Hydrography and Maritime

Theme: Geo-information Enabling Blue Economy and Maritime Security
GEOSPATIAL KNOWLEDGE INFRASTRUCTURE (GKI)
ENABLING SUSTAINABLE NATIONAL DEVELOPMENT

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

Integrated Policy Framework
Foundation Data
Partnerships and Collaboration
Industry Leadership

Knowledge 
Governance and Institutions
Data
Partnerships
Capacity and Education

Decisions
Legal and Policy
Innovation
Capacity and Education

Development
Financial
Standards
Communication and Engagement

UN-GGIM Integrated Geospatial Information Framework
User Industry Focus

Energy Transition
Transport & Infrastructure
Autonomous Driving
Land Administration
Logistics and Supply Chain
Cities
Public Safety and Security
Agriculture
National Geospatial Agencies

Topographic Survey

Land & Cadastre Agency

Space Agency

Geological Survey

Hydrographic Survey

Thematic Mapping Agencies
National Geospatial Agencies – Value Chain Functions

- Policy & Standards Development and implementation
- User Demand Identification
- Data Collection
- Data Management & Dissemination
- Map Production
- Application Development
- Technology and Infrastructure Development
- Technology Transfer and Incubation
- Capacity Building
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High socio-economic impact of NGAs

Salient features
- Regulatory framework encompassing quality and ethical considerations for geospatial adoption
- Clear understanding of evolving user demand across domains
- High-level collaboration with geospatial industry to provide spatial dimension to domain-specific applications
- High-resolution 3D and 4D models to facilitate development of national real-time digital twins
- High level of association with digital and telecommunications industry for enhanced accessibility

Applications
- Demand-driven integration of spatial and non-spatial knowledge and industry standards for domain-specific applications

Foundation Data
- Supply-driven data collection and dissemination across fundamental themes

Data Infrastructure
- Integration of spatial data from diverse sources through standards

Platform and Analytics
- Analysis of standardized data over platforms, enhancing accessibility

Knowledge Services
- Automated extraction of knowledge from machine-readable data for specific use-cases

Workflow and system integration

Level 1 - Supplier
Level 2 - Operator
Level 3 - Manager
Level 4 - Facilitator
Level 5 - Regulator

Social impact (through contributing to national development)