



# NACoE – National Aerospace Centre of Excellence South Africa

Overview to

## ICAO ACIP Conference

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REPUBLIC OF SOUTH AFRICA



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# NACoE Objectives

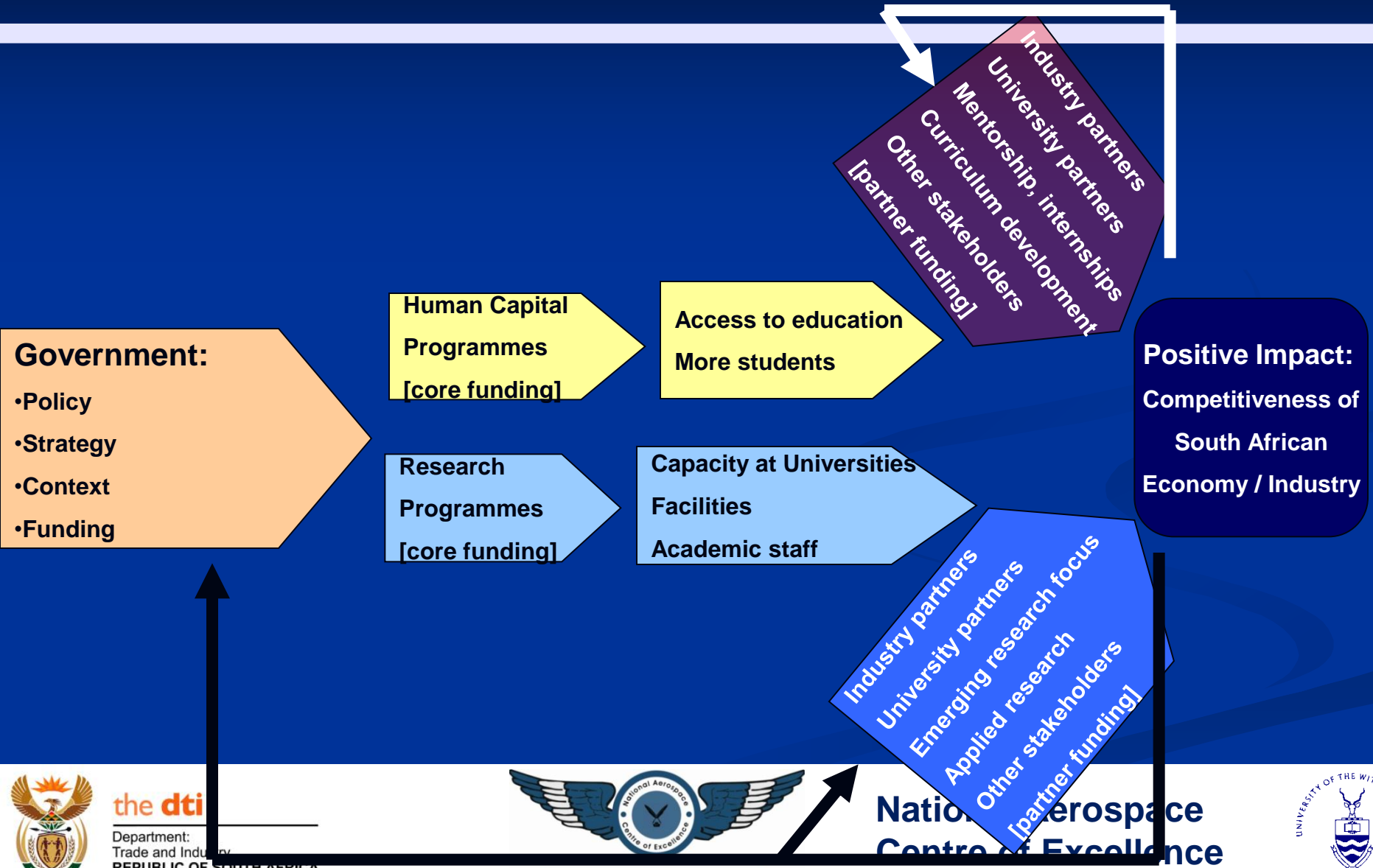
- To produce highly skilled human resources in the field of aerospace in line with the requirements and expectations of the (South) African aerospace industry
- To conduct leading edge, commercially significant technology research projects in the field of aerospace in a partnership model
- To establish a national knowledge repository in the field of aerospace
- To conduct technology transfer activities
- To establish and maintain the core NACoE functionality at Wits University, in collaboration with other leading Higher Education Institutions, industry and other stakeholders

# NACoE Mission

The NACoE conducts leading edge, commercially significant technology research and development for the aerospace industry in South Africa that would not have otherwise happened, and enhances the competitiveness and sustainability of the industry

- Key outputs of the NACoE are:
  - new or more competitive technologies/products
  - new knowledge
  - highly skilled human resources
  - technology transfer

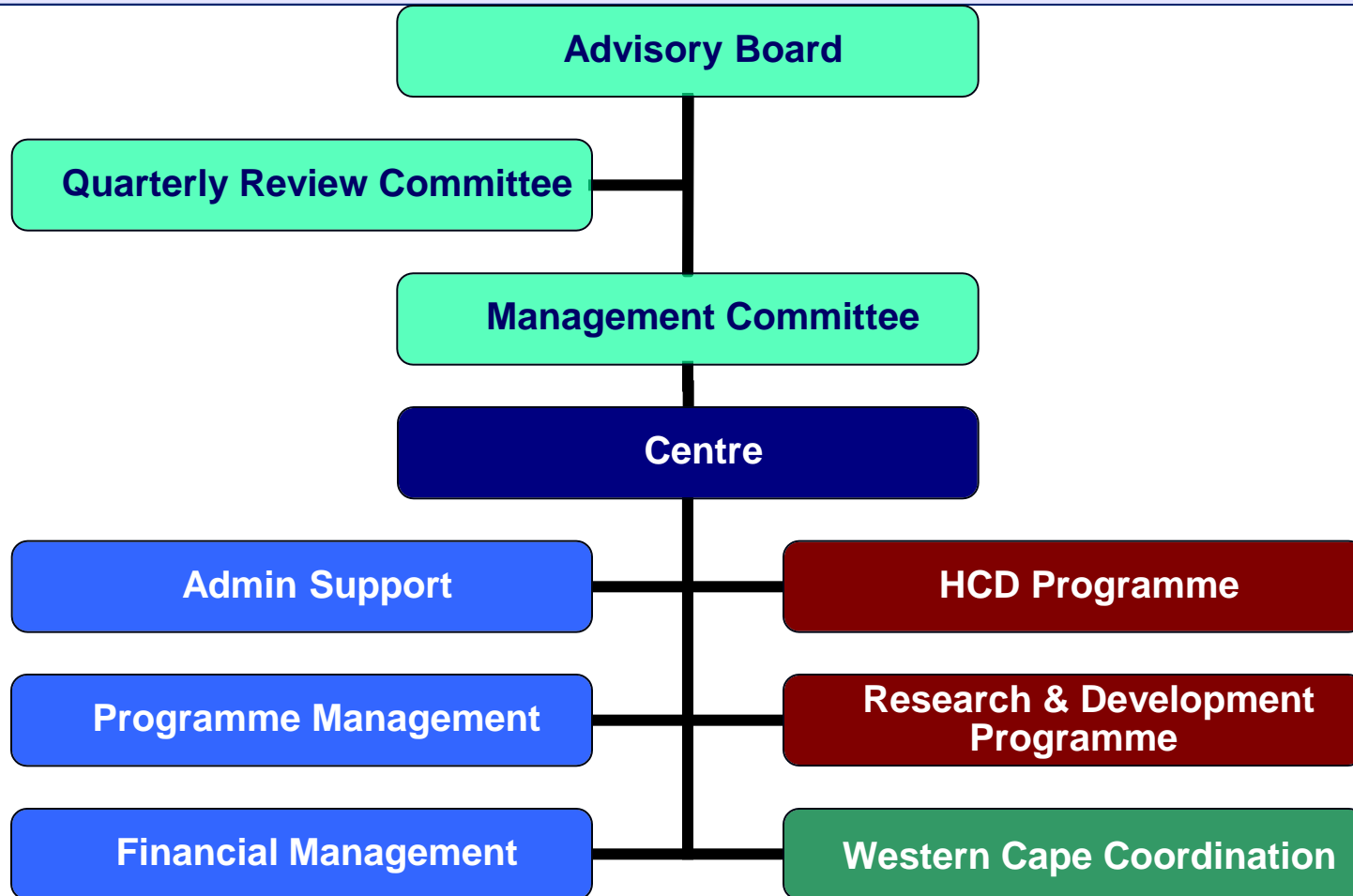
# NACoE Model



# NACoE Programmes and Projects

- Programme 1: Human Capital Development
- Programme 2: Research & Development
- Programme 3: Knowledge Management
- Programme 4: National Facilities
- Programme 5: Certification and Conformity Assessment
- Programme 6 : Project Management

# NACoE Structure



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# HCD – Projects

- Project 1: Bursaries and Scholarships
- Project 2: Retention & Promotion
- Project 3: Experiential Training
- Project 4: Studies
- Project 5: Course & Curricula Development
- Project 6: Special Projects

# Special Projects: AeroAfrica-EU

- To create a platform for enhancing aeronautics and air transport research and development (R&D) cooperation between the EU and Africa – starting with SA
- Participants:
  - University of the Witwatersrand, South Africa
  - National Aerospace Centre of Excellence, SA
  - Aerospace Valley, France
  - Cranfield University, UK
  - Fraunhofer-Gesellschaft zur Förderung der Angewandten Forschung E.V. Fraunhofer, Germany
  - Department of Science and Technology, South Africa
  - Kungl Tekniska Högskolan, KTH, Sweden



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# AeroAfrica-EU

- 2009 FP7 Call analysis workshops held with broader aerospace community in attendance
- Addressed were AeroAfrica-EU overview, FP7 Call Analysis, FP7 project processes & DST supporting instruments
- Potential FP7 collaboration areas were noted
- 2010 FP7 Call due in July – various workshops
- Workshop at Cranfield 19 July

# NACoE : Suggestions

- Capacity, demand, harmonization and quality all are important
- Need to also address the learner feeder stream
- Aviation / aerospace competes with other careers
- Promote aviation as preferred career choice - awareness
- Need to identify appropriate school subjects early
- Career growth opportunities essential
- Partnerships essential – commitment vs involvement
- Structure phased approach – milestones & reviews

# NACoE : Lessons Learnt

**Courses**  
**Accreditation**  
**Quality**  
**Syllabi**  
**Research – future**  
**Infrastructure**  
**Trainers**  
**Students**  
**Feeder stream**  
**Funding**  
**Careers**



# Awareness: COSAT Aero Super Friday 6 Nov 2009



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# Sci-Bono Aviation Awareness



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# IASSA 2009



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# Summary: NACoE

- NACoE have structures, processes and networks in place to support proposed implementation actions of ACIP such as:
  - development of training capacity
  - the process of development and maintenance of standardized training courses / curricula
  - participate in an African Training Advisory Board to promote best practices, develop minimum standards and to monitor implementation
  - participate in an Association of African Training Organizations
- This can be either for SADC and / or reaching out into the Continent in partnerships

# THANK YOU



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