UNISEC-SAR
(Southern African Region)

The Second UNISEC-Global Meeting
November 18-20, 2014, Kitakyushu, Japan
The original plan

• UNISEC-SA? as South Africa have critical mass to create UNISEC chapter

• UNISEC-Namibia?
  • Keen interest
  • Limited experience in space
  • Currently only one University option

• UNISEC-Angola?
  • Keen interest
  • Limited experience in space
  • Currently no University option, but government organization established to develop space activities
Now: UNISEC-SAR

- **Transfer of knowledge and experience from South Africa to Namibia and Angola**
  - Ms Smita Francis – Enrolled PhD at Cape Peninsula University of Technology
  - Mr Zolana João – Enrolled PhD at Stellenbosch University

- **Create UNISEC-SAR to include Namibia, Angola and South Africa (and any Southern African Country)**
UNISEC-SAR Founded

- 2nd International African CubeSat Workshop held on 4 November 2014

- Universities, Government Agencies and Industry all represented – Ideal event to Launch UNISEC-SAR
Founding Members

• Stellenbosch University (SU)
• Cape Peninsula University of Technology (CPUT)
• University of Cape Town (UCT)
• Vaal University of Technology (VUT)
• Namibian University of Science and Technology (NUST)
• Angola (Angolan National Office for Space Affairs)
UNISEC-SAR Coverage
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Population:
54,002,000
+ 2,113,077
+ 24,383,301
= 80,498,378 (>Germany)

Area:
1,221,037 km²
+825,615 km²
+1,246,700 km²
= 3,293352 km² (>India)
UNISEC-SAR Current

• South African research activities presented by UNISON presentation

• CPUT – CanSat program with various schools, one school has “launched” using captive helium balloon

• CPUT – NUST cooperation – GPS research to enable more accurate GIS data capturing

• CPUT – Research chair in Satellite systems

• SU – Commercialization of CubeSat technology – 18+ ADCS packages delivered for QB50 participants
UNISEC-SAR Challenges

• Reaching and including other Universities involved in space engineering
  • 2/3 Candidates identified

• Growing “space” capacity at all member Universities
  • SU & CPUT are established, but can grow
  • UCT, VUT, NUTS, Angola single persons interested have big growth potential

• Expanding UNISON members and activities

• Reaching broader range of schools
  • Expanding school projects and guest lectures at schools
  • Importance of students to be interested in science (and of course space)
UNISEC-SAR Challenges II

• Creating opportunities and platforms to enable and improve knowledge sharing between UNISEC-SAR members
  
  • Yearly symposium on space engineering?
  • Yearly UNISEC-SAR members meeting?
  • Yearly UNISON-SAR meeting/symposium/competition?

• Host UNISEC-Global Meeting – 2016?
UNISEC-SAR Web-space

• Single source for UNISEC-SAR information
  • Members, structure, contact details
• Platform for information sharing
  • Distribution of UNISEC-Global information to members eg. UNISEC/UNISON Global meeting, MIC
  • Member areas for publishing resource information
  • Hosting of education material for universities and schools
• Online project collaboration
  • Improves accessibility
  • Reduce cost of travel
Thank you

Any Questions?

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