

AeroAfrica-EU

Brussels

22 June 2009

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on behalf of the AeroAfrica-EU Team



What is AeroAfrica-EU?

- **It is a partnership project that seeks to promote European – (South) African Research Cooperation in Aeronautics and Air Transport,**
- **through the creation of a platform for enhancing aeronautics and air transport research and development cooperation,**
- **between the European Union (EU) & South Africa (SA) and**
- **also explores the potential for participation by other African countries in such cooperation,**
- **Initially over a period of 24 months.**

EU – SA History

- **Strategic S&T partnership signed 1996;**
- **Long-standing political, economic and development ties;**
- **Not limited to increasing international knowledge, but improve quality of life for both Europe and Africa;**
- **Recognise aeronautics as a driver of innovation and competitiveness;**
- **EU is SA's largest partner in aeronautics and air transport domain.**

FP7: EU and (South) Africa

- **This project identifies research areas where potential exists for mutually beneficial (South) African - European aeronautics and air transport R&D cooperation and**
- **to undertake concerted efforts, through e.g. awareness-raising and partner-matching to promote such collaboration.**
- **Rich potential for partnerships exists in domains such as:**
 - **Aerostructures,**
 - **Applied-, experimental and computational aerodynamics,**
 - **Aeronautical modeling, simulation and control, etc.**

The Project

- **We aim to ...**
 - **enhance networking and partnering in the aeronautics R&D community;**
 - **improve collaboration between EU and (S) African countries;**
 - **increase participation in FP7 by SA and African aeronautics researchers;**
 - **leverage co-operative relationships through the joint identification of needs and priorities; ...**

The Project

- **We aim to ...**
 - **The project is supported by the EU 7th Framework Programme (FP7) funding programme, under the Work Program AAT.2008.7.6 - Stimulating research with international cooperation partner countries.**
 - **This Coordination and Support Action (CSA) project will be implemented over the next two years and end at the beginning of 2011.**

<http://www.aeroafrica-eu.org/>



FP7: EU and (South) Africa Partners

- Consists of partners from:
 - South Africa - the Department of Science and Technology;
 - South Africa - National Aerospace Centre of Excellence;
 - South Africa – University of Witwatersrand;
 - France - Aerospace Valley;
 - Germany- Fraunhofer Institute for Chemical Technology;
 - Sweden- Royal Institute of Technology and
 - UK- Cranfield University.
- Designed to explore the potential for other African countries to participate in such cooperation.



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AeroAfrica-EU aims to promote European and South African research co-operation in aeronautics and air transport

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This project seeks to promote European-South African Research Cooperation in Aeronautics and Air Transport through the creation of a platform for enhancing aeronautics and air transport research and development cooperation between the European Union (EU) and South Africa (SA), and also exploring the potential for participation of other African countries in such cooperation.

Upcoming event
AeroAfrica-EU launch presentation
 22 June 2009, Brussels
 The launch presentation will consist of an overview of the AeroAfrica-EU project activities, South Africa's key aeronautics and air transport research competencies of interest to Europe, as well as an example of current

Open FP7 calls
 Calls closing on 22 July 2009:
[2009/S 96-137211 Support to Galileo Standardisation](#)
[2009/S 98-140618 Implementation of a Centralised Access System to the European GNSS Simulation and Testing Infrastructure](#)

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Key Activities

- 1. Mapping the landscape**
- 2. Networks and partnerships**
- 3. Supporting EU FP7**
- 4. R&D cooperation**

Key Activity 1: Mapping Aeronautics & Air Transport Landscape

- **Interactions between the EU and SA (and African) partners will be collated and analysed in the following categories:**
 - **R&D competences in the governmental, research and private sectors;**
 - **Collaborations such as Framework Programme projects, bilateral initiatives etc.;**
 - **The "enabling environment", which includes co-operation and legislative frameworks, as well as an overview of respective research, aeronautics and air transport policies;**
 - **...**

Key Activity 1: Mapping Aeronautics & Air Transport Landscape

- **Interactions between the EU and SA (and African) partners will be collated and analysed in the following categories:**
 - ...
 - **Specific SA / African R&D strengths or comparative advantages;**
 - **Political, economic or development co-operation imperatives;**
 - **Funding mechanisms.**
- **Workshops will be held where SA, African and EU researchers can discuss the mapping and identify further areas for co-operation.**

Key Activity 2: Networks and Partnerships

- **SA researchers and institutions will be actively promoted to their EU counterparts.**
- **Thematic-focused workshops, awareness sessions and international aeronautics and air transport conferences hosted in Europe and in Africa will be utilised to showcase the project and European / African research projects.**
- **IASSA - November 2009 hosted in Pretoria, SA.**

Key Activity 3: Supporting EU FP7

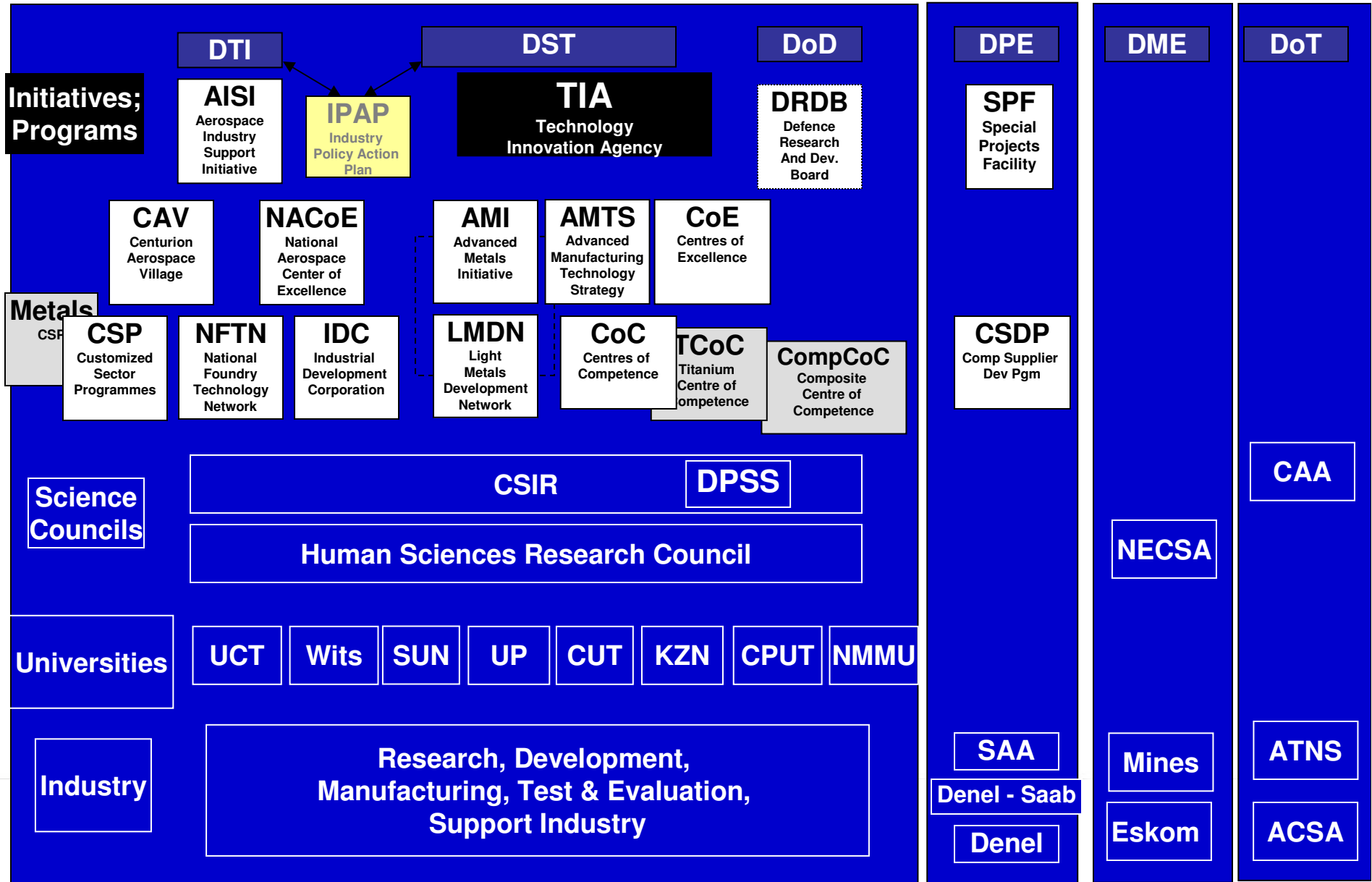
- **Consolidating and mobilising towards supporting EU FP7**
- **Activities under this objective are aimed at encouraging African aeronautics researchers to participate in FP7.**
- **To be achieved through a portal on the project website, specifically facilitating external communication and raising awareness.**
- **The project will provide assistance and information on the functioning of FP7, and offer access to knowledge and expertise to aid successful participation in FP7.**

Key Activity 4: R&D Cooperation

- **Identify and demonstrate mutual interest and benefit in R&D co-operation:**
 - **Work towards creating a policy framework to allow stakeholders to meet and:**
 - **discuss issues of relevance to the respective communities,**
 - **identify areas of co-operation, and**
 - **define mechanisms to foster greater collaboration in addressing air transport.**
 - **The intention is to prepare a policy paper on the links between aeronautics and air transport R&D co-operation with:**
 - **political, economic and development co-operation between Africa and Europe.**

SA Aero Initiatives

Dept Policy Entity



Status - Activity 1: Mapping the Aero Landscape

- **The NACoE has engaged with SA Aero industry and academia to determine a relevant mapping of the landscape;**
- **This was discussed with Cranfield and their feedback incorporated;**
- **The first draft has been released to the Partners for review and comment;**
- **Next slide shows the main characteristics.**

Landscape Mapping Elements

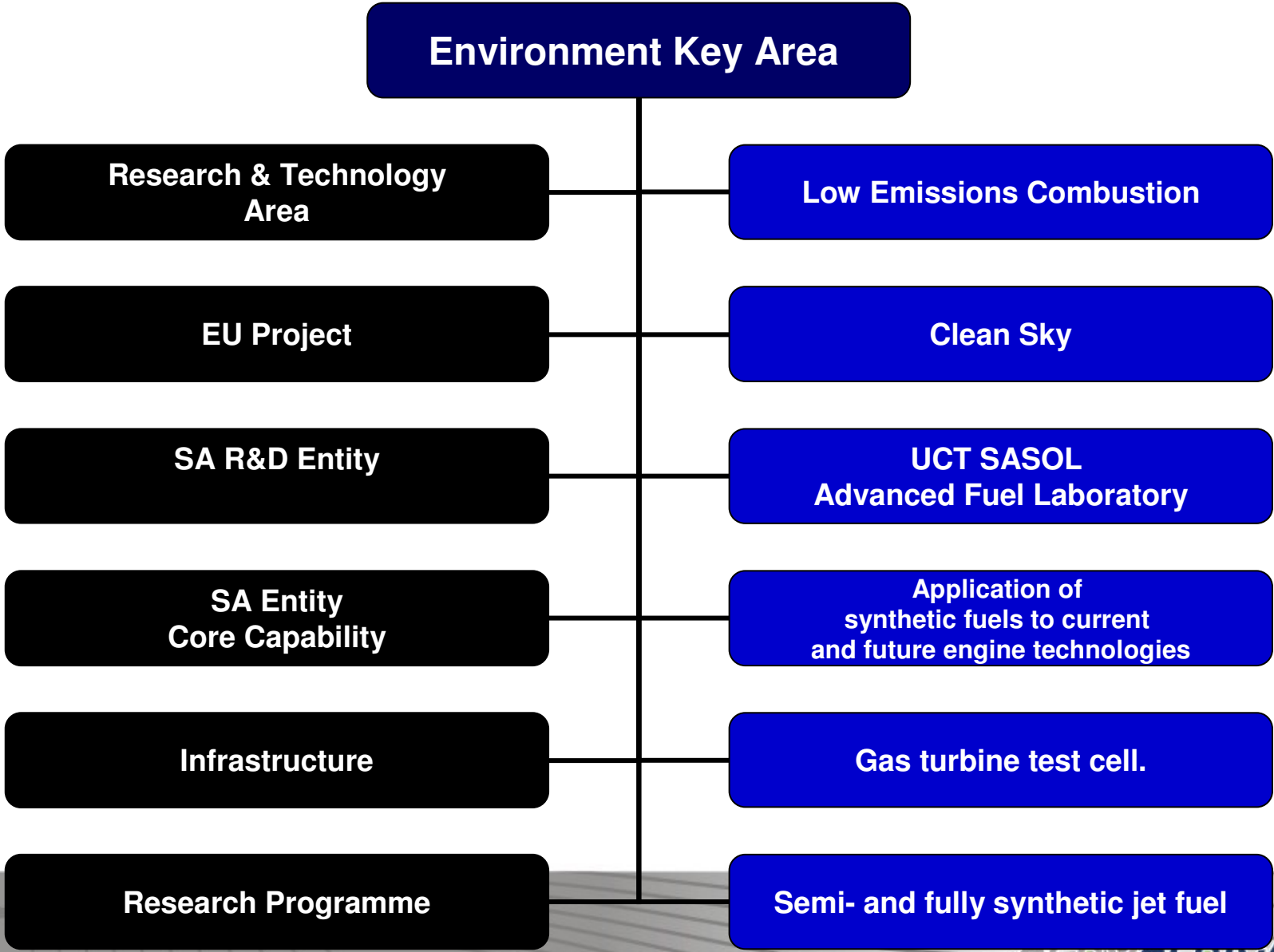
Structure followed:

- **7 Key areas identified and for each one was;**
 - **Research & Technology areas identified;**
 - **Related EU projects identified;**
 - **South African R&D entities involved in similar areas identified;**
 - **Relevant core capabilities per SA organization highlighted;**
 - **Existing relevant infrastructure in SA identified;**
 - **Existing research programmes highlighted.**

The 7 Mapping Key Areas:

- **Safety**
- **Air traffic management**
- **Security**
- **Environment**
- **Health monitoring & management**
- **Innovative design and manufacturing**
- **Aircraft design**

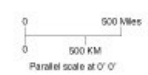
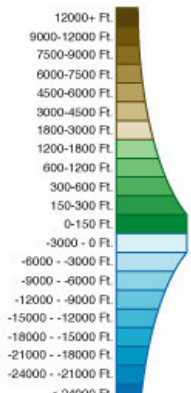
Landscape Mapping: Example



Involving Other African Countries

- **Geography of Africa's aeronautics knowledge;**
 - **South Africa, Morocco, Egypt, others;**
 - **New stars – Ethiopia, Tanzania, Mauritius, Madagascar;**
 - **Look out for – Zimbabwe, Botswana, Zambia, Ghana, Nigeria, etc.**
 - **54 Countries, largest continent on Earth...**

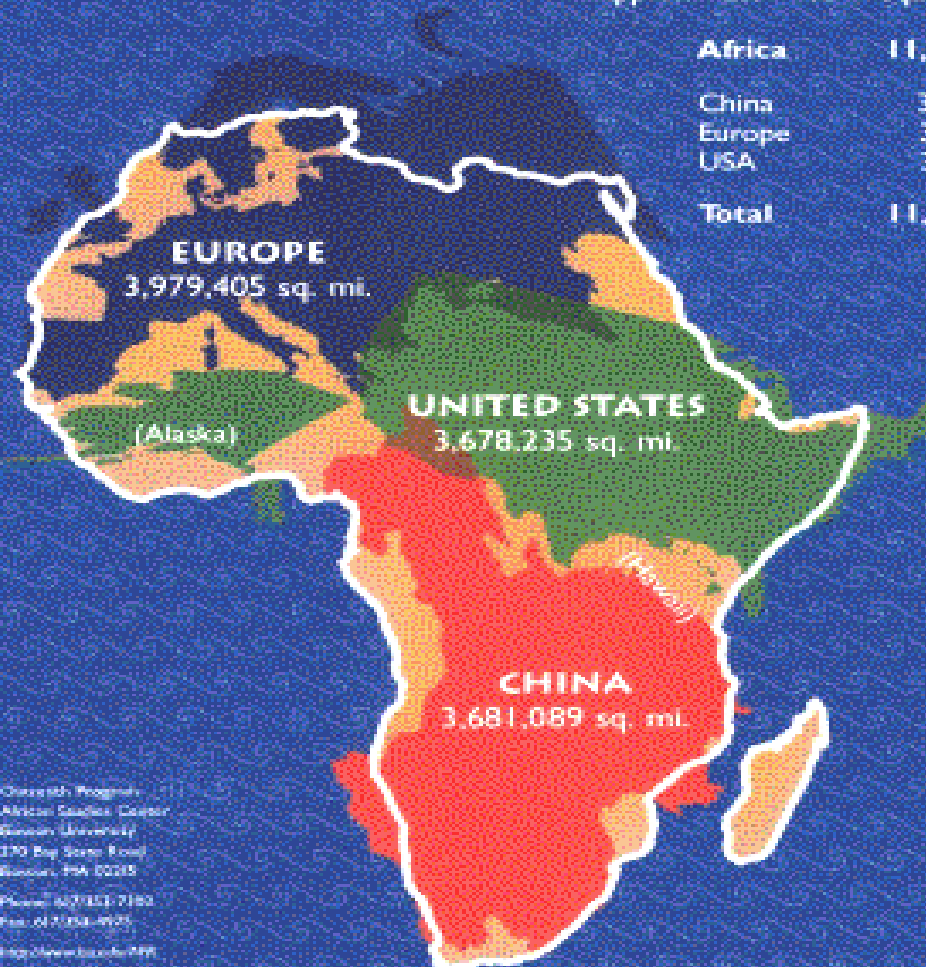
Involving Other African Countries



HOW BIG IS AFRICA?

Approximate Area in Square Miles

Africa	11,668,545
China	3,681,089
Europe	3,979,405
USA	3,678,235
Total	11,338,729



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Mollweide Equal Area Projection

Upcoming Events

- **Le Bourget Paris Air Show : June 2009**
- **AeroAfrica-EU Launch event Brussels : 22 June 2009**
- **FP7 Transportation call for proposals**
- **Brief on FP7 processes to SA stakeholders : August 2009**
- **Event Brussels : 28-29 September 2009**
- **IASSA = International Aerospace Symposium SA : 23-25 November 2009**

Detail on NACoE Next

Any questions?