

# AeroAfrica-EU

## Call Discussion

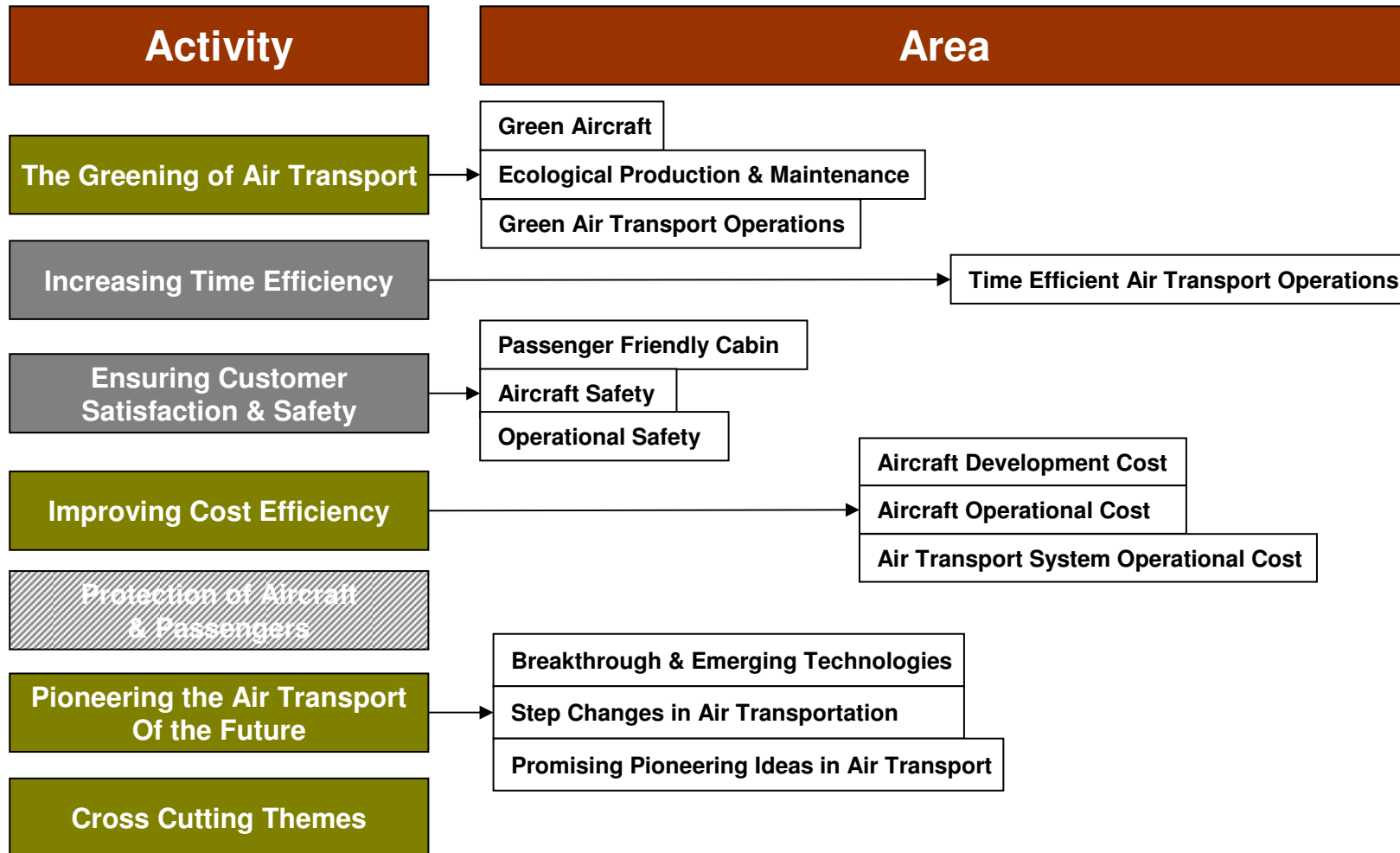
3<sup>rd</sup> Sept 2009

Philip Haupt

on behalf of the AeroAfrica-EU Team



# Call Activity Breakdown



# Rules of Engagement

- We have many topics to get through
  - Maximum 5 minutes per topic
  - Many areas have duplicate topics
- Quick reminder on topic essence and keywords
- Need to populate topics with
  - Person
  - Institution
  - Specific subject matter (keywords)
- Move on
- If we do not finish
  - Follow up session for remaining topics, or
  - Offline discussions

# Activity 7.1.1. The Greening of Air Transport

## ***Area 7.1.1.1 Green Aircraft***

### ***Topic 2010.1.1-1 Flight Physics***

- Wing Morphing
  - Dr. Craig Law – Wits MIA
- Airframe Aerodynamics & Design
  - Dr. Igle Gledhill (CFD) – CSIR
- Stellenbosch University?

# Activity 7.1.1. The Greening of Air Transport

## ***Area 7.1.1.1 Green Aircraft***

### ***Topic 2010.1.1-2 Aerostructures***

- Light Weight Metallics
  - Dr. Sagren Govender – Titanium SSM
- Composite Materials
  - Dr. Abisha Themba – CSIR Textiles
  - Prof. Rajesh Anandjiwala – CSIR PE / NMMU
  - Gary Corderley – CSIR MSM

# Activity 7.1.1. The Greening of Air Transport

## ***Area 7.1.1.1 Green Aircraft***

### ***Topic 2010.1.1-3 Propulsion***

- Modelling
  - Glen Snedden - CSIR DPSS
- Cold Gas Spraying
  - Dr. Ionel Botef – Wits MIA
- Synthetic Fuels
  - UCT (Sasol Lab)
- Combustion
  - Dr Everard Van Niekerk

# Activity 7.1.1. The Greening of Air Transport

## ***Area 7.1.1.1 Green Aircraft***

### ***Topic 2010.1.1-4 Systems & Equipment***

- ?

# Activity 7.1.1. The Greening of Air Transport

## ***Area 7.1.1.1 Green Aircraft***

### ***Topic 2010.1.1-5 Avionics***

- Advanced Concepts & Technologies
  - Dr Denis Milton
  - CSIR (Modular Avionics)
  - Mr. Tom Roos
  - Cobham (Radar Altimeters & Antennas)

# Activity 7.1.1. The Greening of Air Transport

## *Area 7.1.1.2 Ecological Production & Maintenance*

### Topic 2010.1.2-1 Production

- Friction Stir Welding
  - Prof. Claudia Polese – Wits MIA

# Activity 7.1.1. The Greening of Air Transport

## *Area 7.1.1.2 Ecological Production & Maintenance*

### Topic 2010.1.2-2 Maintenance & Disposal

- Laser paint stripping
  - SDI
  - NLC
- Health and usage monitoring
- Engines
  - Glen Snedden – CSIR
  - Ian Alers – Avitronics
- Structures
  - Gary Corderley – CSIR MSM
  - Ian Alers – Avitronics

# Activity 7.1.1. The Greening of Air Transport

## *Area 7.1.1.3 Green Air Transport Operations*

### Topic 2010.1.3-2 Airports

- Dr. Bridget Ssamula – CSIR BE

# Activity 7.1.1. The Greening of Air Transport

## ***Area 7.1.1.3 Green Air Transport Operations***

**Topic 2010.1.3-3 Design Systems & Tools (Interactions between air transport, environment & society)**

- ?

## Activity 7.1.2. Increasing Time Efficiency

### *Area 7.1.2.2 Time Efficient Air Transport Operations*

#### Topic 2010.2.2-2 Airports

- Dr. Bridget Ssamula – CSIR BE

# Activity 7.1.3. Ensuring Customer Satisfaction & Safety

## *Area 7.1.3.1 Passenger Friendly Cabin*

### Topic 2010.3.1-2 *Noise & Vibration*

- ?

# Activity 7.1.3. Ensuring Customer Satisfaction & Safety

## ***Area 7.1.3.3 Aircraft Safety***

### ***Topic 2010.3.3-1 Aerostructures***

- Blast Modelling
  - Prof Gerald Nurick – BISRU
- Engines
  - Glen Snedden – CSIR DPSS
  - Ian Alers – Avitronics
- Structures
  - Gary Corderley – CSIR
  - Ian Alers – Avitronics

# Activity 7.1.3. Ensuring Customer Satisfaction & Safety

## ***Area 7.1.3.3 Aircraft Safety***

### ***Topic 2010.3.3-2 Systems & Equipment***

- FST
  - NECSA/NLC

# Activity 7.1.3. Ensuring Customer Satisfaction & Safety

## *Area 7.1.3.3 Aircraft Safety*

### Topic 2010.3.3-3 Avionics

- ?

# Activity 7.1.3. Ensuring Customer Satisfaction & Safety

## *Area 7.1.3.4 Operational Safety*

### Topic 2010.3.4-1 *Design Systems & tools*

- ?

## Activity 7.1.4. Improving Cost Efficiency

### *Area 7.1.4.1 Aircraft Development Cost*

#### Topic 2010.4.1-1 *Design Systems & tools*

- ?

# Activity 7.1.4. Improving Cost Efficiency

## ***Area 7.1.4.1 Aircraft Development Cost***

### **Topic 2010.4.1-2 Aerostructures**

- Structures
  - Gary Corderley – CSIR MSM
  - Ian Alers – Avitronics
- Engines
  - Glen Snedden – CSIR
  - Ian Alers – Avitronics

## Activity 7.1.4. Improving Cost Efficiency

### *Area 7.1.4.1 Aircraft Development Cost*

#### Topic 2010.4.1-3 *Systems & Equipment*

- ?

## Activity 7.1.4. Improving Cost Efficiency

### *Area 7.1.4.1 Aircraft Development Cost*

#### Topic 2010.4.1-4 Avionics

- Near net shaped Avionics packaging
  - Prof Dimitri Dimitrov – Stellenbosch University
  - Mr Pierre Rossouw – CSIR MSM

## Activity 7.1.4. Improving Cost Efficiency

### *Area 7.1.4.1 Aircraft Development Cost*

#### Topic 2010.4.1-5 Production

- ?

# Activity 7.1.4. Improving Cost Efficiency

## ***Area 7.1.4.2 Aircraft Operational Cost***

### ***Topic 2010.4.2-1 Flight Physics***

- Dr Craig Law - Wits MIA
- Prof Thomas Jones - Stellenbosch University
- Dr. Japie Engelbrecht - Stellenbosch University

# Activity 7.1.4. Improving Cost Efficiency

## *Area 7.1.4.2 Aircraft Operational Cost*

### Topic 2010.4.2-2 *Aerostructures*

- Gary Corderley – CSIR MSM
- Ian Alers – Avitronics

# Activity 7.1.4. Improving Cost Efficiency

## ***Area 7.1.4.2 Aircraft Operational Cost***

### ***Topic 2010.4.2-3 Propulsion***

- Modelling
  - Glen Snedden - CSIR DPSS
- Cold Gas Spraying
  - Dr. Ionel Botef – Wits MIA
- Synthetic Fuels
  - UCT (Sasol Lab)
- Combustion
  - Dr Everard Van Niekerk

## Activity 7.1.4. Improving Cost Efficiency

### *Area 7.1.4.2 Aircraft Operational Cost*

#### Topic 2010.4.2-4 **Systems**

- ?

# Activity 7.1.4. Improving Cost Efficiency

## *Area 7.1.4.2 Aircraft Operational Cost*

### Topic 2010.4.2-5 Avionics

- Advanced Concepts & Technologies
  - Dr Denis Milton
  - CSIR (Modular Avionics)
  - Mr. Tom Roos
  - Cobham (Radar Altimeters & Antennas)

## Activity 7.1.4. Improving Cost Efficiency

### *Area 7.1.4.3 Air Transport System Operational Cost*

#### Topic 2010.4.3-4 *Human factors*

- ?

# Activity 7.1.6. Pioneering the Air Transport of the Future

## *Area 7.1.6.1 Breakthrough & Emerging Technologies*

### Topic 2010.6.1-1 *Lift*

- ?

# Activity 7.1.6. Pioneering the Air Transport of the Future

## *Area 7.1.6.1 Breakthrough & Emerging Technologies*

### Topic 2010.6.1-2 *Propulsion*

- ?

# Activity 7.1.6. Pioneering the Air Transport of the Future

## *Area 7.1.6.1 Breakthrough & Emerging Technologies*

### Topic 2010.6.1-3 Interior Space

- ?

# Activity 7.1.6. Pioneering the Air Transport of the Future

## *Area 7.1.6.1 Breakthrough & Emerging Technologies*

### Topic 2010.6.1-4 *Life-Cycle*

- ?

# Activity 7.1.6. Pioneering the Air Transport of the Future

## *Area 7.1.6.2 Step Changes in Air Transport Operation*

### *Topic 2010.6.2-1 Novel Air Transport Vehicles*

- ?

# Activity 7.1.6. Pioneering the Air Transport of the Future

## *Area 7.1.6.2 Step Changes in Air Transport Operation*

### Topic 2010.6.2-2 *Guidance and Control*

- Prof Thomas Jones - Stellenbosch University
- Dr. Japie Engelbrecht - Stellenbosch University

# Activity 7.1.6. Pioneering the Air Transport of the Future

## *Area 7.1.6.2 Step Changes in Air Transport Operation*

### Topic 2010.6.2-3 Airports

- ?

## Activity 7.1.6. Pioneering the Air Transport of the Future

### *Area 7.1.6.3 Promising Pioneering Ideas in Air Transport*

#### Topic 2010.6.3-1 *The Cruise/Feeder Concept*

- ?

## Activity 7.1.6. Pioneering the Air Transport of the Future

### *Area 7.1.6.3 Promising Pioneering Ideas in Air Transport*

#### *Topic 2010.6.3-2 Take-Off and Landing with Ground based Power*

- ?

## Activity 7.1.6. Pioneering the Air Transport of the Future

### *Area 7.1.6.3 Promising Pioneering Ideas in Air Transport*

#### Topic 2010.6.3-3 *Personal Air Transport Systems*

- ?

## Activity 7.1.6. Pioneering the Air Transport of the Future

### *Area 7.1.6.3 Promising Pioneering Ideas in Air Transport*

#### *Topic 2010.6.3-4 New Sources of Aircraft Main Propulsive Power*

- ?

## Activity 7.1.7. Cross-Cutting Activities

*Topic 2010.7-3 Improving passenger choice in air transportation with the incorporation of additional and new vehicles*

- ?

## Activity 7.1.7. Cross-Cutting Activities

*Topic 2010.7-4 Retrofitting for improved sustainability and economic viability of aeronautical products*

- ?

## Activity 7.1.7. Cross-Cutting Activities

Topic 2010.7-6 *Stimulating research with International Cooperation Partner Countries*

- ?

## Activity 7.1.7. Cross-Cutting Activities

*Topic 2010.7-9 Supporting the organisation of conferences and events of special relevance to aeronautics and air transport research*

- ?

## Activity 7.1.7. Cross-Cutting Activities

*Topic 2010.7-11 Stimulating the participation of small and medium size enterprises (SME) and other small organisations for improved integration of the European Research Area*

- ?

## Activity 7.1.7. Cross-Cutting Activities

*Topic 2010.7-12 Assessing and further developing the role of small aircraft in the air transport system*

- ?

## Activity 7.1.7. Cross-Cutting Activities

*Topic 2010.7-13 Observation platform to assess the fulfillment of Vision 2020 goals from technological and institutional standpoints*

- ?

## Activity 7.1.7. Cross-Cutting Activities

*Topic 2010.7-14 Platform to stimulate the development of breakthrough technologies and concepts enabling step changes in aviation*

- ?

## Activity 7.1.7. Cross-Cutting Activities

*Topic 2010.7-15 Updating the strategic agenda for aeronautics and air transport research in Europe*

- ?

## Activity 7.1.7. Cross-Cutting Activities

*Topic 2010.7-16 Exploring opportunities and stimulating research cooperation with the United States of America*

- ?

## Activity 7.1.7. Cross-Cutting Activities

Topic 2010.7-17 ***Socio-economic incentives and barriers to innovation in air transport***

- ?

**End**