



Association of  
European Research Establishments in Aeronautics

## Position paper on Horizon 2020

### General remarks

- EREA welcomes the opening of Horizon 2020 to **Research and Innovation**. The chosen three pillar structure (Excellent Science, Industrial Leadership, Societal Challenges) addresses very relevant political goals in the current social and economical scenario
- Research and innovation needs a close cooperation of all stakeholders (academia, research organisations, SMEs and industry) in the entire research and innovation cycle. EREA would like to see the **entire research and innovation chain** supported by Horizon 2020, both in the entire programme, and in the individual pillars of the programme.  
More specifically
  - industrially oriented research and test infrastructures should be part of the Research Infrastructure part of Horizon 2020,
  - small and medium sized research projects should be part of both the pillars for Societal Challenges and Industrial Leadership.A possible separation of stakeholders according to pillars (for example excellence science for academia and research centre; industrial leadership for industry) will interrupt the needed cooperation and continuous transfer of knowledge from basic research up to innovation.
- EREA would like to see a mechanism **to link Horizon 2020 and the structural funds** in order to support and maintain European strategic research infrastructure, including those for industrial competitiveness.

### Research on (Air) Transport

- EREA welcomes the **integrated approach on transport research** and the focus on societal challenges and industrial leadership. According to the successful experience in aeronautics
  - Knowledge existing in one mode of transport can be transferred to other modes, e.g. materials and aerodynamics.
  - At the same time research and products in each mode of transport has its own characteristics and different dynamics, life cycles, standards, certifications. The **specific research challenges** of the different transport modes should be addressed. The intermodality should deserve the right attention without losing the focus on the specific modes.
  - Research in air transport is characterised by long development times which is dealt with in an appropriate manner by the existing **funding instruments** differencing between low and high technology readiness levels (L0 – L1 – L2 – L3).
  - EREA would welcome that Europe and in particular Horizon 2020 will use the **Strategic Research and Innovation Agenda (SRIA)** currently prepared by the Advisory Council for Aviation Research and Innovation in Europe (ACARE) as Guideline for designing the future programme contents. Specific elements should find space in all the pillars, (e.g. specific enabling technologies from the SRIA among KET of Industrial Leadership pillar)

CIRA - Centro Italiano Ricerche Aerospaziali  
DLR - Deutsches Zentrum für Luft- und Raumfahrt  
FOI - Totalförsvarets FOrskningsInstitut  
INTA - Instituto Nacional de Técnica Aeroespacial  
NLR - Nationaal Lucht- en Ruimtevaartlaboratorium

ONERA - Office National d'Études et de Recherches Aéropatiales  
VZLU - Výzkumný a Zkušební Letecký Ústav, a.s.  
ILOT - Institute of Aviation  
INCAS - National Institute for Aerospace Research "Elie Carafoli"



## Rules of Participation

- EREA welcomes the **simplification of the rules of participation** in Horizon 2020, but also notices that the new **funding rules** can have a negative impact for research establishments.
  - The total funding of 120% of the direct costs (100% direct + 20% indirect) **does not cover the large indirect costs of research establishments** which run large research infrastructures and do not have the possibility to get a return on investments like industry.
  - No longer coverage of 100% of the full **project management** costs will strongly discourage parties to lead research proposals.
- Horizon 2020 will give more attention to Public Private Partnerships (PPP's), such as Clean Sky and Green Cars. EREA would like Horizon 2020 to also include a so-called P2P instrument for **public-public partnerships**. P2P could foster the co-ordination between national research establishments through a **Joint Research Initiative**.
  - More co-ordination of national institutional research will lead to a stronger synergy of national and European research resources.
  - The creation of an instrument for a focused joint research initiative in Horizon 2020 will lead to a more structured public demand for research in Europe.
- EREA has taken and is prepared to take over lead positions within a **new Joint Technology Initiative on Air Transport** (Clean Sky 2?).