



HORIZONTE 2020 Oportunidades de financiamento para Aviação Em 2015

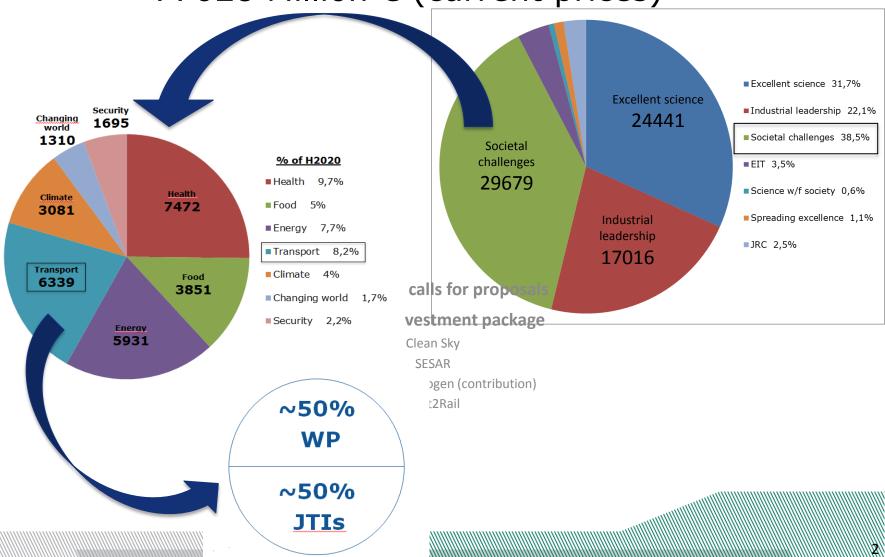
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GPPQ/FCT

NCP aeronáutica do Horizonte 2020









- Health, demographic change and wellbeing
- Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the Bioeconomy
- Secure, clean and efficient energy
- Smart, green and integrated transport
- Climate action, environment, resource efficiency and raw materials
- Inclusive, innovative and reflective societies
- Secure societies



- The challenge: achieve a transport system that is...
- Resource efficient
- Environmentally friendly
- Safe and seamless
- Beneficial for the citizens, the economy and society

and promote globally competitive transport industries

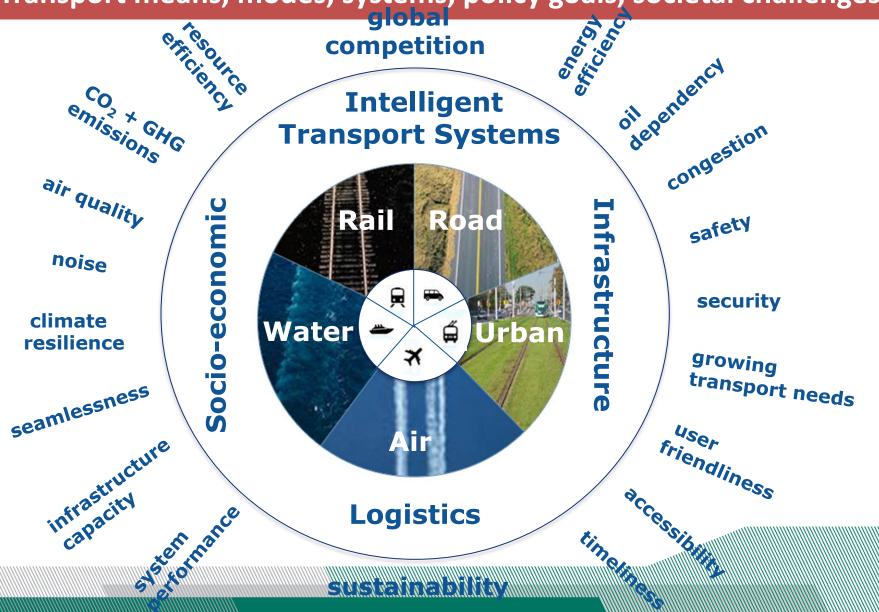
The logic: a holistic approach which...

- Recognises modal specificities
- Responds to policy requirements
- Is focused on the societal challenges
- Reconciles competitiveness and sustainability





Transport means, modes, systems, policy goals, societal challenges





4 Grandes linhas de atividade

Resource efficient transport that respects the environment

SUSTAINABLE



Better mobility, less congestion, more safety and security

SEEMLESS





Global leadership for the European transport industry

COMPETITIVE

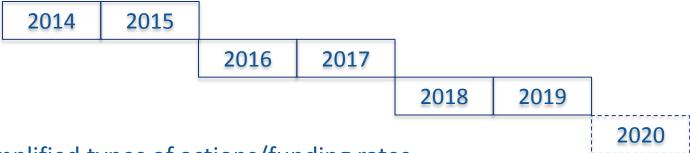


Socio-economic and behavioural research and forward-looking activities for policy-making



Work Programme structure

- > challenge-based approach: broad latitude for applicants to devise innovative solutions
 - broader topics, less prescription, focus on impact
 - biannual WP, annual calls (in most cases)



- simplified types of actions/funding rates (research and innovation actions: 100%; innovation actions: 70%/100%;...)
- 2-stage evaluation for most topics



WP 2014-2015 Calls Transport

Calls (publication 11 December 2014)	Budget (€ Mio) 2014	Budget (€ Mio) 2015
Call 'Mobility for Growth'	374,5 (+2)	184 (+10)
1. Aviation	70 (+2)	36
2. Rail	52	-
3. Road	66	23 (+5)
4. Waterborne	56	18
5. Urban	40	66,5
6. Logistics	32	18
7. ITS	31	-
8. Infrastructure	19	17,5
9. Socio-economic and behavioural research	8,5	5 (+5)
Call 'Green Vehicles'	129	30
Call Small business and Fast Track	35,87	38,69
Contribution to Smart Cities, Blue Growth	33.5	25.5



Call 'Mobility for Growth'

AVIATION 108 M €

- Medium to long term research and innovation actions
- Bottom-up approach for innovative technologies not covered by Clean Sky and outside the scope of SESAR
- Maturation in the TRL range 1-6.





Call 'Mobility for Growth'

AVIATION TOPICS 2014

AVIATION TOPICS 2015



- Competitiveness of European aviation through cost efficiency and innovation -MG1.1 2014 2 stages
- Enhancing resource efficiency of aviation MG1.2 2015 2 stages
- Seamless and customer oriented air mobility MG1.3 2014 2 stages
- Coordinated research and innovation actions for safety of European aviation MG1.4 2014 1 stage
- Breakthrough innovation for European aviation MG1.5 2014 2 stages
- Improving skills and knowledge base in European aviation MG1.6 2014 1 stage
- Support to European aviation R&I policy MG1.7 2014 1 stage
- International cooperation in aeronautics w/Japan MG1.8 2015 1 stage
- International cooperation in aeronautics w/Canada- MG1.9 2015 1 stage
- International cooperation in aeronautics w/China MG1.10 2015 1 stage



MG 1.2 Enhancing resources efficiency of aviation 2015

- reduction of emissions and noise at the source
- new approaches to an environmentally friendly overall aircraft lifecycle
- greener ground operations, technologies and procedures



- · 2015
- RIA
- 2 stage eval (1st = 23 April 2015)
- 20 MEur
- Partial coverage possible
- Several proposals can be funded



MG.1.8 International cooperation in aeronautics w/ Japan

- Set up platform of communication between EU and Japan
- Address areas of common interest
 - Future passenger-friendly cabin architecture and systems
 - Lighter integrated heat exchanger systems
 - Efficient composite structure manufacturing and monitoring
 - Smarter flight control technologies for enhanced safety

Evaluation of InCo projects

- Additional sub-criteria for Implementation:
 - Balanced effort between Europe and the corresponding third-country.
 - A comprehensive research plan properly involving coordinated research activities between Europe and the corresponding third-country, ensuring genuine cooperation and added value to the activities.

- · 2015
- RIA
- 1 stage eval.
- 16 MEur



MG.1.9 International cooperation in aeronautics w/ Canada

- Reducing environmental impact / novel aircraft configurations
- Reducing noise / novel materials / engines / airframes
- Resource-efficient high-performance advanced-materials product development and manufacturing
- Reducing energy consumption / more electrical aircraft and systems integration

Evaluation of InCo projects

- Additional sub-criteria for Implementation:
 - Balanced effort between Europe and the corresponding third-country.
 - A comprehensive research plan properly involving coordinated research activities between Europe and the corresponding third-country, ensuring genuine cooperation and added value to the activities.



- · 2015
- RIA
- 1 stage eval.
- · 16 MEur



MG.1.10 International Cooperation w/ China

 Innovative methods / numerical technologies for airframe and engine noise reduction



- Development of bio-sourced composite materials and environmentfriendly multifunctional composites and structures for aeronautics applications
- Flow control and advanced numerical tools for physical modelling of unsteady flows of aircraft and its components
- Enhanced additive manufacturing of metal components and resources efficient manufacturing processes for aerospace applications

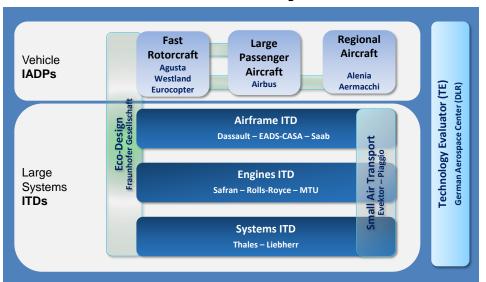
Evaluation of InCo projects

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- · 2015
- RIA
- 1 stage eval.
- 16 MEur



Clean Sky



Clean Sky 2 is a long-term Programme effort – involving Technology Roadmaps, Gates, PDR/CDRs. The Programme Proposal sets out the current best estimate of a decade of technical content and architecture. It is a living Programme where dynamic allocation will be needed.

Max. 40% of EU funding allocated up-front to Leaders

Min. 60% of EU funding open to competition:

- Potentially up to 1080m€ of EU funding in play, via open Calls
- Core Partners (Associates) becoming Members once selected
- Partners (as in CS) through Calls for Proposals (CfP)

Core Partners share of the Programme up to 30% of EU funding

Potentially up to 540m€ of funding

Min. 30% of EU funding available for CfP (plus CfT) engagement



SME Instrument



- Small business innovation research for Transport
 - IT1 2014-2015 SME instrument
- Fast Track to Innovation IT2 2015



Topics and evaluation

	• MG 1.8
Single stage	• MG 1.9
	• MG 1.10 (RIA)
Two stage	• MG 1.2 (RIA)



Two-stage evaluation

Stage 1	 proposal submission max 15 pages; focus on content and results proposal evaluation 2 criteria: excellence and impact outcome: 'GO' or 'NO GO'
Stage 2	 proposal submission only stage 1 'GO' proposals admitted proposal evaluation 3 criteria: excellence, impact, implementation



Two-stage evaluation

Publication of the call for proposals

Month 0

Stage 1 proposal submission

Proposals max 15 pages, focus on S&T content, intended results and impact Month 3 + 2 additional pages to describe the consortium and the estimated resources (this info is not subject to evaluation)

Evaluation stage 1 proposals

Month 4

Proposals evaluated remotely, two evaluation criteria: excellence and impact Outcomes: "NO GO" and 'GO" proposals

Stage 2 proposal submission – "go" proposals only!

Month 8

Proposals retained in stage 1 invited to submit a complete proposal. Evaluation criteria: excellence, implementation and impact

Evaluation Stage 2 proposals

Month 9

Remote evaluation with final panels in BXL. Information on the outcome to be made available max 5 months from call deadline

Negotiations and signature of the GAs

Signature: max 3 months from the results of the evaluations

Month 12, 13



Evaluation of proposals

STANDARD AWARD CRITERIA EXCELLENCE IMPACT QUALITY & EFFICIENCY OF THE ACTION

- ✓ **ERC** frontier Research actions >> only EXCELLENCE
- ✓ Innovation actions >> higher weighting for IMPACT



Calendar

Opening of 2015 call

10 December 2014

Transport Info Day in Brussels

02 February 2015

http://ec.europa.eu/research/transport/events/infoday2014/index_en.htm

Submission deadline

23 April 2015





Obrigado pela sua atenção!