

AeroAfrica-EU

FP7 Aeronautics Call Overview

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Scope

- Acronyms, definitions
- Schedule
- Funding
- Documentation
- Where Aeronautics fit into FP 7
- Considerations
- Activities stated
- Observations pertaining to the Call Activities, Areas and Topics

Acronyms, definitions

- **CP – FP:** ‘Collaborative Projects’ of small or medium-scale (CP-FP) with a maximum requested Community contribution of up to EUR 5 million
- **CSA – CA:** This comprises activities aiming at strengthening excellence in particular research fields through networking. These activities will be the subject of ‘Coordination and Support Actions - Coordinating Action’
- **CSA-SA:** ‘Coordination and Support Actions - Supporting Action’. This comprises activities aimed at setting mechanisms or developing strategies for the implementation of the Programme in aspects related to its technical content, the appropriate participation of entities and countries or the focus of its activities
- **Level 1:** [detail](#)
- **Level 2:**

Schedule

- Call identifier : FP7-AAT-2010-RTD-1
- Date of publication : 30 July 2009
- Submission : 14 January 2010; 17h00 (Brussels)
- Evaluation : 1-19 March 2010 in Brussels
- Letters to successful coordinators : May 2010 [to launch grant agreements negotiations]
- Grant agreement negotiations : June 2010
- Letters to unsuccessful applicants : September 2010
- Signature of first grant agreements : September 2010
- Information day : 9 September in Brussels [P Haupt]

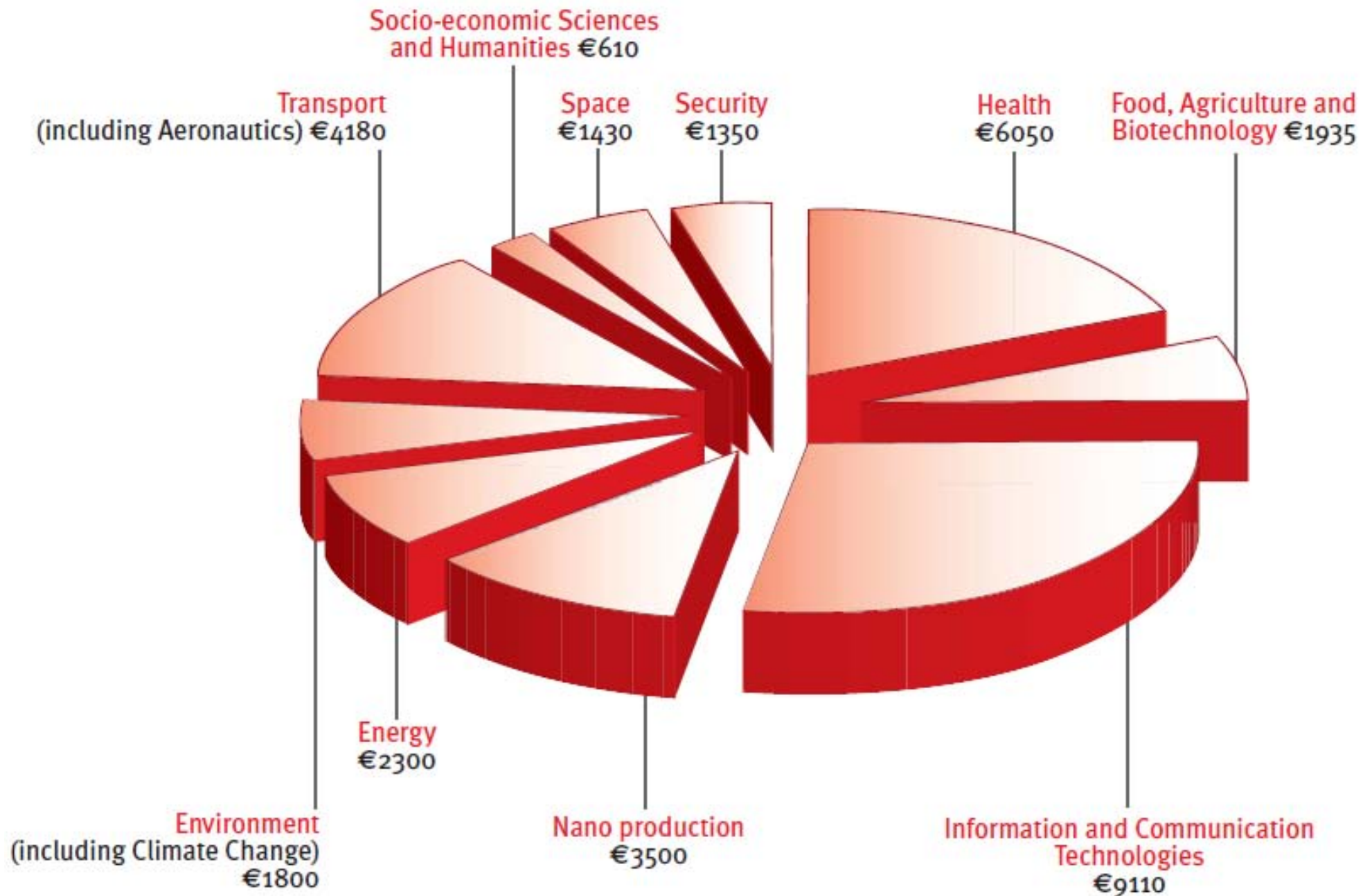
Funding

- Indicative budget: EUR 101.29 million
- The indicative distribution of the call budget is as follows:
- EUR 3 million for CSA–SA
- EUR 98.29 million for CP-FP (Level 1) and CSA-CA
- The budget is indicative
- The final budget of the call may vary by up to 10%
- Any repartition of the call budget may also vary by up to 10%
- Note: no topics for NoE or CP-IP (Level 2) are open in this call.

Documentation

- Can be found on-line at <http://cordis.europa.eu/fp7/>
- Or on AeroAfrica-EU website www.aeroafrica-eu.org
- 8 Documents directly relevant to Transport Call
 - Call Fiche
 - Cooperation Work Programme 2010 - General Introduction
 - Work Programme 2010 - Transport (including Aeronautics)
 - Cooperation Work Programme 2010 - General Annexes
 - Guide for Applicants (Collaborative projects - CP)
 - Guide for Applicants (Coordination and Support Action: Coordinating - CSACA)
 - Guide for Applicants (Coordination and Support Action: Supporting - CSASA)
 - FP7 factsheets

The Cooperation Programme breakdown (€ million)



TRANSPORT

Budget: €4.1 billion (2007 - 2013)

Transport is one of Europe's strengths - the air transport sector contributes to 2.6% of the EU GDP with 3.1 million jobs and the surface transport field generates 11% of the EU GDP employing some 16 million persons. But, transport is also responsible for 25% of all the EU emissions of CO₂.

What's the benefit for citizens:

During FP7 at least €4 billion will be allocated to fund EU research in order to develop safer, "greener" and "smarter" European transport systems for the benefit of all citizens. Research on transport will also have a direct impact on other major areas such as trade, competition, employment, environment, cohesion, energy, security and the internal market.

The activities envisaged to be addressed during the lifetime of FP7 will be:

- Aeronautics and air transport (reduction of emissions, work on engines and alternative fuels, air traffic management, safety aspects of air transport, environmentally efficient aviation)
- Sustainable surface transport- rail, road and waterborne (development of clean and efficient engines and power trains, reducing the impact of transport on climate change, intermodal regional and national transport, clean and safe vehicles, infrastructure construction and maintenance, integrative architectures)
- Support to the European global satellite navigation system –Galileo and EGNOS (navigation and timing services, efficient use of satellite navigation)

Considerations

- Structure of the call re subject matter:
 - Activity – there are 7 with 1 dormant, denoted 7.1.X
 - Area – denoted Area 7.1.X.Y.Z
 - Topics – denoted AAT.2010.X.Y-Z Title
- Work Programme 2010 (WP2010) addresses upstream Level 1 topics with WP2011 mainly addressing Level 2 topics
- Topics focus on activities of greater strategic importance (EU)
- Certain research is covered or complemented by other initiatives (E.g. 'CleanSky' and 'Fuel Cell and Hydrogen (FHC)' Joint Technology Initiatives)
- Note certain topics have limited EU funding available

Considerations

- ATM research is managed and coordinated by SESAR Joint Undertaking
- Proposals can address one or a combination of proposed topics
- NO MILITARY TOPICS ALLOWED
- NO UAV / UAS, EVEN AS DEMONSTRATOR PLATFORM
- Must be research-focused, operating in a specific area with similar title e.g. doing maintenance on aeroplanes does not qualify for a research grant
- Carefully study the description in the call of any topic
- There are similar topic descriptions – e.g. a number of identical topics in Greening of Aircraft and in Improving Cost Efficiency – carefully select

Activities

- 7.1.1 The Greening of Air Transport
- 7.1.2 Increasing Time Efficiency
- 7.1.3 Ensuring Customer Satisfaction and Safety
- 7.1.4 Improving Cost Efficiency
- 7.1.5 Protection of aircraft and passengers
- 7.1.6 Pioneering the Air Transport of the Future
- 7.1.7 Cross-cutting Activities for Implementation of the Subtheme Programme

Activities addressed within the call

- Greater strategic importance
 - 7.1.1 The Greening of air transport
 - 7.1.4 Improving cost efficiency
 - 7.1.6 Pioneering the air transport of the future
- Significantly reduced importance
 - 7.1.2 Increasing time efficiency
 - 7.1.3 Ensuring customer satisfaction and safety
 - 7.1.5 Protection of aircraft and passengers

Activity 7.1.1: The Greening of Air Transport

- 7.1.1.1 Green Aircraft
 - Flight Physics
 - Aerostructures
 - Propulsion
 - Systems and equipment
 - Avionics
- 7.1.1.2 Ecological production and maintenance
 - Production
 - Maintenance and disposal
- 7.1.1.3 Green air transport operations
 - Airports
 - Design systems and tools

Activity 7.1.2: Increasing Time efficiency

- 7.1.2.2 Time efficient air transport operations
 - Airports

Activity 7.1.3: Ensuring customer satisfaction and safety

- 7.1.3.1 Passenger friendly cabin
- 7.1.3.2 Noise and vibration
- 7.1.3.3 Aircraft Safety
 - Aerostructures
 - Systems and equipment
 - Avionics
- 7.1.3.4 Operational safety
 - Design systems and tools

Activity 7.1.4: Improving Cost Efficiency

- 7.1.4.1 Aircraft development cost
 - Design systems and tools
 - Aerostructures
 - Systems and equipment
 - Avionics
 - Production
- 7.1.4.2 Aircraft operational cost
 - Flight physics
 - Aerostructures
 - Propulsion
 - Systems and equipment
 - Avionics
- 7.1.4.3 Air transport system operational cost

Activity 7.1.6: Pioneering the Air transport of the future

- 7.1.6.1 Breakthrough and emerging technologies
 - Lift
 - Propulsion
 - Interior space
 - Life-cycle
- 7.1.6.2 Step changes in air transportation
 - Novel air transport vehicles
 - Guidance and control
 - Airports
- 7.1.6.3 Promising pioneering ideas in air transport
 - The cruiser feeder concept
 - Take-off and landing with ground based power
 - Personal air transport systems
 - New sources of aircraft main propulsive power

Activity 7.1.7: Cross-cutting Activities for Implementation of the Sub-theme Programme

- No separate Areas identified, only Topics.
 - Improving passenger choice in air transportation with the incorporation of additional and new vehicles
 - Retrofitting for improved sustainability and economic viability of aeronautical products
 - Stimulating research with International Cooperation Partner Countries
 - Supporting the organisation of conferences and events of special relevance to aeronautics and air transport research
 - 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 for Implementation of the Sub-theme Programme

- No separate Areas identified, only Topics.
 - Assessing and further developing the role of small aircraft in the air transport system
 - Observation platform to assess the fulfilment of Vision 2020 goals from technological and institutional standpoints
 - Platform to stimulate the development of breakthrough technologies and concepts enabling step changes in aviation
 - Updating the strategic agenda for aeronautics and air transport research in Europe
 - Exploring opportunities and stimulating research cooperation with the United States of America

Proposed areas of Collaboration and Workshop next

Any questions?

Acronyms, definitions

- **Level 1:** It comprises the research and technology development activities that span from basic research to the validation of concepts at component or sub-system level in the appropriate environment through analytical and/or experimental means. The objective of these upstream research activities is to improve the technology base with proven concepts and technologies which could be eventually integrated and validated at a higher system level.
- **Level 2:** It comprises the research and technology development activities up to higher technology readiness, centred on the multidisciplinary integration and validation of technologies and operations at a system level in the appropriate environment (large-scale flight and/or ground test beds and/or simulators). The objective of these focussed downstream research activities is to produce proven multidisciplinary solutions that work reliably in integration at the scale of a system.

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