

Expert Consultation and Meeting on Enhancing Geospatial Information Management Arrangements and Accelerating Implementation of the Sustainable Development Goals, and the Sub-regional Workshop on the United Nations Integrated Geospatial Information Framework (UN-IGIF) for Central Asia, South Asia, and neighboring countries

Implementing geospatial strategies: challenges and opportunities

**Astana, Kazakhstan
15-19 September 2025**



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Enhancing Geospatial Information Management arrangements Accelerating the Implementation of the SDGs

Sub-regional Workshop on UN-IGIF for the Central Asia, South Asia and Neighboring Countries

Islamic Republic of IRAN

Presidency
Plan and Budget Organization

National Cartographic Center(NCC)



National Cartographic Center
(NCC)



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Where is your country today in enhancing the management and use of geospatial information?

- Developing and Functionalization NSDI and Provincial SDIs
- Using GSGF Standards in Joining Spatial and Descriptive Data
- The national implementation of the UN-IGIF began with the process of establishing the National Steering Committee for Geospatial Information, which is currently undergoing official approval.



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Where does your country aim to be in the next five years?

- Integrated Data Foundations: (GSGF).
- Modernized Land Management: (FELA).
- AI-Powered Infrastructure: (AI) in (SDIs).
- Standardized Digital Construction: (BIM).
- Immersive Experiences: (AR), (VR), (XR) technologies .
- Dynamic & Connected Models: (3D city models) and (IoT).
- Spatial Digital Shadow: a dynamic digital representation.
- The Path to Spatial Digital Twin: Ultimately, we are advancing towards a full Digital Twin of our nation. This will empower us to entrust the management of population centres to AI-driven systems for optimized urban operations and future planning.

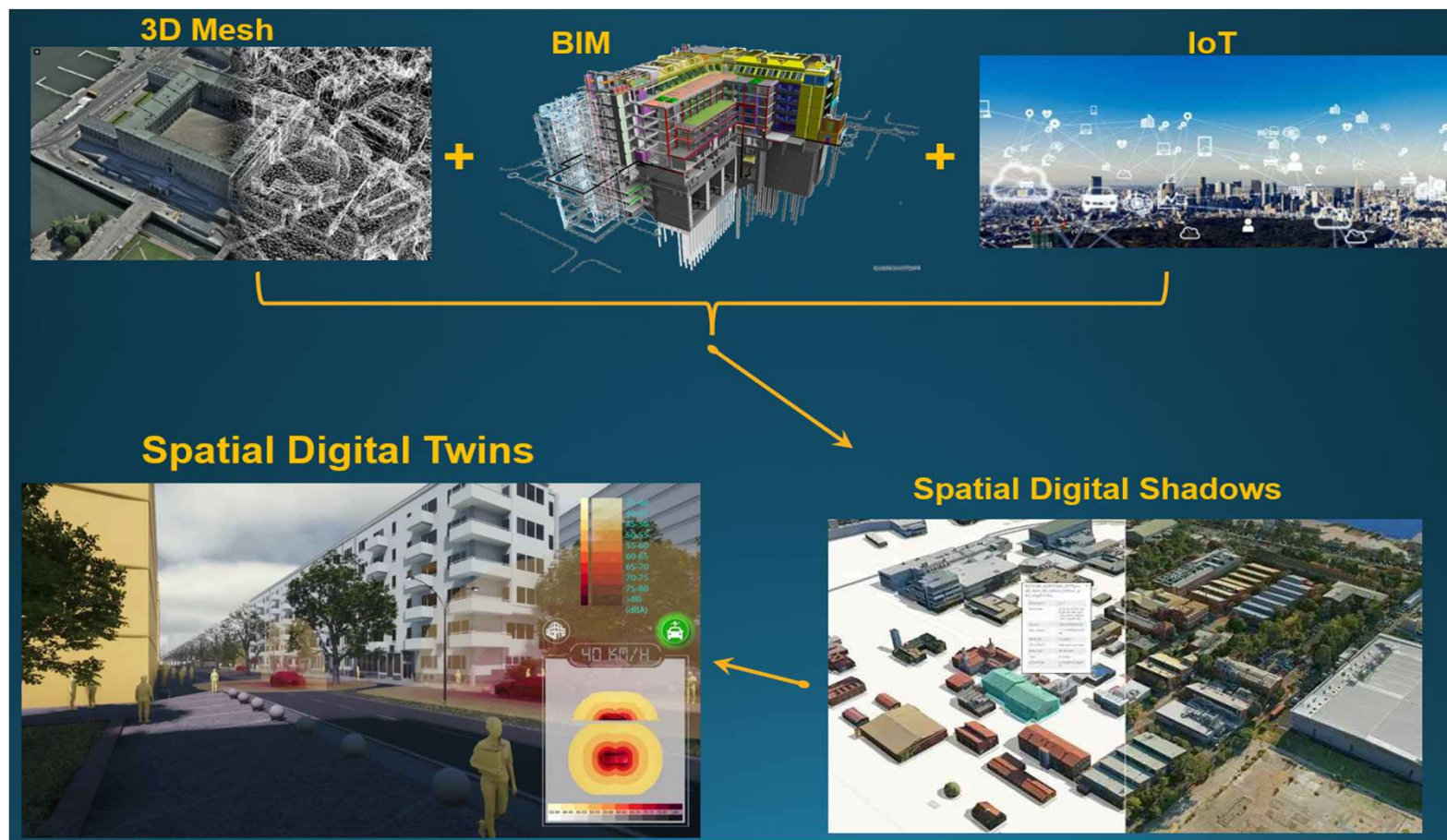


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Where does your country aim to be in the next five years?



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What do you see as the main challenges in reaching this “ideal” situation within the next five years?

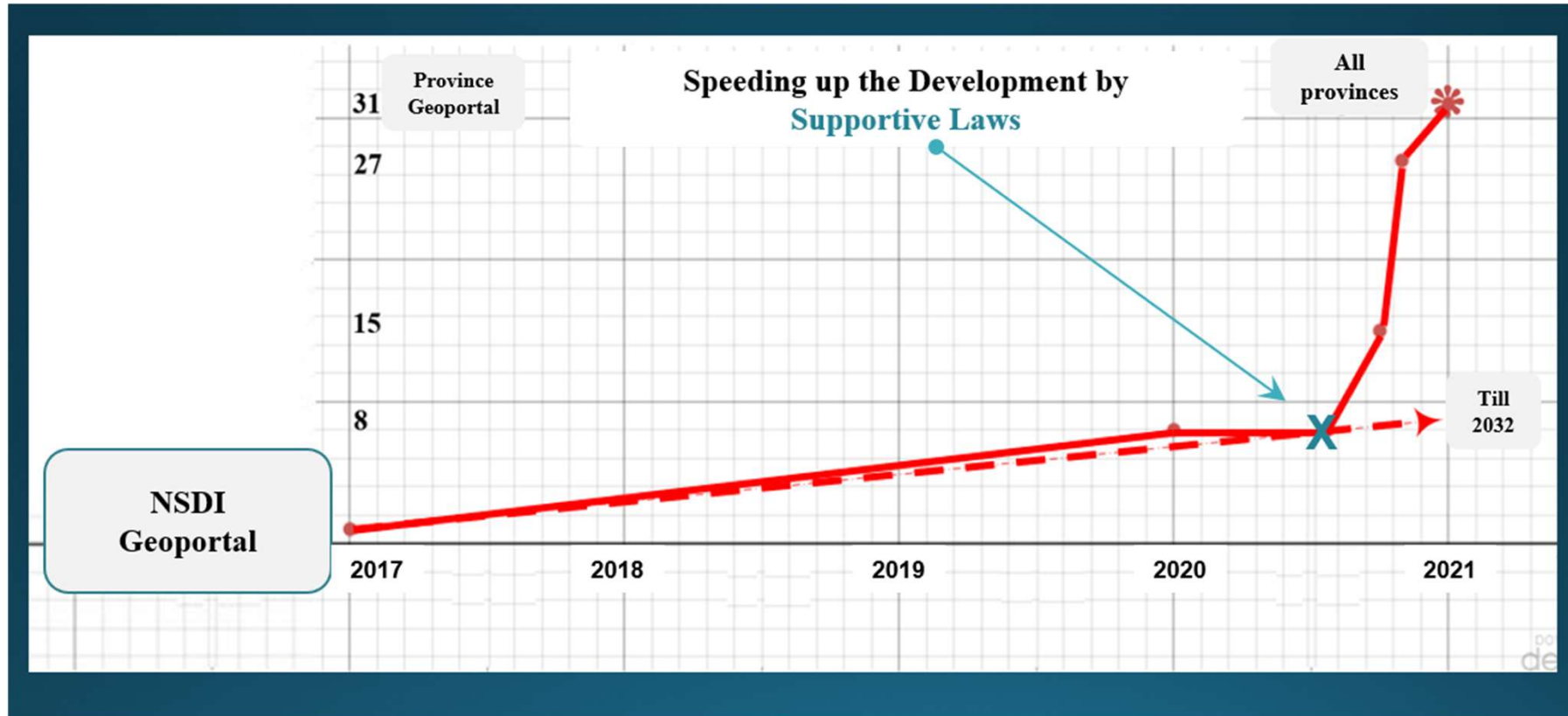
- The Lack of Nationally Approved and IGIF-Aligned Mandates.
- Awareness Gap Among Decision-Makers.



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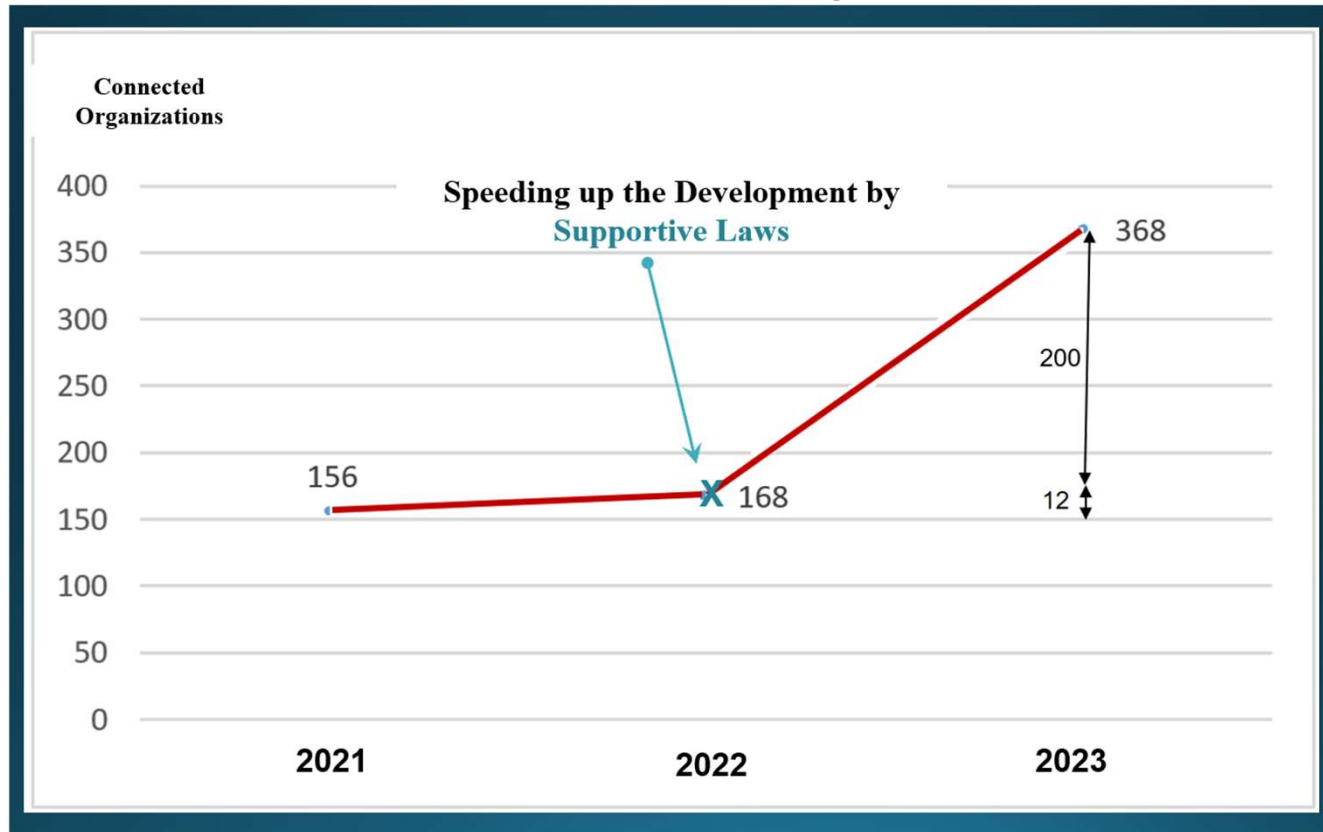


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What potential opportunities could help address some or all of these challenges?

- Translate Technical Value into National Priorities, In parallel with attention to "IGIF" and "SDI ", Start talking about "SDGs ", "Economic Growth" and "Disaster Resilience".
- Create a Coalition of Champions: (e.g., Finance, Planning, Interior)
- Leverage International Mandates for National Action .



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How familiar are you with UN-GGIM, the UN-GGKIC, the IGIF, and the CAP?

- **Direct Engagement:** Our national journey has been profoundly shaped by active participation in PCGIAP and UN-GGIM-AP and Working Groups sessions.
- **Tangible Outcomes:** Key national initiatives—including our NSDI, GSGF, and transition toward FELA—were directly conceived and catalysed through this engagement.
- **Future Implementation:** We are now leveraging the IGIF as our overarching strategic roadmap and the CAP as a key tool for planning and gap analysis.



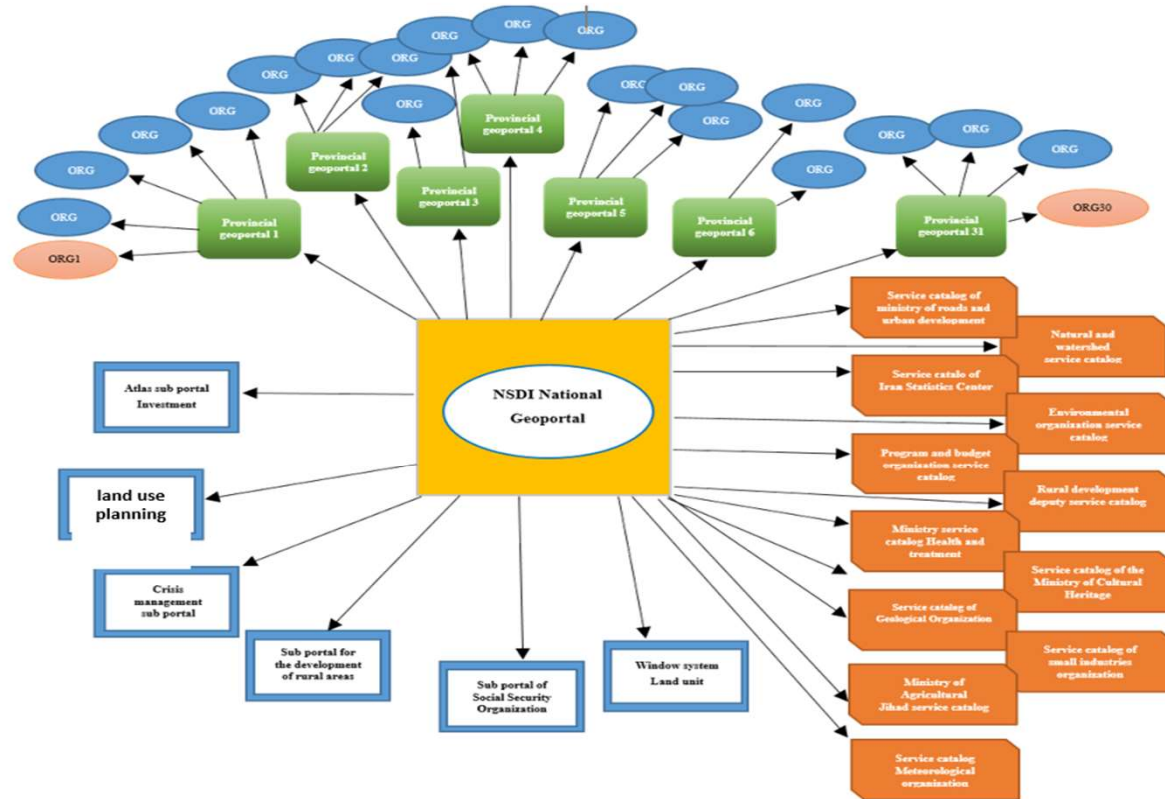
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Components, Interoperability, and Participation in Iran's SDI

UN-GSGF in Iran



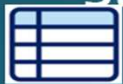
31	provincial geoportals
540	connected organizations in the National & Provincial SDIs
25000	Spatial services registered in National & Provincial SDIs
15	Connected service catalogs of national organizations
6	sub-portals of NSDI
90	organizations completing the documents on Information Security Management

Utilizing GSGF Standards: A Solution for Effective Data Integration

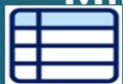


land use
planning

Statistical Center



Ministry of Energy



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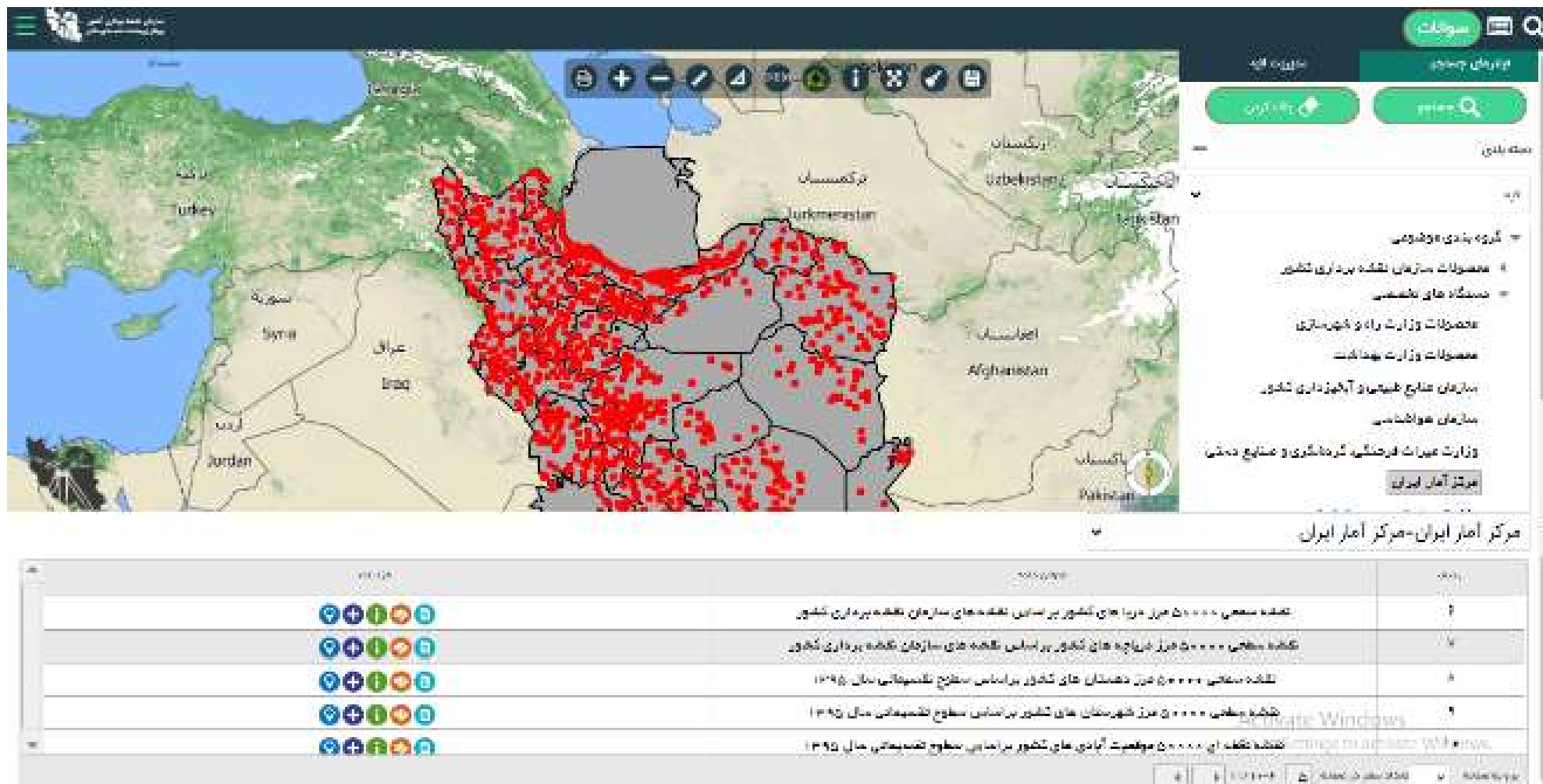
NSDI



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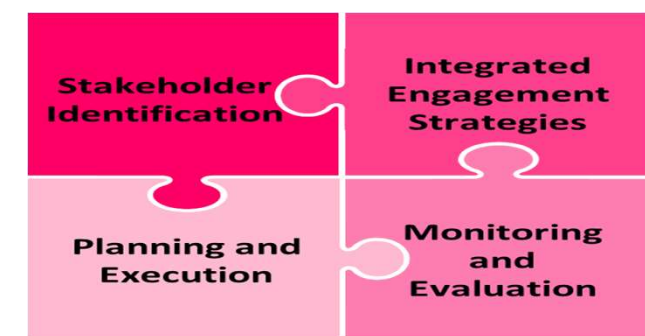
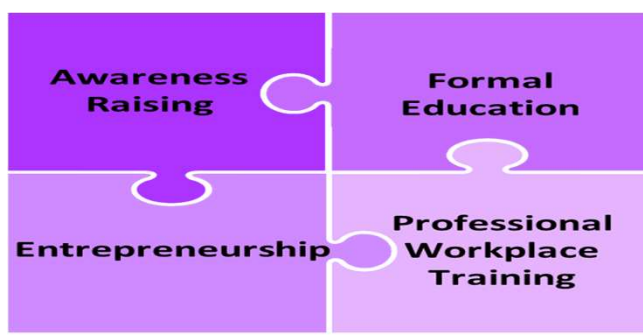
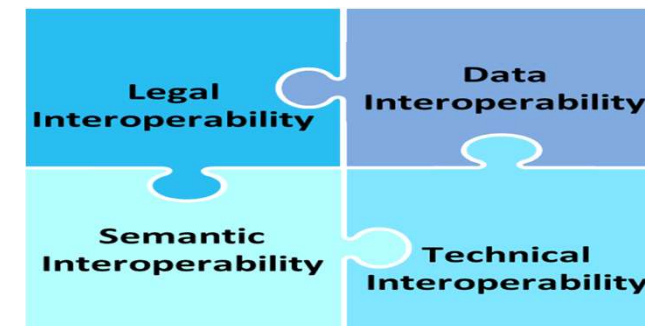
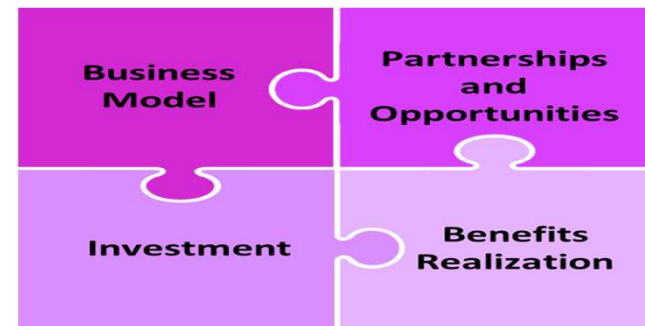
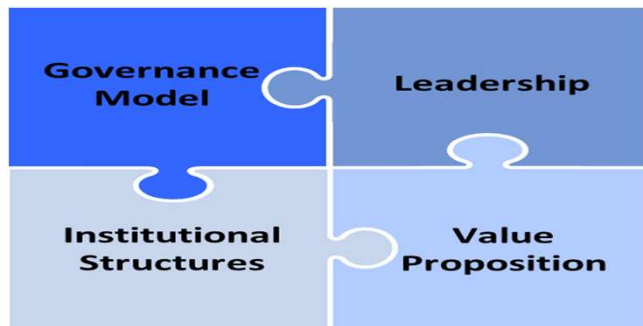
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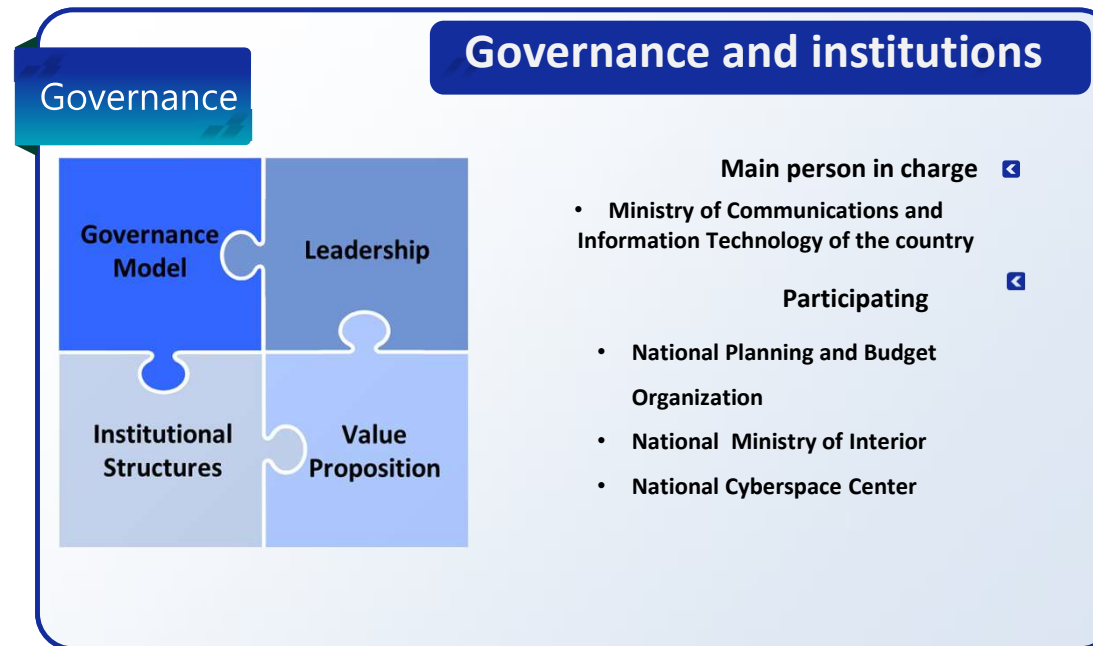
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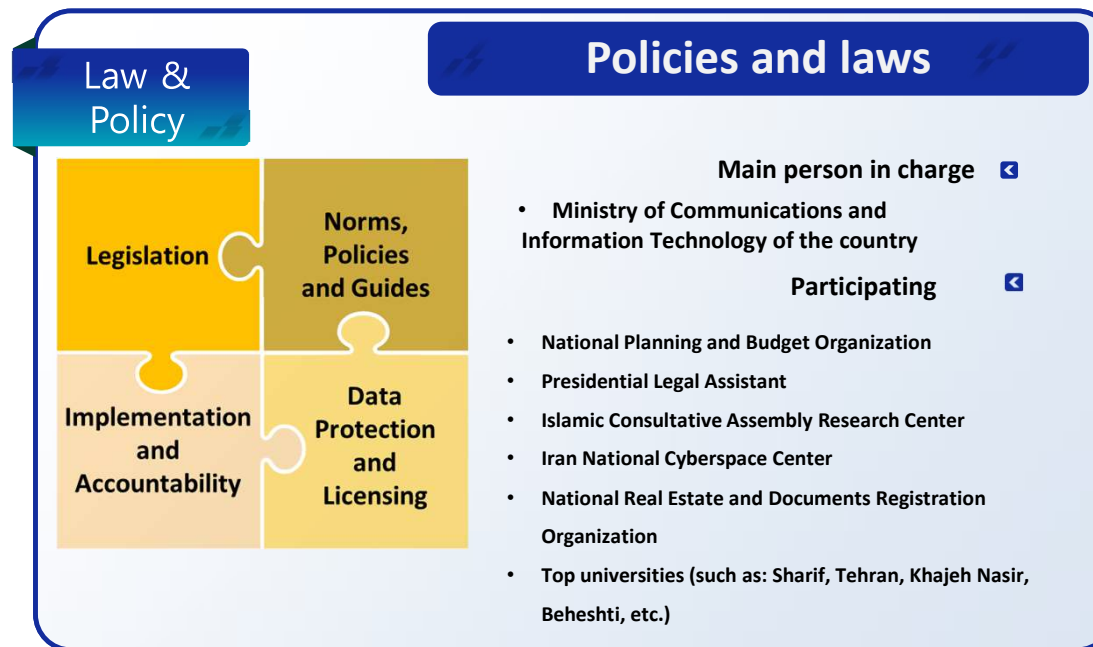
SP1 Governance and Institutions Refined



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SP2 Policy and Legal Global Consultation

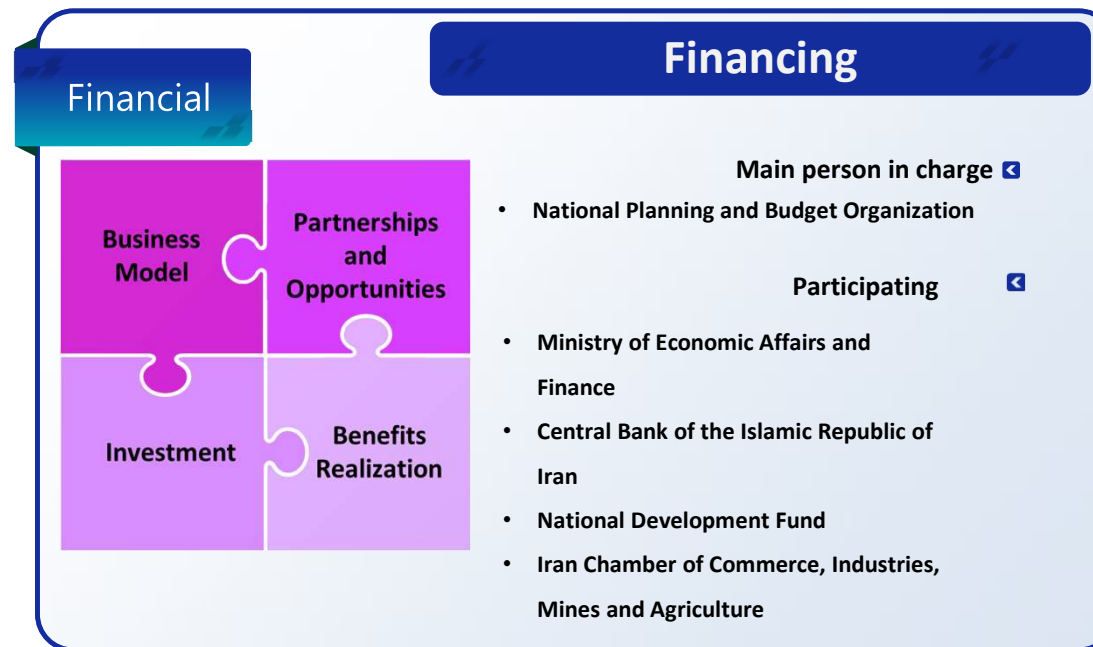


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SP3 Financially Refined

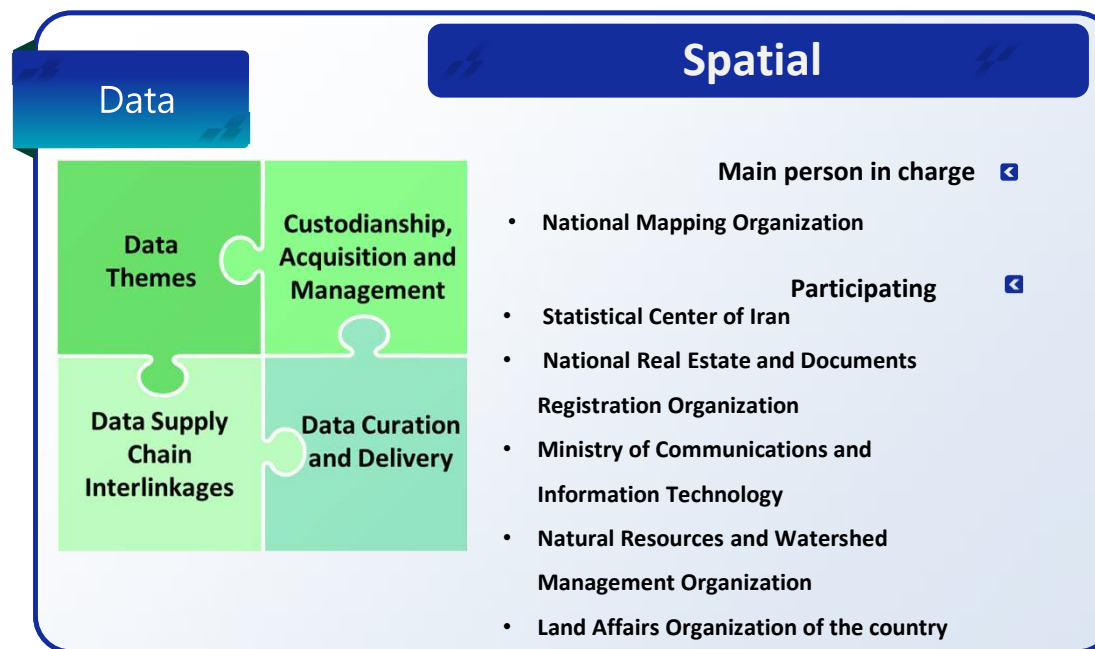


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SP4 Data Global Consultation

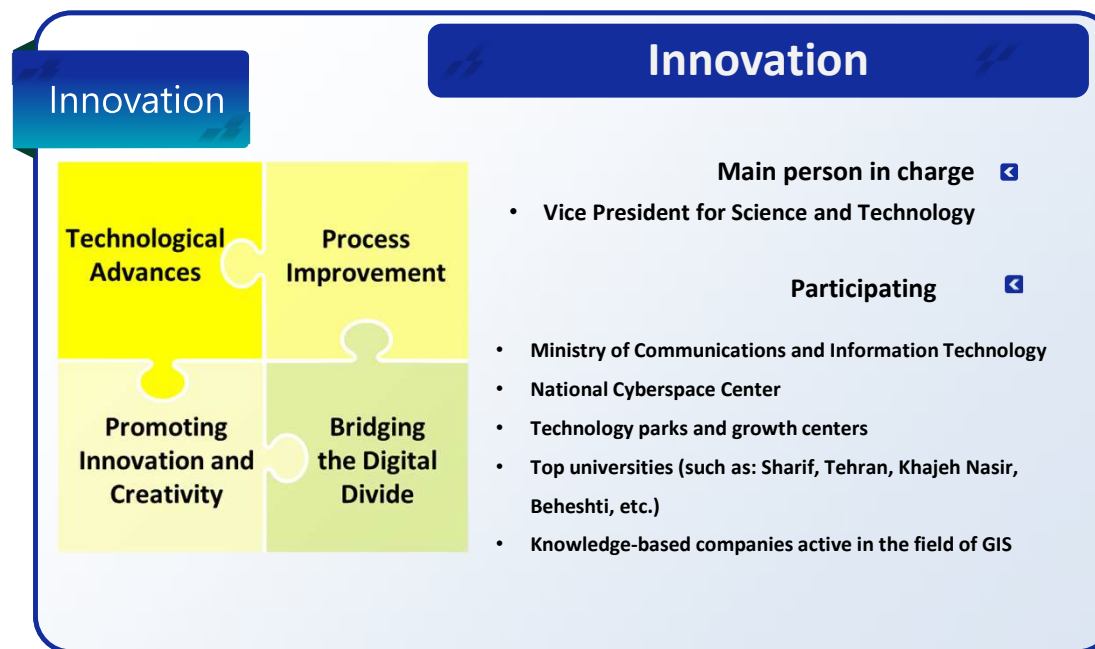


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SP5 Innovation Global Consultation

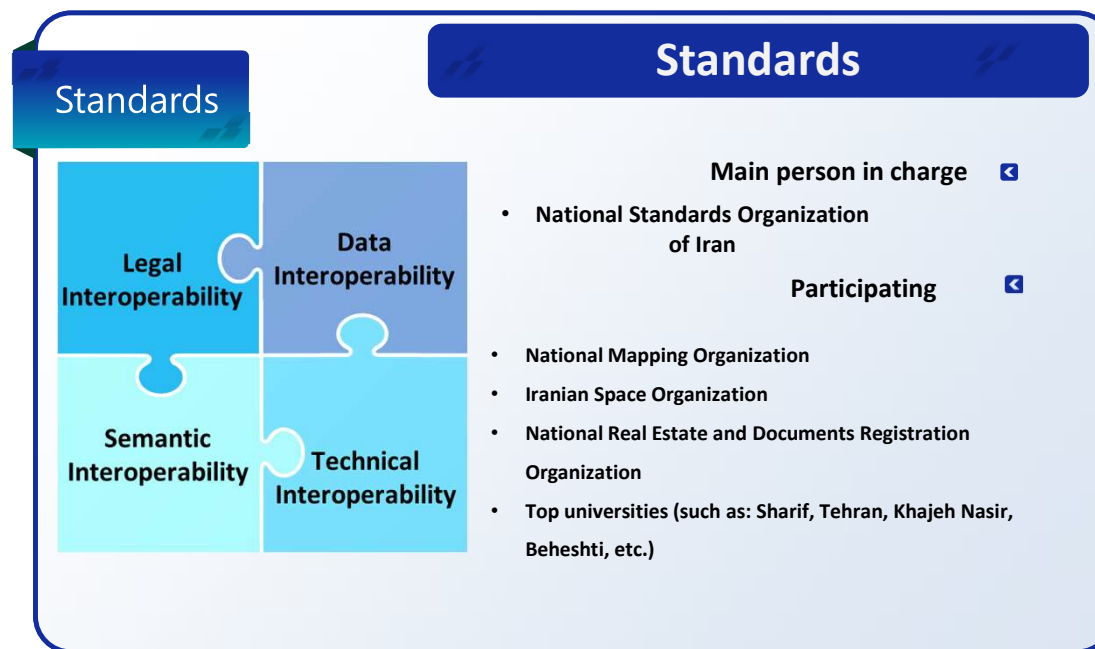


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SP6 Standards Refined

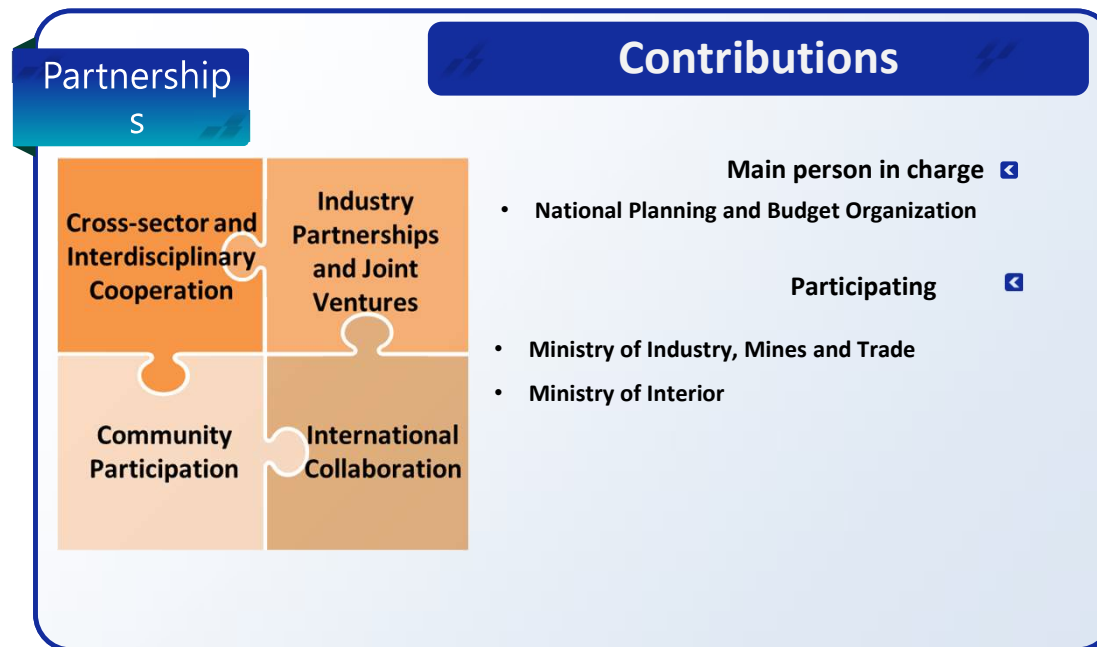


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SP 7 Partnership Refined

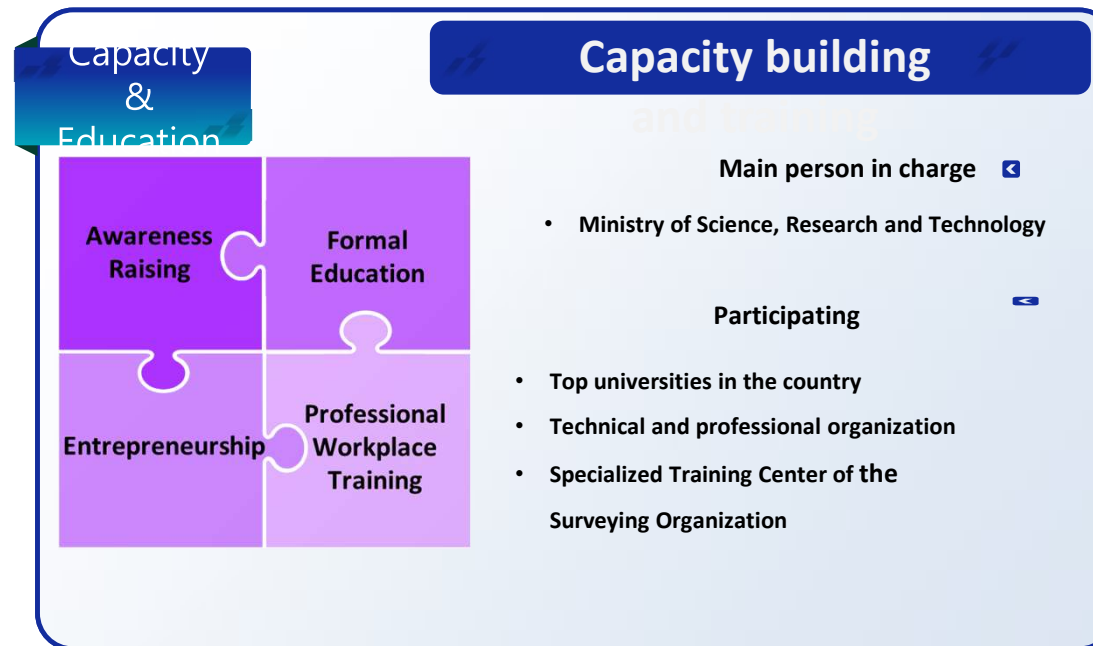


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SP 8 Refined Capacity and Education

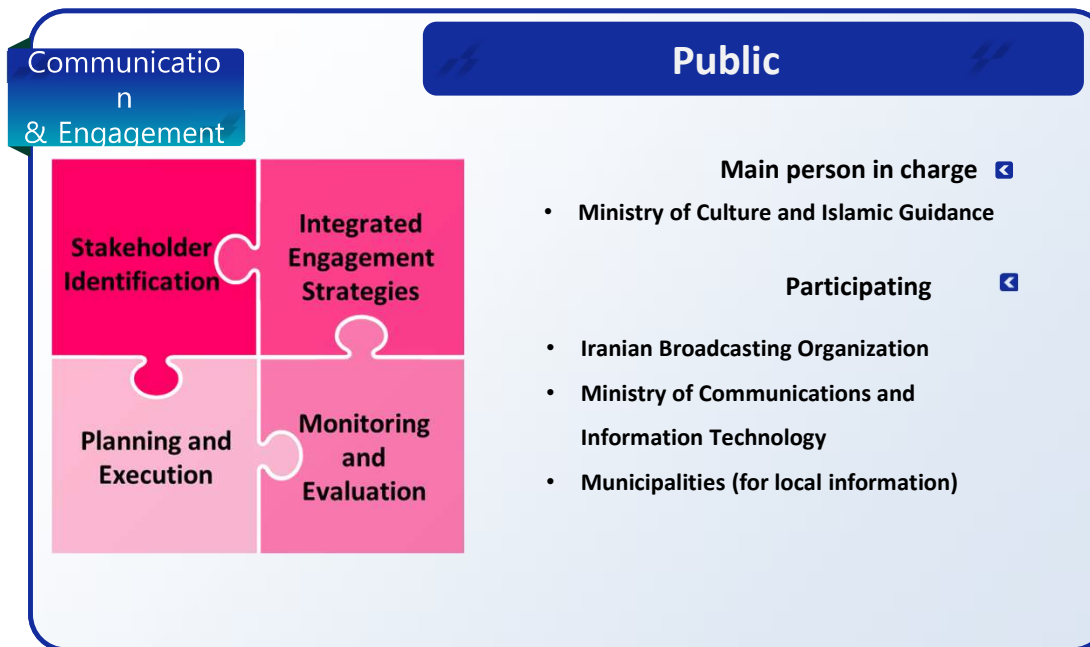


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SP9 Communication and Engagement Refined



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What kind of support would you like to receive from UN-GGIM, UN-GGKIC, or other partners?

Please describe the type of support you would like to receive to help address the current challenges observed in your country regarding the management and use of geospatial information.

- Advocacy & Awareness for Decision-Makers
- Tailored Policy Development Assistance
- Capacity Building & Knowledge Transfer



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THANK YOU



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