Rank 2022	Country	Score (0-100)
1	USA	100.00
2	United Kingdom	83.89
3	Denmark	81.52
4	Netherlands	80.27
5	Germany	78.53
6	Switzerland	77.04
7	Canada	75.10
8	Singapore	74.82
9	Ireland	72.09
10	France	72.00
11	Australia	71.69
12	China	71.51
13	Sweden	71.19
14	Finland	70.55
15	Norway	70.21

CHALLENGERS

Rank 2022	Country	Score (0-100)
16	Spain	69.54
17	Japan	69.04
18	Belgium	66.84
19	Poland	65.97
20	Estonia	64.18
21	New Zealand	63.02
22	Italy	62.24
23	Austria	62.16
24	Portugal	60.17
25	South Korea	58.07
26	Russia	58.03
27	India	56.16



ASPIRERS

Rank 2022	Country	Score (0-100)
28	Hungary	55.68
29	South Africa	50.35
30	Greece	47.88
31	Bulgaria	47.47
32	Saudi Arabia	46.93
33	Indonesia	46.92
34	Philippines	46.41
35	Malaysia	46.06
36	UAE	43.30
37	Mexico	41.92
38	Israel	41.64
39	Brazil	41.60
40	Argentina	39.75
41	Thailand	39.25
42	Chile	38.54
43	Bahrain	37.89
44	Ukraine	37.36
45	Colombia	36.96
46	Iran	36.66
47	Qatar	34.76
48	Brunei	32.43
49	Kenya	27.29
50	Kazakhstan	21.95

Geospatial Knowledge at the heart of tomorrow's Public Safety and Security

A Journey

To find out more:

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

GKI White Paper

<https://www.geospatialworld.net/gw-assets/pdf/GKI-White-Paper.pdf>

Phase 2 Report

<https://www.geospatialworld.net/consulting/gki-phase-2/report.html>

