

Sustainable Funding Guide

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UN·IGIF
INTEGRATED GEOSPATIAL
INFORMATION FRAMEWORK

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Goal 4 - Mobilize Sustainable Funding

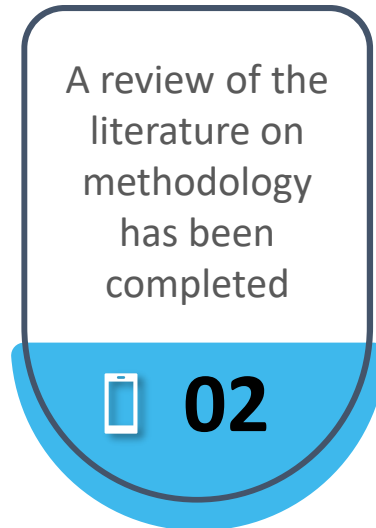
Progress report

- Kingdom of Saudi Arabia has engaged International economics and policy consultants with international experience on economic impact assessment of geospatial data and services, to support our work on task 3.



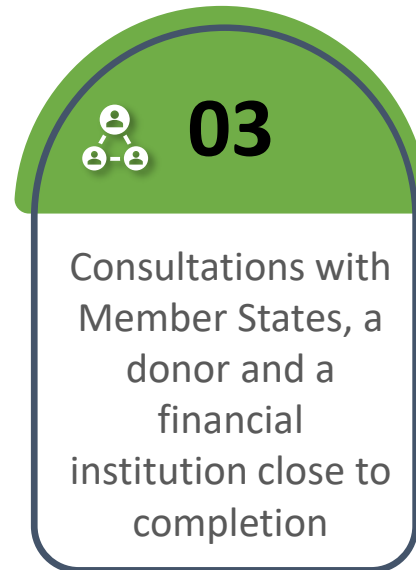
01

Work has been underway since March 2023



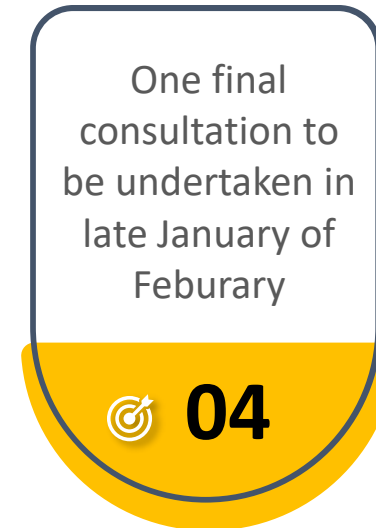
02

A review of the literature on methodology has been completed



03

Consultations with Member States, a donor and a financial institution close to completion



04

One final consultation to be undertaken in late January of February

Progress to date is set out in the following slides.



2

Literature Review & Consultations

Review of literature on methodology

A comprehensive review of literature on methodologies for conduct of socio-economic impact assessments was undertaken

Key findings were:

- 1 There are various ways that estimates of benefits and costs of investments in geospatial systems and services have been undertaken in the past
- 2 A key challenge in estimating the impact of investment in geospatial infrastructure and NSDIs is the difficulty of quantifying the economic value of intangible impacts such as societal and environmental benefits
 - there are some techniques available to address this problem.
- 3 There is inconsistency between definitions of direct and indirect benefits that can make comparison of studies from different countries challenging.



Review of literature (continued)

- The selection of the most appropriate approach depends on
- the target audience
- The expertise and time required
- The robustness of the method
- The transparency and verifiability of the results
- Traditional cost benefit analysis is probably the most appropriate for assessment of the economic impact of investment in NSDIs in developing countries

Methods examined	Expertise required	Time required	Robustness of method	Transparency
Economic / Cost-based Methods				
Cost benefit analysis (CBA) and social CBA	Moderate	Moderate	High	Moderate
Cost-effectiveness analysis	Moderate	Moderate	High	Moderate
Real options analysis	High	Moderate	High	Low
Computable General Equilibrium (CGE)	High	Moderate	High	Low
Computable General Equilibrium (CGE)	High	Moderate	High	Low
Return on investment (ROI)	Moderate	Low	High	High
Value of information (VOI)	High	Moderate	Moderate	Moderate
Market-based valuations	Moderate	Moderate	Moderate	Moderate
Stated preference methods				
- Contingent Valuation (willingness to pay or accept (WTP/WTA))	High	High	High	Moderate
- Choice modelling	High	High	High	Moderate
Revealed preference methods				
- Benefits transfer/proxy good	Low	Moderate	Moderate	Moderate
- Hedonic pricing	Moderate	Moderate	Moderate	Moderate
- Travel costs. analysis	Moderate	Moderate	Moderate	Moderate
Other methods				
Multi-criteria analysis (MCA)	Low	Moderate	Moderate	Moderate
Case studies/success stories	Moderate	Low	Low	High
Surveys	Low	Moderate	Low	Moderate



Consultations

The aim was to obtain a deeper and more contemporary understanding of the issues and state of evaluation techniques and requirements from a sample of countries plus a donor organisation and a financial institution.

Engagement plan :

- Cover less developed, developing economies and economies in transition
- Provide regional representation
- Ten consultations were held in 2023 with one to be held in early 2024.

Stakeholder	Classification	Regional representation
Mozambique	Least developed	Southern Africa
South Africa	Developing economy	Southern Africa
Jamaica	Developing economy	Americas
Chile	Developing economy	Americas
Kingdom of Saudi Arabia	Developing economy	Western Asia
United Arab Emirates	Developing economy	Western Asia
Indonesia	Developing economy	East Asia
Fiji	Small Island State	Asia Pacific
PUBLIC Foundation	Donor	Global
K. Kelm (World Bank)	Financial institution	Global
Georgia	Economy in transition	Europe

Note: Country classifications based on Statistical Annex to World Economic Situation and Prospects 2014 prepared by the Department of Economic and Social Affairs of the United Nations Secretariat.



Process

- Consultation briefs prepared
 - For Member States and for Donor/Financial Institutions
 - Including a list of questions to be addressed.
- Consultations held via video link
- Record of consultations were cleared with those consulted



Consultation guide for Member Country

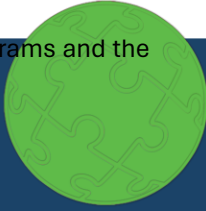
Consultation brief for development of a funding guide for member states for dedicated funding to sustain the uptake and implementation of the IGIF

Background

The aim of this consultation is to gather information that will assist with the development of a Funding Guide to provide guidance and methodologies to help identify and estimate budget/investment for IGIF Country-level Action Plan implementation in developing countries. This will help in identification of dedicated funding (i.e., training, software, hardware, etc.), investment / budget needs, and associated costs / benefits for Member Countries. Additionally, the planned guide will collect, collate, and share best practices including cost / benefit analysis as well as benefits realized and positive impacts of investing in UN-IGIF.

Topics for discussion with Member States

1. We are interested in the current state of geospatial information management arrangements in XXXX, and your experience in establishing sustainable funding arrangements and requirements as well as their evaluation to make strong business case for investment in geospatial information.
2. We would be interested in your views on specific items that you expect will require dedicated funding to sustain the uptake and implementation of the IGIF. This could include:
 - capital investment in hardware, software, infrastructure and systems
 - recurrent expenditure to capture, maintain, curate and/or update data
 - training.
3. We would also be interested in your views on investment and budget needs and on the timeframes for this expenditure
 - Ideally, we would like to know your outlook over the next ten years as well as the key drivers, challenges, and risks.
4. It would be helpful if you could identify the benefits that you would expect this investment to deliver for countries in the region in general and for Indonesia in particular.
 - Benefits could be economic, social or environmental benefits expected to accrue to government, industry, consumers or sustainable development and environmental objectives.
5. What approaches to you currently use to formulate investment proposals and assess the costs and benefits of such funding
 - Are there evaluation requirements for investment proposals within the government of Indonesia
 - Are there alternate funding opportunities within Indonesia from private sector, development agencies, etc. Have these been explored.
 - Is there capacity within in XXXX to undertake cost/benefit analysis of proposed investment programs and the development of the associated business case for investment.



Consultation guide for donor/financial institution

Consultation brief for development of a funding guide for member states for dedicated funding to sustain the uptake and implementation of the IGIF

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Topics for discussion with donors and financial institutions

1. We are interested in your insights about the current situation with investment in geospatial data and related infrastructure in support of achieving sustainable development goals in developing countries. We are particularly interested in your insight on the subject of sustainable funding for geospatial information management and experiences in establishing the case for such investment.
2. We would be interested in your views on best practice methodologies for undertaking cost/benefit analysis to support investment appraisal and develop business cases for dedicated funding by member states to sustain the uptake and implementation of the UN-IGIF.
 - This may include your organization's requirements for investment evaluation of funding proposals.
 - We are interested in your views on the most appropriate sources of funding for different investments including capital items, recurrent expenditure, training and/or capacity building.
3. We would also appreciate knowing more about the views and the experiences of XXXXX with evaluating comparable programs.
 - We are also interested in thoughts on any obstacles or risks (such as shortage of economic evaluation capabilities for preparing business cases) that might impede progress in the implementation of the UN-IGIF.
4. Any additional thoughts or observations on the structure and scope of a Funding Guide for identification and meeting funding requirements would be gratefully appreciated.



Some issues arising out of the consultations

Proponents for investment in geospatial systems and NDSIs can include organisations beyond the national mapping agencies.

Most agencies are facing funding pressures.

International financial institutions and donors have had an important role in financing NSDIs in the past in some cases.



A common theme was the need to develop a clear message for internal and external funding organisation on the national benefits that investment in geospatial data and NSDIS can deliver.

There is a need for greater engagement between mapping/ geospatial agencies and finance and budget agencies.

The UN-IGIF work is seen as an important framework for agencies to progress their funding approaches to funding agencies.



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Drafting Sustainable Funding Guide

Funding guide

Consideration of the format and contents of the draft Funding Guide was discussed during the latter part of 2023

In order to progress the drafting, the **Kingdom of Saudi Arabia agreed to take responsibility for drafting of Tasks 1 and 2 of the funding guide** in addition to Task 3 at Meeting held on 14 November 2023, based on:

- Initial draft for Task 1 and 2 circulated in mid 2023
- Results of consultations

A draft outline of a Finding Guide was circulated to the Working Group on 13 December 2023

- With comments from working group to be submitted by 12 January

Provisional timetable

Commence drafting in **January 2024**

First Draft of Funding Guide to circulated to Working Group in **week commencing March 18, 2024**

Second Draft Funding Guide circulated to Working Group during **week commencing April 22, 2024**

Final Draft Funding Guide circulated to Working Group during **week commencing May 27, 2024**



Goal 4 Mobilize sustainable funding – draft outline of proposed funding guide

Forward.....	1	Best practice cost benefit analysis.....	5
Executive summary.....	1	Introduction.....	5
Funding sources and modalities.....	1	What is economic assessment.....	5
Purpose.....	1	Some important economic concepts.....	6
History of funding.....	1	Practice approaches to cost benefit analysis.....	6
Identifying available funding sources.....	1	Estimating value.....	6
Government funding.....	1	Estimating costs.....	7
Donor funding.....	2	Elements of cost benefit analysis.....	7
Partnerships.....	2	Reporting the results.....	7
Public private partnerships.....	2	Funding and risk management.....	7
Identifying available resources in Member countries.....	3	Case study of cost benefit analysis.....	7
Country budget structures.....	3	Other methods.....	7
Provide guidance to help identify funding and estimate budget/investment for IGIF country level Action Plan Implementation.....	4	Summary of best practices.....	7
Identifying/targeting actions and activities for dedicated funding.....	4		
Alignment of funding sources with investment activities.....	5		
Building the business case for funding IGIF implementation.....	5		



Delivery of the Sustainable Funding Guide

In conclusion, the guide will be a pivotal resource, empowering developing countries to secure sustainable funding and cultivate collaborations with donors and partners. With a steadfast commitment to timelines and vigilant monitoring, we anticipate exceeding our fundraising goals, ensuring a substantial and enduring impact on our mission. The ongoing contributions will play a key role in shaping this successful future.





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Enabling a better future with location data