

The Power of **Where**

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

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19th June 2023



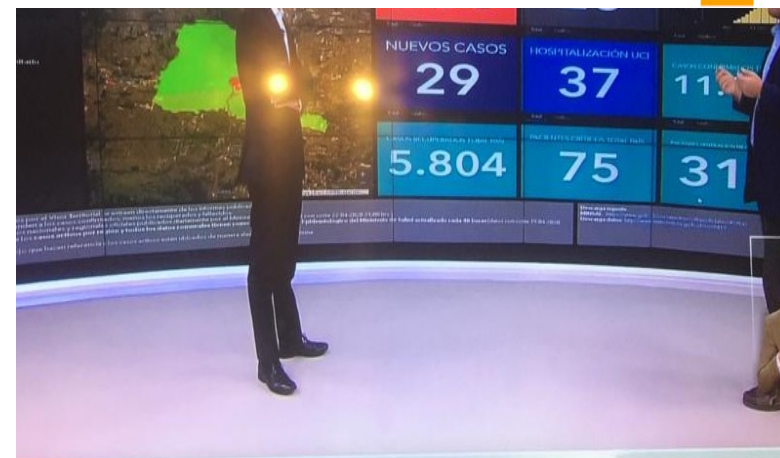
**GEOSPATIAL
WORLD**
ADVANCING KNOWLEDGE FOR SUSTAINABILITY



Did Covid provide a step change?



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ASI FUNCIONA EL "MAPA DEL COVID" EN CHILE

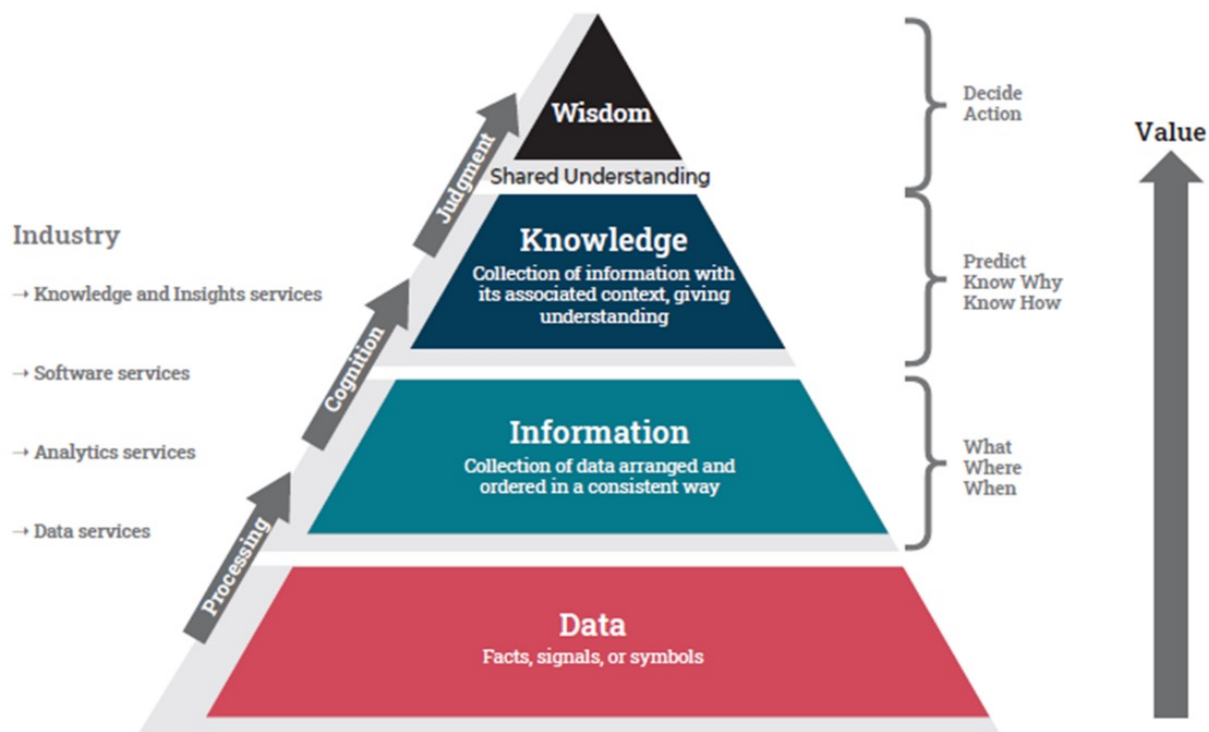


<https://idechile.maps.arcgis.com/apps/opsdashboard/index.html#/bde9421cea3047088482909bbba47a78>

Did Covid provide a step change?

“We don’t know when the next epidemic will strike, but I believe we can protect ourselves if we invest in better tools, a more effective early detection system, and a more robust global response system... There are also some interesting advances that leverage the power of computing to help predict where pandemics are likely to emerge and model different approaches to preventing or containing them.” (Bill Gates, April 27, 2018)

What is it our users want? Data or Knowledge?



Geospatial Knowledge Infrastructure



GKI Project: Advancing role of geospatial knowledge in world economy, society and environment

Jointly
Organized by

GEOSPATIAL
WORLD
ADVANCING KNOWLEDGE FOR SUSTAINABILITY



Partners

Phase 1



Phase 2



- 3 (4) year project with 3 phases:

- Consider GKI
- Consider user sectors
- National deep dives
- GKI readiness 75 countries

- Reach out:

- ~ 20 roundtables
- 3 GKI Summits
- Webinars and briefings
- Engagement with UN Future Geospatial Ecosystem

GKI Project Year 2 User Industry Focus



Energy Transition



Transport & Infrastructure



Autonomous Driving



Land Administration



Logistics and Supply Chain



Cities



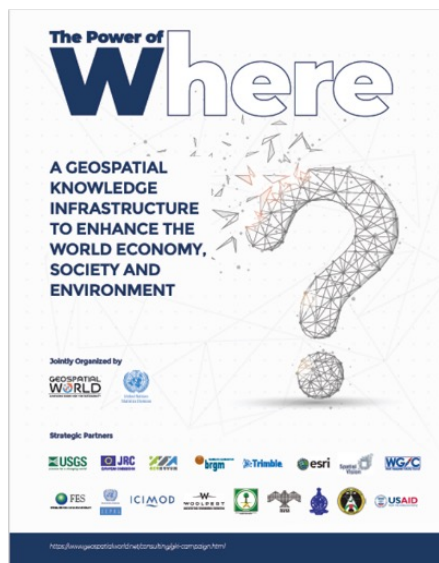
Public Safety and Security



Agriculture

Main outputs and outcomes

Stakeholder Engagement



Final Report and 2024 Readiness Index

Disruption

Tomorrow's Geospatial Infrastructure

Vision

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

Geospatial Knowledge Infrastructure

..... 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 this 4IR digital age

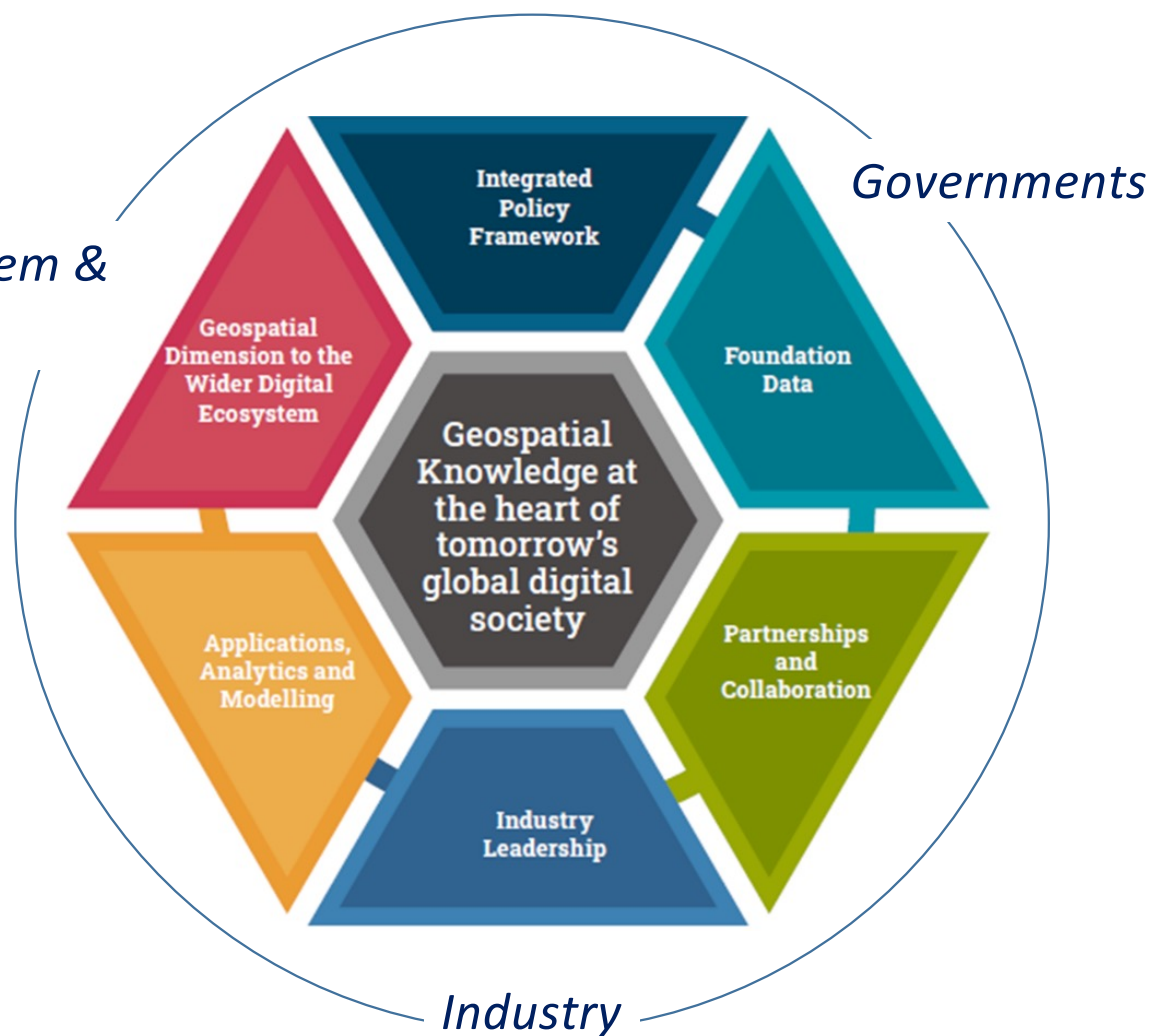
GKI Principles



- Knowledge is the focus.
- Unified geo-digital ecosystem.
- Predictive.
- Led by users.
- Decentralized.
- Collaborative solutions.
- Agility.
- Achievable actions now and then scale.

GKI Elements

Digital ecosystem & infrastructure

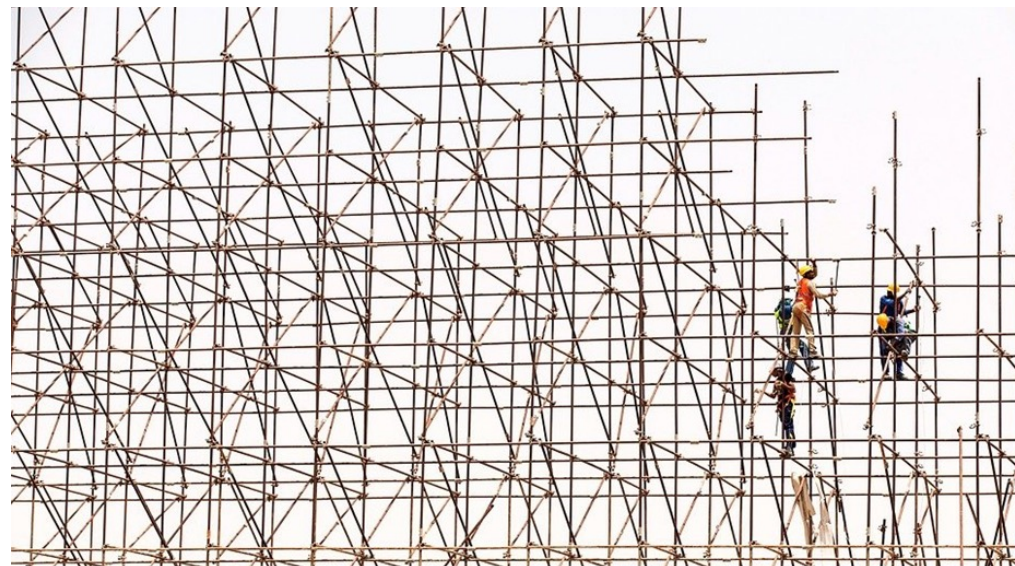


Integrated policy framework



- Established frameworks that maximise the benefits of geospatial knowledge to nations.
- A geo-digital infrastructure and economy.

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



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

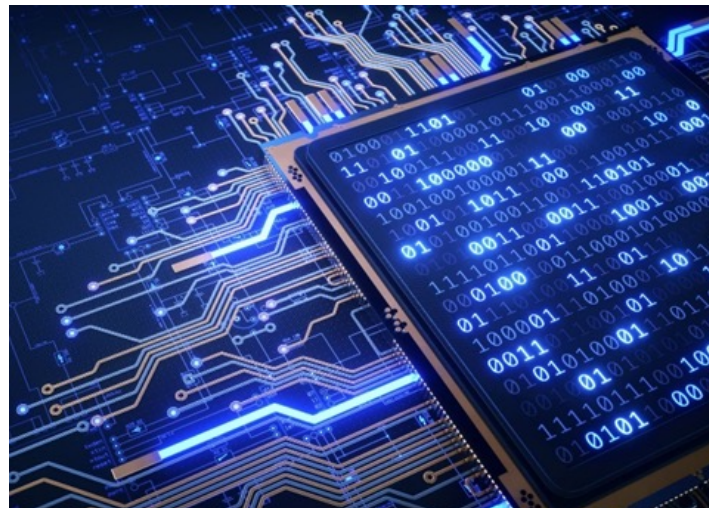
- Industry-government geospatial knowledge and foundation data partnerships.
- Diverse ideas - innovative industry, academia and government.

Industry leadership



- Increased use of geospatial capabilities across all industry sectors to meet user needs.
- Industry able to meet the exacting requirements of foundation data agencies and at year-on-year lowering prices.

Applications, analytics and modelling



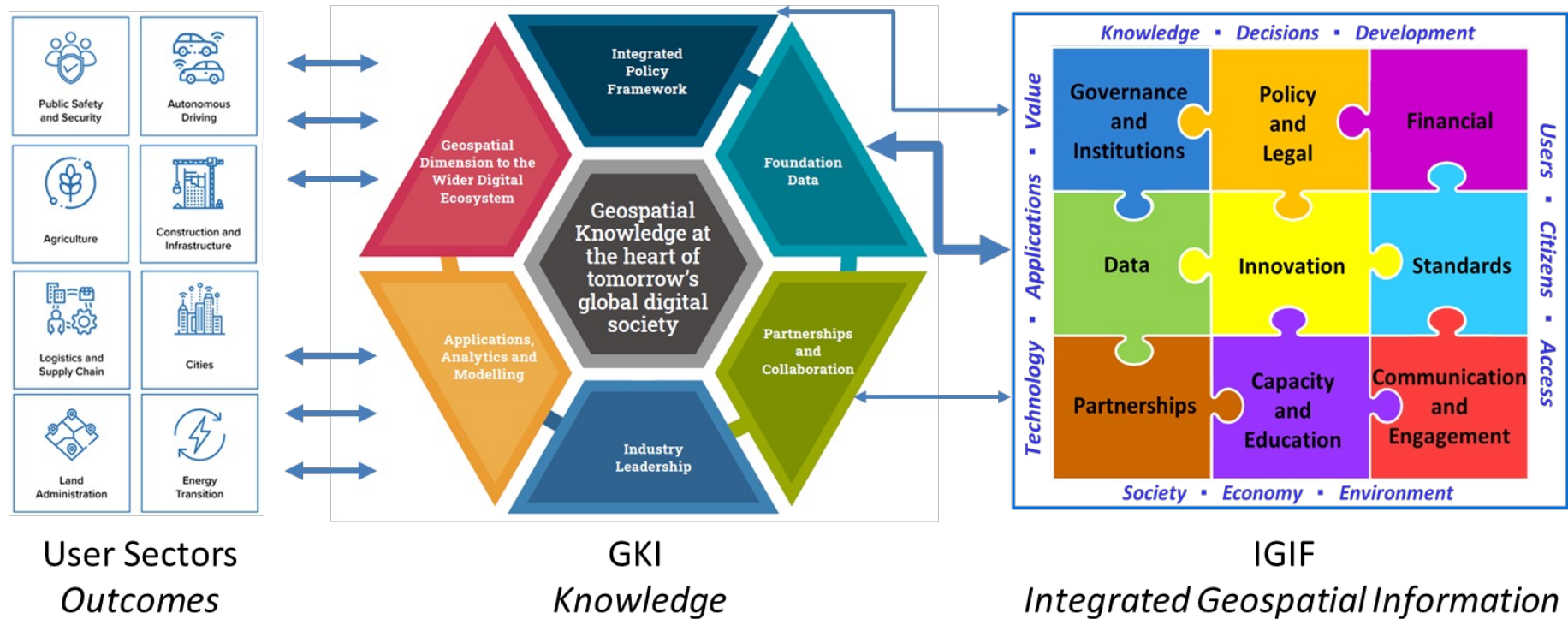
- Widespread use of geospatial tools, data and knowledge within consumer applications.
- Geospatial knowledge that provides prediction and foresight.
- Trust in geospatial derived knowledge.

Geospatial dimension to the wider digital ecosystem



- Location - a fundamental attribute within data and information – is a core element of data infrastructures and business processes.
- Geospatial technologies, data and standards are seamlessly integrated onto the web

Relationship between GKI and UN IGIF



for an Enhanced World Economy, Society and Environment

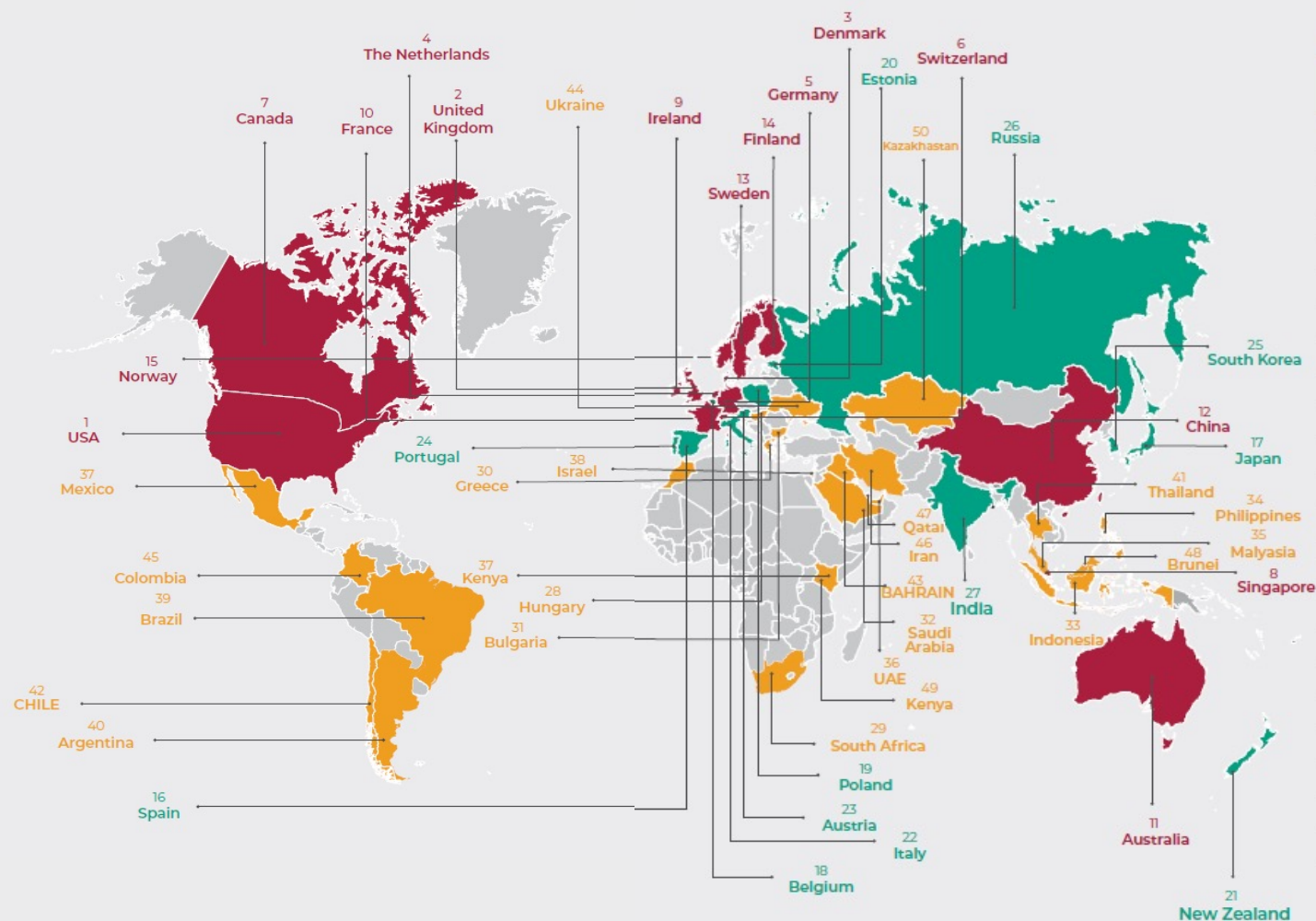
Why a GKI Readiness Index?

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

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Where next, once this project concludes?

A Journey *To find out more:*

GKI White Paper

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

GKI Phase 2 Report and Readiness Index

<https://b24-snpob1.bitrix24.site/GKI-Phase-2-Report-Download-2022>

GKI Phase 3 Final Proposition – draft for discussion

<https://geospatialworld.net/consulting/gw-assets/pdf/Draft-GKI-Proposition-Document.pdf>

