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FP7: Transport (including Aeronautics)



Aktuální informace ke 3.výzvě 7.RP

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Seminář

7.Rámcový Program – Aeronautika

Současné a budoucí možnosti zapojení českých organizací

21.října 2009

Kinosál VZLÚ

Nejbližší možnosti zapojení do 7.RP - Aeronautika

Třetí výzva 7. RP EU

- **30. července 2009 byla otevřena 3.výzva 7.RP !!!**
- **uzávěrka 15.ledna 2010 !!!**
- **rozpočet jen 110-120 mil. EUR (poloviční oproti druhé výzvě)**
- **jen projekty Level 1 (malé) rozpočet omezen na 5 mil. EUR/projekt**
- **redukce témat, očekává se nízké procento úspěšnosti návrhů**
- **hodnocení v průběhu roku 2010**
- **start úspěšných projektů na konci roku 2010/zač. 2011**

Projekty L1 a L2 – rozpočty a typy projektů v jednotlivých výzvách

Alternating Calls for L1 and L2

- ***2010 Call 114 M€ (estimated)*** ***L1 (CP-FP), (CSA)***
- ***2011 Call 132 M€ (estimated)*** ***L2 (CP-IP, NoE, CSA - Supporting)***
- ***2012 Call 163 M€ (estimated)*** ***L1 (CP-FP, CSA)***
- ***2013 Call 144 M€ (estimated)*** ***L2 (CP-IP, NoE, CSA-Supporting)***

Max. funding to L1 projects limited to 5.0 M€

3rd Call

Focus of level-1 Topics

All topics open covering:

- *The greening of air transport*
- *Improving cost efficiency*
- *Pioneering the air transport of the future*

A few topics open in:

- *Ensuring customer satisfaction and safety*
- *Increasing time efficiency*

Nothing open for Protection of aircraft and passengers

All topics open covering:

- *Cross-cutting activities (as CSA)*

7.1.1 Greening of Air Transport



Green Aircraft

- AAT.2010.1.1.1. Flight physics
- AAT.2010.1.1.2. Aerostructures
- AAT.2010.1.1.3. Propulsion
- AAT.2010.1.1.4. Systems and equipment
- AAT.2010.1.1.5. Avionics

Ultra Green
ATS

Ecological Production and Maintenance

- AAT.2010.1.2.1. Production
- AAT.2010.1.2.2. Maintenance and disposal



Green Air Transport Operations

- AAT.2010.1.3.2. Airports
- AAT.2010.1.3.3. Design systems and tools – Understanding interactions between air transport, environment and society

7.1.4 Improving Cost Efficiency

Aircraft Development Cost

- AAT.2010.4.1.1. Design systems and tools
- AAT.2010.4.1.2. Aerostructures
- AAT.2010.4.1.3. Systems and equipment
- AAT.2010.4.1.4. Avionics
- AAT.2010.4.1.5. Production

Very Low Cost
ATS

Aircraft Operational Cost

- AAT.2010.4.2.1. Flight physics
- AAT.2010.4.2.2. Aerostructures
- AAT.2010.4.2.3. Propulsion
- AAT.2010.4.2.4. Systems
- AAT.2010.4.2.5. Avionics

Air Transport System Operational Cost

- AAT.2010.4.3.4. Human factors



7.1.6 Pioneering Air Transport

Breakthrough Technologies

- AAT.2010.6.1.1. Lift
- AAT.2010.6.1.2. Propulsion
- AAT.2010.6.1.3. Interior space
- AAT.2010.6.1.4. Life-cycle

22nd
Century

Step Changes in Air Transportation

- AAT.2010.6.2.1. Novel air transport vehicles
- AAT.2010.6.2.2. Guidance and control
- AAT.2010.6.2.3. Airports



Promising Pioneering Ideas in Air Transport

- AAT.2010.6.3.1 The cruiser/feeder concept
- AAT.2010.6.3.2 Take-off and landing with ground-based power
- AAT.2010.6.3.3 Personal air transport system
- AAT.2010.6.3.4 New sources of aircraft main propulsive power

7.1.3 Ensuring Customer Satisfaction and Safety

Passenger friendly cabin

AAT.2010.3.1.2. Noise and vibration

Aircraft safety

AAT.2010.3.3.1. Aerostructures

AAT.2010.3.3.2. Systems and equipment

AAT.2010.3.3.3. Avionics

Highly Customer
oriented ATS

Operational safety

AAT.2010.3.4.1. Design systems and tools



7.1.2 Increasing Time Efficiency

Time efficient air transport operations

AAT.2010.2.2.2. Airports

**Highly time-
efficient ATS**



7.1.7 Cross-cutting Activities

AAT.2010.7.3

Improving passenger choice in air transportation with the incorporation of additional and new vehicles

AAT.2010.7.4

Retrofitting for improved sustainability and economic viability of aeronautical products

AAT.2010.7.6

Stimulating research with International Cooperation Partner Countries

AAT.2010.7.9

Supporting the organisation of conferences and events of special relevance to aeronautics and air transport research

AAT.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

7.1.7 Cross-cutting Activities

AAT.2010.7.12

Assessing and further developing the role of small aircraft in the air transport system

AAT.2010.7.13

Observation platform to assess the fulfilment of Vision 2020 goals from technological and institutional standpoints

AAT.2010.7.14 Platform to stimulate the development of breakthrough technologies and concepts enabling step changes in aviation

AAT.2010.7.15 Updating the strategic agenda for aeronautics and air transport research in Europe

AAT.2010.7.16

Exploring opportunities and stimulating **research cooperation with the United States of America**

AAT.2010.7.17

Socio-economic incentives and barriers to innovation in air transport

Focus of L-1 Topics versus Taxonomy



	GREEN AIRCRAFT			INCREASING TIME EFFICIENCY		CUSTOMER SATISFACTION AND SAFETY				COST EFFICIENCY			PROTECTION OF AC&PAX		PIONEERING THE FUTURE AT			Cross-cutting
LEVEL 1	Green Aircraft	Ecological Production & Maintenance	Green AT Operations	Improved Aircraft Throughput	Time-efficient AT Operations	Pax-friendly Cabin	Pax-friendly AT Operation	Aircraft Safety	Operational Safety	Aircraft Development Cost	Aircraft Operational Cost	AT Operational Cost	Aircraft Security	Operational Security	Breakthrough Technologies	Step Changes in AT	Promising Pioneering Ideas	
Flight Physics	1.1.1										4.2.1							
Aerostructures	1.1.2							3.3.1		4.1.2	4.2.2							
Propulsion	1.1.3										4.2.3							
Systems & Equipment	1.1.4		1.3.3					3.3.2		4.1.3	4.2.4							
Avionics	1.1.5							3.3.3		4.1.4	4.2.5							
Design Systems & Tools									3.4.1	4.1.1								
Production		1.2.1								4.1.5								
Noise & Vibration						3.1.2												
Human Factors												4.3.4						
Maintenance, Repair & Disposal		1.2.2																
Airports			1.3.2		2.2.2													
ATM																		
Novel Concepts																		

With kind courtesy of Mr. Hans Roefs from NLR

International Cooperation with Russia and China



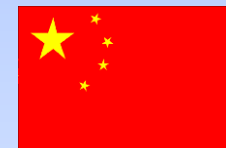
Russia (Budget 4M€ for EU partners; max. grant 1.5 M€)

- Advanced aerodynamics and innovative design concepts (1.1.6)
- Noise control of instability waves engine jet (1.1.7)
- Enhanced maintenance and operational safety (3.4.6)
- Novel composite structure and manufacturing methods based on geodesic concepts (4.1.6)
- Simulation tools in propulsion (4.1.7)



China (Budget 3M€ for EU partners; max. grant 1.5 M€)

- Advanced aircraft noise prediction and control methods (1.1.8)
- Casting of large titanium aero structures components (4.1.8)
- Flow control for drag reduction and wing aeroelastic optimisation (revised) (4.2.7)



Note: Multidisciplinary design has been cancelled

DĚKUJI ZA POZORNOST!

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