

Geospatial Knowledge Infrastructure (GKI) Summit

Theme: Strategic Infrastructure for Future Geospatial Ecosystem

Jointly Organized by



Partners

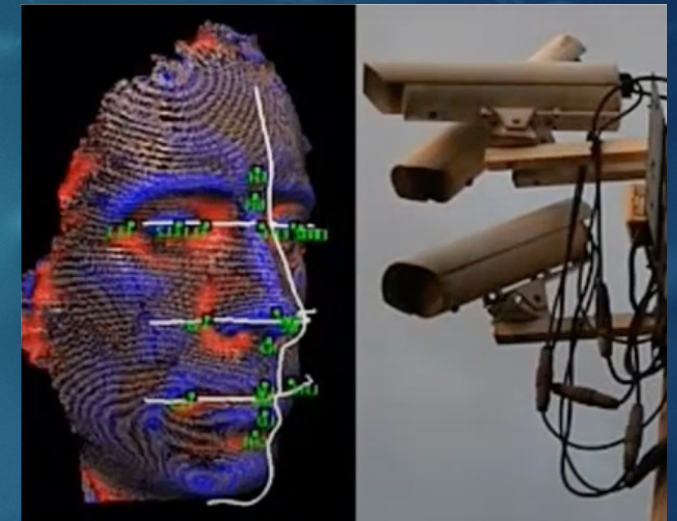
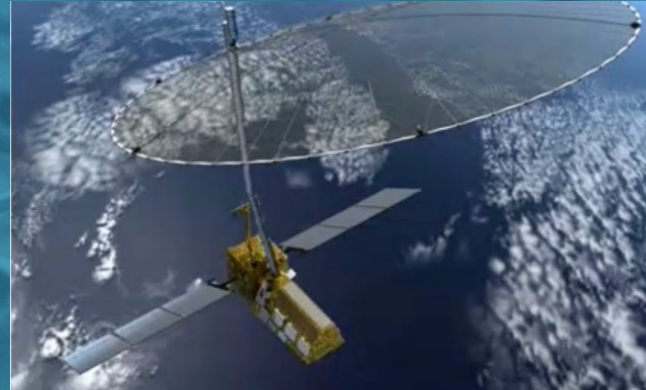
GEOSPATIAL KNOWLEDGE INFRASTRUCTURE (GKI)

Dr. Shivangi Somvanshi

Director – GKI, Geospatial World



Why a new concept? The geospatial world is changing



THE DISRUPTIVE NATURE AND PACE OF DIGITAL TRANSFORMATION IS INFLUENCING OUR GEOSPATIAL ECOSYSTEM



Energy



Land use



Industry



Urban



Buildings



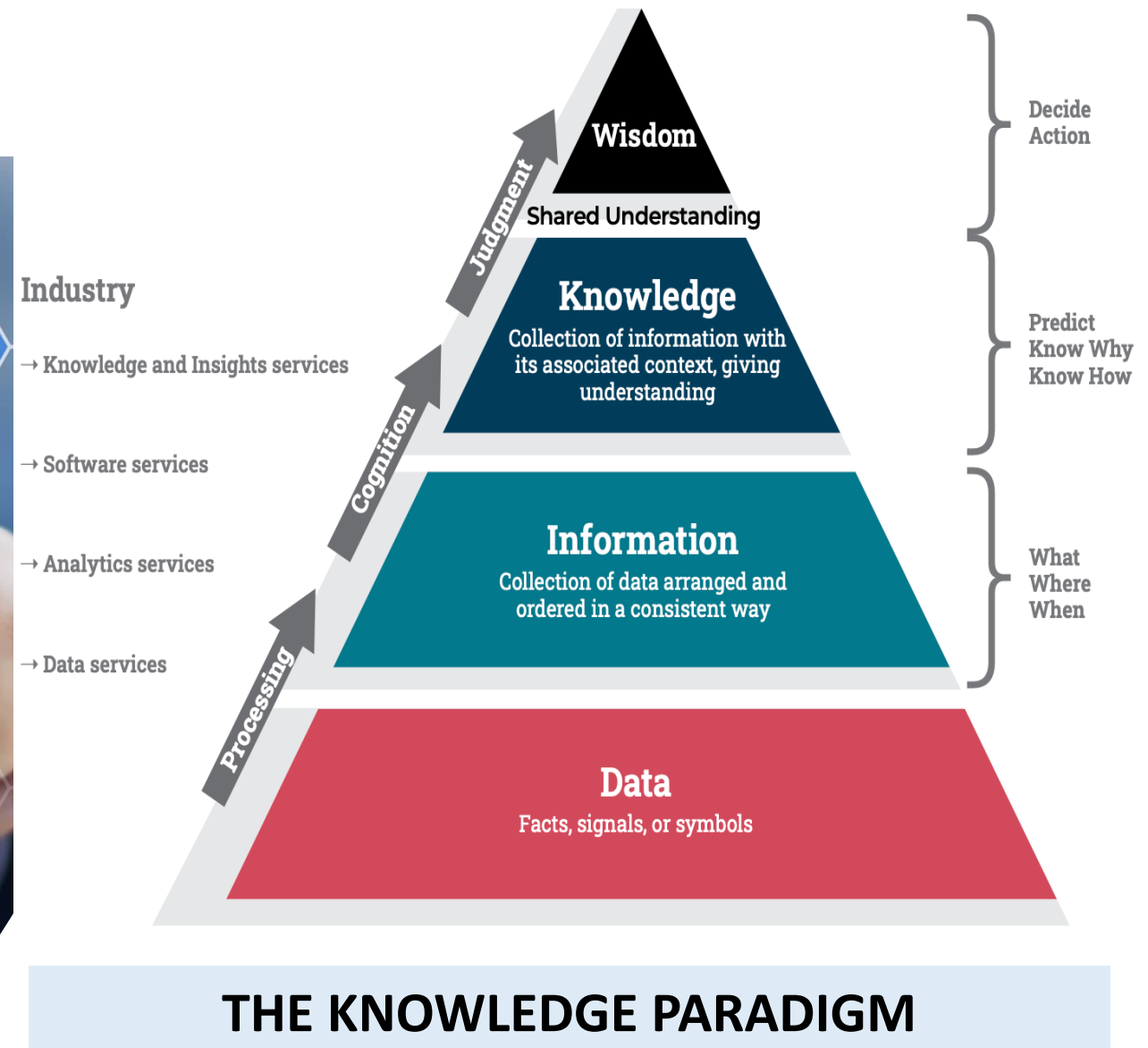
Transport

The disruptive nature of digital transformation, technology, innovation and their exponential impacts, means that society's expectations on how, and at what level of detail, we record what is happening where and when are changing at a rapid pace.

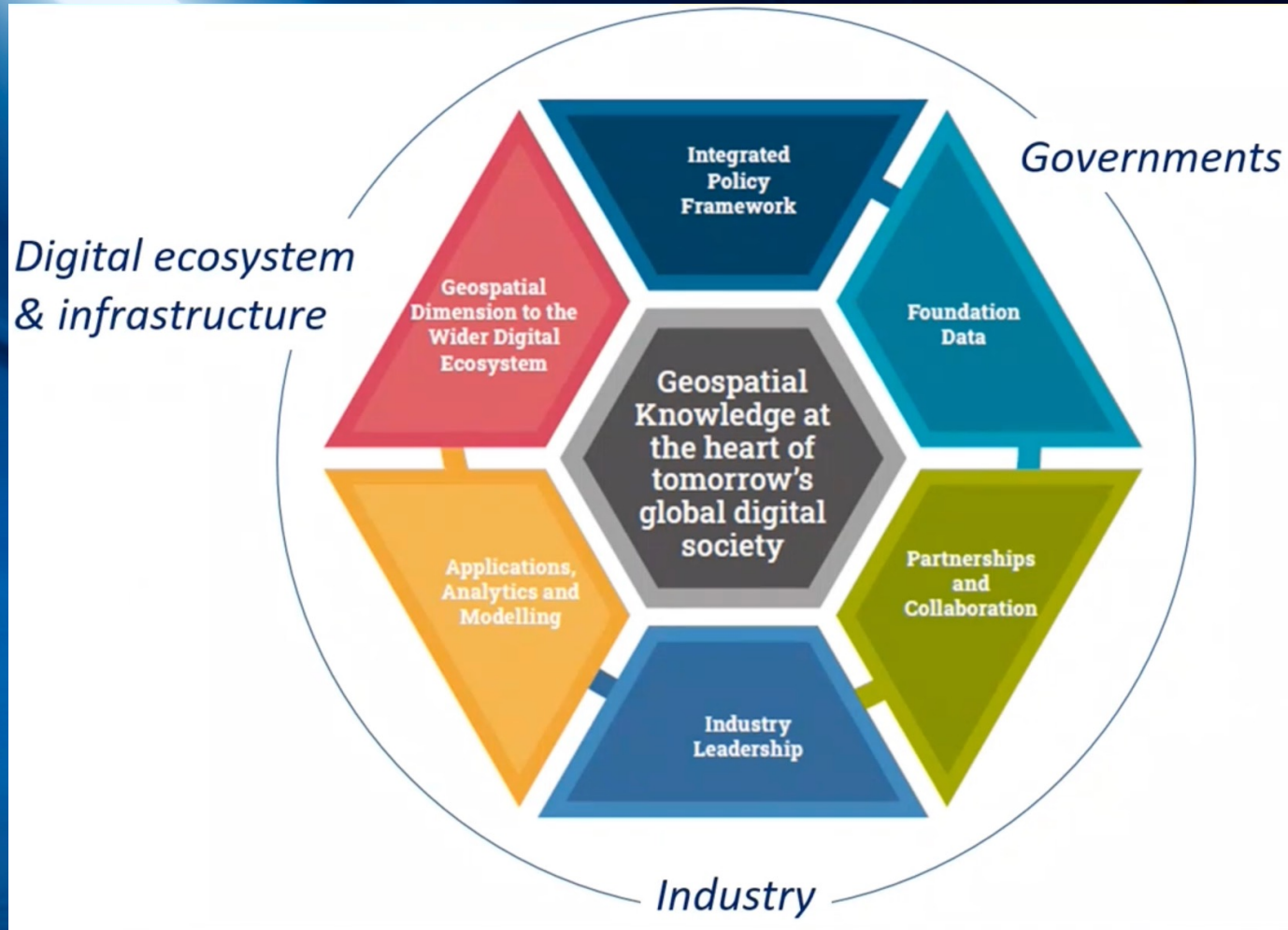
HYDROGRAPHIC SURVEY

Why a new vision?

Expectations are changing



GKI Elements



“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 AT
THE HEART OF
TOMORROW'S
DIGITAL SOCIETY
AND ECONOMY**

Principles of GKI

Predictive

Decentralised

Agility

**Achievable
actions**

**Led by
users**

**Wider digital
Infrastructures**

Knowledge focus

Elements of GKI

**GEOSPATIAL
DIMENSION TO
THE DIGITAL
INFRASTRUCTURE**

- Digital Infrastructure
- Knowledge on Demand
- Integrated Standards
- Real Time Data Processing
- People
- Open Positioning Infrastructure
- Value Measurement

**APPLICATIONS,
ANALYTICS AND
MODELLING**

- Consumer Applications
- Predictive Analytics, Modelling and Simulation
- Automation
- Knowledge Visualization
- Assurance

**INDUSTRY
LEADERSHIP**

- Growing the Data Economy
- Growing the Knowledge Economy
- Private Investment
- Diversity
- Global Village

**PARTNERSHIPS
AND
COLLABORATION**

- Public Private Partnerships
- Knowledge Stakeholders
- Geospatial Knowledge Co-creation
- Collaborative Innovation
- Citizen Partnership

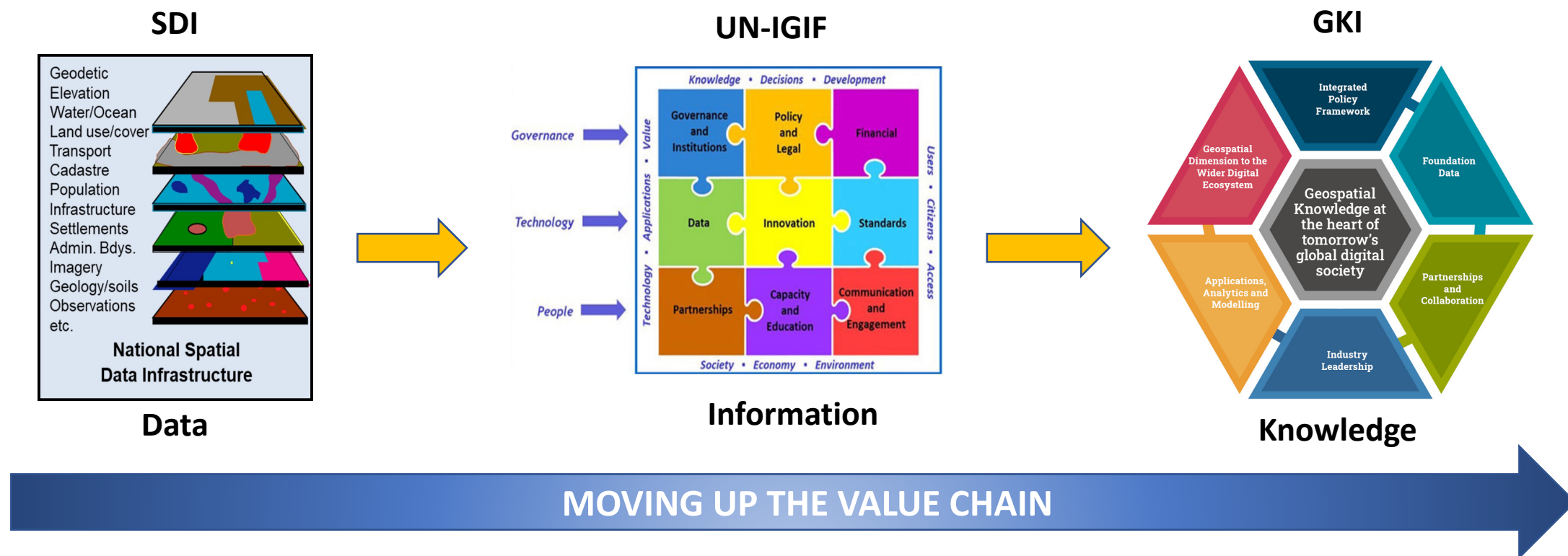
**FOUNDATION
DATA**

- The User
- Global Geodetic Reference Framework (GGRF)
- Continuously Maintained Authoritative
- Fundamental Geospatial Data | Allied Information Enterprise
- Earth Observation and Ocean Survey
- Automated Data Processing | Digital Twin
- Access & Interoperability | Authority & Accountability
- Foundation Knowledge Services | Government Investment

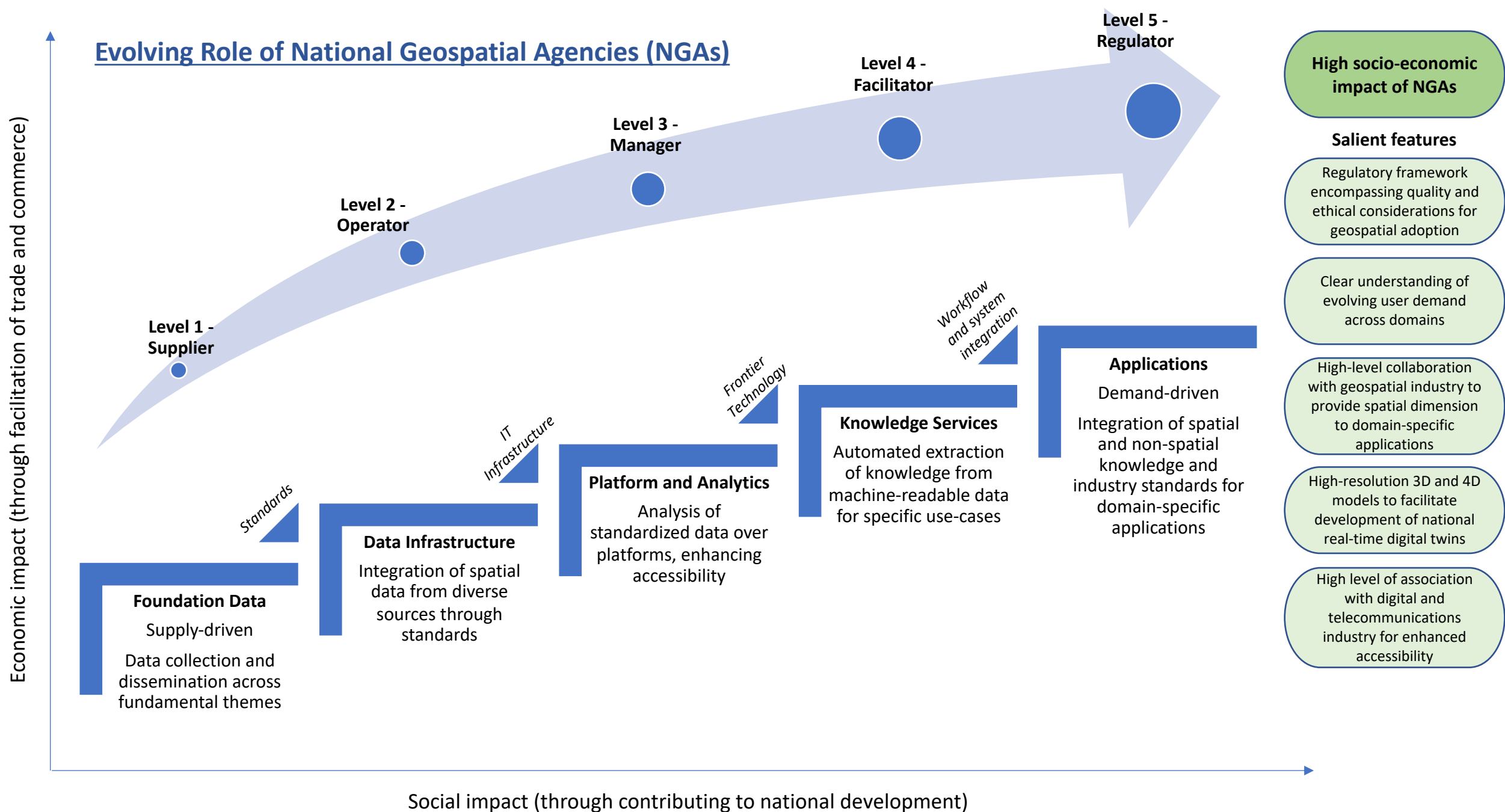
**INTEGRATED
POLICY
FRAMEWORK**

- Integrated Digital Governance
- Core Geospatial Policies
- Global Policy Alignment
- Open Data
- Knowledge Legislation
- Security
- Government Research, Development and Innovation
- Digital Education

EVOLVING GEOSPATIAL ECOSYSTEM



Strengthening the National Geospatial Infrastructure





Thank You!