

NSDI PRIORITY AREAS & ACTIONS

2019/2022

Establishment of the National Spatial Data
Infrastructure (NSDI) for Namibia



“Towards a Spatially
Enabled Society”

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ABOUT THE NSDI

The National Spatial Data Infrastructure is established as the national technical and institutional framework to facilitate the capture, management, maintenance, integration, distribution and use of spatial data in Namibia. The NSDI is established in terms of the Statistics Act, No. 9 of 2011. The Statistics Act establishes the Committee for Spatial Data and provides that, inter alia, the Statistician-General and the Surveyor-General are members of the Committee by virtue of their offices, with the Surveyor-General being the chairperson. The Committee reports to the Minister responsible for Statistics in consultation with the Minister of Lands.

The Department of GIS and NSDI Coordination within the NSA is the technical secretariat for the NSDI and oversees the day-to-day operation of the NSDI. The Legal Department is the administrative secretariat for the NSDI. NSDI facilitates the capture, management, maintenance, integration, distribution and use of spatial data from different Government Offices, Ministries and Agencies (OMAs) at national, regional and local authority level.

MISSION

To coordinate, facilitate and support the implementation of an information infrastructure that ensures efficient production, use, maintenance and dissemination of relevant, quality and accurate spatial information that is fit-for-purpose, particularly in providing evidence-based decision making at all levels of society.

VISION

To be a leader for quality spatial data delivery in Africa in accordance with international standards and best practices.

STRATEGIC GOALS

1	An NSDI with a governance structure that can efficiently operate the NSDI and sufficient funding to ensure its implementation and long-term sustainability nationwide.
2	An NSDI that facilitates access to, and maximizes the use of, quality, timely and accurate spatial data.
3	An NSDI that commits sufficient attention and resources to building capacity nationally to sustain national development and that helps create an informed society.
4	An NSDI that helps to eliminate duplication of effort in spatial data collection and use and reduces waste of limited resources.

THIS DOCUMENT

This document provides a summary of key actions which are prioritised in the establishment of the NSDI in Namibia. Four (4) pillars of the Namibia SDI implementation strategy are exploded to provide a detailed road map of activities. Figure 1 shows the 4 pillars derived from the 1st NSDI Strategy and Action Plan 2015-2020.

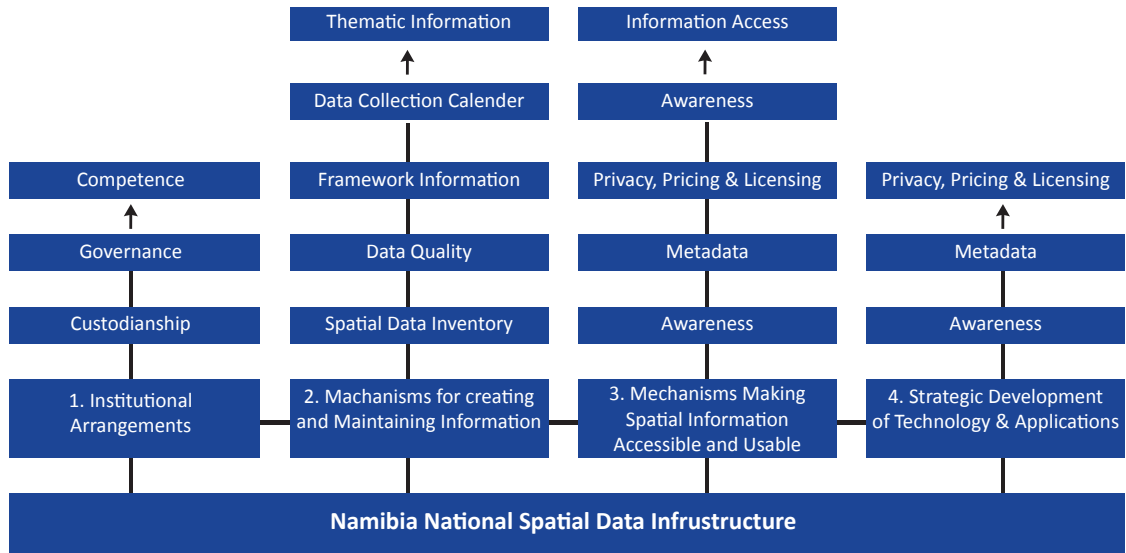


Figure 1: NSDI Implementation Strategy based on the 1st NSDI Strategic Plan

The four pillars in Figure 1 are split into eleven (11) thematic areas for a comprehensive mapping of activities of the NSDI. Namibia is implementing a product-based SDI, which emphasises mainly on data. The detailed activities of the thematic areas shall guide the allocation of resources and the funding model needed in the country.

Namibia is implementing its first strategic plan for the NSDI, which costed at approximately

N\$45 Million, concentrated at the NSDI Secretariat alone. Like in many countries where NSDI is being implemented, direct central government funding is the main funding model used in the initial phase of NSDI implementation. Other funding methods include donor agencies and joint funding partnerships. Private sector involvement in the NSDI is still very limited due to the need to socialize the commercial value of the NSDI.

It is anticipated that this document will be the basis for immediate and future funding needs for the NSDI. The biggest anticipated cost drivers in terms of capacity, funding and time are:

- Coordination
- Data
- Awareness (Outreach and advocacy)
- Capacity of custodians

LIST OF INSTITUTIONS

- | | |
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| 1. Office of the Prime Minister (Ex officio by virtue of mandate) | 14. Ministry of Industrialisation, Trade and SME Development |
| 2. Ministry of Land Reform | 15. Ministry of Safety and Security |
| 3. Ministry of Mines and Energy | 16. Ministry of Defence |
| 4. Ministry of Education, Art and Culture | 17. Telecom Namibia |
| 5. Ministry of Urban and Rural Development | 18. Roads Authority |
| 6. Ministry of Environment and Tourism | 19. Namibia Power Corporation |
| 7. Namibia Water Corporation | 20. Mobile Telecommunication Company |
| 8. Namibia Statistics Agency (Coordinating Body) | 21. TransNamib Holdings |
| 9. Ministry of Economic Planning and NPC (Ex officio by virtue of mandate) | 22. Regional Electricity Distributors (REDs) x 3 |
| 10. Ministry of Agriculture, Water and Forestry | 23. Training Institutions (University of Namibia, Namibia University of Science and Technology, Namibia Institute of Public Administration and Management, National Institute of Education Development). |
| 11. Ministry of Fisheries and Marine Resources | 24. Regional Councils x 14 |
| 12. Ministry of Health and Social Services | 25. Local Authorities x 58 |
| 13. Ministry of Works and Transport | |

NSDI PRIORITY AREAS AND ACTIVITIES

1. COLLABORATION, COOPERATION AND COORDINATION

- 1.1 Setting up the Legal and Policy Framework
- 1.2 Setting up of and acceptance of a NSDI Governance Structure
- 1.3 Finding a neutral coordinating body (Structure, Personnel, other Resources)
- 1.4 Establishing NSDI partnerships
- 1.5 Technical Administration of the Committee for Spatial Data
- 1.6 Technical Administration of the NSDI Inter-Agency Steering Executive Subcommittee
- 1.7 Technical Administration of the NSDI Working Groups
- 1.8 Technical Administration of the Local & Regional SDI Platforms
- 1.9 Establishment of the NSDI Fund
- 1.10 Administration of the NSDI Fund
- 1.11 Develop and administer a cost sharing model for the NSDI
- 1.12 Assignment and Alignment of Custodianship
- 1.13 NSDI Help Desk/ Clearinghouse Functions

2. DATA

- 2.1 Creation of the National Spatial Data Inventory
- 2.2 Maintenance of the National Spatial Data Inventory
- 2.3 Harmonisation of data in the Official Spatial Data Inventory (mandatory attributes)
- 2.4 Gazette National Fundamental data themes and data sets
- 2.5 Creation of Data quality control procedures
- 2.6 Delivery of Data quality control procedure
- 2.7 Records digitalisation in government (Offices, Ministries and Agencies)
- 2.8 Creation of a Certification Programme
- 2.9 Delivery of the Certification Programme
- 2.10 Creation of an Advance Data Collection Calendar
- 2.11 Monitor / Updating / Maintenance of the Advance Data Collection Calendar
- 2.12 Publishing of compliant and non-compliant NSDI datasets

3. STANDARDISATION

- 3.1 Creation of Geostandards and Specifications
- 3.2 Geostandardisation
- 3.3 Interoperability Forum (Long Term as part of e-Government)

4. METADATA

- 4.1 Creation of Metadata Inventory
- 4.2 Creation of Metadata
- 4.3 Delivery of Metadata course
- 4.4 Maintenance of Metadata
- 4.5 Metadata quality control procedure

5. E-SERVICES

- 5.1 Establishment of the national Geo-portal (Metadata Catalogue & Map Browser)
- 5.2 Maintenance of the national Geo-portal (including all network services)
- 5.3 Support the development of e-services
- 5.4 Support the maintenance of e-services
- 5.5 E-commerce service for NSDI (only for licensed data, tools and services)
- 5.6 Creation of centralised registry functions
- 5.7 Maintenance of centralised registry functions

6. COMPETENCE

- 6.1 Infrastructure
 - 6.1.1 Investments in IT
 - 6.1.2 Establishment of the Network architecture including the Office of the Prime Minister's E-governance project
 - 6.1.3 Hardware
 - 6.1.4 Promote the use of Open Source Software
 - 6.1.5 Promote and support the establishment of GIS Units in government
 - 6.1.6 Establishment of national offsite backups for geographic information

6.2 Capacity Building

- 6.2.1 NSDI capability/readiness audit
- 6.2.2 NSDI Capacity and Training needs analysis (both in NSDI institutions, Secretariat, formal training)
- 6.2.3 Creation of NSDI Capacity Building Programme (informal, formal and professional development)
- 6.2.4 Delivery of NSDI Technical Training
- 6.2.5 Stakeholder Engagement workshops

7. INNOVATION

- 7.1 Development/ implementation of national geospatial use cases
- 7.2 Development/ implementation of pilot applications
- 7.3 Integration of geo into public and government E-services
- 7.4 Value addition
- 7.5 Support and promotion of new businesses

8. OUTREACH

- 8.1 NSDI Publicity Plan and Branding
- 8.2 Conducting National and Regional NSDI Publicity
- 8.3 NSDI Website development
- 8.4 Development of a publicity NSDI Video
- 8.5 Hosting of NSDI Workshops + Conferences
- 8.6 Publish quarterly/or bi-annual NSDI Newsletter
- 8.7 Promote the creation of a GIS Society
- 8.8 Support the functions of the GIS Society

9. RESEARCH & ADVOCACY

- 9.1 R&D and improvements
- 9.2 Advocate for GIS in Schools
- 9.3 Support activities relating to GIS in Schools including geography-teaching materials
- 9.4 Production of Atlases & other map products.

10. PERFORMANCE MANAGEMENT

- 10.1 Conduct NSDI Customer Satisfaction Surveys and Peer-reviewed Self Assessments
- 10.2 Develop and administer the NSDI Compliance Programme (Data, Systems and Project Clearance)
- 10.3 10.1 Monitoring and reporting on all aspects of the NSDI

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