



**13th Plenary meeting of the
United Nations Global Geospatial Information Management
for Asia and the Pacific**

**Report of the UN-GGIM-AP Working Group 3
(2024)**

*the activities carried out in the field of **GSGF***

26th to 29th November,
Bharat Mandapam, New Delhi

GISday

**Heartily thanks and appreciation to the
Dr. Antonius Bambang Wijanarto,
esteemed President of UN-GGIM-AP for his kindly motivating message
at the GIS Day ceremony in Iran.**

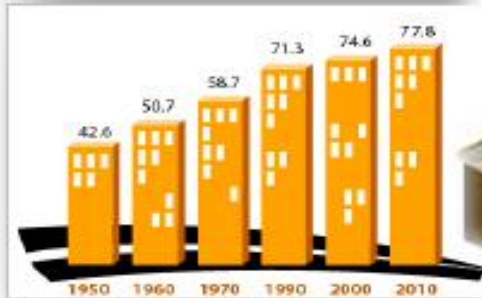
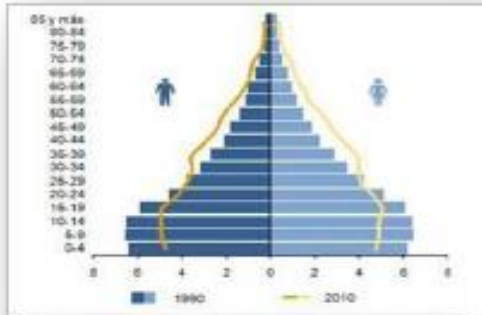


Integrating geospatial and statistical information to achieve the SDGs

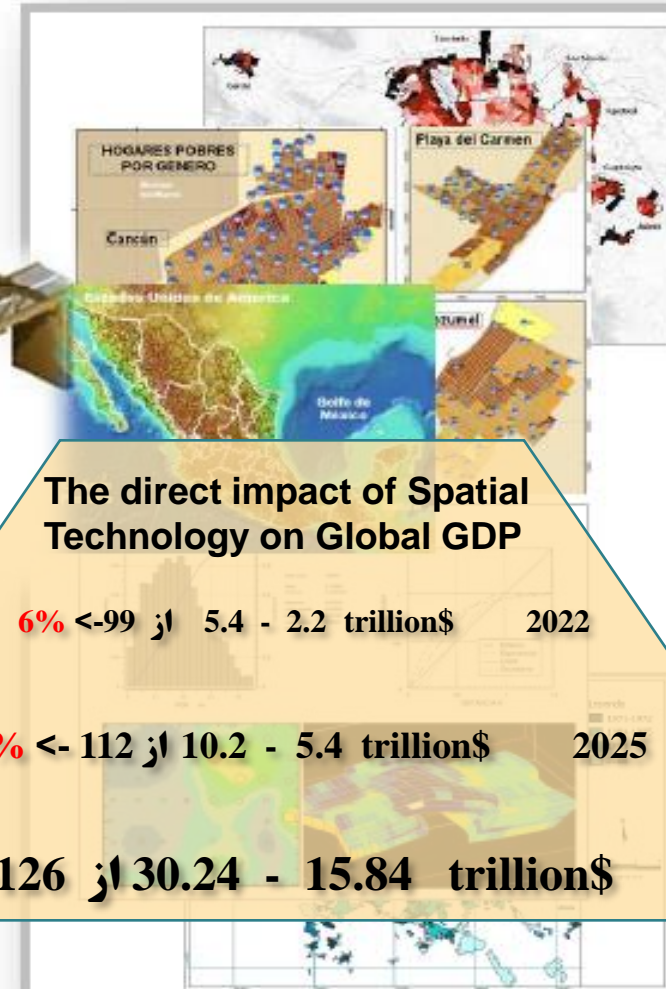


GSGF Introduction

Statistical Information



Geographical Information



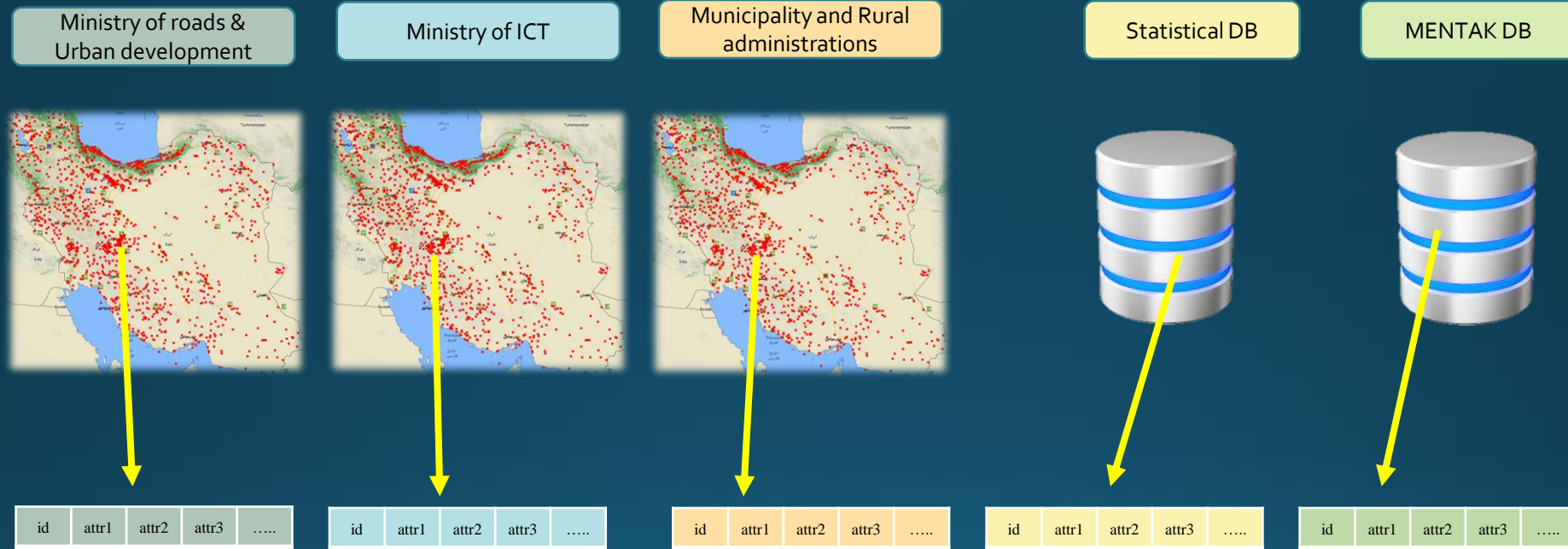
The direct impact of Spatial Technology on Global GDP

6% <-99 از 5.4 - 2.2 trillion\$ 2022

9% <- 112 از 10.2 - 5.4 trillion\$ 2025

24% <-126 از 30.24 - 15.84 trillion\$ 2030

Problem Definition



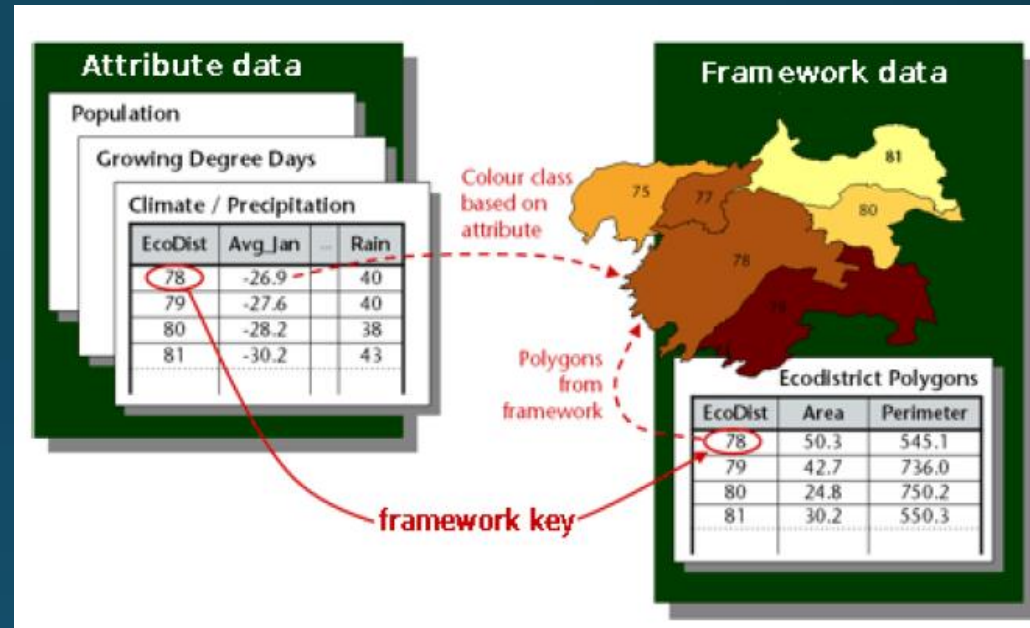
Problem Definition



id	attr1	attr2	attr3	id	attr1	attr2	attr3	id	attr1	attr2	attr3	id	attr1	attr2	attr3	id	attr1	attr2	attr3
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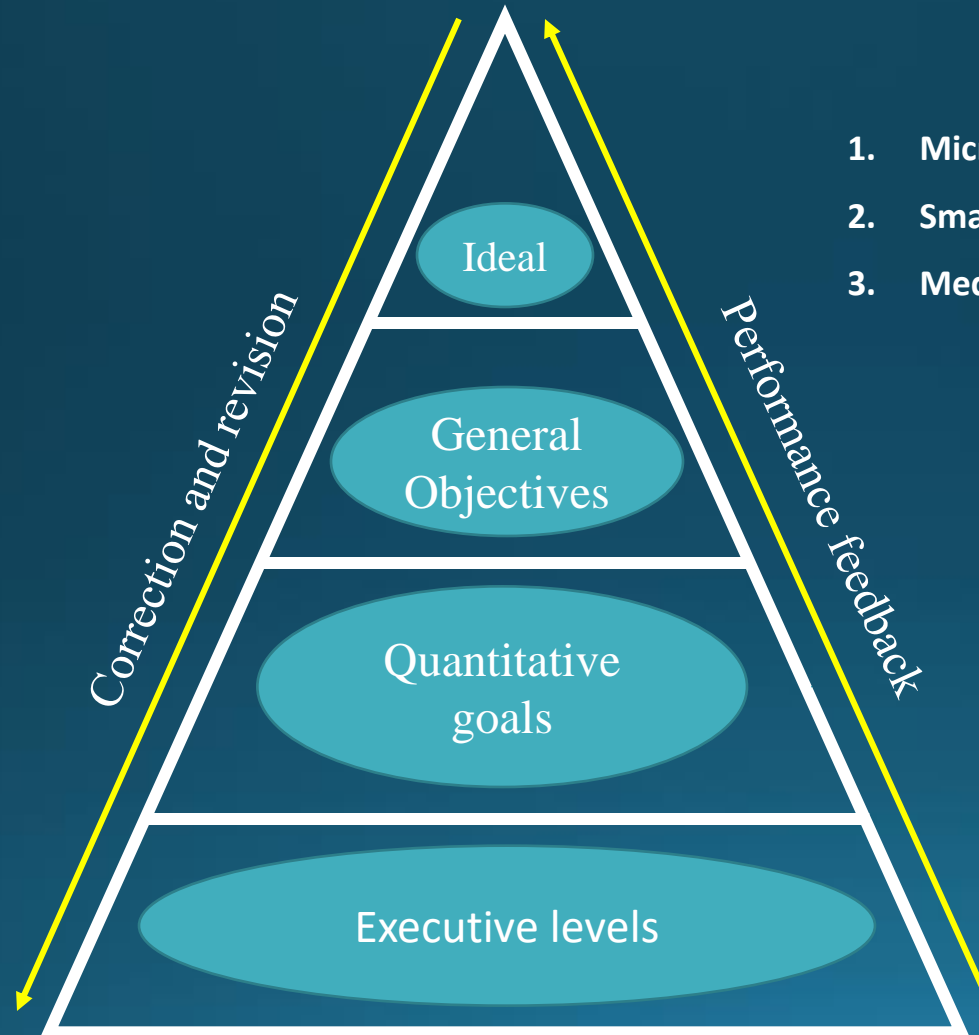
Implementation

- The prerequisite for implementing the TJS service is the existence of a unique field in both statistical and spatial datasets.



SDI Necessity

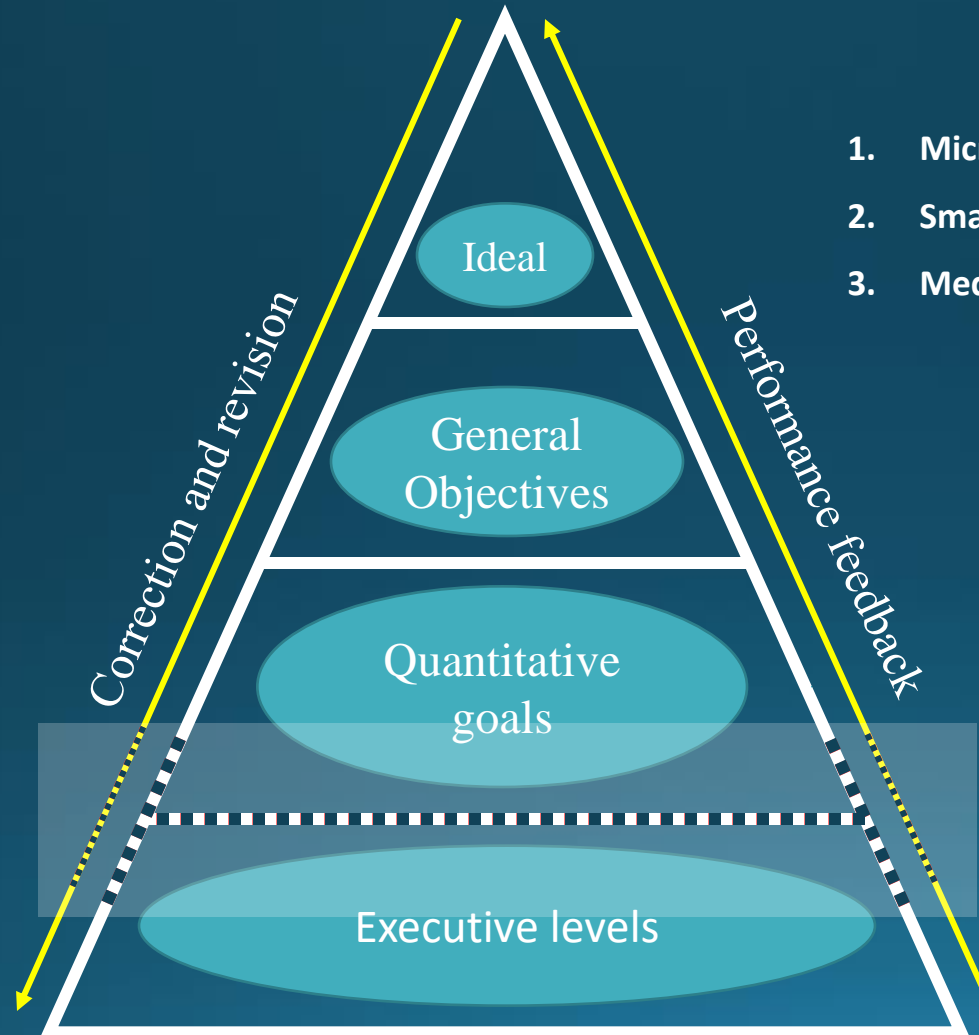
from very local to global levels



1. Micro enterprises: 1-9 employees
2. Small enterprises: 10-49 employees
3. Medium enterprises: 249-50 employees

SDI Necessity

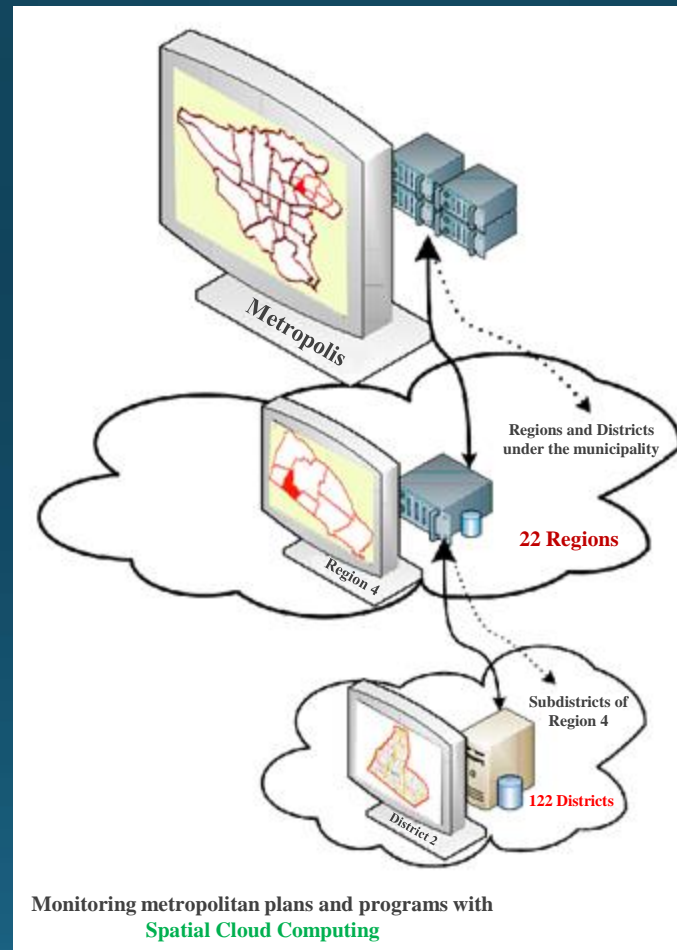
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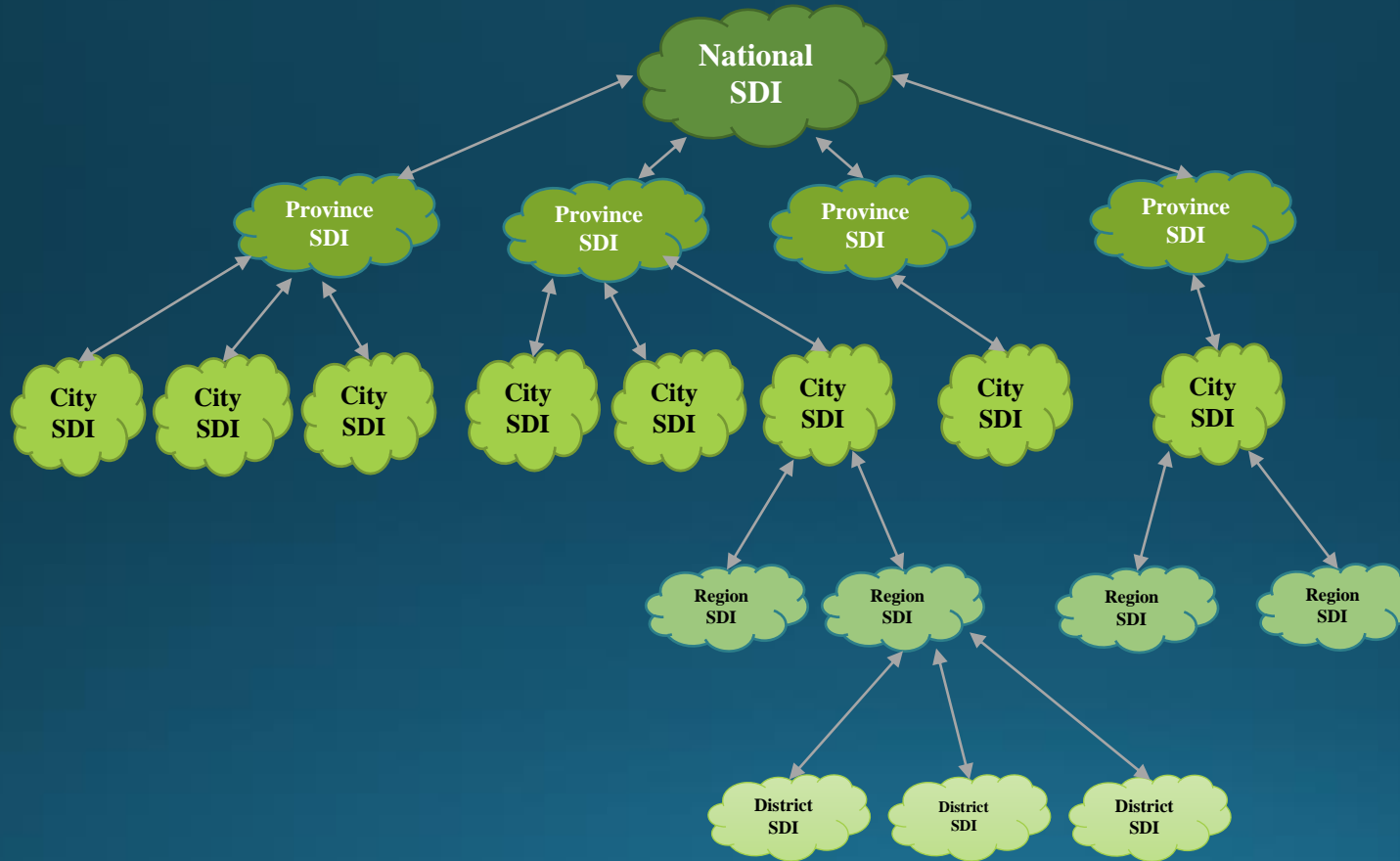
SDI Necessity

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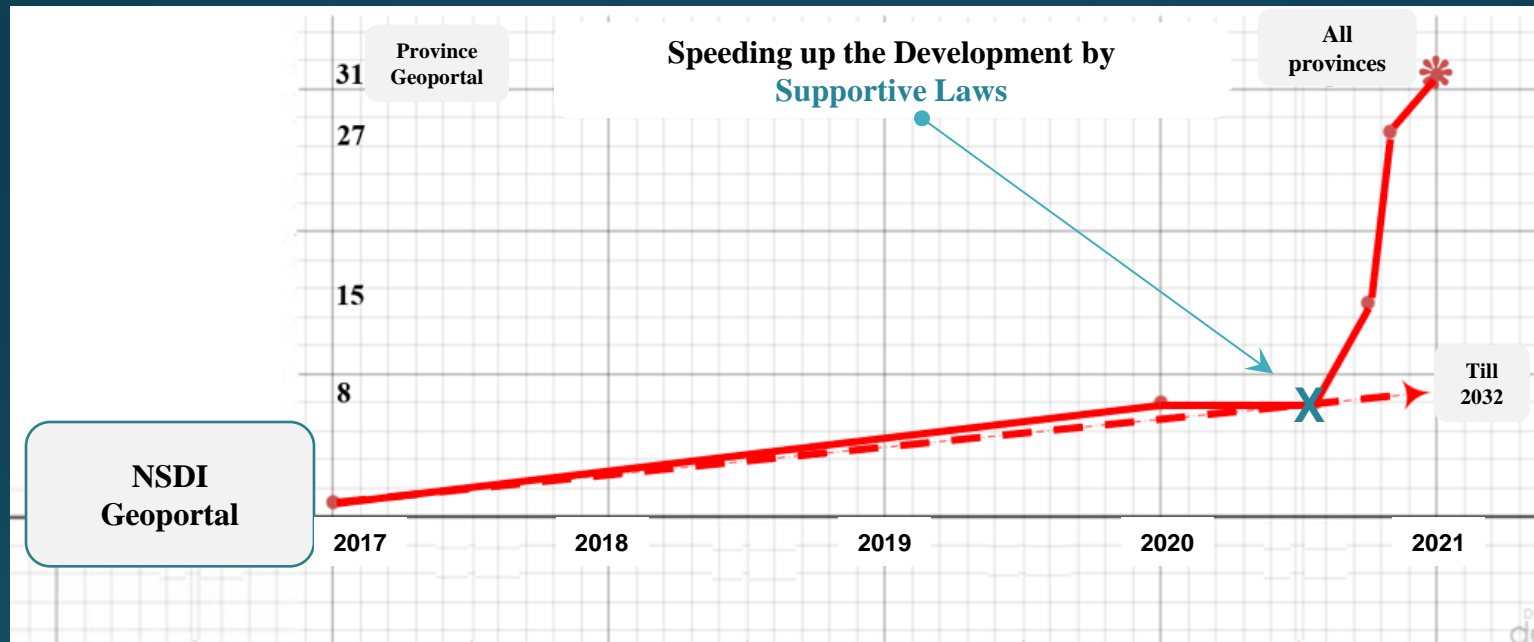


SDI Necessity

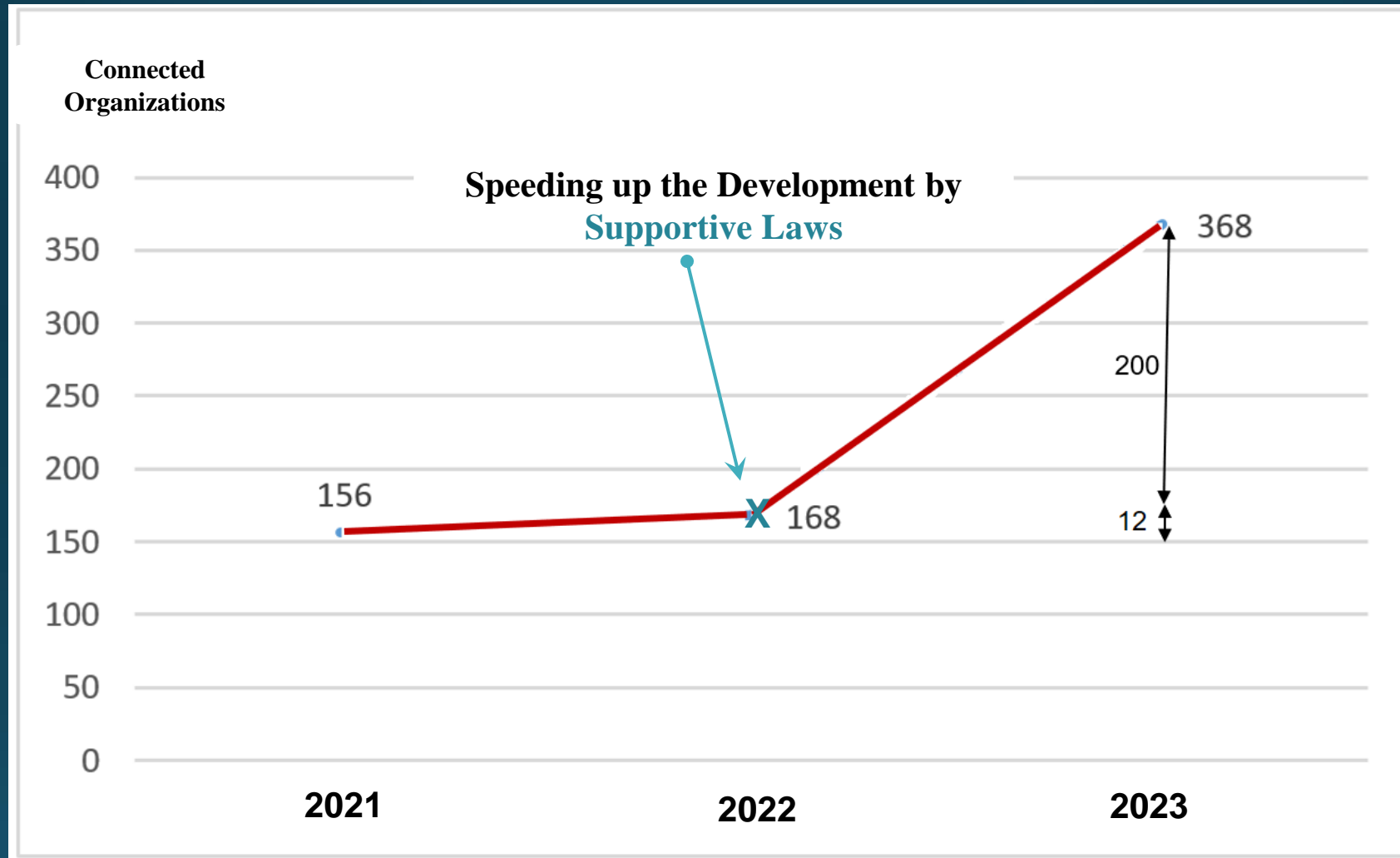
from very local to global levels



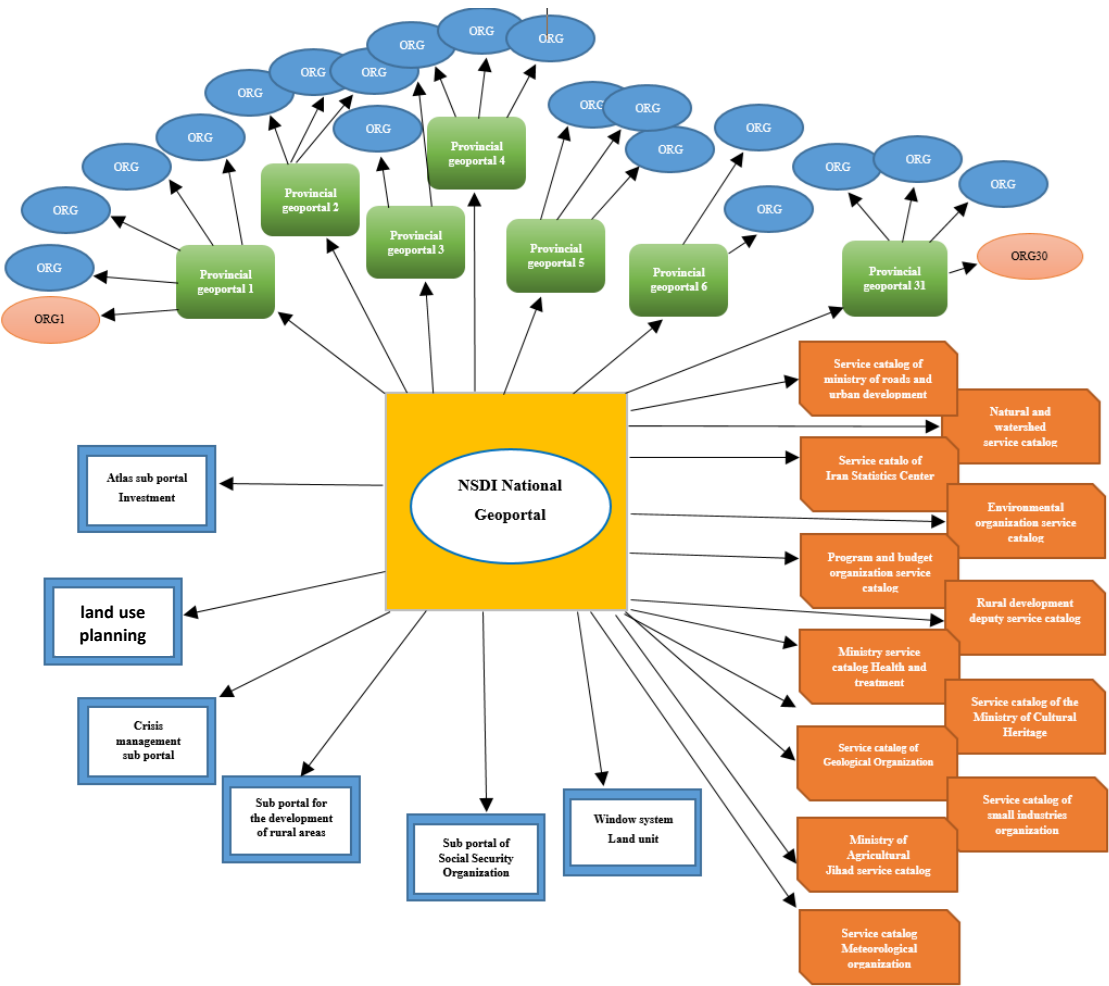
Iran NSDI Progress



Iran NSDI Progress

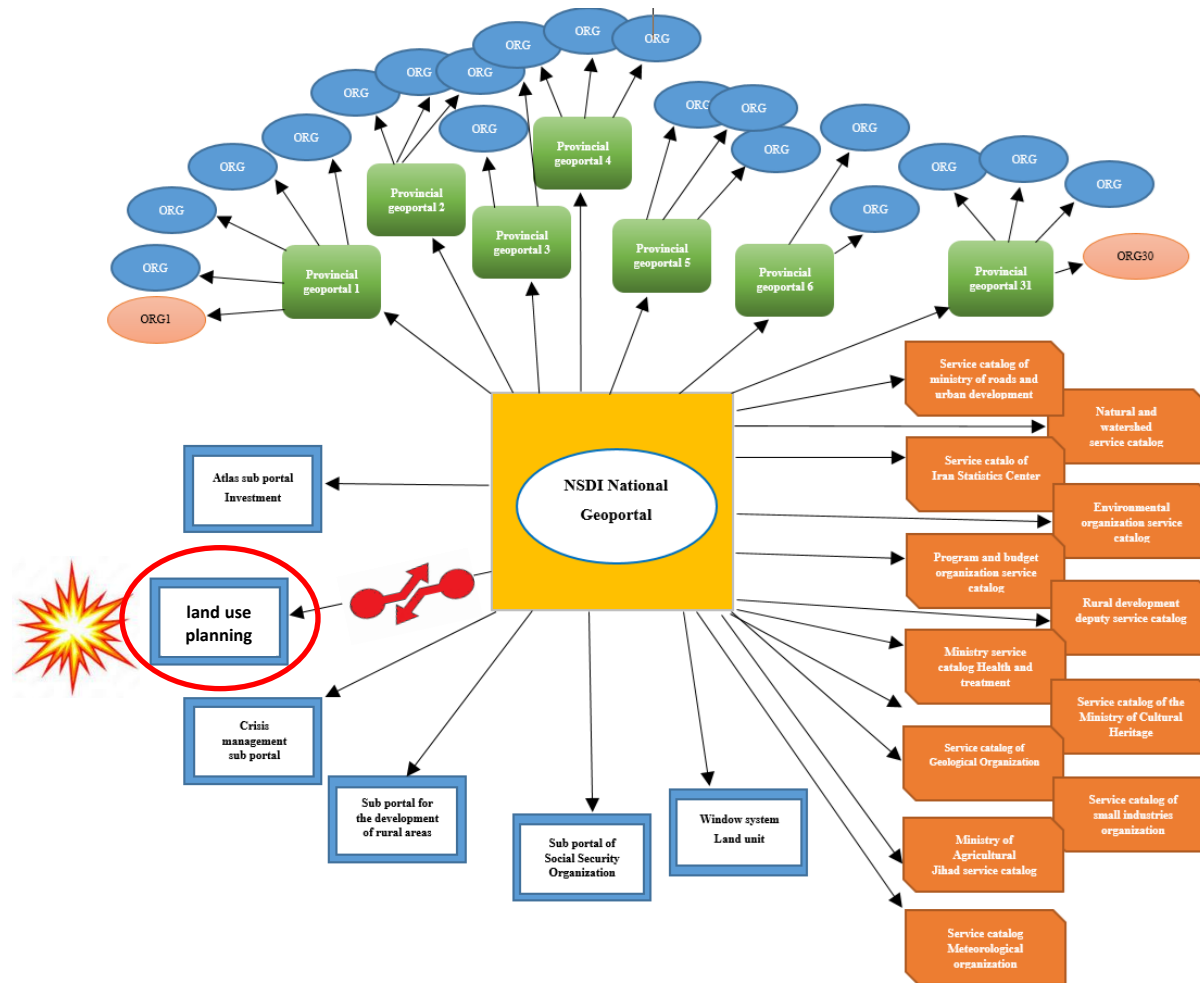


Components, Interoperability, and Participation in Iran's SDI



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

"Facing a challenging issue"



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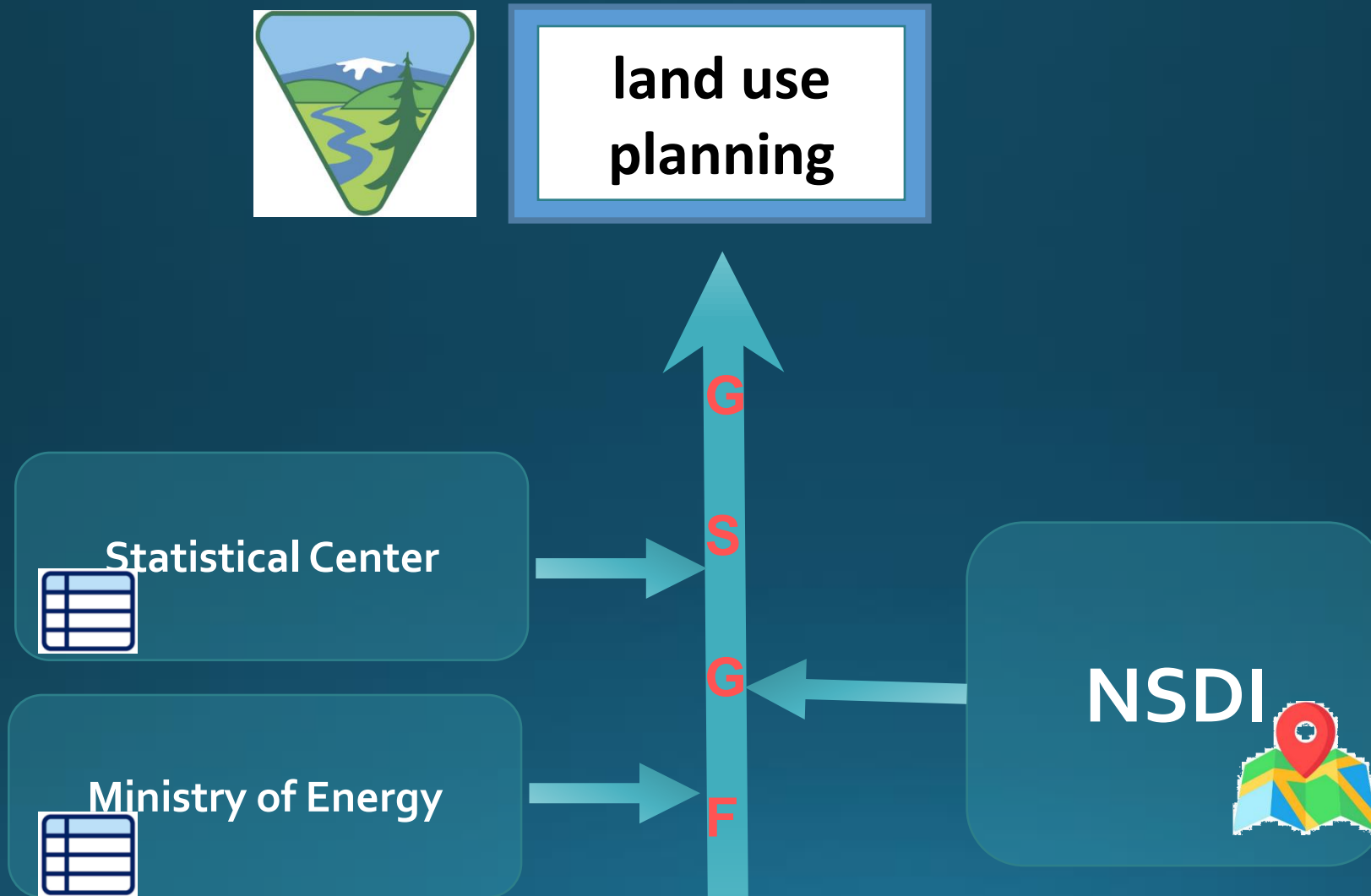
Multiple Descriptive layers is required for a Spatial layer



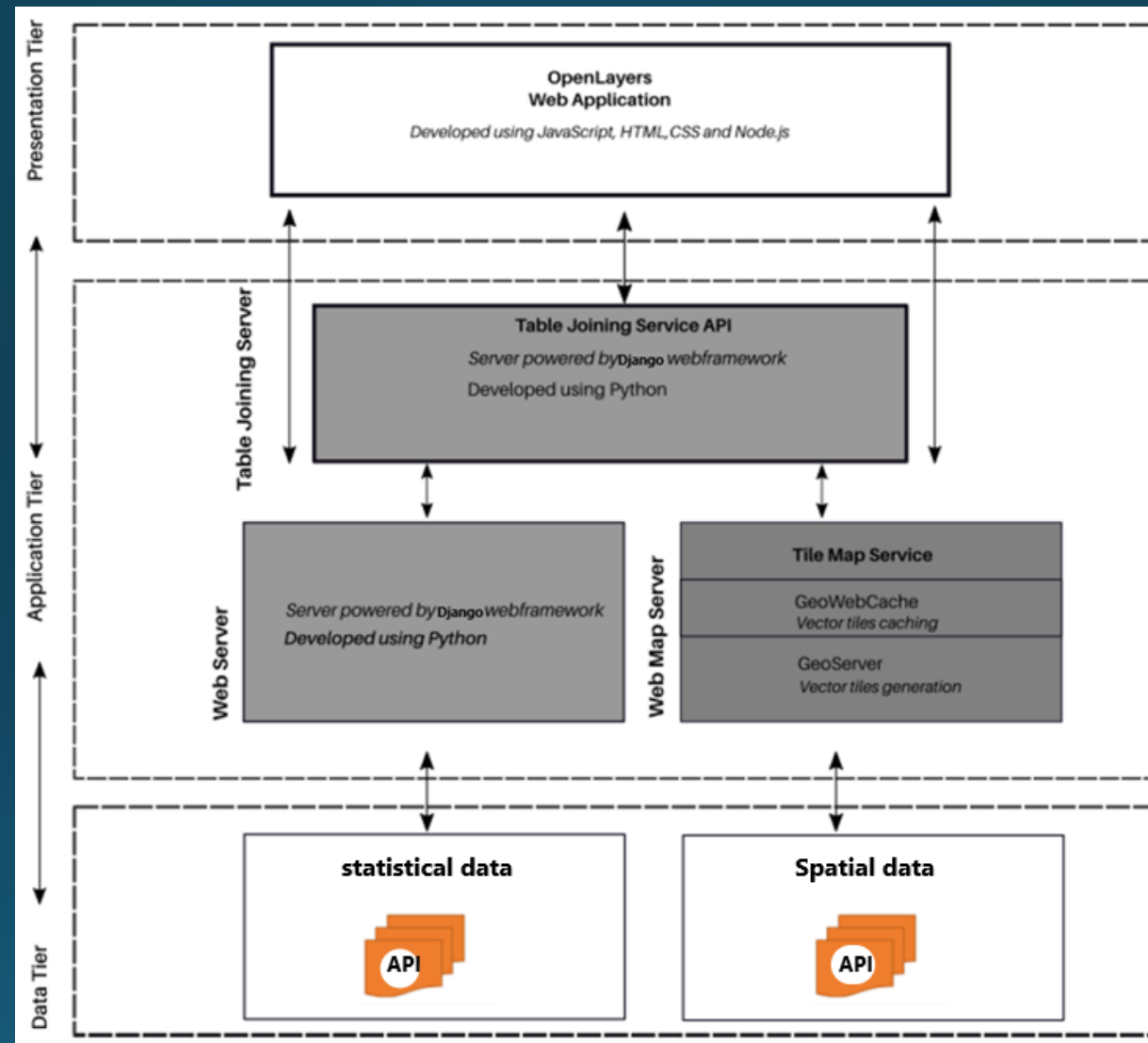
land use
planning

Descriptive Data Custodians	Feature Type	Descriptive Data	Spatial Layer Custodian	Title	Num
Waiting for the completion of Attribute Data services from the Statistical Center of Iran through TJS	Polygon	City	Ministry of Roads and Urban Development	New Cities	n
		Diverse Classes of Population			
Waiting for the completion of the Ministry of Energy's Specialized Geoportal		Access to the Drinking Water			
		Access to the sewer network			

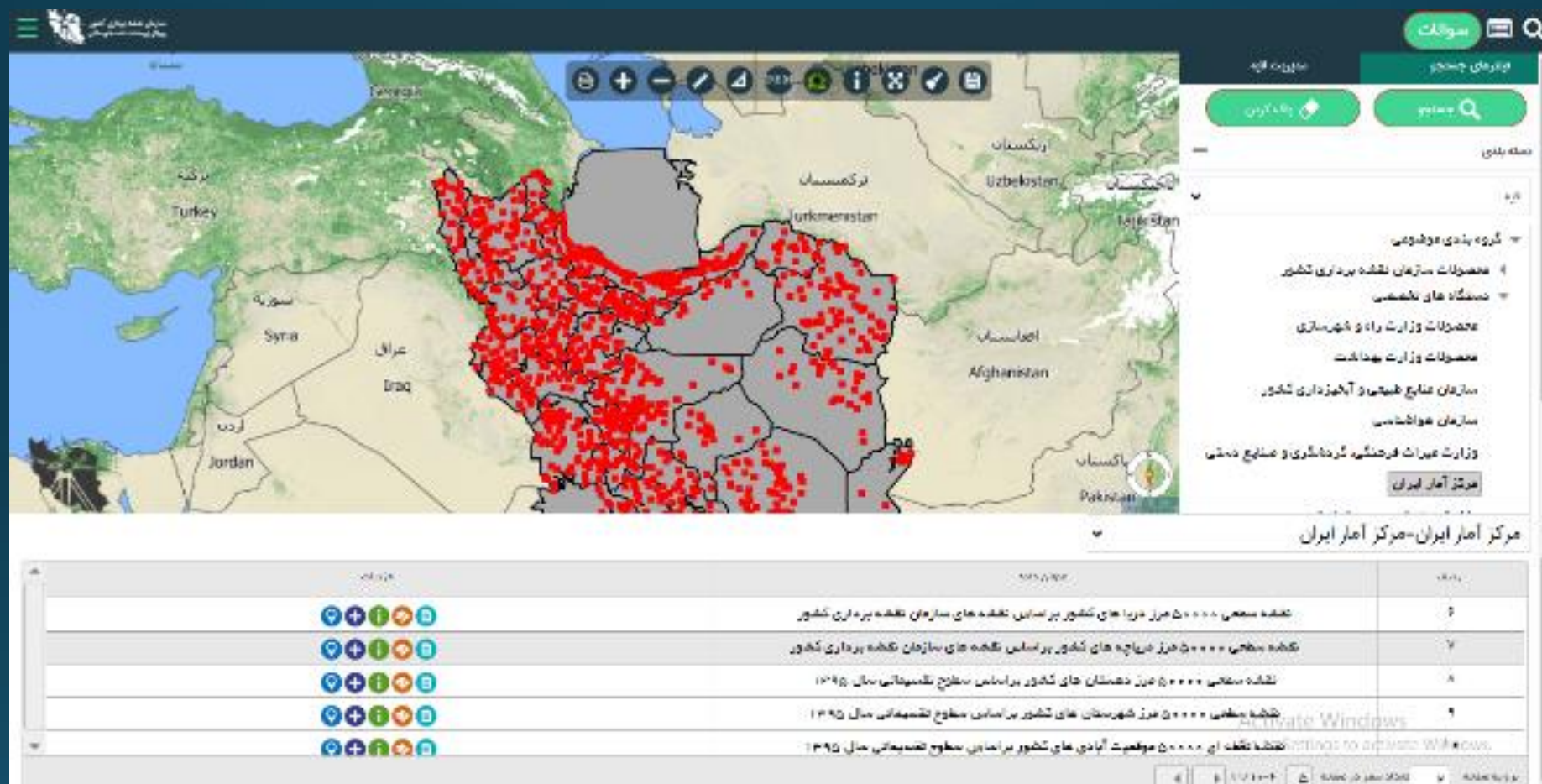
Utilizing GSGF Standards: A Solution for Effective Data Integration



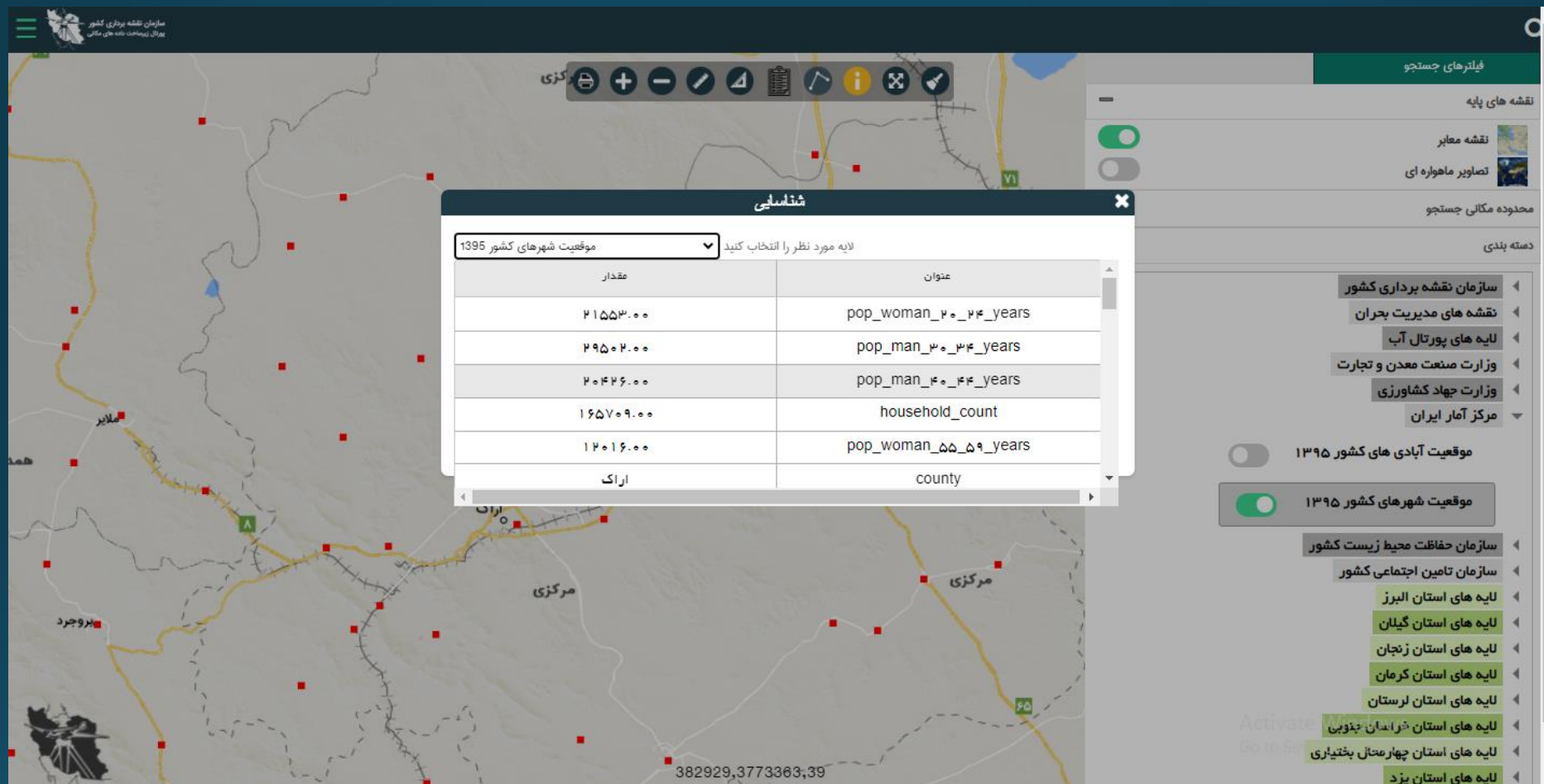
TJ Service Utilizing Architecture



Result



Result



Conclusion

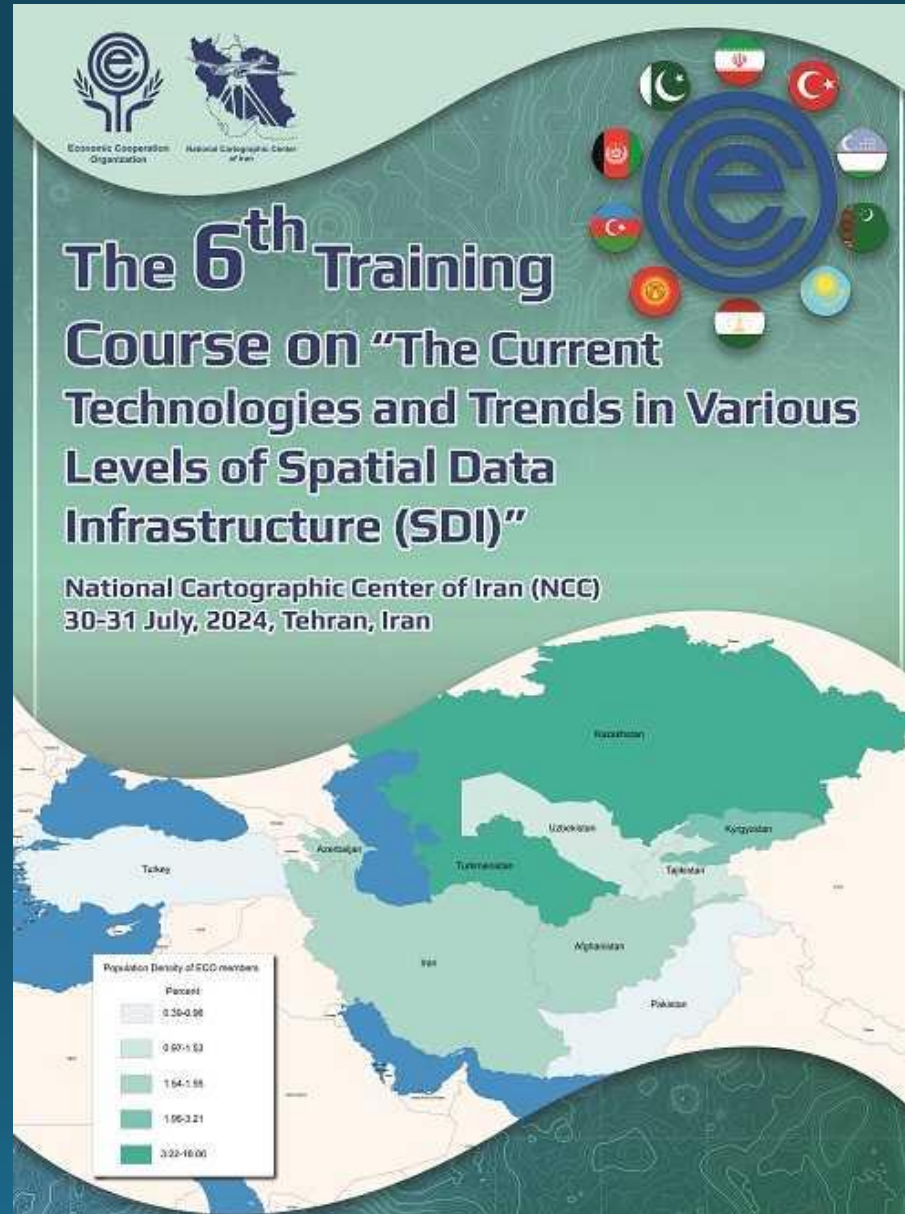
Successful GSGF implementation relies heavily on establishing a robust Spatial Data Infrastructure (SDI).

Providing spatial data via standard, TJ services enables real-time, online access to both spatial and statistical information.

This integration of spatial and statistical data allows for comprehensive analysis, supporting informed decision-making across various sectors, including economic and social domains.

The mentioned successes were achieved after we became familiar with GSGF standards and documents during these UN-GGIM-AP meetings.

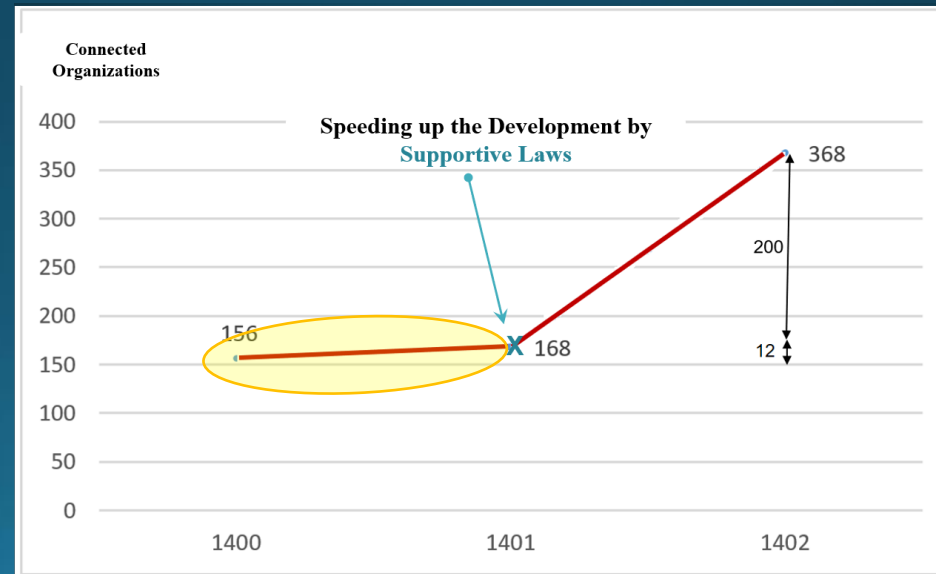
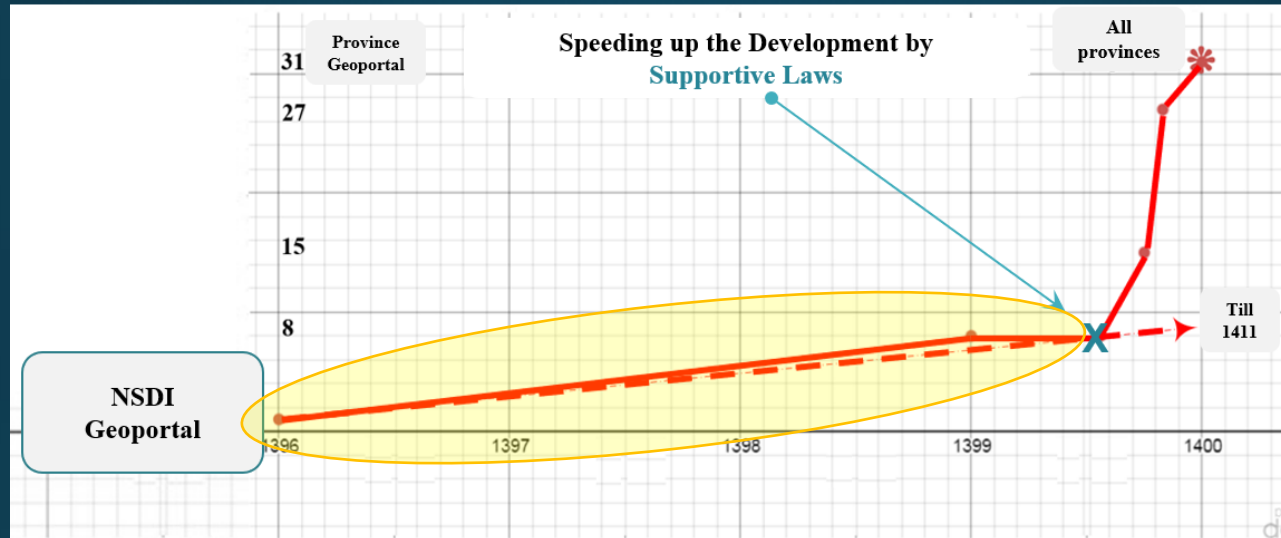
Fostering Regional Collaboration by Practical Experiences



Challenges and Lessons Learned

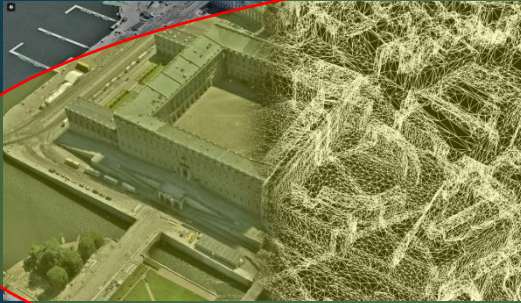
- open-source technology
- Security
- Accuracy and Quality
- Other GSGF Standards in addition to TJS
- Integration AI capabilities and SDI / GSGF

Future actions – National Laws and Policy – Key Element

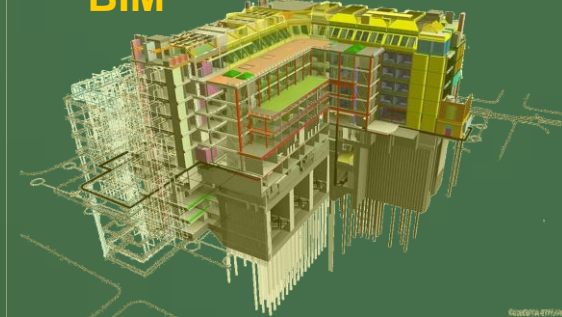


Future actions

3D Mesh



BIM



IoT



Spatial Digital Twins



Spatial Digital Shadows





Thank You

Cherrapunji