

BeGeo 2024

LA CONNEXION A L'ETAT PUR
DE ULTIEME CONNECTIE



Current state of play of the national spatial data infrastructure of Belgium

-

Application of the United Nations Integrated Geospatial Information Framework

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UN Integrated Geospatial Information Framework

- Framework developed by UN member states, UN-GGIM Secretariat and World Bank;
- Instrument to support development of national geospatial information management;
- Calls for partnerships with civil society, private sector, government and academia;
- Strengthening national cooperation.



**INTEGRATED GEOSPATIAL
INFORMATION FRAMEWORK**

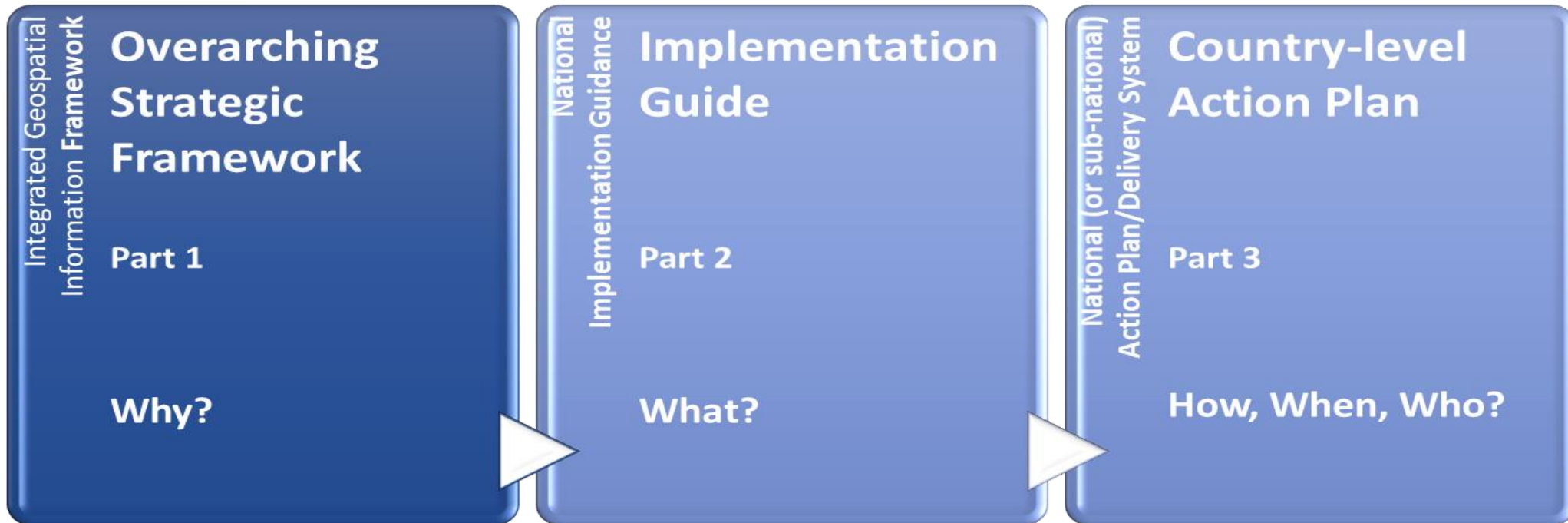
A STRATEGIC GUIDE TO DEVELOP AND STRENGTHEN
NATIONAL GEOSPATIAL INFORMATION MANAGEMENT

PART 1: OVERARCHING STRATEGIC FRAMEWORK



UN·IGIF
INTEGRATED GEOSPATIAL
INFORMATION FRAMEWORK

United Nations Integrated Geospatial Information Framework



Part 1: Overarching Strategic Framework – **WHY** geospatial information is a critical element of national social and economic development and needs to be strengthened.

Part 2: Implementation Guide – **WHAT** actions can be taken to strengthen geospatial information management.

Part 3: Country-level Action Plans – **HOW** the actions will be carried out, **WHEN** and by **WHOM**.

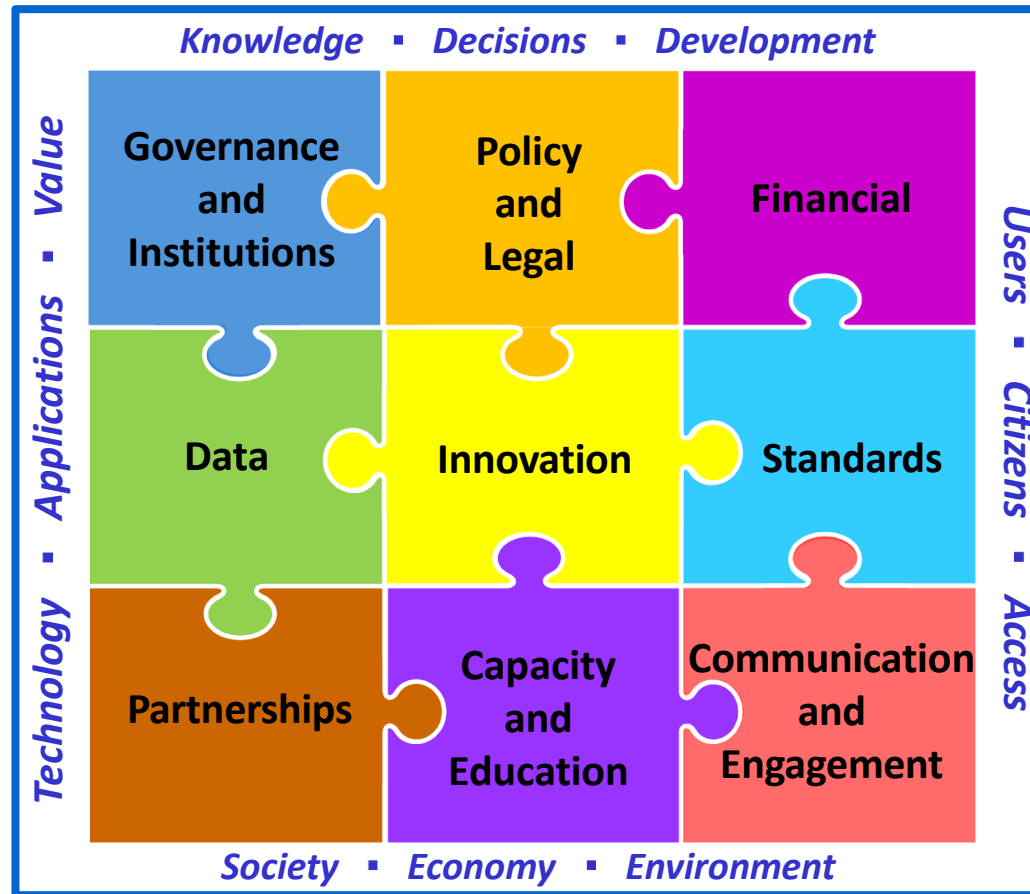
UN Integrated Geospatial Information Framework

9 Strategic Pathways

Governance →

Technology →

People →



Anchored by 9 Strategic Pathways, the Framework is a mechanism for articulating and demonstrating national leadership in geospatial information, and the capacity to take positive steps.



Governance →

Technology →

People →

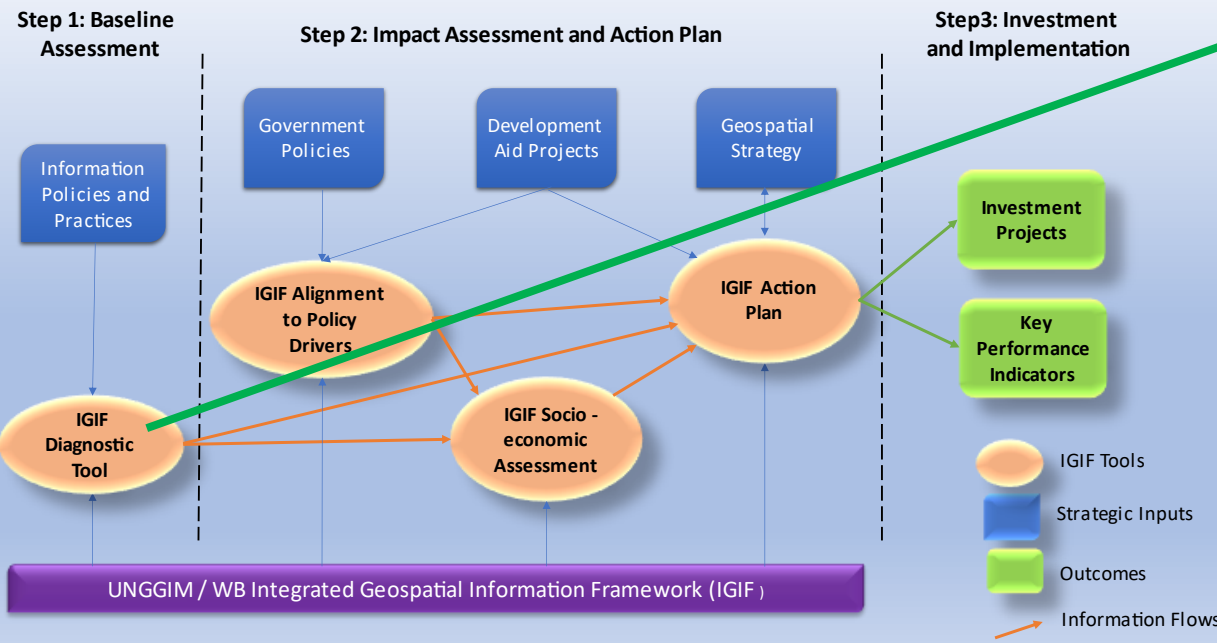


9 Strategic Pathways solve the IGF puzzle ...with 36 Key Elements



Implementation of UN-IGIF using World Bank Methodology

IGIF World Bank Methodology



UN – IGIF Diagnostic tool:

- Questionnaire with 96 indicators spread out over the nine strategic pathways of the framework.
- Scoring between 0-100 + reasoning why
- Gives the current situation of the Country/Region/City/Organization

STRATEGIC PATHWAY 4			
Indicator	Scoring Guide	Notes	Score
4,1	<p>DATA FRAMEWORK: Has a Data Framework been established to organize the country's fundamental geospatial and statistical data holdings?</p>	<p>Data This strategic pathway establishes a geospatial data framework and custodianship guidelines for best practice collection and management of integrated geospatial information that is appropriate to cross sector and multidisciplinary collaboration.</p> <p>The objective is to enable data custodians to meet their data management, sharing and reuse obligations to government and the user community through the execution of well-defined data supply chains for organizing, planning, acquiring, analyzing, integrating, aggregating, curating, publishing and archiving geospatial information.</p>	90
4,2	<p>GEODETIC INFRASTRUCTURE: Is there a common single national geodetic datum reference, projection and co-ordinate system?</p>	<p>Lambert 2008 is the reference for Belgium, not all entities use it yet but the migration process from Lambert72 to Lambert2008 has started.</p>	90

UN IGIF implementation in Belgium

What has been done so far

- Initial analysis done in 2021 after the adoption of the UN-IGIF implementation guide at the 10th session of UN-GGIM in August 2020.
 - Done by project team University KU Leuven & National Geographic Institute of Belgium*
 - Not all stakeholders included in analysis*
 - Weakest pathways: Finance + Communication & Engagement*
- Workshop organized in 2023 by FLAGIS to apply the UN-IGIF on Flanders
 - Different stakeholders involved (private companies, public sector, academia)*
 - Follow-up workshop held in February 2024 to define actions for the three weakest strategic pathways:*
 - Communication & Engagement*
 - Capacity & Education*
 - Partnerships*

Integrated Geospatial Information Framework
State of the Art of the Belgian context
View from a national perspective



Summary:

This document has given an overview of the current situation in regards to the implementation of an IGIF in Belgium. For each strategic pathways the NGI has evaluated the four main elements and given a score ranging from good to bad and a short description of the situation. In addition each pathway has received an overall score and a general remark.

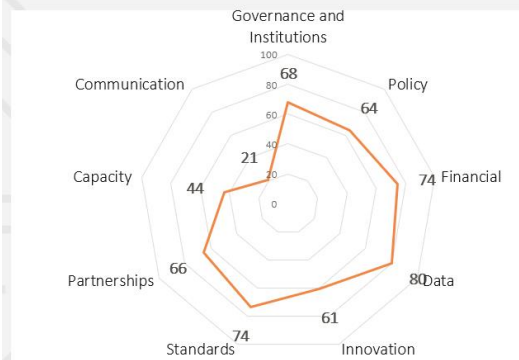
STRATEGIC PATHWAYS		
1. Governance & Institutions	2. Legal and Policy	3. Financial
Governance model	Legislation	Business Model
Leadership	Norms, Policies, and guides	Opportunities
Institutional Arrangements	Governance and Accountability	Investment
Value Proposition	Data Protection, Licensing and Sharing	Security, Resilience
4. Data	5. Innovation	6. Standards
Fundamental Data Themes	Technological Advances	Standards Governance and Policy
Custodianship, Acquisition and Management	Process Improvement	Technology and Data Interoperability
Data supply Chain	Promoting Innovation and Creativity	Community of Practice
Data Creation and Delivery	Bridging the Digital Divide	Compliance Testing and Certification
7. Partnerships	8. Capacity and Education	9. Communication and Engagement
Cross-sector and Interdisciplinary Cooperation	Awareness	Stakeholder and User Engagement
Private sector and Academia collaboration	Formal Education	Strategic Messaging and Engagement
Community Participation	Entrepreneurship	Communication Strategy, Plans and Methods
International Collaboration	Professional Training	Workshops and Evaluation

Scoring legend:
 Good
 Fair (could be better)
 Poor
 Bad

Vlaanderen



FLAGIS Workshop: 2 februari 2023



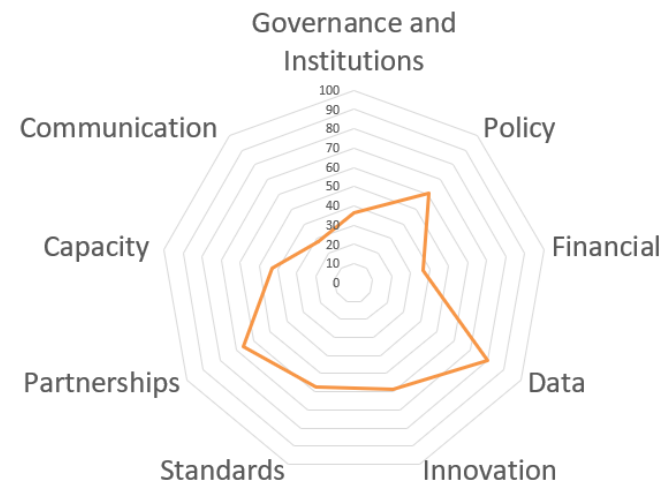
UN IGIF implementation in Belgium

What has been done so far

- In September 2023 the INSPIRE Coordination Committee (CCI) decided that it would be of interest for Belgium to organize a joint UN-IGIF exercise (from a national perspective).
 - *Project led by KU Leuven with support of NGI following the World Bank Methodology*
 - *Workshop organized for CCI stakeholders in **January 2024** in Leuven*
 - *Participants only from public sector)*
 - *Completed Baseline Assessment Tool*



Situation Belgium 2024



UN IGIF implementation in Belgium

First results

Based on the first analysis four pathways give a positive result:

Data:

Presence of geoportals for accessing high-quality geographical data.

Policy:

Legal framework within Belgium is relatively well provided for, often linked to European directives translated to the Belgian context.

The implementation of the INSPIRE directive played an important factor in the further development of the policy and legal context of the country.

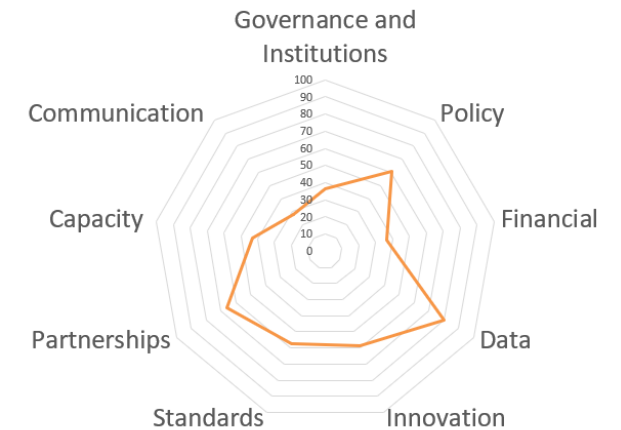
Standards:

Belgium possesses strong foundations in data standards governance, primarily through working groups related to INSPIRE and the Inter-Communautaire Overleg e-Government (ICEG).

Partnerships:

Good (informal) partnership/recognition among the geospatial actors in Belgium.

Situation Belgium 2024



UN IGIF implementation in Belgium

First results

Based on the first analysis three pathways score very low:

Governance:

Belgium is a special case when it comes to the division of competences. As a result, no unified strategy on geodata is possible at the level of our country.

Limitation of the methodology: It is not adapted the federated nations, when looking at the separate institutional levels (Federal – Regions) the various entities do have their own strategy.

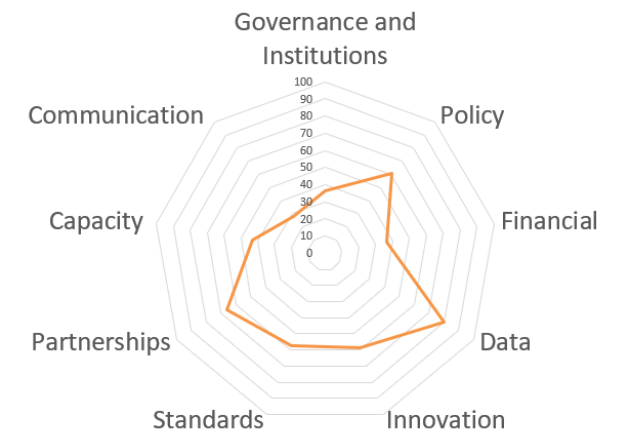
Financial:

Without a sustainable financial model, it is impossible to continue delivering quality work (Quid Open Data?). It could be interesting to have an independent socio-economic impact study.

Communication & Engagement:

The public should be made more aware of the benefits of geospatial data, through a well-developed communication strategy. No such strategy currently exists for Belgium.

Situation Belgium 2024



UN IGIF implementation in Belgium

Conclusions and Next steps

Conclusions:

1. Difficult to implement the World Bank approach to the framework in a federal (decentralized) country
2. Important to involve all stakeholders
3. Overall positive feedback of stakeholders on the value of UN-IGIF!
4. Strong basis for further analysis



Future:

- Baseline assessment report (Q2 2024)
- Next steps of the World Bank methodology:
 - Baseline Assessment
 - Geospatial Alignment to Policy Drivers
 - SEIA (no real value estimation of geospatial has been done in Belgium before)
- Country Level Action Plan

