



OVERVIEW

SANSA? (South African National Space Agency)

PLANS? (Eosat 1)

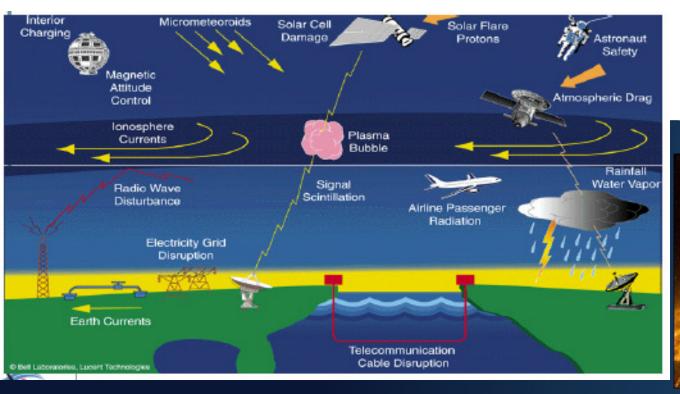
WATER? (MoU with DWA)

What do we do?

(HCD) (TIGER&TIGER-NET)

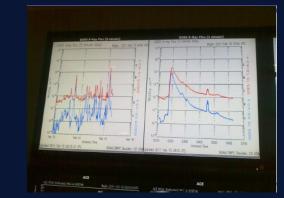
SANSA SANSA South African National Space Agency proposes to create 5 "In Service of humanity" Value (http://www.sansa.org.za) propositions Food Security SANSA is mandated by the SANSA Act. 36 of **Basic Research** 2008, to: Resource Management Applied Research -Promote the peaceful use of space; -Support the creation of an environment conducive Disaster Management Satellite Technology to industrial development in space technology; -Foster research in space science. Space Operations Environmental. communications, navigation and space physics; Services Management -Advance scientific, engineering and technological competencies and capabilities Research & Intellectual & Health, Safety Technology through human capital development (HCD), & Security Platform Provision Societal Capital Technology outreach programmes and infrastructure Capital development; and Knowledge Planning & Land -Forster international cooperation in space Creation & Management. Global Dissemination. related activities. Capital Internship Post-gradiuate Training. SA Space domain role players **Human Capital** Economic Capital Post-doc Training Department of Science and Technology In-service Training & technology Academic Institutions Other government departments Professional Training Science Advancement General public Science Councils School/Learner Programmes SPACE AGENCY **Educator Programmes** Industry Stakeholders Schools International Fora

Space Science Directorate (Hermanus)

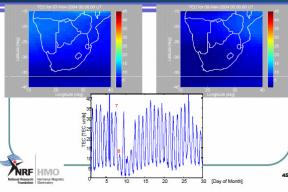








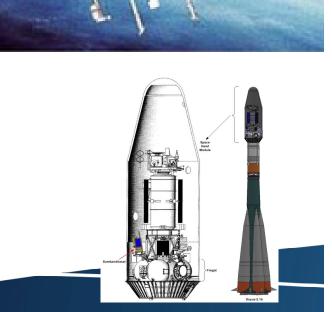




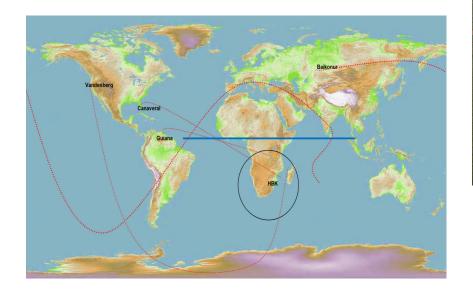
Space Engineering Directorate (DENEL Dynamics on behalf on SANSA)

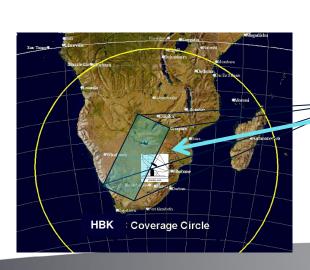
(Grabouw)





SANSA Space Operations Directorate (Hartebeeshoek)







- Launch support
- Transfer orbit support
- In Orbit Testing
- Lifecycle support
- Emergency support
- Carrier monitoring
- Remote Sensing TM reception
- Hosted Infrastructure
- Mission control

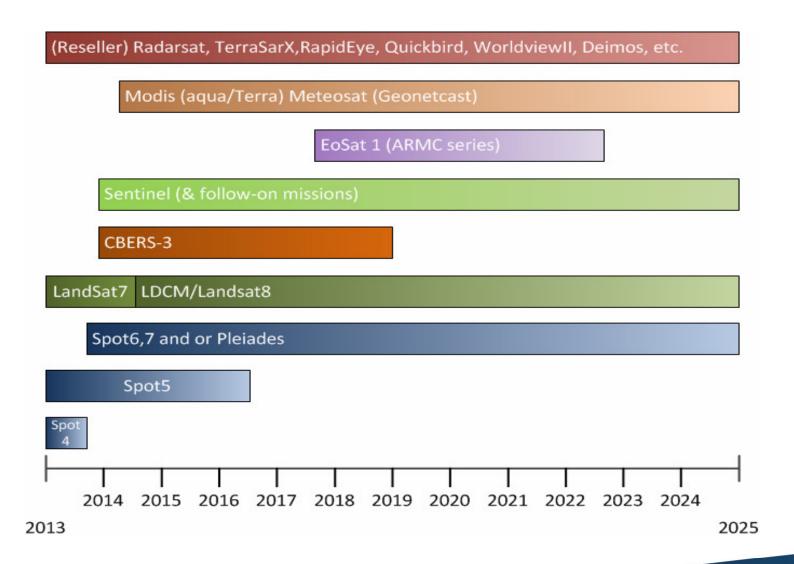
SANSA Earth Observation Directorate (Pretoria)



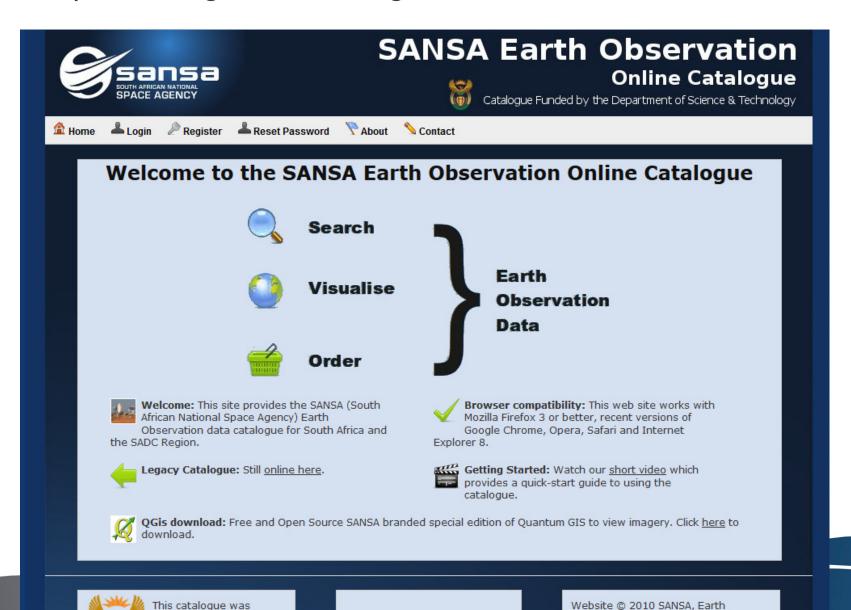


- Data acquisition for South African & global Earth Observation satellites
- Long term archiving of EO data
- Processing and production of VA & satellite images products and services
- Easy access and dissemination of data
- Development of EO applications per stakeholder needs
- Maintain & develop International partnerships
- Develop HCD and advance science amongst youth & public

SANSA SENSOR PORTFOLIO 2013

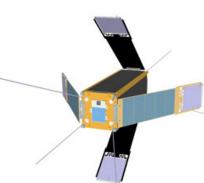


http://catalogue.sansa.org.za



CURRENT and FUTURE ACTIVITIES & TRENDS

- Microsatellites to cut costs
- Cubesats
- (launched last week)
- Unmanned Aerial Vehicules (UAV)
- (Sentinel 3 CAL/VAL team)
- Involvement in FP7 / Horizon .
- International projects (AMESD / Tiger-Net/ etc.
- International Charter Activations
- EUMETSAT links to SAWS & WMO
- SASSCAL research projects
- Etc.





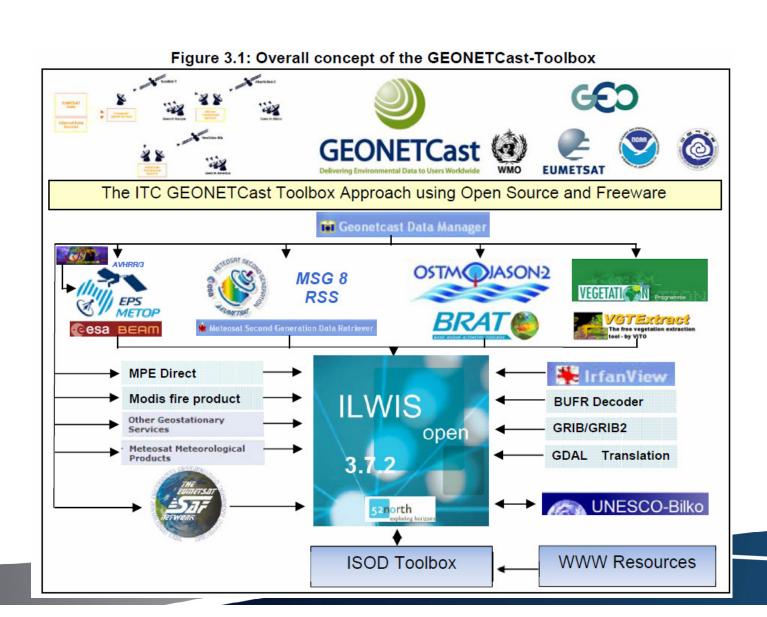


EO-SAT1

- 1st year in 5Year project
- User consultation & Feed-back
- Technical specifications
- Key words like:

ARMC, EO-SAT 1, spectral resolution, spatial resolution, swath width, temporal resolution, signal to noise ratio, radiometric resolution, food security, land use and land cover, disaster management, trade-offs

ALTERNATIVE DISSEMINATION ROUTES







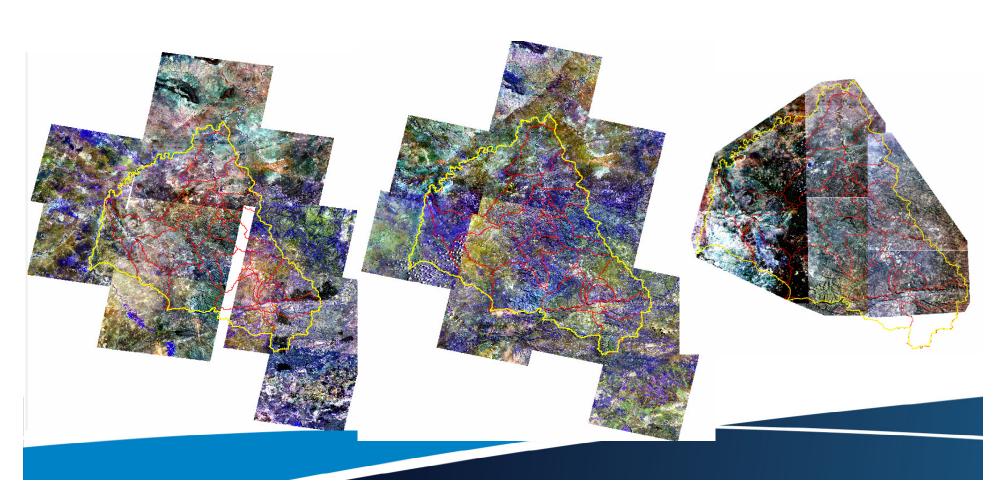
PRACTICAL CONTRIBUTIONS

AOI MOKOLO catchment

SPOT4 coverage

SPOT5 coverage

SPOT6 coverage



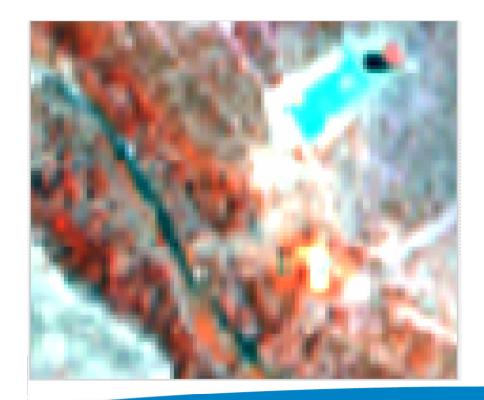




RESOLUTION EXAMPLE ON SPOT6

2427AB SPOT6

2427AB SPOT6





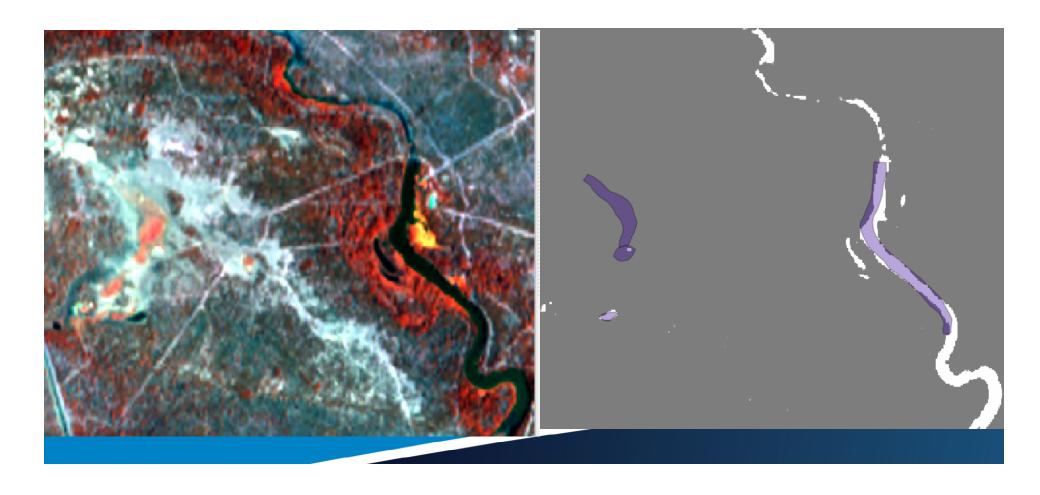


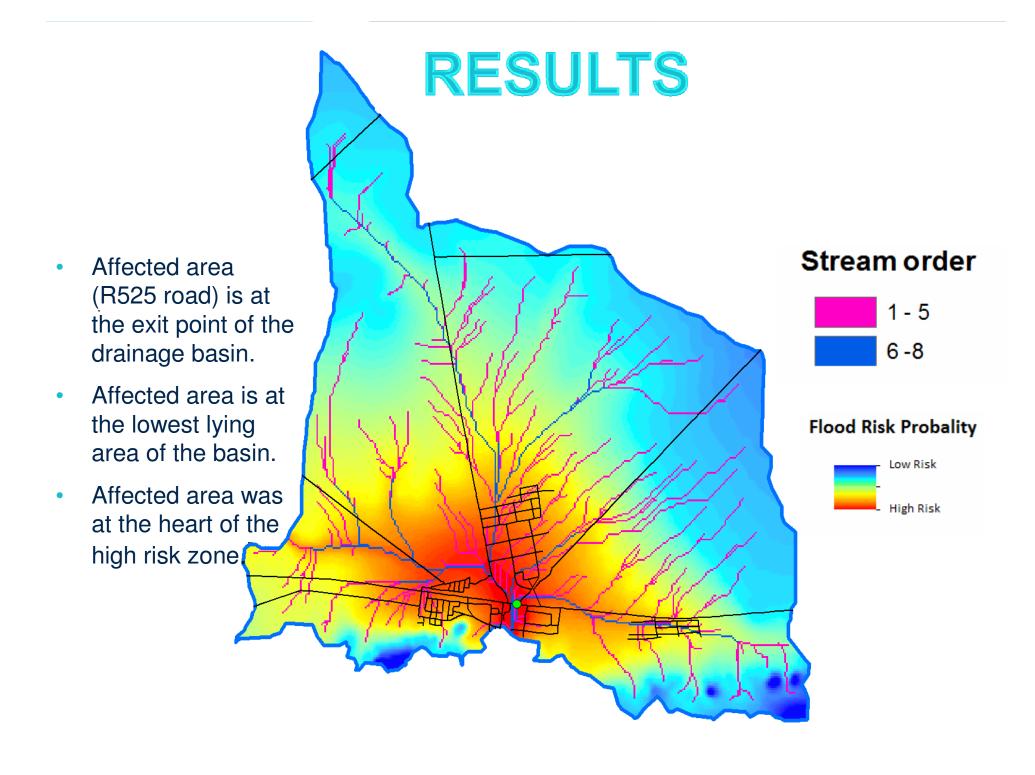


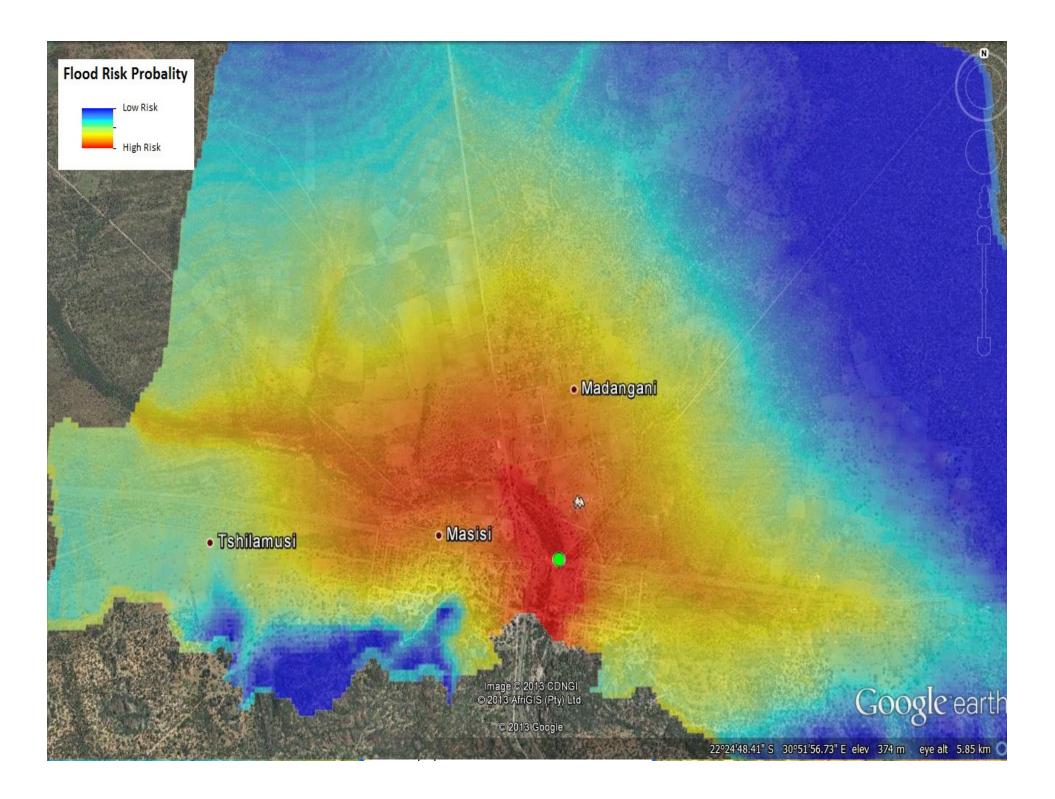
MEASUREMENT AGAINST BASE SET (dams_50) ?

2427AB SPOT6

2427AB SPOT6



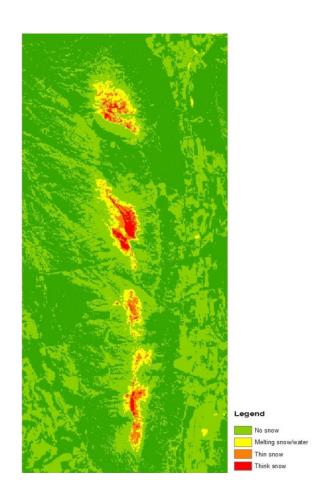


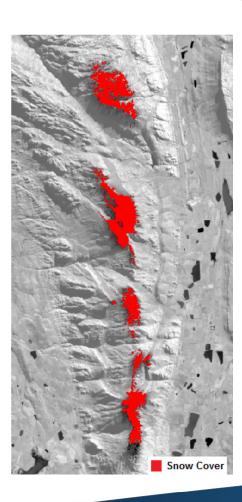


CURRENT EXAMPLES OF CONTRIBUTIONS

This winter's snow Cover in the Koue Bokkeveld mountains (WC)







HCD CONTRIBUTIONS

Training capabilities

SANSA identified Human Capital Development (HCD) as a KPI and promotes training offering the use of its infrastructure and expertise matching and in collaboration with similar programs supporting:

- -Outreach and Capacity Building
- -Horizontal Cooperation
- -Technical Advisory Support

example: TIGER, DIMTEC, UNU-EHS, etc.



- -Academic support from local and International experts
- -Student bursaries & Interships
- -Summer schools & Tailor made courses



FUNDISA STUDENT PORTAL







content

SAC-C coverage RSA

Preview and query SAC-C coverage over RSA

IUCN Amazing Species

A story map co-produced by Esri and IUCN featuring a





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desirable sharp on America and State of Stat

Watch this space for new content

CRERS-2B

TIGER RoT & ToT

Multi-institutional participation



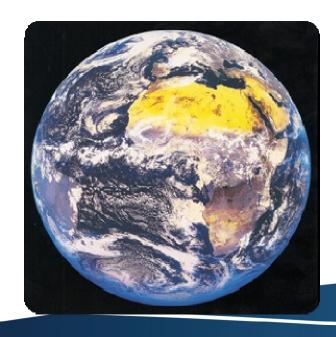








- Tunisia
- Mozambique
- Kenya
- Cameroon
- Benin
- Malawi
- Zambia
- South Africa







Thank you

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