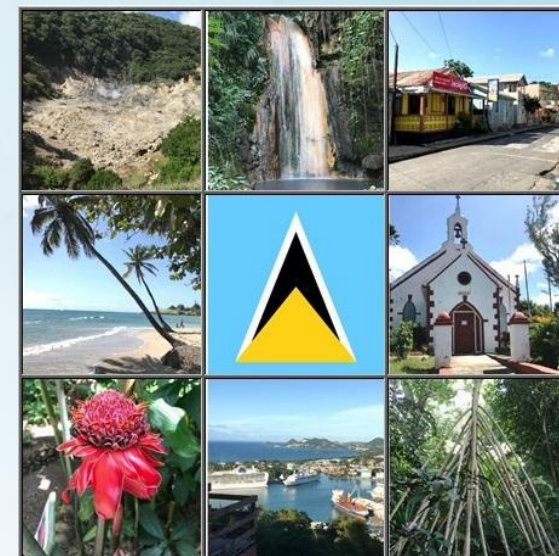




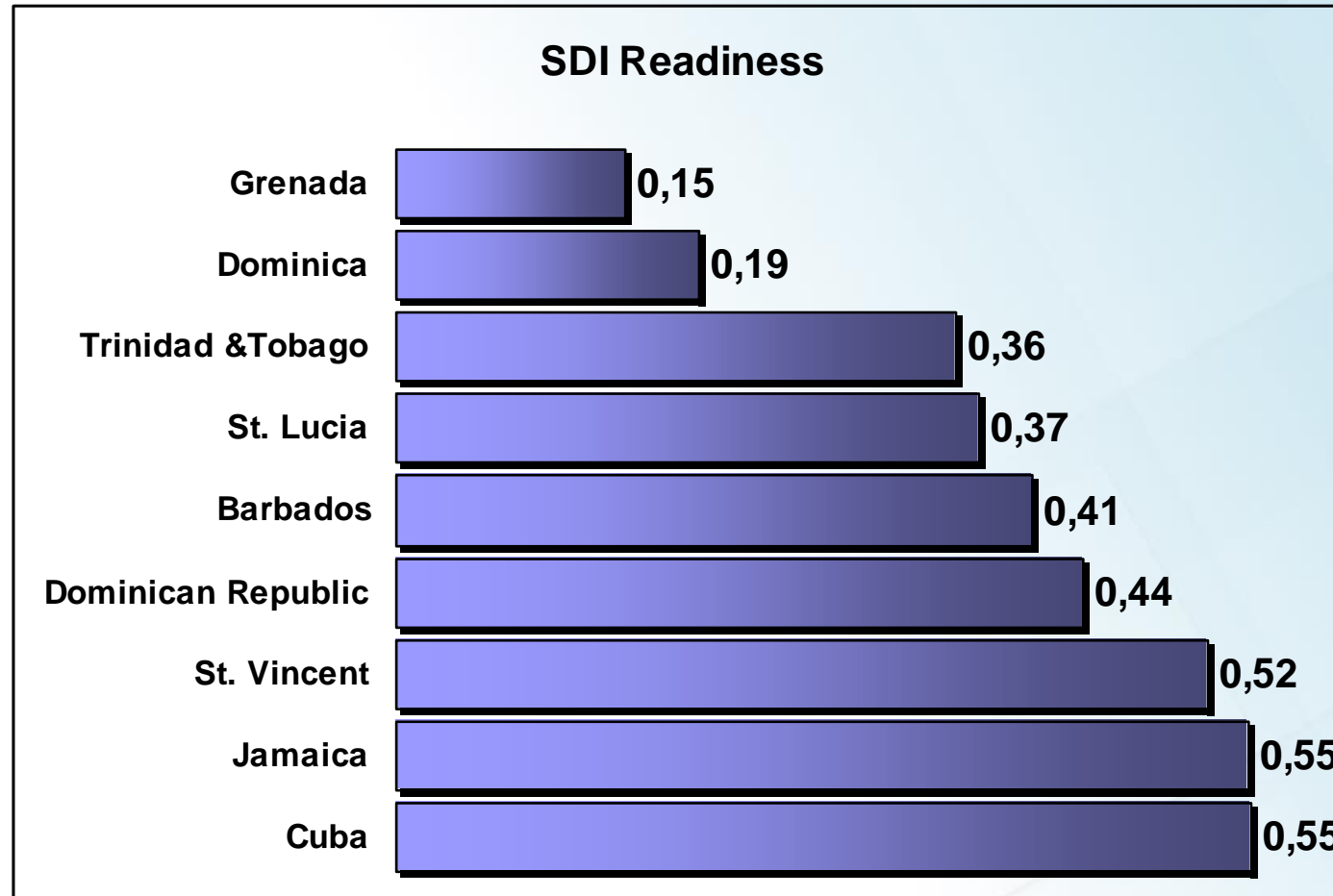
Draft NSDI Policy of Saint Lucia

Prof. dr. ir. Joep Crompvoets (KU Leuven)

April 2023



History (2008)



Delgado Fernández, T., and Cromptoets, J., 2008. Evaluating Spatial Data Infrastructures in The Caribbean for Sustainable Development. In: Proceedings of GSDI-10 Conference, Small Island Perspectives on Global Challenges: The Role of Spatial Data in Supporting a Sustainable Future.

Project introduction

Technical Assistance for Consulting Services in Support of the Implementation of the National Spatial Data Infrastructure (NSDI) of Saint Lucia

Disaster Vulnerability Reduction Project (World Bank)

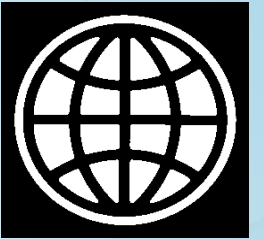
Final version: May 2023! – Document still under construction

Stakeholders consultation – Summer 2023

GOSL – Ministry of Physical Development

Kadaster – Cadastre, land registry & Mapping Agency (Netherlands)

KU Leuven – University of Leuven (Belgium)



Draft NSDI Policy

Setting direction to the implementation of the NSDI Saint Lucia

Providing key drivers, underpinning principles, objectives and actions to guide decisions and to facilitate the sharing/access/(re)use and transfer of existing geospatial data

Draft NSDI Policy

1. Introducing NSDI Policy rationale and development approach
2. Presenting the draft NSDI Policy including Drivers, Policy Statement, Underpinning Principles, Objectives, Strategic/ Specific Actions, Performance Indicators, Management Plan, and Review Program
3. Providing a management summary highlighting the findings of the NSDI policy development
4. Assessing current status, based on IGF framework

Current Table of Content – Version 0.3

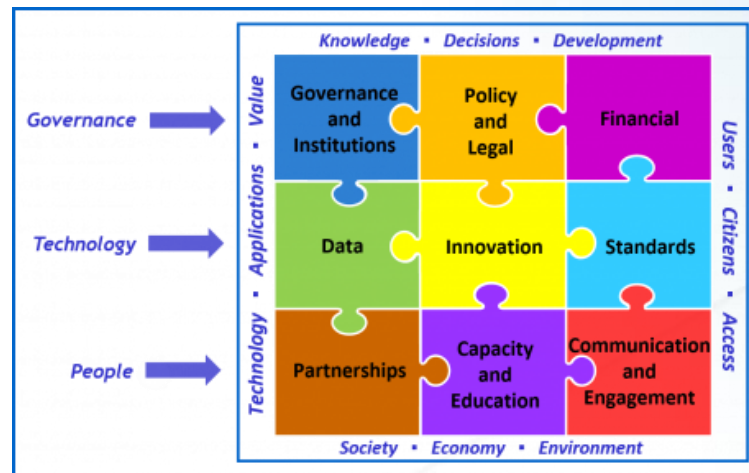
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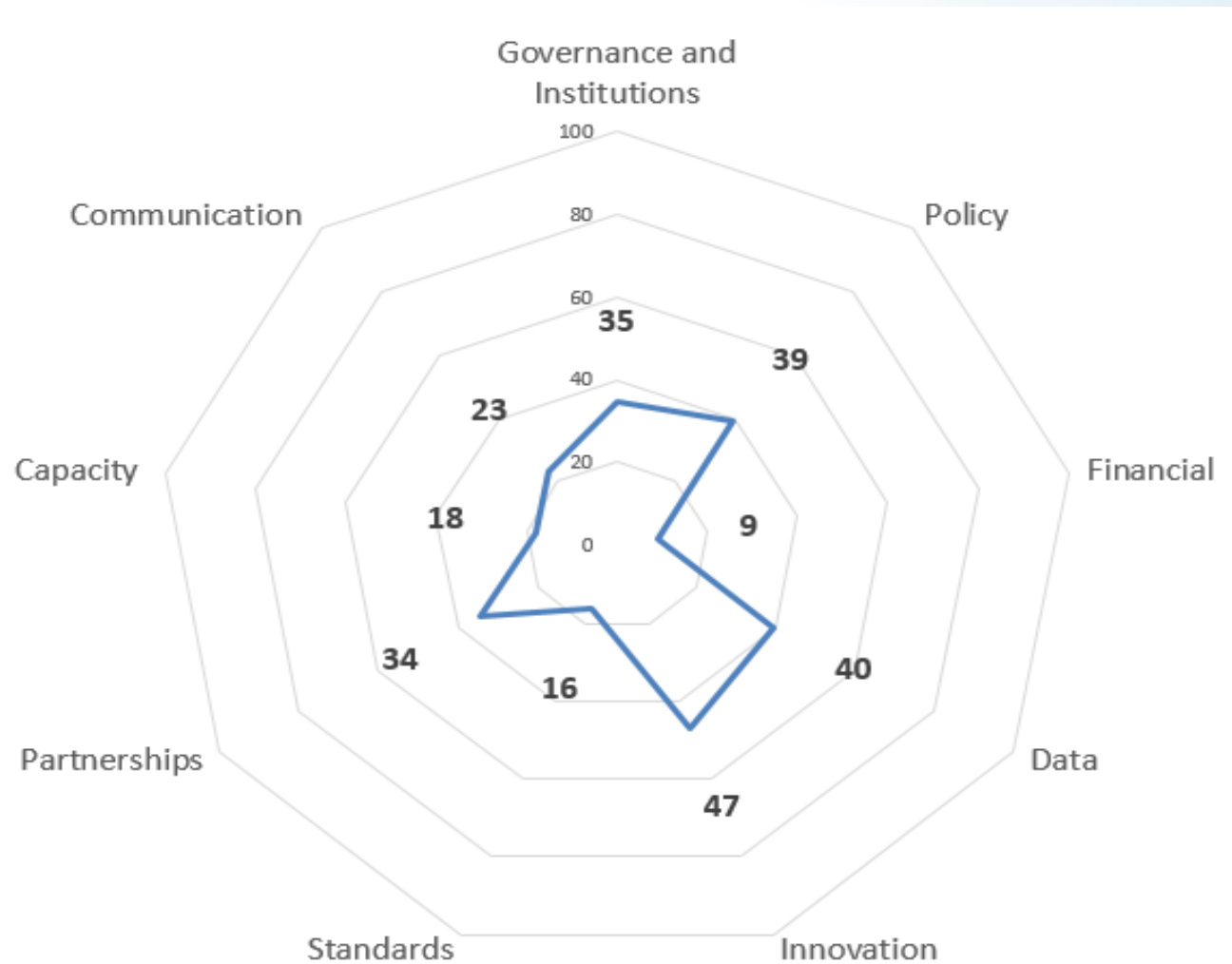
Approach and Methodology

Desk research – policy briefs, consultancy reports, ...
(Online) meetings with key stakeholders
Interviews with key stakeholders

Alignments with Integrated Geospatial Information Framework (IGIF)



Current NSDI Status



Higher scores

- Innovation
- Data
- Policy and Legal

Lower scores

- Financial
- Standards
- Capacity and Education
- Communication and Engagement

Policy Drivers

National policies and strategies – 10 identified

- Government of Saint Lucia, Department of Public Service (2017). Open Data Policy.

National Policies and Strategies ⁸			
Ref	Policy Theme Title	Title of Policy or Strategy	Importance of Geospatial Data/Technologies
	Emergency management	Co-ordinate4U (2013). Report 2 for Phase 1 of Consulting Services to Develop Terms of Reference for a Geodetic Survey and to Supervise Geodetic Survey – Hurricane Tomas Emergency Recovery Project. “Technical Information and Requirements for Bidding and Evaluation and Specific Procurement Notice”	Data collection is within a national grid system that will contribute to data standards amongst agencies, ie. Each agency is not using its own format

Policy Drivers

International policies and strategies - 10 identified

- UN Transforming our World: 2030 Agenda for Sustainable Development
- United Nations Framework Convention on Climate Change
- Sendai Framework on Disaster Risk Reduction 2015 – 2030
- Digital Earth for a Resilient Caribbean (World Bank)
- *Caribbean Community (CARICOM) Regional Strategy for the development of Statistics 2019-2030*

International Policies and Strategies			
Ref	Policy Theme Title	Summary Description of Policy or Strategy	Importance of Geospatial Data/Technologies
	Sustainability	<p><i>Transforming our World: 2030 Agenda for Sustainable Development</i></p> <p>This Agenda is described as a plan of action for the people, planet and prosperity. The agenda refers to 17 Sustainable Development Goals (and 169 targets). They seek to build on the Millennium Development Goals. They are integrated and seek to balance the three dimensions of sustainable development: economic, social, and environmental.</p>	<p>Many of the SDGs depend on the use of geospatial data for their implementation, monitoring and tracking. Geospatial data contribute to the development of critical sectors and effective decision making towards sustainable land management.</p>

Policy Drivers

List of use cases

Use case summary			
Ref	Description	Benefits	Involved stakeholders
/	<p>Fire and Ambulance Call Internet Database (FACID)</p> <p>FACID is a web application developed for the Saint Lucia Fire Service which manages all operations in the fire service. The application includes a GIS component which maps locations of all fire and ambulance calls, responses and details in the field. It tracks all the fire incidents, including hydrant information. The application also has a companion application which manages personnel/employees details, schedules and fire station assignments</p>	<ul style="list-style-type: none">- Monitoring fire incidents- Gaining time to find the closest hydrant- Reducing fire impact (in terms of nature, humans, economy)- Better communication (and collaboration) among the firemen (and ambulance staff)- Better up to date knowledge of water levels of potential replenishing sources like rivers and streams- Better reuse of existing data (e.g. locations of hydrants, electrical poles)	<p>St Lucia Fire Service Hospital (incl. ambulance personnel)</p>

Policy drivers

List of stakeholders – 32 stakeholders identified

Key stakeholder (full name)	Abbreviation	Link with NSDI
Ministry of Physical Development and Urban Renewal	MPDUR	
Department of Physical Planning and Urban Renewal	DPPUR	
Department of Planning and National Development	DPND	
Ministry of Finance, Economic Affairs and Social Security	MFEASS	
National Integrated Planning and program Unit, Ministry of Finance	NIPP	
Central Statistical Office	CSO	
Ministry of Public Service, Information and Broadcasting	MPSIB	
Ministry of Sustainable Development, Energy, Science and Technology	MSDEST	
Ministry of Agriculture, Food Production, Fisheries, and Rural Development	MAFPFRD	
Department of Fisheries		

Policy statement

Vision

'To enable an environment where all stakeholders collaborate to efficiently share, access and use quality spatial data in innovative ways to support sustainable development and build resilience'

Key words: Collaboration, Sharing, Access, Innovation and Sustainable development, Resilience

Underpinning principles

Underpinning principles aim to efficiently share, access and use quality spatial data in innovative ways to support sustainable development through:

- Digital by default
- Interoperability
- Authoritative data provision
- User-centricity
- Once only
- Inclusiveness and accessibility
- Openness and transparency
- Trustworthiness and security

Objectives – Not fully approved

10 Objectives identified

Strongly linked with the
IGIF Pathways +
Current status

1. To attain political endorsement, strengthen institutional mandates and build a cooperative data sharing environment through a shared vision and understanding of the value of the NSDI of Saint Lucia for the multiple identified areas, and the roles and responsibilities to achieve the vision
2. To address current policy and legal issues in the multiple identified areas by improving the policies and laws associated with, and having an impact on, the NSDI of Saint Lucia
3. To achieve an understanding of the financial plans required to establish and maintain the NSDI of Saint Lucia, as well as the longer-term investment program that enables government to respond to evolving societal, environmental and economic demands for geospatial data in the multiple identified areas
4. To enable key data stakeholders operating in the identified multiple areas to meet their data management, sharing and reuse obligations to government and also to the user community through the execution of well-defined data management processes for organizing, planning, acquiring, analyzing, integrating, aggregating, curating, publishing and archiving geospatial information
5. To develop a robust data infrastructure and to leverage the latest cost-effective technologies, innovations and process improvements so that governments and businesses may leapfrog to modern geospatial information management systems and practices
6. To enable an efficient and consistent standardization approach for different information systems to be able to discover, manage, communicate, exchange and apply geospatial information of the NSDI of Saint Lucia for a multitude of uses, improved understanding and decision-making
7. To create and sustain the value of geospatial information through a shared culture based on inclusion, trusted partnerships and strategic alliances that recognize common needs, aspirations and goals, towards achieving national priorities and outcomes.
8. To raise awareness, build and strengthen knowledge, competencies, skills, processes, and resources, that organizations, communities and individuals of Saint Lucia require to utilize geospatial information for evidence based decision-making and effective service delivery.
9. To ensure effective communication and engagement to enhance and deepen participation and contributions from all stakeholders (including citizens) in the multiple identified areas and at all levels. Commitment, mutual understanding, collaboration, cooperation and communication are essential to successfully implement the NSDI of Saint Lucia within organizations and with stakeholders.
10. To continuously monitor and evaluate the alignment, coherence, context, and ownership of the above presented objectives

Strategic Agenda – Not fully approved

9 Long-term strategies identified

Strategies strongly related to Financial, Standards, Capacity and Education, Communication and Engagement and Innovation

1. To strengthen the NSDI Governance and institutional mandates and build a strong data sharing culture among the stakeholders of NSDI of Saint Lucia.
2. To tailor and adopt geospatial policies and regulations that are aligned with the current needs of the Saint Lucia society and NSDI stakeholders.
3. To guarantee a financial budget allowing to establish, maintain and further develop the NSDI of Saint Lucia in a sustainable way.
4. To create a data infrastructure facilitating the data management, sharing, and (re)use of NSDI-stakeholders and the wider user community.
5. To apply the latest cost-effective technologies and innovations allowing to fit the current and future demands to the NSDI.
6. To apply standards enabling to discover, manage, communicate, exchange and apply geospatial data and/or services of the NSDI of Saint Lucia from multiple sources for a multitude of purposes.
7. To strengthen inter-organizational culture and invest in trusted partnerships and strategic alliances that recognize common needs, aspirations and goals, towards achieving national priorities and outcomes.
8. To build human capacity and offer tailored education necessary for using, maintaining and further developing the NSDI of Saint Lucia.
9. To develop effective communication and engagement policies to enhance participation and contributions from all stakeholders in the multiple identified areas and at all levels.

Action Plan – Under construction

Action	Who	Decision	Budget	Deadline
Strategy 1. Governance and institutions				
To strengthen the NSDI Governance and institutional mandates and build a strong data sharing culture among the stakeholders of NSDI of Saint Lucia				
Invest in strong NSDI-leadership and involve champions				
Establish and institutionalize NSDI unit within <u>GoSL</u>	NGCC	<u>GoSL</u>		
Define roles & responsibilities NSDI unit	NGCC	<u>GoSL</u>		
Formulate job profiles staff NSDI unit	NGCC/Consortium	<u>GoSL</u>		
Allocate NSDI unit staff, growing to: 1 x NSDI manager (grade to be decided), 2 x NSDI <u>data experts (grade tbd)</u> , 2 x NSDI technical experts (grade tbd)	NGCC	<u>GoSL</u>	~300 - 500,000 ECD per year	
Explore the need for focused Working Groups, such as on Capacity and Education, Legal & Policy, Communication, Standardization				
Strengthen role of NGCC with updated <u>ToR</u> of NGCC, incl. roles, members, meetings, reporting responsibilities, year plan, budget, etc.	NGCC/Consortium	<u>GoSL</u>		
<u>Update ToR of NGTC, incl. internal working procedures</u>	NGCC/Consortium	<u>GoSL</u>		
Develop a sustainable NSDI-strategy with a clear vision, mission, and associated objectives, value propositions, and actions				
Set up a NSDI policy/strategy performance register				
Apply and monitor a NSDI-risk register				
Conduct on a regular basis a user needs/requirements analyses				
Strategy 2. Policy and Legal				
To tailor and adopt geospatial polies and regulations that are aligned with the current needs of the Saint Lucia society and NSDI stakeholders.				

Under full construction

Management Plan

Review program

Management summary

Aim: Main text body maximum 20 pages long

Images inclusion?

Questions

