

# Roadmap from a traditional Spatial Data Infrastructure (SDI) to an Integrated Geospatial Information Framework (IGIF)

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## Abstract:

The Spatial Data Infrastructure Act (SDI Act), 2003 (Act. No. 54 of 2003) provides for the establishment of the South African Spatial Data Infrastructure (SASDI) as the national, technical, institutional and policy framework to regulate the collection, management, maintenance, integration, distribution, and use of spatial information for improved socio-economic development.

In many countries the process of a national spatial data infrastructure has been set up. It is important that the process is not finalized with the first data gathering and structuring, but an ongoing process for the further SDI development. In this paper the current process from a first SDI to an integrated geospatial information network of the Republic of South Africa will be described as a good example.

*Everything happens somewhere* – geospatial information is an integral part in the implementation of the Government priority areas.

The presentation to provide the performance of the last four (4) years between 2016/2017 to 2019/2020 fiscal years, and share the achievements, challenges, and recommendations. The foundation has been prepared to ensure that the country and in particular decision-makers have access to reliable and authoritative fundamental geospatial information through the identification and appointment of base data custodians. Despite the inaccessibility of resources from the Department of Agriculture, Land Reform and Rural Development, the Committee was able to forge ahead and made noticeable strides toward the implementation of the South African Spatial Data Infrastructure (SASDI). The Committee has consistently performed its duties in line with section 6(2) of the SDI Act.

Transition to modernizing the SDI to an Integrated Geospatial Information Framework and share the strategic direction, ensuring the effective and efficient SDI Act compliance, and institutionalizing of the SASDI and activities of the Committee for Spatial Information impacting and influencing the government and State Enterprises.

The Strengths, Weaknesses, Opportunities and Threads (SWOT) and Political, Economic, Social, Technological, Environmental and Legal (PESTEL) analysis results to be shared. Showcase the model and framework followed on modernizing the SDI and compare it with the traditional SDI framework. Explore the resources required for the success of implementing the IGIF. Provide the terms of the programme of activities by aligning with the IGIF principles and setup of modern structures to be implemented.

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