SAEOSS: Status Update – June 2013

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1. Recent milestones:
   1. Integration with GEOSS Broker completed and tested.
   2. Approximately 1000 South African data sets are now available to the GEOSS data core and will extend automatically in future as new data sets become available.
   3. SARVA (Risk Atlas) ready for publication on-line.
2. Access to Data:
   1. This has been reported through NEOSS and SA-GEO recently. The detailed status report is attached for sake of completeness.
   2. Specific Remaining Challenges:
      1. SANSA: The SANSA second-tier meta-data (in the order of millions of meta-data records) are slow to access on current infrastructure. SAEON is developing two options to deal with this: (1) funding from NRF to improve infrastructure (2) dedicated server at CHPC. The latter may serve as an interim measure.
      2. WAMIS: Similar constraints, although the metadata collection is smaller and the problem is less acute.
   3. Next steps:
      1. Work with SANSA to provide direct access to SANSA catalogue with predefined queries, and to automate harvesting of meta-data.
      2. Implement faster meta-data search facility.
3. Development work and initiatives:
   1. GEO BON Demonstrator as part of AIP-6: This has now been accepted by the IIB and work will commence in late June.
   2. “Working for Data”: in collaboration with NEOSS and SA-GEO.
   3. Development of Helper Applications for GEOSS Common Infrastructure: The shared platform, which includes SAEOSS, makes provision for a number of ‘helper applications’ and brokers aspects such as data download and visualization for Sensorweb, OGC Web Services, KML, GeoRSS, MetaCAT, WAMIS Time Series, CSV files, and similar. The opportunity exists to align these with GEOSS Common Infrastructure ‘Helper Applications’ so that all GEOSS users can invoke the locally developed components. A proposal for funding will be submitted to DST as a collaboration between SAEON and Steve Browdy/ OMSTech (USA).
4. Sustainable operation of SAEOSS: Funding will be required (our estimate approximately R 700,000 per year) to fund infrastructure, maintenance and support, incremental improvement, contribution to GEOSS Infrastructure, and technical oversight.

# Data Status as Submitted to NEOSS: June 2013

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| **Summary of Data Set Status Within SAEOSS/ GEOSS Channel** |  |  |
| No impediments: data is publicly available and standardized (GEOSS Data Core) |  | 912 |
| Data is available but consent must be obtained for public dissemination |  | 15,727 |
| Data is available but is being standardised/ processed prior to publication |  | 2,498 |
| Data is publicly available but not standardised |  | 1,340 |
| Data can be released once scientific publication is completed |  | 27 |
| Data volume is too large for existing infrastructure, or systems development is required. |  | 1,220 |
| Meta-data references are available, but the preferred dissemination channel is elsewhere (GBIF, for example) |  | 1,450 |
|  |  | 23,174 |

**Published Data - Automated, Standardised and Available to GEOSS Data Core**

**Published Data - Available to GEOSS Broker**

GEOSS#: Local company specializing in Groundwater Resources