Integrated Geospatial Information Framework
Agenda 4a: Financing IGIF Country Level Implementation
Agenda 6: Learning Materials and References

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Kathrine Kelm
Urban, Resilience and Land Global Practise

WORLD BANK GROUP

UN-GGIM
World Bank IGIF Implementation
Methodology

Country-level Action and Investment Plans
Link to Financing
Part 1: Overarching Strategic Framework

Part 2: Implementation Guide

Part 3: Country-level Action provides the ‘how, when and who’ approach, this document assists countries to prepare and implement their own country-level Action Plans.
The World Bank Group has established an IGIF Implementation Methodology and corresponding analytical toolkit to support the use of the IGIF:

- **Incrementally strengthen geospatial information management** - customized to specific countries and priorities
- **Link to financing**: based on analytics, using standard WBG infrastructure model

The diagram shows the analytical tools (in orange), key inputs (in blue), the IGIF in purple, outcomes (in green). Arrows show the different types of information flows.
World Bank IGIF Templates

- Diagnostic/Baseline Assessment
- Business case
  - Alignment to Policy/ Business Drivers
  - Socio-Economic Impact Assessment
- Action/Investment Plan

The templates are available [here](#).
IGIF Baseline Diagnostic Tool (DT) and Assessment Template provide an assessment of the “as is” position of geospatial information management, structured around the nine IGIF pathways.

The DT is applicable to any geographical entity including city, region and country levels.

Used to engage stakeholders through a consultation and verification workshop.

The Baseline Assessment Diagnostic Tool Template is available for download here:

The Baseline Assessment Report Template is available for download here.
Geospatial Alignment to Policy Drivers Template is used to align the Government’s strategic objectives and international commitments to specific spatial use cases (applications) and then prioritizes them based on how well they support and accelerate achieving these strategic objectives.

This work is key for communications and awareness raising with decision makers.

The Geospatial Alignment to Policy Drivers Template is available for download here.
Socio-economic Impact Assessment Template delivers an assessment of the socio-economic business case for investment in an SDI from both qualitative and quantitative perspectives. It is informed by the outputs from the two tools outlined above.

The Socio-economic Impact Assessment Template is available for download here.
BENEFITS: SECTORS, USE CASES, ACTIONS

SECTORS
- Transport
- Agriculture
- Health
- Security
- Energy
- Community Services
- Environment
- Mining
- Tourism
- Disaster Management
- Land
- Modelling
- Event Management
- Rangeland Monitoring
- Crime Mapping
- eGovernment
- Community Services
- Business Registration
- Street Works
- Location-based Services
- Eco-tourism
- Mining Cadastre
- Intelligent Transport Network
- Waste Management
- State Land Cadastre
- Business Registration
- SmartCities
- Valuation
- Earthquake Monitoring
- Retail Apps
- Real Estate Apps
- Business Intelligence e.g. AI and Machine-learning Applications

USE CASES
- Imagery Acquisition e.g. Satellite and Drone Imagery
- Data Capture e.g. Land and Building cadastre
- Data Integration e.g. Street Address
- Data Sharing Geoportal/Policy
- Positioning e.g. GNSS Network

ACTIONS/INVESTMENTS
- Urban Planning
- Land
- Health
- Law
- Security
- Government Administration
- Agriculture
- Energy
- Crime Mapping
- Business Intelligence e.g. AI and Machine-learning Applications
- Farm to Table
- Freehold Land Cadastre
- National Development Plan
- Disease Monitoring
- Location-based Services
- Livestock Management
- eGovernment
- Community Services
- Real Estate Apps
- Retail Apps
- Emergency Response
- Eco-tourism
- Mining Cadastre
- Intelligent Transport Network
- Waste Management
- State Land Cadastre
- Business Registration
- SmartCities
- Valuation
- Earthquake Monitoring
- Retail Apps
- Real Estate Apps
- Business Intelligence e.g. AI and Machine-learning Applications

Marine?
Socio-Economic Impact Assessment: Financing Justification

Benefit to Cost Ratio: 2.5:1
Return on Investment: 250%
Net Present Value: US$ 66.1 million

World Bank Infrastructure Project Model:
- Project Life Cycle:
  - 5 years development
  - 7 years operation
- Discount Rate: 6%

Cost-Benefit Analysis (Mean Case)
Country-level Action Plan template outlines the actions and investments in a sequenced and structured manner. It builds on the previous deliverables to create or update a high-level geospatial strategy and a corresponding costed roadmap for SDI enhancements, presented as a series of interdependent policy interventions and implementation projects.

The Country-level Action Plan Template is available for download here.
IGIF Action/Investment Plan: Mongolia

Vision: **Geo-driven eGovernment and innovation that empowers efficient and effective use of geospatial information towards national sustainable development and economic growth.**

Potential financing through the new WB-financed Digital Development Project: Delivery 2022
### Action Plan Includes Priority Investments

#### Example from Colombia IGIF Action Plan

<table>
<thead>
<tr>
<th>Ref</th>
<th>Task Type</th>
<th>IGIF Pathway</th>
<th>Priority</th>
<th>Description</th>
<th>Total Investment (US$)</th>
<th>Capital or Recurrent</th>
<th>Funding Source</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
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</thead>
<tbody>
<tr>
<td>3.1</td>
<td>Create an NSDI Business Model</td>
<td>Financial</td>
<td>Med</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>4.1</td>
<td>Create inventory of existing data</td>
<td>Data</td>
<td>High</td>
<td>see also overlap with 6.3</td>
<td>30,000</td>
<td>C</td>
<td>WB</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>4.2</td>
<td>Train and Guide data owners to complete metadata</td>
<td>Data</td>
<td>High</td>
<td></td>
<td>50,000</td>
<td>C</td>
<td>Gov</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>4.3</td>
<td>Define fundamental dataset &amp; custodians</td>
<td>Data</td>
<td>High</td>
<td>Consultancy advised</td>
<td>50,000</td>
<td>C</td>
<td>Gov</td>
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<td></td>
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<td></td>
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</tr>
<tr>
<td>4.4</td>
<td>Invest in data themes, prioritised to demand</td>
<td>Data</td>
<td>High</td>
<td>Depending on theme and demand</td>
<td>19,500,000</td>
<td>C</td>
<td>WB</td>
<td></td>
<td></td>
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<tr>
<td>4.5</td>
<td>Create digital archive of historical data and imagery</td>
<td>Innovation</td>
<td>Low</td>
<td>Could be a PPP</td>
<td>500,000</td>
<td>C and R</td>
<td></td>
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</tr>
</tbody>
</table>
Recent Country IGIF Examples - Moldova

Norwegian Kartwerket funded IGIF review using WB methodology
World Bank financing implementation

4 Countries:
Georgia
Kyrgyz Republic
Moldova
Ukraine

The documents are available here
Financing IGIF Implementation: World Bank Project Cycle

Easiest and ‘immediate’: Add in to or Guide existing projects
  • Land Administration: Colombia, Moldova, Guyana, Serbia
  • Disaster Risk Management: Seychelles

Projects in the Pipeline (12-24 months)
  • Cambodia: national (solid waste mgmt project); sub-national (Phnom Penh urban dev.)
  • Nicaragua: land administration
  • Liberia (analytics under existing land project; new financing under urban project)
    * Swedish Grad student introduced via Landmateriet leading IGIF Diagnostic in coord. with Liberia Land Authority and WB urban/land team
  • Mongolia: Digital Development project – IGIF reference in Project Appraisal Document

New Financing: 18+ months
  • Most projects start with analytics (IGIF tools/Templates provide basis)
    • Senegal
World Bank Online Learning and Webinars for IGIF Implementation

IGIF Self-paced Online Learning
Virtual Knowledge Exchange Series 1
Virtual Knowledge Exchange Series 2
For further information regarding this PowerPoint and associated World Bank Templates, please contact:

**Kathrine Kelm**, Senior Land Administration Specialist

Urban, Disaster Risk Management, Resilience and Land Global Practice

The World Bank

1818 H Street, Washington DC, 20433, USA

Email: kkelm@worldbank.org | Web: www.worldbank.org