



AirTN

Air Transport Net











Air Transport Net: The AirTN NextGen project Research Infrastructures & simulation Capabilities

Toward Virtual Certification

September, 25th 2014 – Bonn (DLR e.V. - PT-LF)





Historical overview and Aims of AirTN:

- ❖ 2006: AirTN → a Special Support Action for ERA-NETS within FP6.
 - To address research and technology developments (RTD) in Aeronautics and Air Traffic.
- ❖2009: AirTN Project → Coordination of EU research
 - To enhance synergies throughout Europe
 - ❖ To support transnational programmes
 - To act together to form an integrated community
 - ❖ To increase efficiency of and to avoid waste of funding , the coordination of national research programmes must be improved.

❖2013: AirTN-NextGen → Enhancing coordination and stimulating cooperation in research and innovation among EU Member States and Associated States to the EU Framework Programme.





AirTN FP7 → **Most important successes:**

- Establishment of a well-connected network
 - Good cooperation within the consortium, with other consortia and countries.
 - The network is exploited by members also for cooperation out of the specific AirTN project

Three transnational Calls

- LuFo (Germany) Take Off (Austria)
- ❖ Austria, Ireland, Spain and Sweden
- Austria, Ireland, Italy, Spain and Sweden

❖AirTN Catalogue

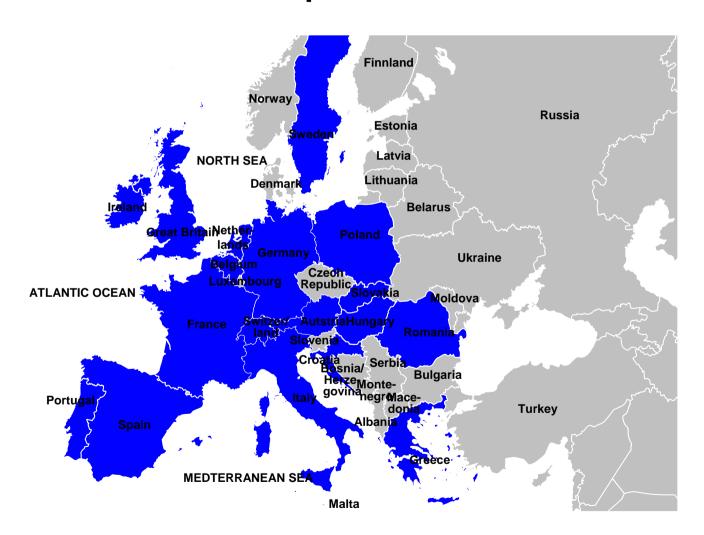
- The first catalogue of the European Aeronautical Research Facilities.
- This database focuses mainly on the strategic and key facilities (ACARE typology).







AirTN Landscape



The AirTN Countries:

Austria Belgium

Croatia

France

Germany

Greece

Hungary

Ireland

Italy

Netherlands

Poland

Portugal

Romania

Slovakia

Spain

Sweden

Switzerland

United Kingdom







	AirTN NextGen
Goal	A platform of national representatives acting towards the support of joint trans- national initiatives within the Horizon 2020 framework
Instrument	CSA-SANational Funding Mechanisms
Total Budget	810,96 k€
Total EC Contribution	594,12 k€> 90 k€ are available for workshops and support external experts for performing studies
Time Frame	 24 months: start 1-12-2013 / end 31-12-2015 Horizon 2020 if a new ERA-NET
Content	 Transnational cooperation / joint programming International cooperation Research infrastructures Education and workforce mobility
Core partners	Agencies/Ministries/Research Centres that are funding/managing research and innovation programmes/projects relevant to Aeronautics and Air Transport
Communication	Coordination of National Programmes



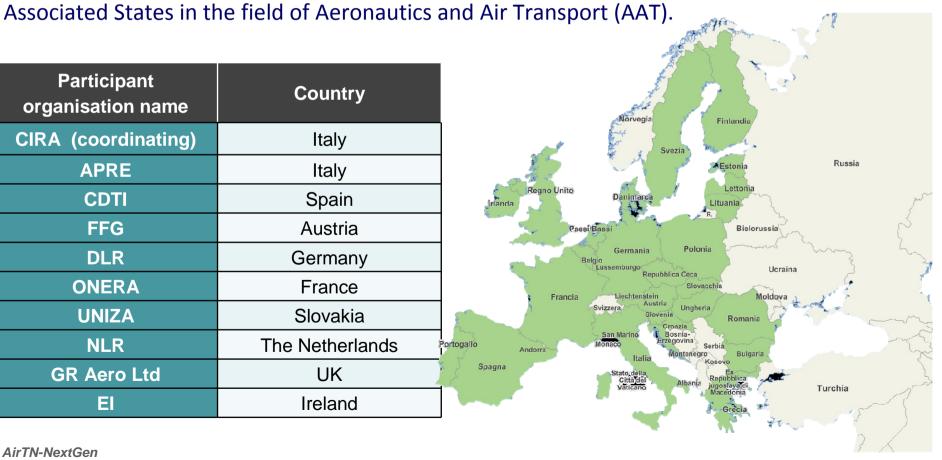




AirTN-Nextgen

The action will set up a platform of networking and communication between national organizations and governmental institutions supporting trans-national initiatives for research and innovation within the Horizon 2020 framework in the EU Member States and

Participant organisation name	Country
CIRA (coordinating)	Italy
APRE	Italy
CDTI	Spain
FFG	Austria
DLR	Germany
ONERA	France
UNIZA	Slovakia
NLR	The Netherlands
GR Aero Ltd	UK
El	Ireland







9 European MS and 10 Partners

Austria	FFG	Austrian Research Promotion Agency
France	ONERA	Aeronautics and Space Research Centre
Germany	DLR PT-LF	German Aerospace Center - Program Manag. Agency/Aeronautics Research
Ireland	EI	Enterprise Ireland
Italy	CIRA	Italian Aerospace Research Center
Italy	APRE	Agency for the promotion of European Research
Netherlands	NLR	National Aerospace Laboratory
Slovakia	Uni. of Zilina	University of Zilina
Spain	CDTI	Centre for Development of Industrial Technology
UK	GR Aero LTD (GR Aero)	Department for Business, Innovation & Skills

Type of Organization:

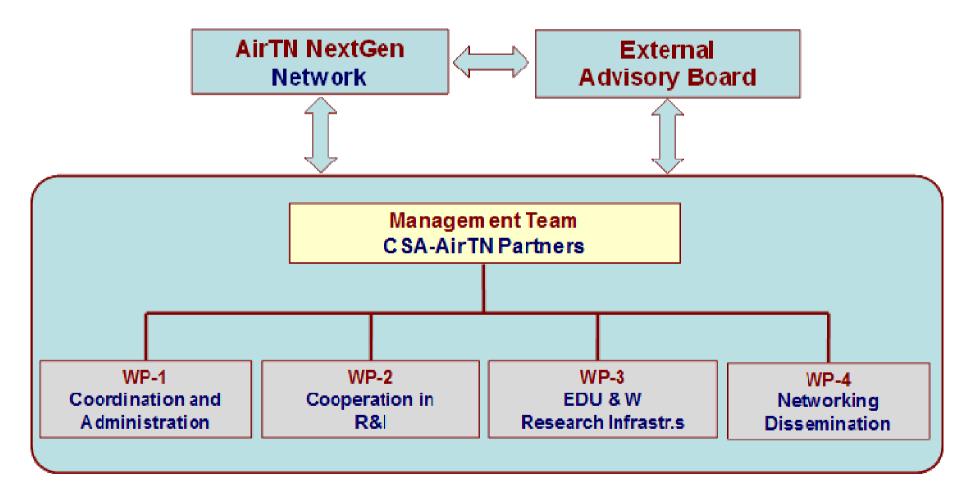
Agency
University

Research Centre





AirTN NexGen







Thank you for your attention!

Any question?





Further information & details ...





WP 2: Cooperation in Research and Innovation

Objectives

- ❖ Providing an overview of the different types of transnational (including international) cooperation actions, their focus and the financial resources provided by public authorities.
- Stimulating practical opportunities to develop cooperation in research and innovation, including transnational joint calls where relevant.
- Acting as a vehicle for stimulating co-operation of national funded research in support of technology initiatives on a European scale such as Horizon 2020, and specific programmes Clean Sky, SESAR, and their follow on, etc.
- Strengthening and widening coordinated approaches towards international cooperation.
- Monitoring outcomes of the performed actions.





Task 2.1: RTD&I transnational (including international) cooperation in EU Member States and Associated Countries at governmental

- Task 2.1.1: Database of National and Regional funding programmes.
 - To update database of national/regional funding programmes through <u>existing</u> online AirTN questionnaire.
 - Each AirTN partner is responsible to fill out regional/national programmes existing in their countries.
 - Information about contries outside AirTN NextGen should be filled out by «AirTN Next Gen network» and «ACARE MSG»
 - Participation in "transnational cooperation dedicated sessions"
- Task 2.1.2: National innovation and research strategies in aviation focused on transnational (including international) R&T cooperation for aeronautics and air transport intensive regions.
 - Based on the work done by ETNA PLUS and supported by AiRTN Next Gen Network:
 - Best practices/barriers for transnational (including international) cooperation in national R&D strategies for aviation
 - To propose solutions and recommendations for innovative approaches to improve trans-national (including international) cooperation within European aviation research and innovation strategies
 - Participation in "transnational cooperation dedicated sessions"
- Task 2.1.3: Sessions on transnational (including international) cooperation
 - To organise/moderate dedicated sessions on transnational (incl international) cooperation:
 - To obtain necessary information to address WP2 tasks
 - Taking advantage of the three "AirTN Next Gen Network" workshops (organised by task 4.1)
 - With the support of WP2 task leaders





Task 2.2: Supporting RTD&I transnational cooperation in aviation

- Task 2.2.1: Stimulation of transnational cooperation for R&I in support of technology initiatives on European scale such as Horizon 2020, Clean Sky, SESAR, etc.
 - Direct participation in internal meetings of different H2020 initiatives to increase the awareness of transnational activities.
 - Participation in "transnational cooperation dedicated sessions"
- Task 2.2.2: Transnational coordinated call
 - To support new transnational coordinated calls
 - Monitoring, dissemination and impact assessment of funded projects under AirTN FP7 coordinated calls and future calls.
 - Participation in "transnational cooperation dedicated sessions"
- Task 2.2.3: Eranet cofund instrument
 - To study the suitability of having an aviation eranet cofund action funded within H2020





WP 3: Education, Workforce & Research Infrastructure

Objectives

- ❖ Enhance transnational cooperation in the field of Research Infrastructures (e.g. RI) dedicated to virtual testing and virtual certification.
- ❖ Provide advices for the upgrades of RIs to federate simulation capabilities and strengthen the RI network.
- ❖ Provide advices to stimulate transnational cooperation in education.
- ❖ Propose recommendation to improve the university courses towards industry needs.
- ❖ Provide advices to foster personnel mobility to access RI and whole life training.

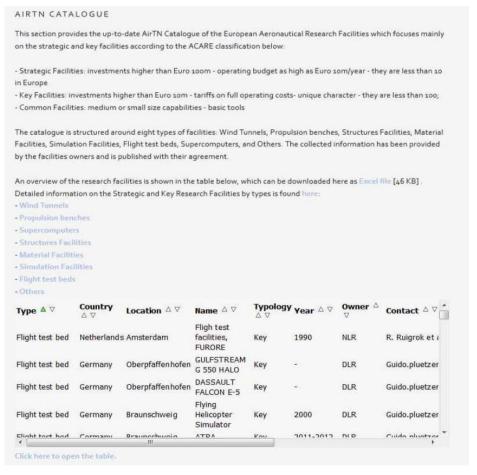




WP 3: Education, Workforce & Research Infrastructure

- ❖ Update of the catalogue or Research Infrastructure facilities:
- ◆Specific task on clusters of simulation capabilities → Seminar → Presentation of results at the AirTN-NextGen WS in December.
- ❖INAIR conference: A unique platform for discussion between academia and industry









WP 4: Networking and Dissemination

Objectives

- ❖ Create the AirTN NextGen Network, strengthening and widening the network established under previous ERA-NET schemes
- ❖ Maintaining an active exchange of information and acting as linkage to avoid duplication of effort between different networks and institutions in the EU Member States and Associated Countries.
- Creating means of communication to support transnational and international cooperation
- ❖Communication of achieved results outside of the consortium and AirTN NextGen Network





WP 4: Networking and Dissemination (just e.g.)

❖Website (www.airtn.eu)



- ❖ Newsletter (www.airtn.eu/newsletters/newsletter20140305.html)
 - To subscribe: (www.airtn.eu/lists/?p=subscribe&id=1)





AirTN NextGen as a support to identify opportunities:

- Coordinator : Marcello Amato, CIRA, Italy, M.Amato@cira.it
- ❖WP 2: Cooperation in Research and Innovation
 - ◆ Database + Transnational Calls + ERANET → Identification of opportunities
 - Contact : Juan Francisco Reyes Sánchez, CDTI, Spain, juanfrancisco.reyes@cdti.es
- ❖ WP 3: Education, Workforce & Research Infrastructure
 - ❖ Catalogue of Infrastructure → Identification of research facilities, contacts → Partners
 - ❖ INAIR Conference → Contacts + Partners
 - Contact : Olivier Vasseur, ONERA, France, olivier.vasseur@onera.fr
- ❖ WP 4: Networking and Dissemination
 - Network + exchange of information + Website → Identification of opportunities and potential partners
 - Contact : Vera Ellegast, FFG, Austria, vera.ellegast@ffg.at