



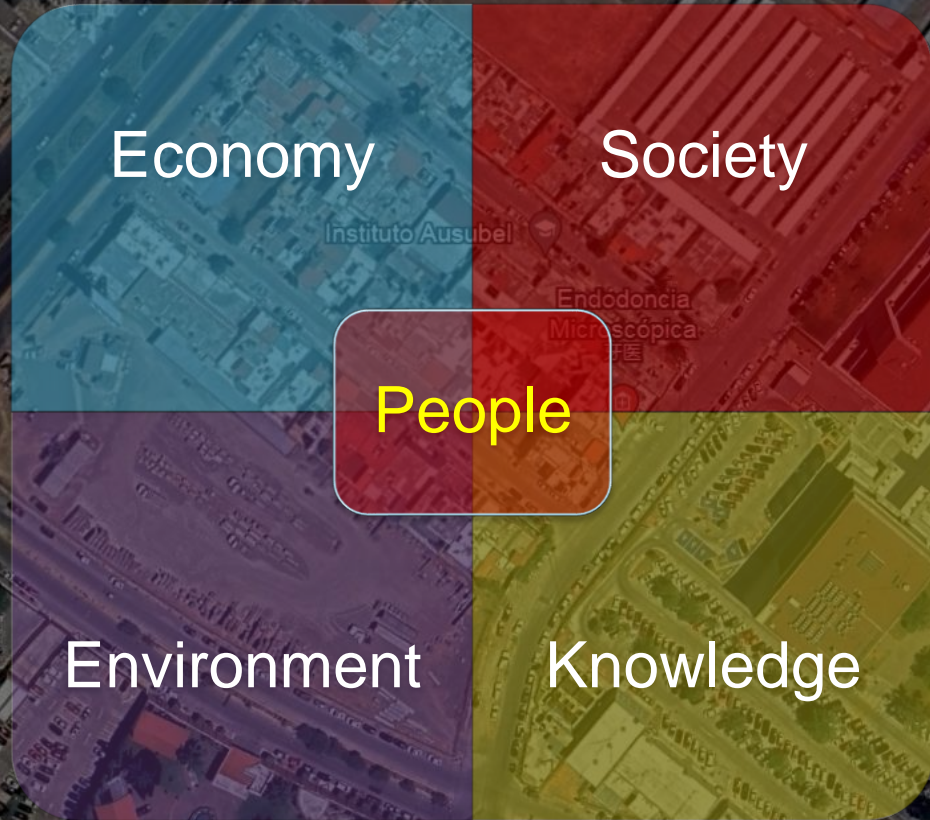
A Strategic Plan of United Nations Global Geospatial Knowledge and Innovation Centre

Dr. Li, Pengde

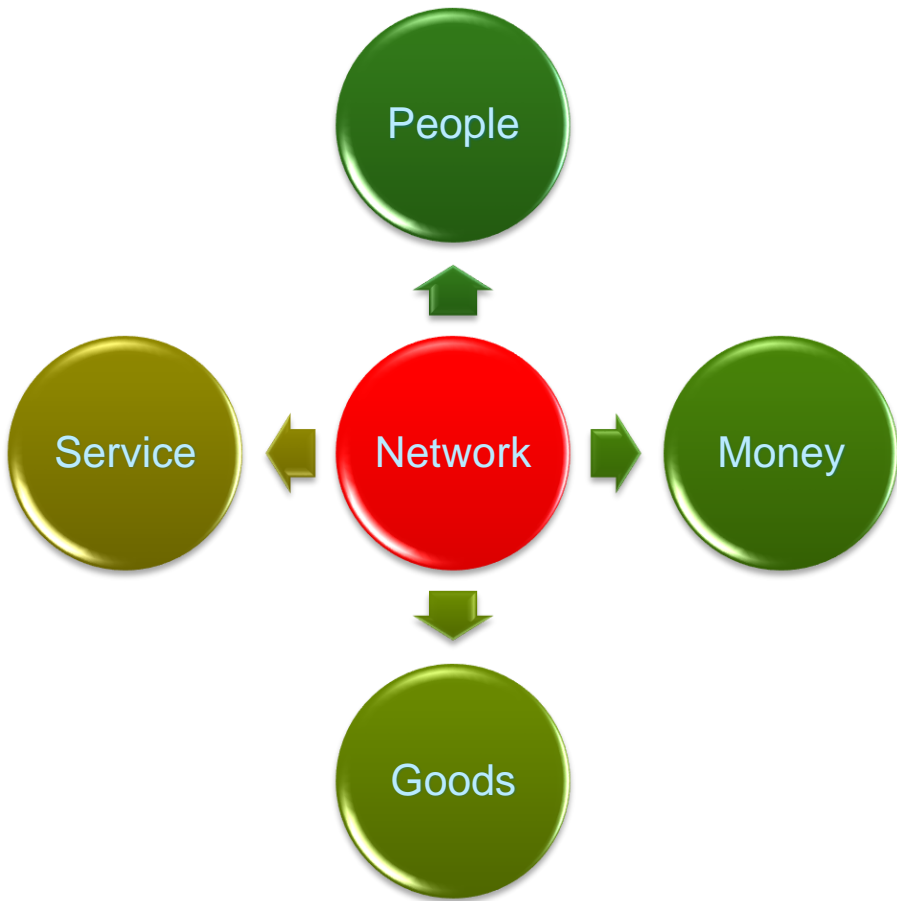
Director, UNGGKIC

Deqing, Huzhou, Zhejiang ,China

Sustainable Development and Views of the Digital Earth



Data with Temporal and Geospatial Characteristics



*Locating
Timing
Routing
Tracking*



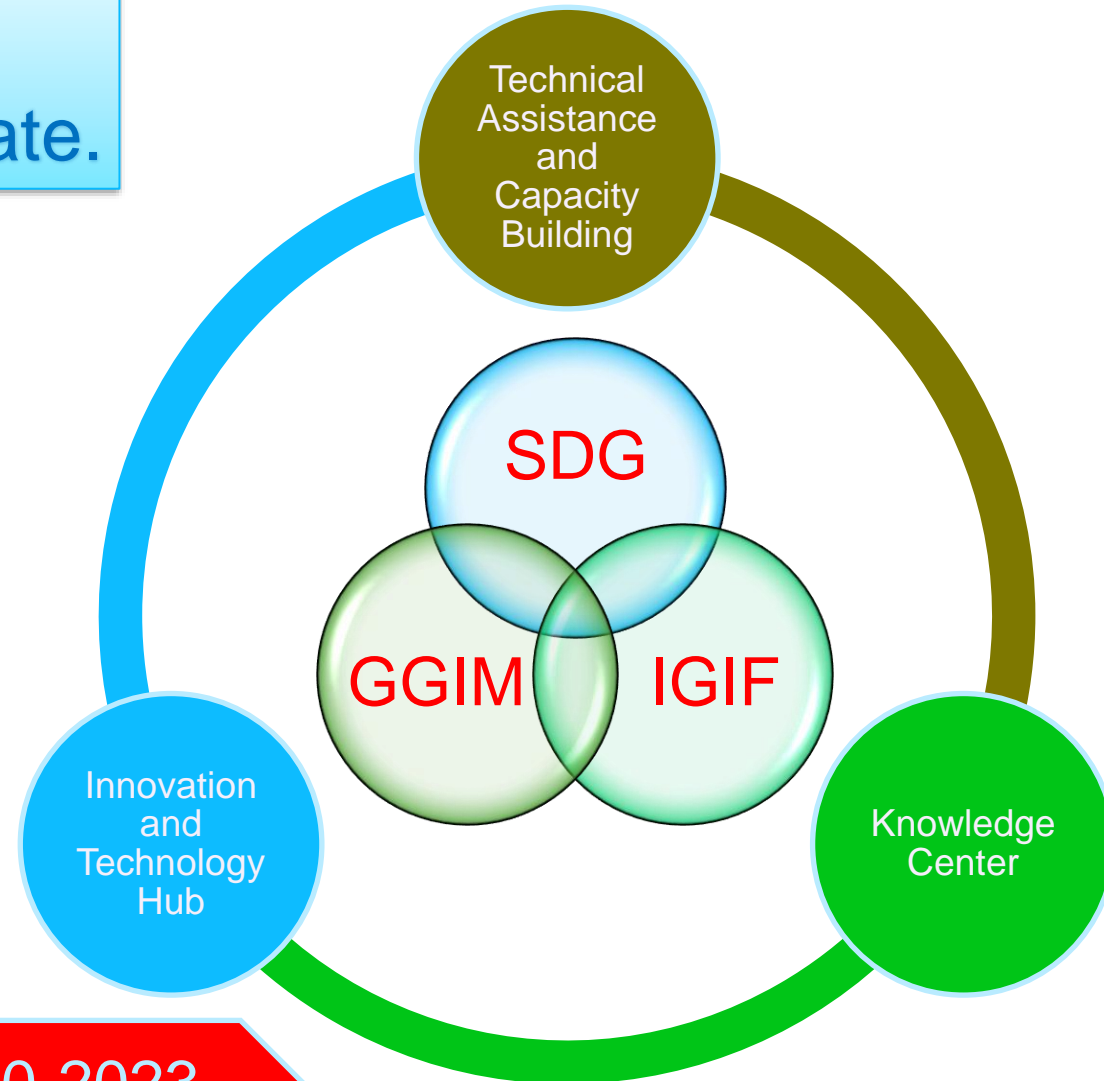
Visioning the UNGGKIC and Phases

Overarching Goal

Implementation of the IGIF by Member State.

The Objectives

- To strengthen and advance the GIM capacity development capabilities,
- To strengthen knowledge sharing and innovative cooperation,
- To advance implementation of a core function of UN-GGIM.



11-2018

09-2020

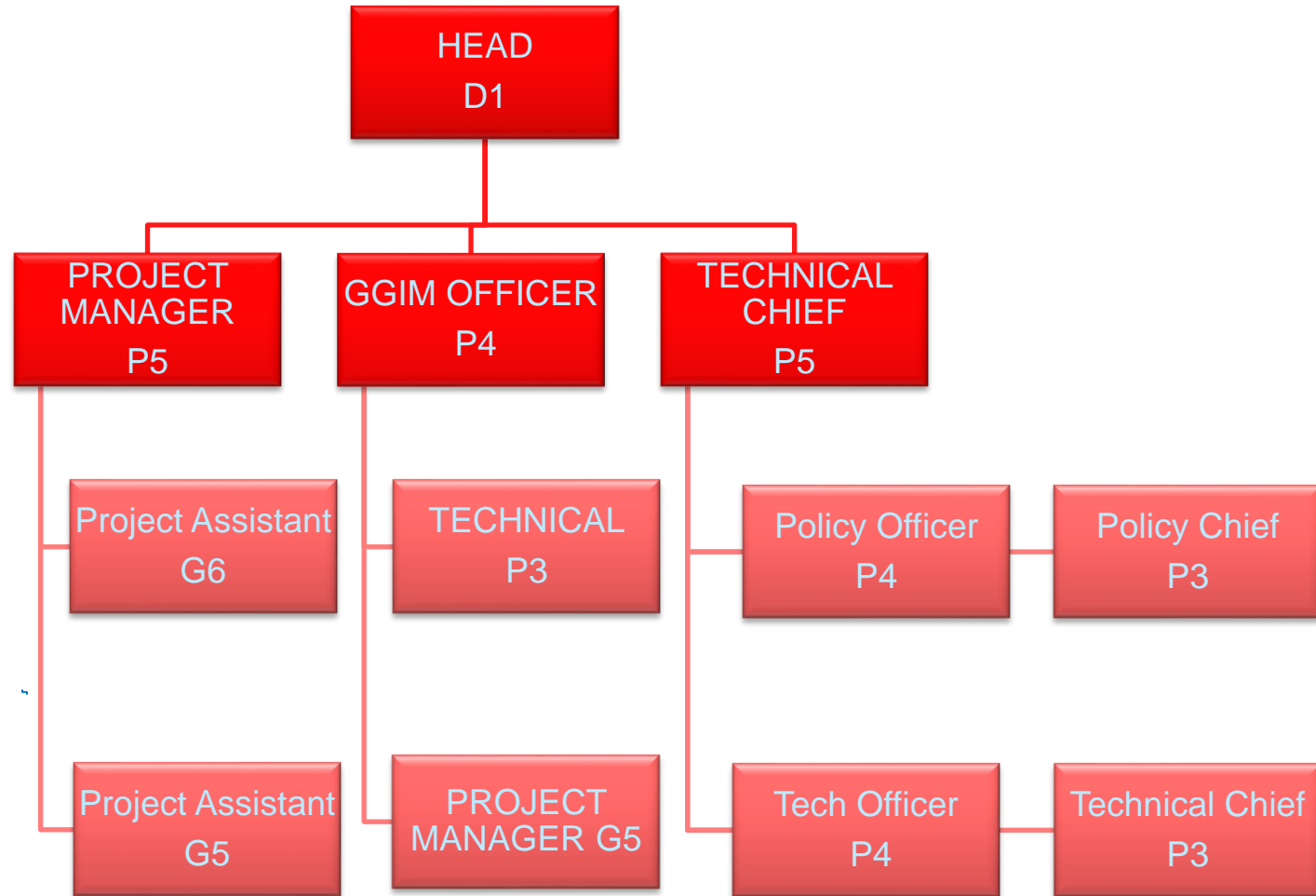
05-2022

10-2023

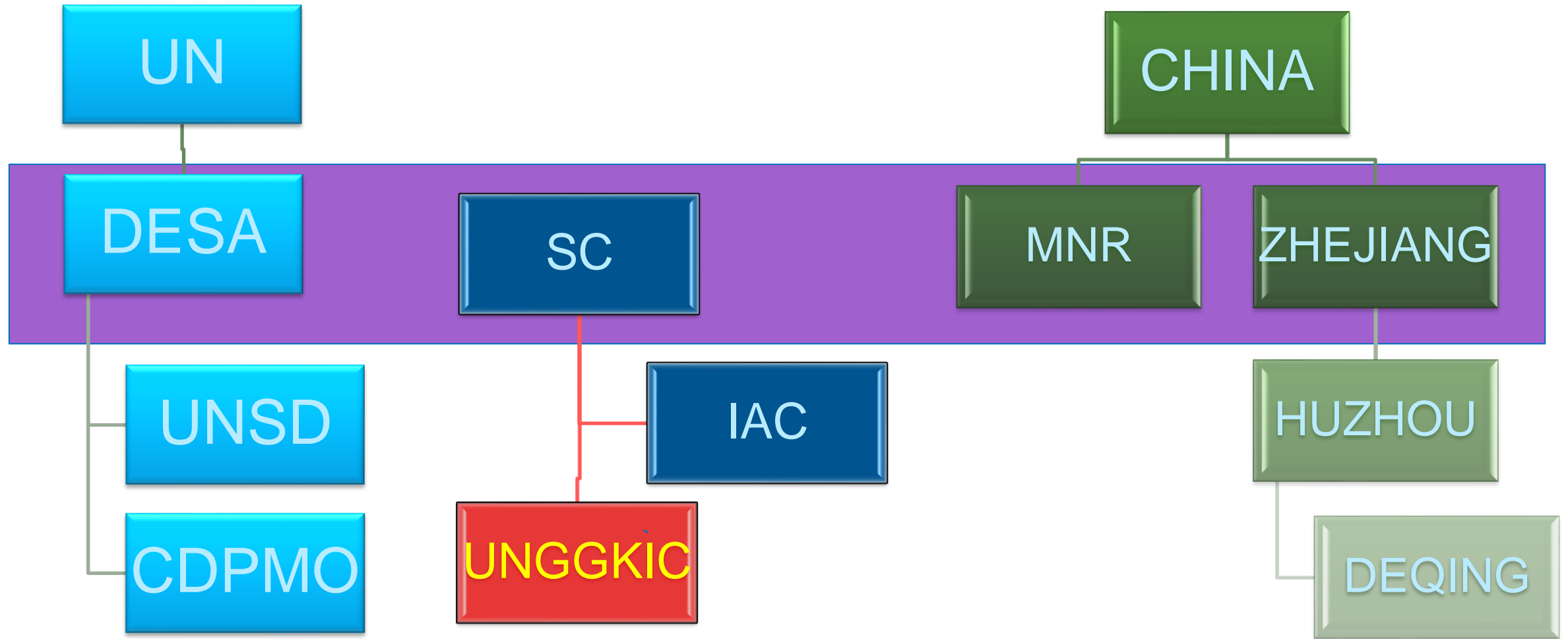
Staffing and Human Resources

- 1. International staff 12
- 2. National staff 8
- 3. Secondment 4
- 4. Adviser 4
- 5. Out sourcing 12
- 6. Interns 8
- 7. Volunteers 12

POSSIBLE TEAM SIZE: 60



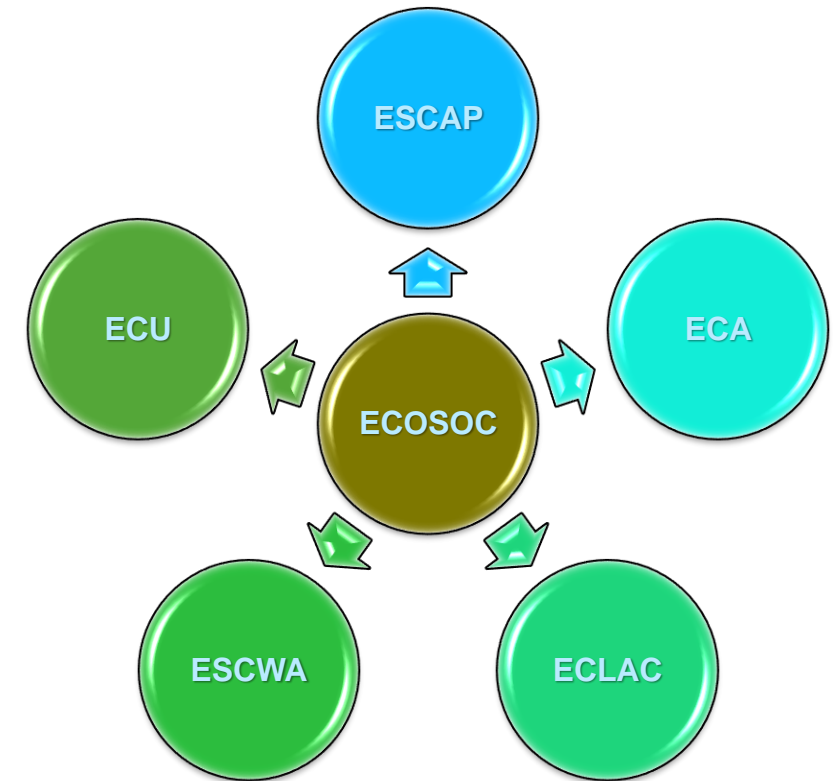
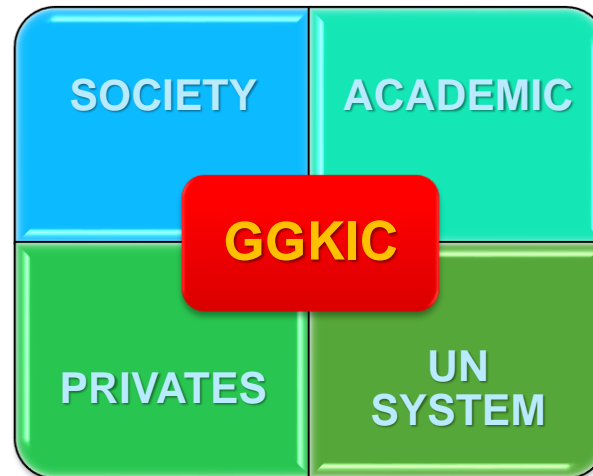
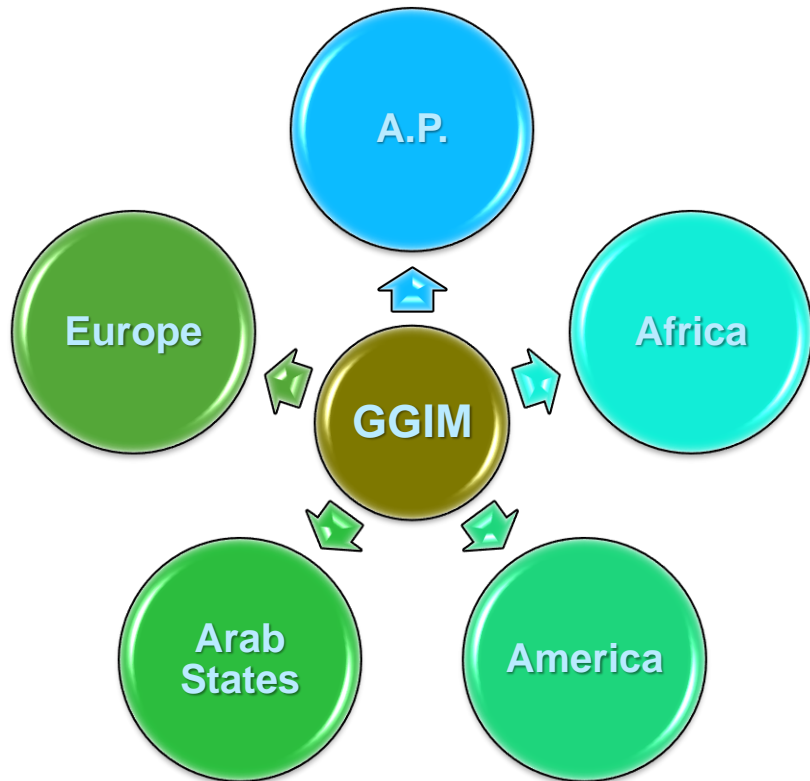
Administration Structure and Financial Contribution



Trust Fund: \$2.5m + \$3.3m x 7 years (\$25.6m)

Work Framework Matrix and Partners

Technical Assistance and Capacity Buidling	Knowledge Centre	Innovation and Technology Hub
1.1 Workshops on IGIF Technology	2.1 SDG Big Data Super Hub	3.1 Think Tanks: Moganshan Talks
1.2 Seminar on Leadership Development	2.2 E-Learning Platform	3.2 Pilot Projects on IGIF and SDG
1.3 Open Week of Geospatial Knowledge	2.3 Global Reports	



1.1 Technical Assistance and Capacity Building: Technology Capability

Africa

Paper Maps

- Records
- Photos

Digital Maps

- Digital Raster
- Digital Line Maps
- Digital Orthophoto Maps
- Digital Elevation Model
- Digital Surface Model

Digital 3D Models

- Digital Point Clouds
- BIM
- CIM
- VR

Machine Control Data

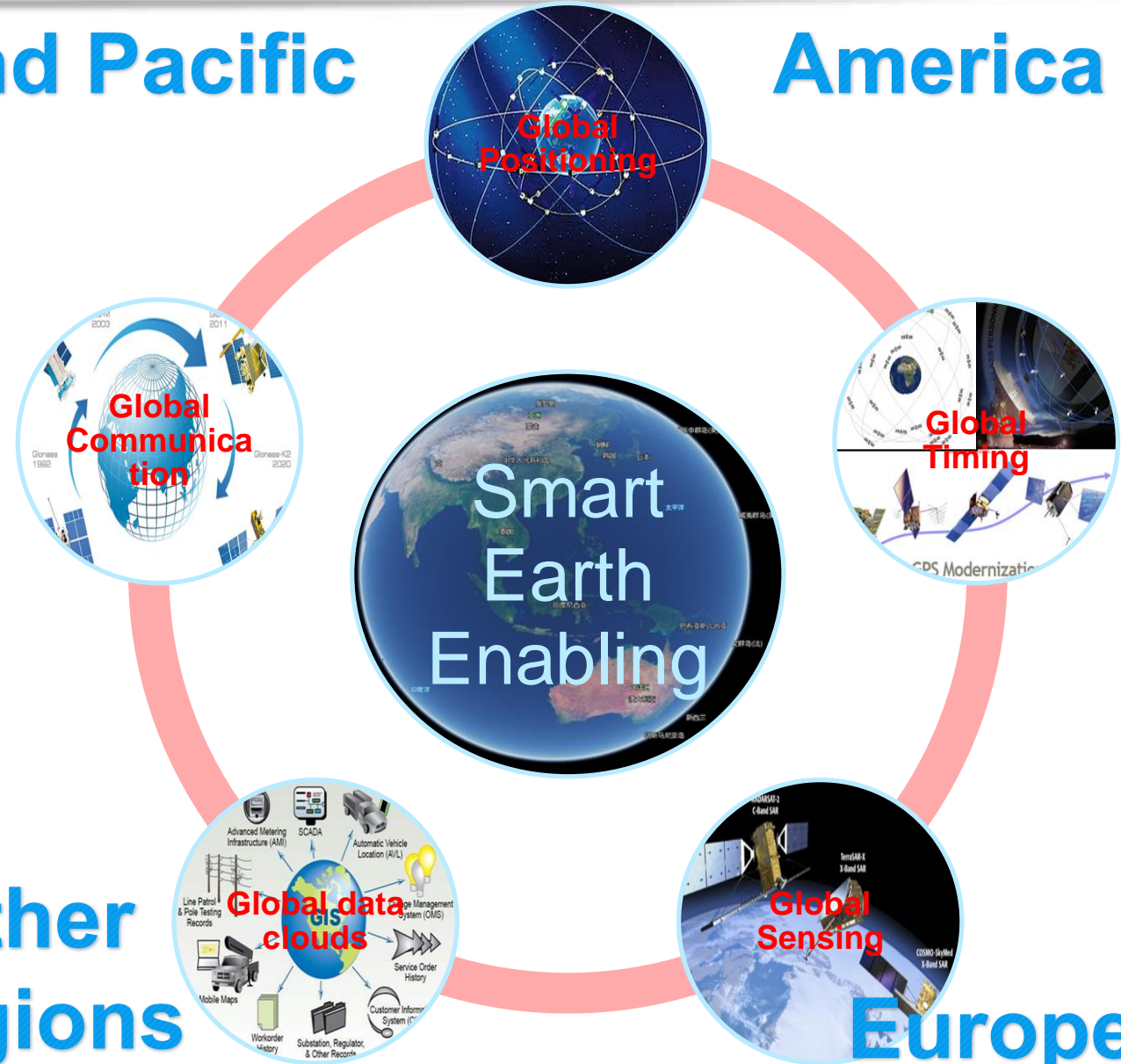
Arab

Asia and Pacific

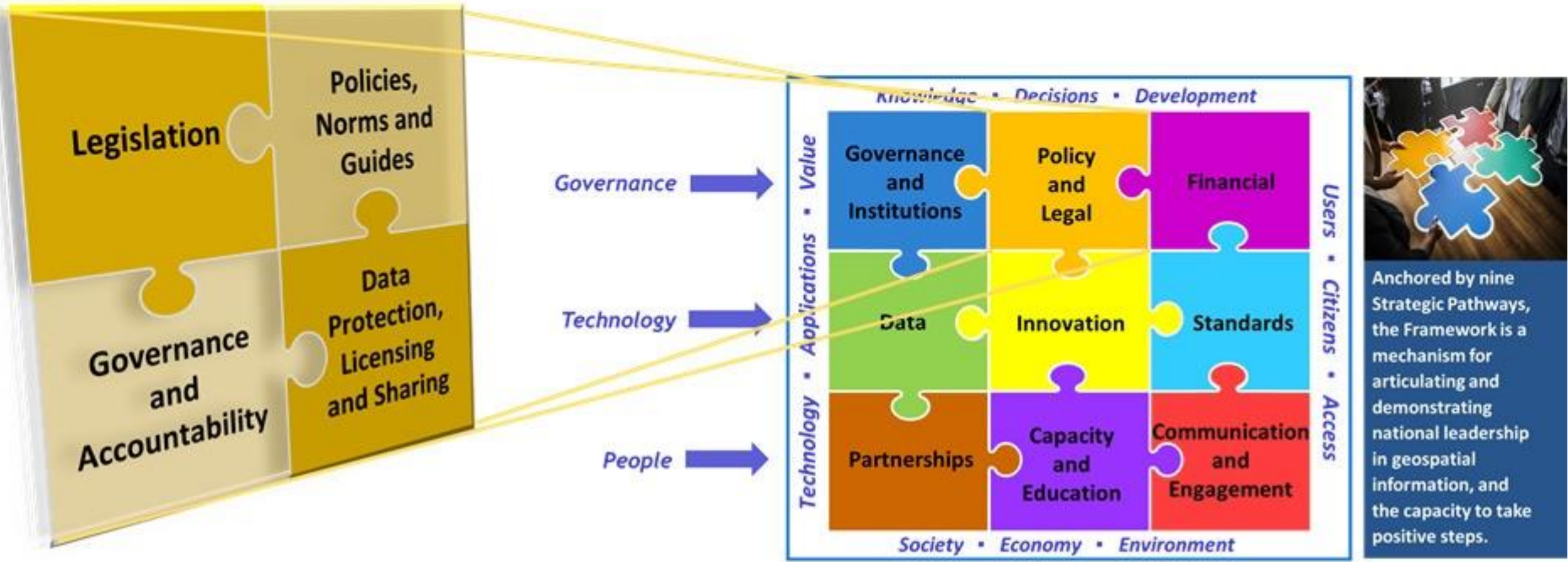
America

Other regions

Europe



1.2 Technical Assistance and Capacity Building: Leadership Development



Case studies + Seminars + Visiting

1.3 Technical Assistance and Capacity Building: Open Week

Out reaching + Community Involvement



UN Regional
Cartographic
Conference

UN GGIM and
Regional
Committees

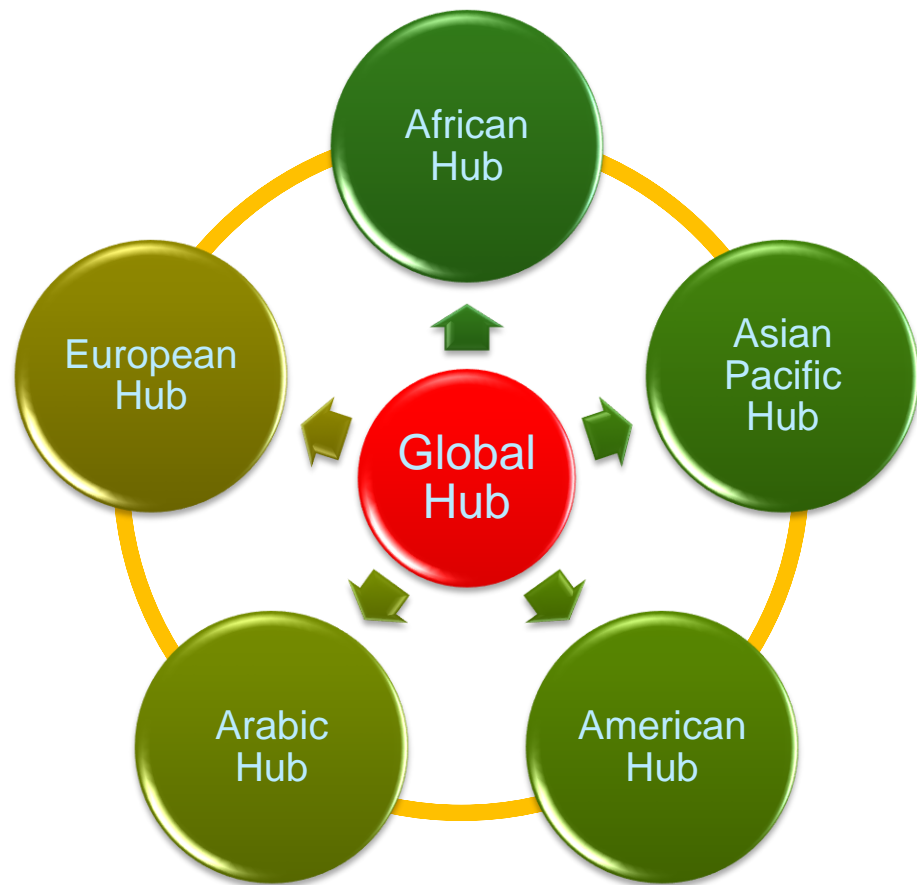
UN GGIM
Sessions

UN GGIM
Networks and
Forums

UN World
Geospatial
Congress

UN GGIM
Organizations

2.1 Knowledge Centre: SDG Big Data Super Hub and Global Geo-dashboard



A Global SDG Data Hub with Geo-dashboard

2.2 Knowledge Centre: E-Learning Platform



One survey-Many use
Many surveys-All use

Obligatory Standards

International Standards

National Standards

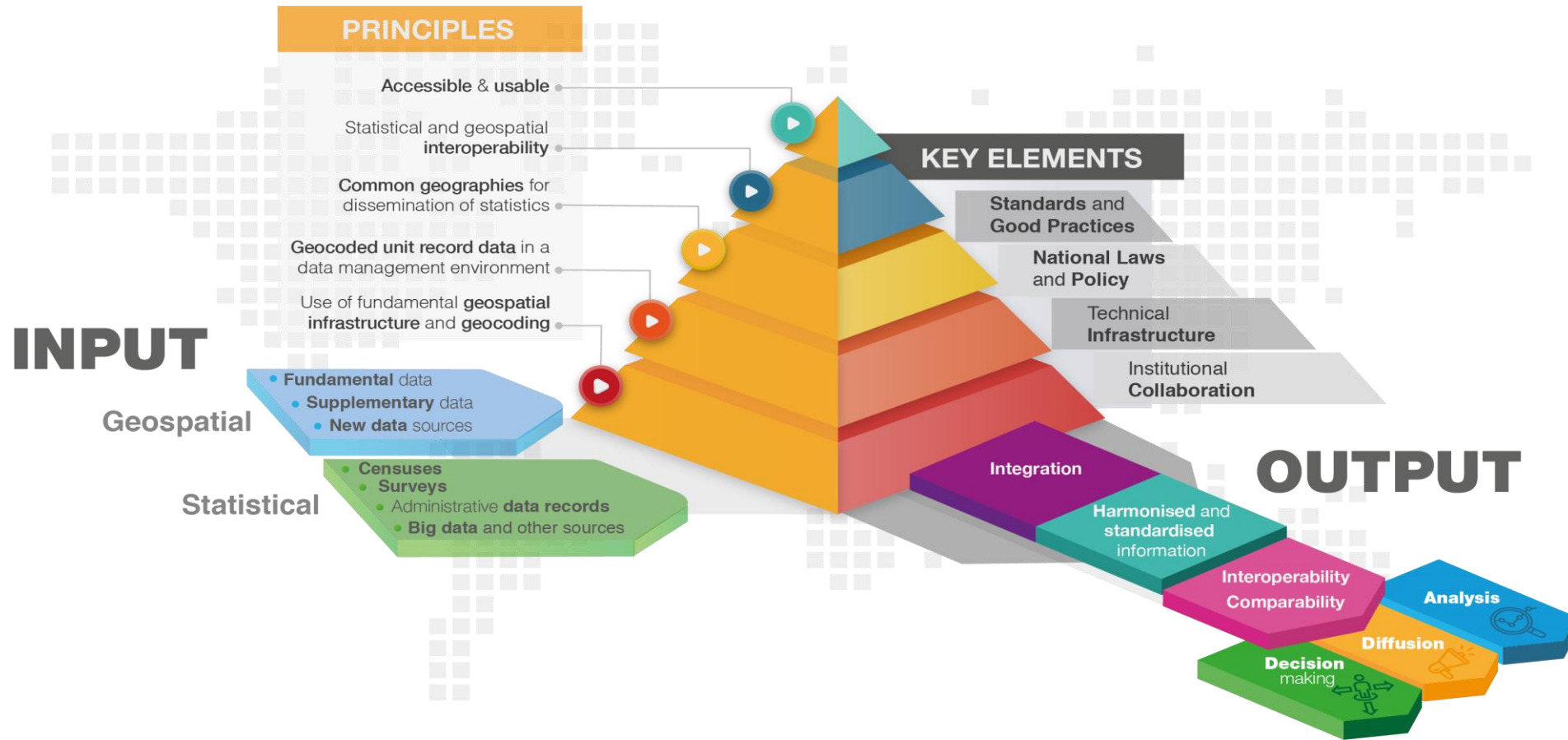
Local Standards

Professional Standards

Alliance Standards

- *Curriculum development*
- *Pilots project report*
- *On-line lectures*
- *On-line symposiums*
- *VR/XR experiencing environment*

2.3 Knowledge Centre: Annual Reports

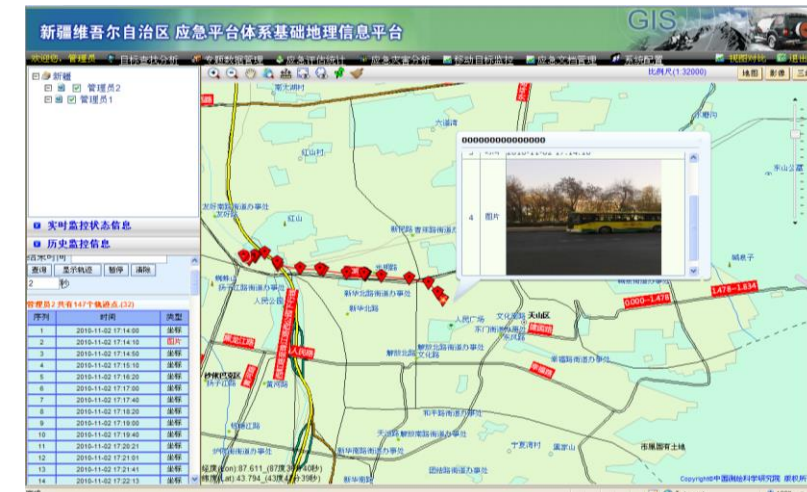
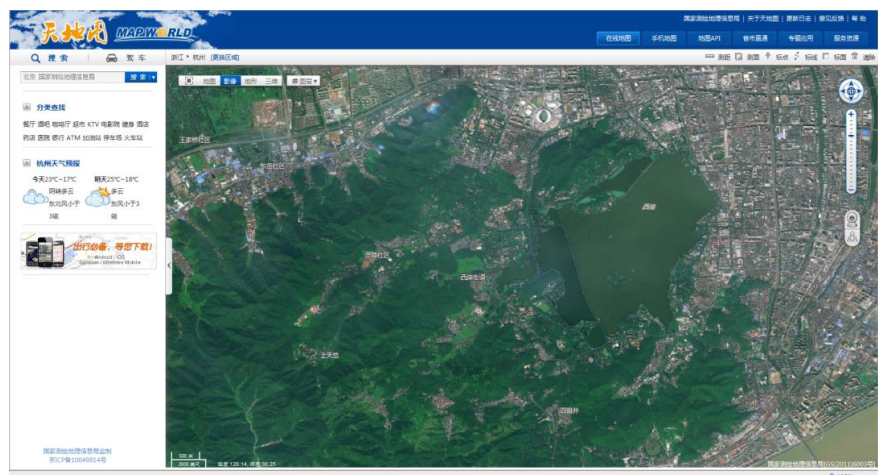


(From Stefan Schweinfest http://ggim.un.org/meetings/2021/Policy_Legal_Framework/)

3.1 Innovation and Technology Hub : Think Tanks -- Moganshan Talks

Future GeoApplications

- Digital Twin and Smart Cities
- Smart Farming and Food Safety
- Land Space Planning
- Smart Transportation and UAV
- Earth Sensing and DDR
- Green Development and Beautiful Earth
- Geodata and Global Governance



3.2 Innovation and Technology Hub : Pilot Projects

- *International Society of Photogrammetry and Remote Sensing*
- *ICA;FIG;ISO;*
- *Group on Earth Observations*
- *International Society of Digital Earth*

- *China Society of Surveying and Mapping*
- *China Association for Geospatial Information Industry*
- *China Association for Satellite Navigation System*
- *China Association for Remote Sensing Application*
- *China Society of Geology*



Roadmap and Timeline of Projects

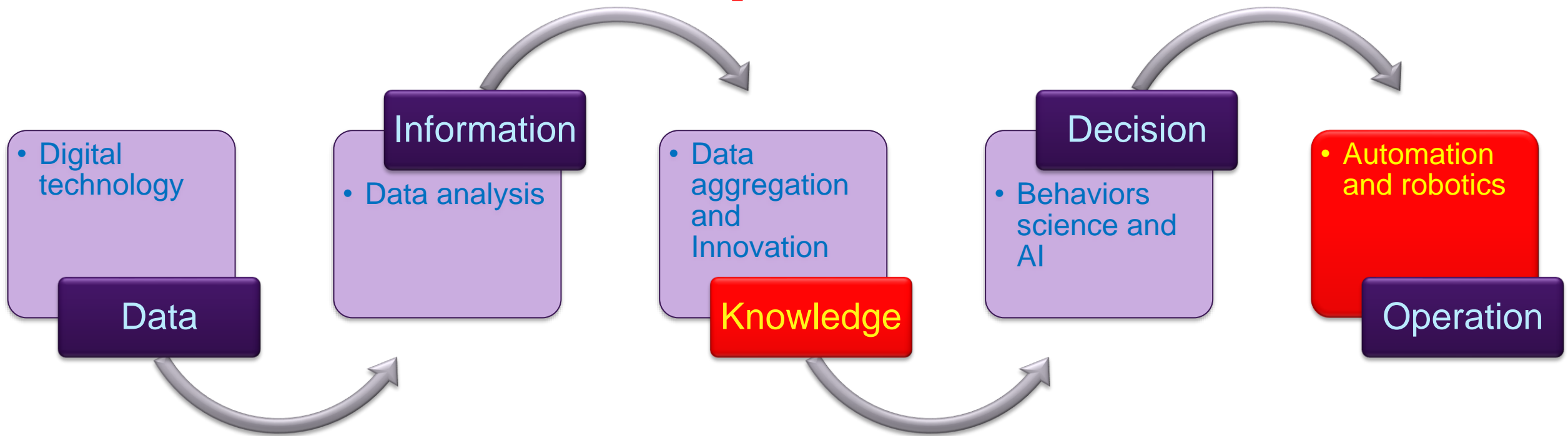
Steering Committee Virtual Meeting late Feb. 2024
International Adviser Committee Meeting in April 2024

ID	project	2024	2025	2026	2027	2028	2029	2030
1.1	IGIF TCB	○●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●
1.2	Leadership	○○●○	○○●○	○○●○	○○●○	○○●○	○○●○	○○●○
1.3	Open Week	○○○●	○○○●	○○○●	○○○●	○○○●	○○○●	○○○●
2.1	SDG Super Hub	○○●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●
2.2	E-Learning	○○●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●
2.3	Global Reports	○○●●	○○●●	○○●●	○○●●	○○●●	○○●●	○○●●
3.1	Think-Tank	○●○●	○●○●	○●○●	○●○●	○●○●	○●○●	○●○●
3.2	Pilot Projects	○○●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●

Africa-AP-Arab-America-Europe-China

Evaluation of Surveying and Mapping into AI Age

**G---Geographical, Geodetic, Geospatial,
Geo-temporal, Geoscience**



I---Information, Integration, Intelligence

THANK YOU !

Geospatial knowledge and innovation
is on great demands all over the world.

UN-GGKIC belongs to the World
and it must benefit all.

