

General Authority for Survey & Geospatial Information Saudi Arabia





## Geospatial Data





Kingdom of Saudi Arabia

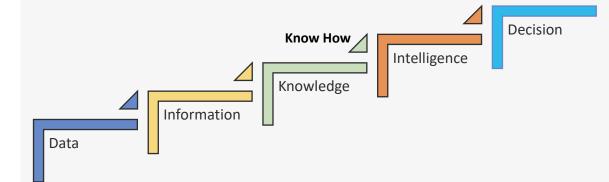
General Authority for Survey and Geospatial Information

Geospatial, location data for a better world



المملكة العكريية الشغودية

الهبيئة الغامة للمشاحة والمغلومات الجنومكا



Moving from one step to another needs more: Human resource, technology, policy, standard......etc



# General Authority for Survey & Geospatial Information (GASGI)



Regulate, develop, supervise, and monitor the Geospatial Sector in KSA.

## GASGI's Responsibility :

- Support and enabling the Kingdom's Vision 2030 goals and other national strategies
- Enhanced engagement for utilization of integrated geospatial information
- Support the transformation and the national digital economy
- Accelerating economic growth, improving productivity and technological advancement in all sectors
- Encouraging and supporting innovation and creativity in the geospatial information sector



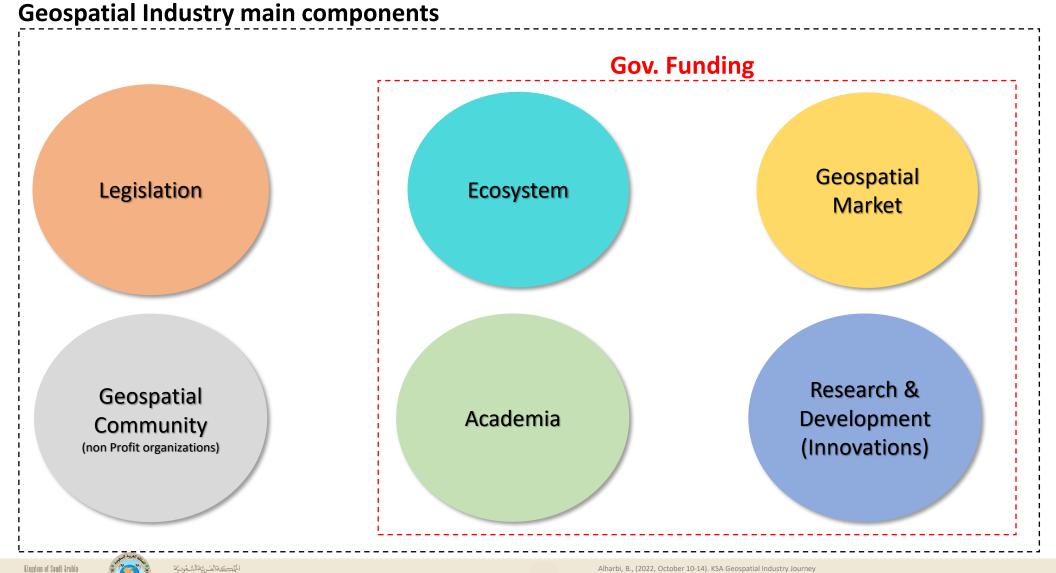


General Authority for Survey and Geospatial Information

الهكيكة الغامكة للمشاحة والمغلومات الجنوم

# Journey to Building Geospatial Industry





Alharbi, B., (2022, October 10-14). KSA Geospatial Industry Journey [Conference presentation]. Second United Nations World Geospatial Information Congress, Hyderabad, India

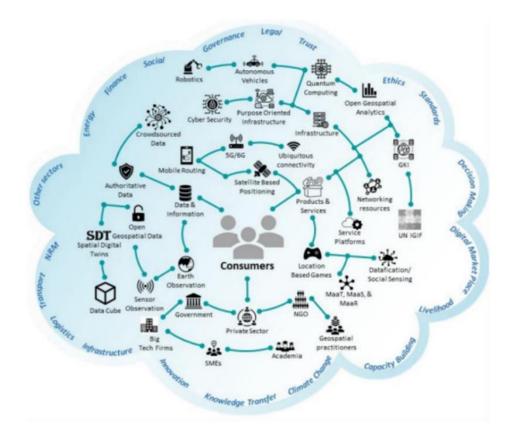


## Why ecosystem

- The global geospatial community is on a learning stage.
- Geospatial knowledge for better decision making
  Data -> Information -> knowledge
- Different geospatial data and different geospatial data producers tell us that an integrated system is the best methodology so far.

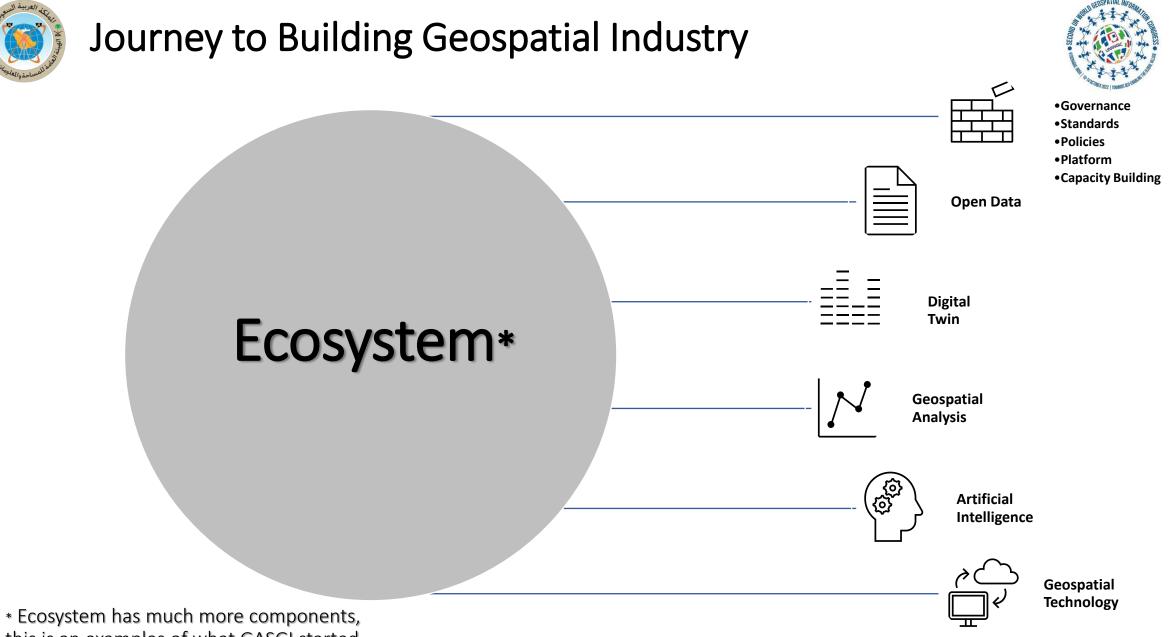
Geospatial ecosystems are logically subsets of wider digital information ecosystems, and typically comprise a multitude of stakeholders, not only government data providers, but a much wider range of organizations, individuals, and machines.\*





\* The paper "Towards a sustainable geospatial ecosystem beyond SDIs" by Coetzee et.al1, presented to the 11th session of UN-GGIM explains Geospatial ecosystem "as a system in which a community of actors (individuals or organizations and increasingly 'intelligent' machines) interacts via the geospatial information and technologies in their environment. Similar to natural ecosystems, the geospatial ecosystem is dynamic





this is an examples of what GASGI started

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# Saudi Arabian National Geospatial Ecosystem (SANGE)



## How?

 strategic initiative of GASGI with an intent for establishing a sustainable, active, and nationally relevant Geospatial Ecosystem that contributes to all activities and applications which require any element of geospatial knowledge. KSA Geospatial Industry

SANGE

Current Geospatial infrastructures



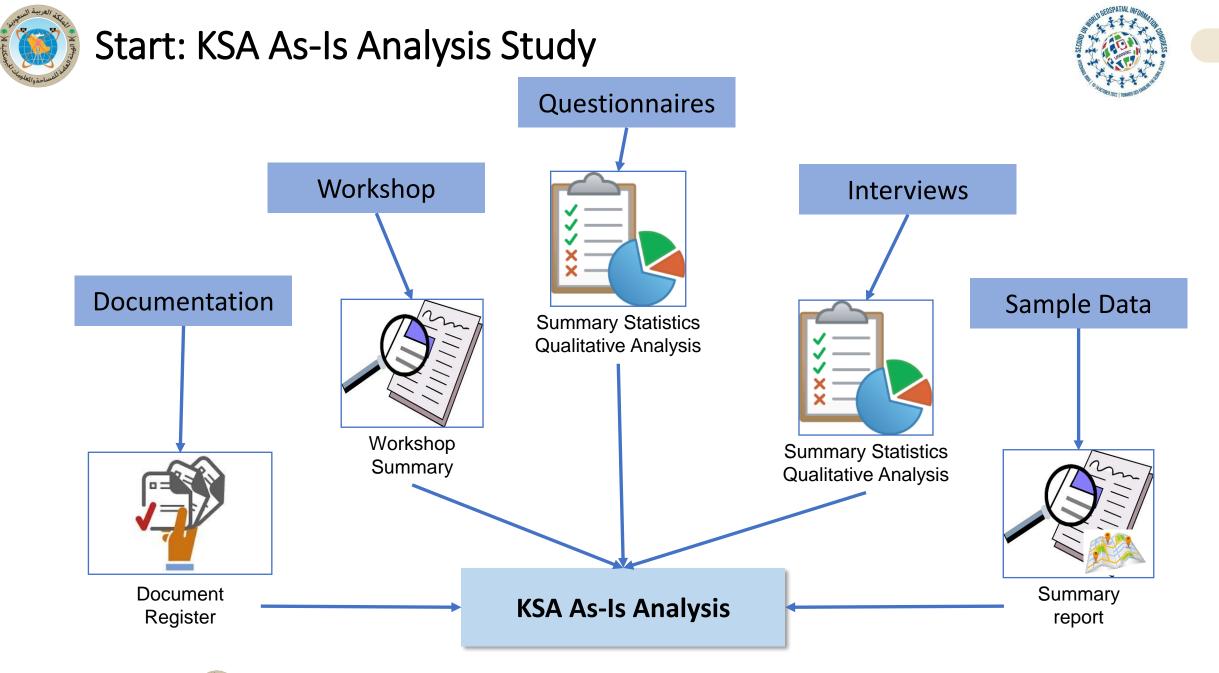


## Saudi Arabian National Geospatial Ecosystem (SANGE)- a glance



• One of strategic goals for General Authority for Survey & Geospatial Information(GASGI) is enhancing Geospatial Industry in SA by developing SANGE as a first phase:



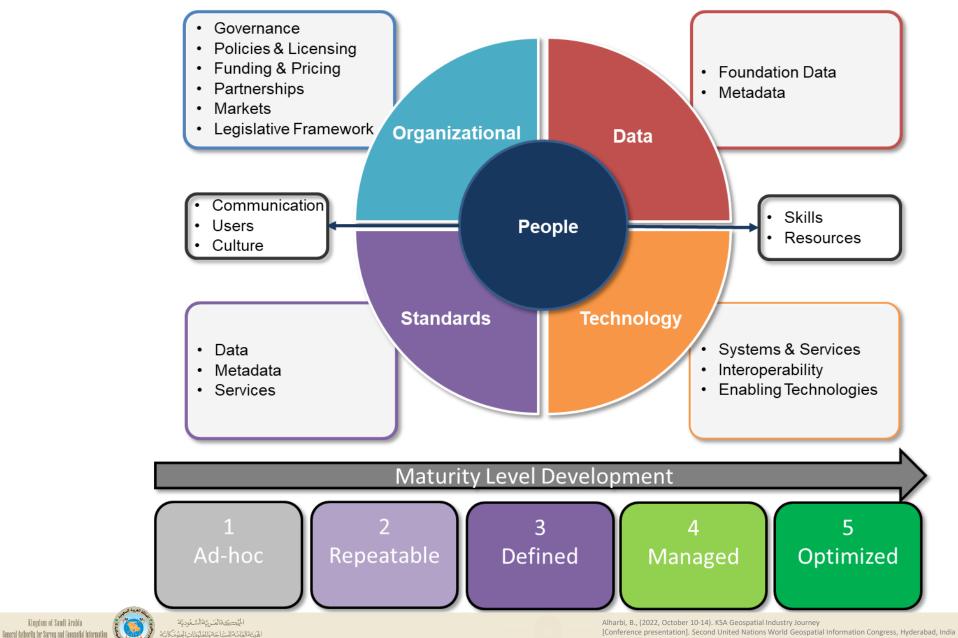


لا المتركة المدرية ا

# Geospatial Infrastructure Components – Maturity Levels

Kingdom of Saudi Arabia



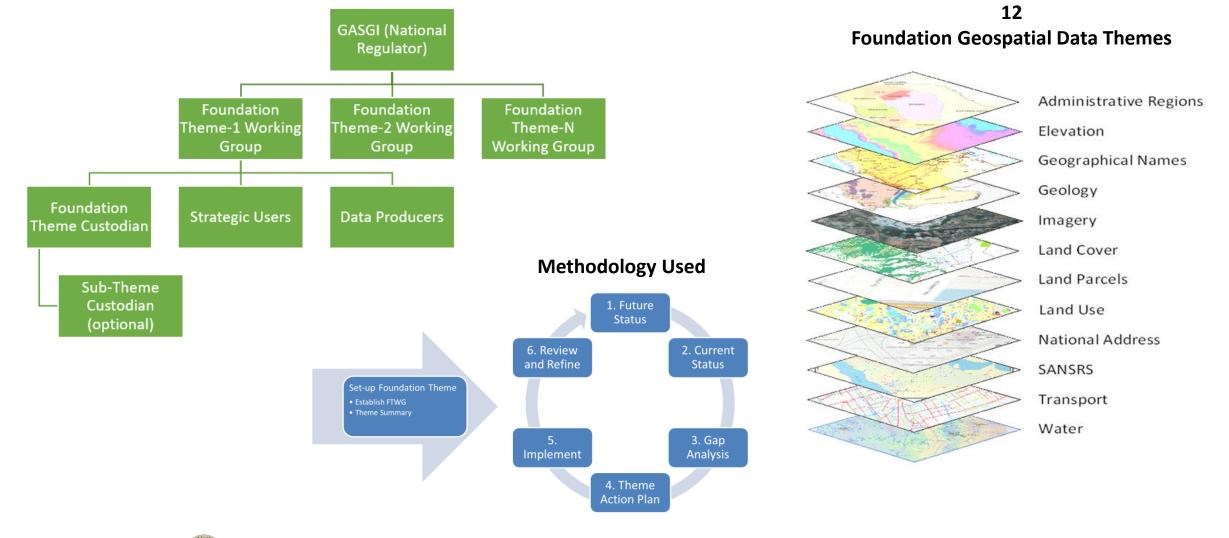




## Governance of Foundation Geospatial Data in KSA - a glance



#### **Geospatial Data Governance Model**



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# Geospatial Data Standards in KSA - a glance





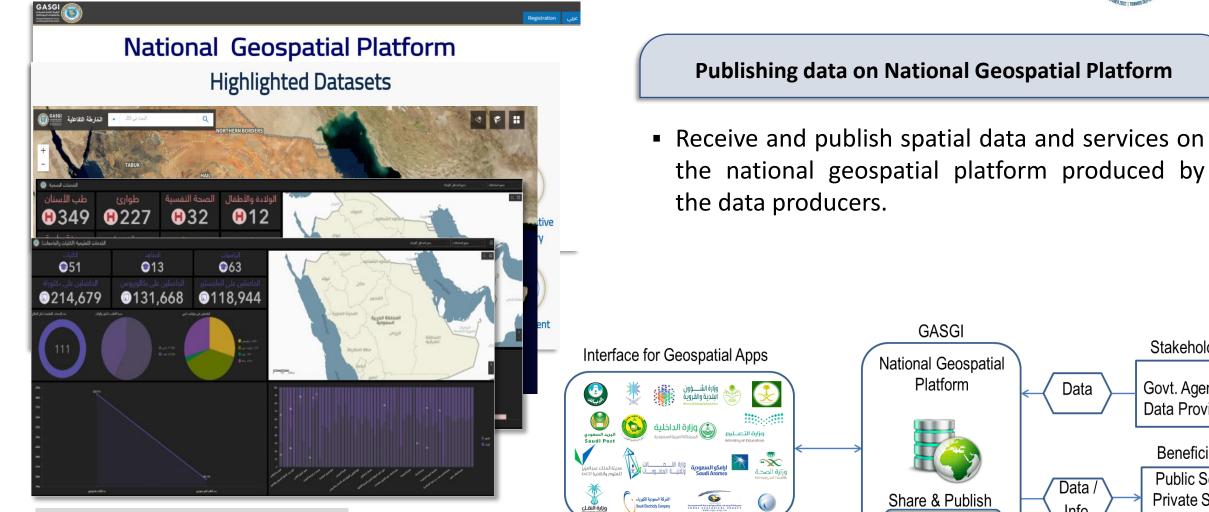
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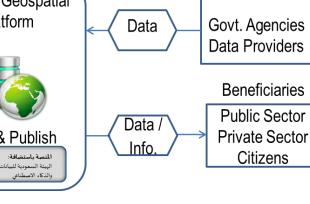


# National Geospatial Platform - a glance





**National Geospatial Platform is** operational since February 2020



Stakeholders



## What Next...

- Journey of building Geospatial Industry is along one
  - Sustainable path (strategic direction): Continue Development
    - SANGE (Saudi Arabian National Geospatial Ecosystem)
    - GASGI Àcademy
    - Review & improve government legislation

### $\circ~$ Quick-win path :

- Provide the available data to users
- Open certain data to the public ,private and geospatial community
- Governance fundamental data sets
- Keep Enhancing data quality
- Building national data model
- Build KSA national geospatial standards

