



SOUTH AFRICAN SPATIAL DATA INFRASTRUCTURE - NEWSLETTER

The South African Spatial Data infrastructure (SASDI) newsletter is prepared for the Geo-spatial community by the Directorate: National Spatial Information Framework (NSIF). The purpose of the newsletter is to promote awareness of the activities of the Committee for Spatial Information (CSI) and provide useful information to strengthen SDI efforts.

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An update on the appointment of Base Data Set Coordinators

Three separate workshops on the appointment of Base Data Set Coordinators were organised by the Directorate: National Spatial Information Framework (NSIF) on behalf of the Data subcommittee of the Committee for Spatial Information (CSI). The workshops were held in Pretoria and the focus was on Base Data Set Coordinators for the following Data Themes: Administrative Boundaries; Cadastre; and Transport. The purpose of the workshop was to familiarise the prospective Base Data Set Coordinators of their roles and responsibilities as Base Data Set Coordinators and Base Data Set Custodians.

The outcome of the workshop was ratified at the CSI meeting held 5 September 2018, with the following appointments confirmed:

- ◆ The Office of Chief Surveyor General (OCSG), Department of Rural Development and Land Reform (DRDLR) appointed as a Base Data Set Coordinator for the Theme: Administration Boundary 1. Appointments of contributing custodians of datasets within the Theme: Administrative Boundary to be finalized in due cause.
- ◆ The Office of Chief Surveyor General (OCSG), Department of Rural Development and Land Reform (DRDLR) appointed as a Base Data Set Coordinator for the Theme: Cadastre. The Metros are identified as contributing custodians of datasets within the Theme: Cadastre, with appointments to be finalized in due cause.
- ◆ The National Department of Transport (NDOT) is appointed as a Base Data Set Coordinator for the Theme: Transport, with a number of agencies reporting to the NDOT identified contributing custodians. Appointments of contributing custodians of datasets within the Theme: Transport to be finalized in due course.

SASDI Workshop in North West and Limpopo provinces

The Education and Training Subcommittee of the CSI will be facilitating two events in October and November 2018.

These workshops are intended to provide insight into the Committee for Spatial Information (CSI) and the work that the Committee and its subcommittees are involved in to support stakeholders in the implementation of the SASDI.

Stakeholders wishing to participate in these workshops should submit the relevant RSVP form to the NSIF. To register, contact Nontobeko Nyuswa by email- Nontobeko.Nyuswa@drdlr.gov.za or Contact: nsif@drdlr.gov.za

Consultation workshop on SANS 19157- 2014 Data Quality Standard

The Standards subcommittee of the CSI has a responsibility in line with regulation 2,3 and 4 of the Spatial Data Infrastructure Act, 2003 to identify and publish standards for the implementation of the South African Spatial Data Infrastructure (SASDI). One of the standards identified for publication is the South African National Standard (SANS) 19157 :2014 Data Quality standard hence the need to consult and engage Data Custodians on the aforementioned standard before implementation.

SANS 1957- 2014 provides a standard way for describing the quality of geographic data. Such descriptions are useful when a producer has to evaluate how well a dataset meets the criteria described in its product specification.

The first consultation workshop was held in the Western Cape, Cape Town on the 18th of October 2018. The targeted audience were managers responsible for the spatial data capture and management.

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Appointment of Base Data Set Coordinators

The CSI has concluded the appointment of 10 Base Data Set Coordinators (BDSCs) covering 8 of the 10 pilot themes. The following organizations were appointed:

Theme	Data Sets	Appointed BDSCs
1. Administrative Boundaries		
1.1 Admin Boundaries 1	High Water Marks; Low Water Marks; Maritime Boundary; International, National and Provincial Boundaries	Department of Rural Development and Land Reform: Office of the Chief Surveyor-General
1.2 Admin Boundaries 2	District and local municipalities; Wards; Magisterial districts; and Traditional Authorities boundary	Municipal Demarcation Board
2. Imagery		
2.1 Satellite	Satellite	South African National Space Agency
2.2 Aerial	Aerial Imagery (0.35m - 0.5m)	Department of Rural Development and Land Reform: Office of the Chief Directorate: National Geospatial Information
3. Land Cover	Land Cover	Department of Rural Development and Land Reform: Office of the Chief Directorate: National Geospatial Information
4. Geodesy	Trigonometric Beacons; Town Survey Marks Schemes; Benchmarks; TrigNet GNSS Base Station Network; and Geoid Model	Department of Rural Development and Land Reform: Office of the Chief Directorate: National Geospatial Information
5. Transport	National, Main, Secondary and Other Roads; and Streets	National Department of Transport
6. Hydrology	Water Bodies (e.g. dams, lakes, etc.); Water Resources (e.g. Boreholes and Ground Water); Drainage Network Catchments; and Water Courses and Rivers.	Department of Water and Sanitations
7. Conservation	Conservation and Protected Areas	Department of Environmental Affairs
8. Cadastre	Land parcels and Deeds register attributes	Department of Rural Development and Land Reform: Office of the Chief Surveyor-General

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A national standard for the exchange of digital geo-referenced information

In September 1987, "A national standard for the exchange of digital geo-referenced information" by Derek G Clarke, Antony K Cooper, Elri C Liebenberg and M Hester van Rooyen was published by the CSIR as a Special Report, SWISK 45. It was also known as the National Exchange Standard (NES) and was version 1.0 of the standard, with version 2.0 published in November 1990.

SWISK 45 has now been scanned and a searchable version of the text has been produced and included as an invisible layer over the scanned version in a PDF, so that it can be searched, etc. Please note that the spelling and grammatical errors have not been corrected, so that the searchable text is hopefully an accurate representation of the original document. However, the text produced is in a mix of fonts, so if it is printed it will not match the scanned version.

This document is now available online from the CSIR's Research Space repository at: <http://researchspace.csir.co.za/dspace/handle/10204/10449>

This old document is being made available for three reasons:

- NES and its development are historically important in the advance of the geographical information sciences in South Africa. When the project began in 1985, few organisations in South Africa (or worldwide, for that matter) had implemented automated cartography or geographical information systems, so the project did increase awareness of the technologies and capabilities.
- The document includes a detailed glossary of relevant terms in English, with their definitions in English and the names of the terms in Afrikaans. This should be useful for the further development of terminology by the Standards Subcommittee of the Committee for Spatial Information (CSI).
- Finally, it is being made available for anyone interested in the standard, including those wishing to decode a data set encoded according to this standard. NES took a different approach from the exchange standards being developed then in other countries, having a relational structure, using a feature model, providing explicit topology and catering for all forms of geo-referenced information.

The intention is to scan, convert to text and upload the draft version of NES published in March 1987 and version 2.0 of NES but that will take some time.

Please note that an updated version of the glossary included in SWISK was included in the MSc dissertation of Antony Cooper which was completed in 1993 and which you can access at: <https://repository.up.ac.za/handle/2263/23151>

For more information, you may contact Dr Antony Cooper at acooper@csir.co.za

SASDI Electronic Metadata Catalogue (EMC)

Has your organisation published metadata on the SASDI Electronic Metadata Catalogue? The EMC provides a platform for sharing spatial data information that enables other spatial data users to discover the availability and fitness for use of spatial data.

The EMC can be accessed at: <http://www.sasdi.net/>

Upcoming events

25 October 2018 THE NATIONAL IMAGERY AND MAPPING ADVISORY COMMITTEE (NIMAC) Meeting 2018

Venue: Holiday Inn Express Pretoria, cnr. Jeppe and Trevenna Streets, Sunny Park, Sunnyside Pretoria

Time: 09h30 – 13h00.

Tel: 021 658 4305 Fax: 021 658 4357

Email: thando.makapela@drdlr.gov.za

31 October 2018

SASDI Workshop

Venue: (TBC), Mafikeng, North West

Contact: nsif@drdlr.gov.za

15 November 2018

SASDI Workshop

Venue: (TBC), Polokwane, Limpopo

Contact: nsif@drdlr.gov.za

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