



Workshop on

Cooperation in Scientific, Technical and Entrepreneurial Skills

Pretoria, 19-20 November 2013

European policy context

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EU/European space policy documents are littered with references to skills development and capacity building

- **EU Flagship programmes – EGNOS/Galileo, GMES/Copernicus**
- **EU Space Industrial Policy (February 2013)**
- **Council Conclusions (May 2013)**
- **European Parliament Industry, Research and Energy Committee's report (October 2013)**
- **EU Committee of Regions, Economic and Social Committee**



What do these references say?

- ✓ **Develop long-term vision of space institutional spending**
- ✓ **Carry out mapping the supply chain**
- ✓ **Support development of skills, mutually recognised qualifications**
- ✓ **R&D programmes should include actions for PhD research**
- ✓ **Lifelong learning programmes in cooperation between universities and the industry**
- ✓ **Appeal to foreign researchers**

International cooperation is key

'EU' concerns familiar to international partners – discussed at space dialogues and bilaterally:

- **Satellite navigation** - EGNOS for South Africa (ESESAs and SATSA projects under FP7 providing trainings on SBAS)
- **Earth observation** – cooperation in GEO and under GMES and Africa. They lay foundations for future activities under Horizon 2020 (space research) and interaction with Copernicus



SA's strong participation in EU space research

FP 7: 1. Russia, 2. Ukraine, 3. US, 4. South Africa, China, Brazil, Canada

16 projects by SA are mostly in Earth observation, but also in highly innovative space technologies – solar sails in space, debris de-orbiting, space weather and space science

H2020 (successor to FP7) – emphasis on space technologies in int'l partnerships



EU programmes for int'l mobility, professional standards and research training and carrers

Marie Curie Actions

- **Actions based on int'l and sectoral mobility to leading labs and institutes**
- **SA has received 2.4 M€ for 3 Actions**

Erasmus Mundus

- **388 SA master, doctoral students and university staff have benefitted since 2011**

EURAXESS website: <http://ec.europa.eu/euraxess/>

- **SA contact point**



Cooperation with ESA, EUMETSAT

ESA

ESA International Fellowship programme (PhD research fellows). Future possibilities for SANSA.

ESA DG and SANSA CEO meeting last September to establish formal cooperation in possible areas:

- **Eart observation**
- **Ground segment operations**
- **Space weather**
- **Magnetometry**
- **Education, training, exchange of staff**



Cooperation with ESA, EUMETSAT

EUMETSAT

EUMETSAT' cooperation with SA in 3 areas:

1. Support to Regional Training Centre on satellite meteorology

Satellite methodology training

Next on marine forecasting this December

Assistance by AMESD and MESA and the EC

2. Scientific cooperation

FP 7 projects (EAMNET, DevCoCast)

Tools SUMO, AFIS

Cooperation with ESA, EUMETSAT

3. Technical cooperation on space-related aspects

SANSA granted access to EUMETSAT data

EUMETSAT intends to develop cooperation with SA in skills development for satellite data acquisition (the RARS project)



Business Fora

EU-SA Business Forum

Last in July 2013

Europe Africa Business Forum

Next on 31/03 – 01/04 2014

Conclusion: Possibilities for cooperation on skills development exist, and cooperation should further intensify.

Do we take full advantage of the possibilities, and how can we improve this?