



Strategic and Key Aeronautic Research Infrastructures in Europe

AirTN NextGen Facts and Figures

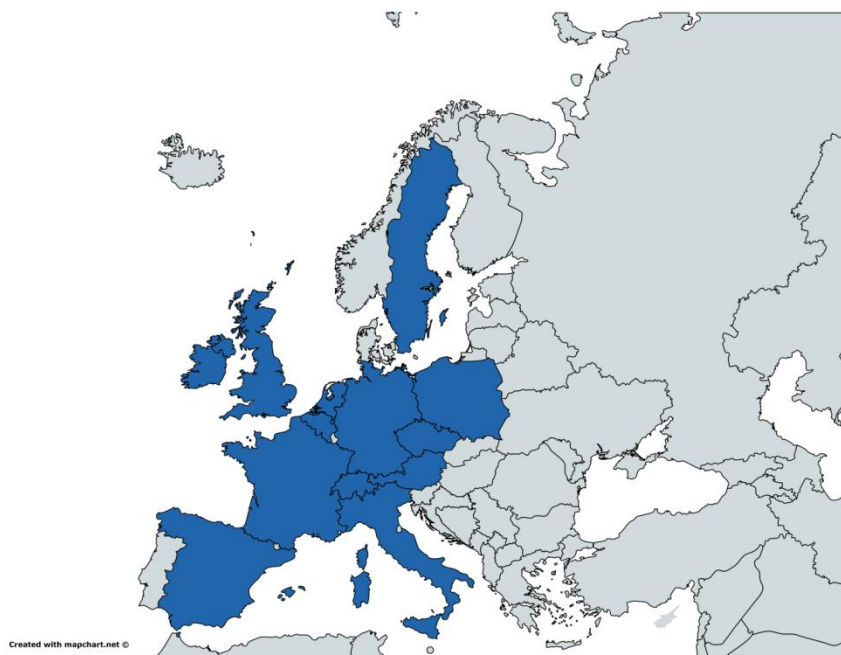
Unique outstanding facilities for Research and Technology Development in the aviation sector have been developed in Europe. Relevant European Stakeholders grow leading edge capabilities to operate effectively and efficiently such facilities.

AirTN Nextgen created a catalogue for the Strategic and Key research facilities for aviation supporting the European Research Area. The catalogue is a unique inventory and is based on the information, provided by stakeholders on a voluntary basis, collected via a questionnaire widely disseminated in the European aviation community; thus some research facilities are not included due to the missed answers to the questionnaire.

This catalogue provides an overview of the European facilities and provides a basis for coordinating further development to achieve the goals set in FlightPath2050.

The AirTN Nextgen classification refers to the financial criteria defined in ACARE for strategic and key facilities:

- Strategic facilities: at least 100 M€ investments. 13 strategic research infrastructures are identified in the catalogue.
- Key facilities: between 10 M€ and 100 M€ investments. Because of the large range of investments, the facilities are distributed in the following cost intervals: between 10 M€ and 30 M€, between 30 M€ and 60 M€, and between 60 M€ and 100 M€. 73 key research infrastructures are identified in the catalogue.
- Common facilities: less than 10 M€ investments. This type of facilities is not included in the catalogue.

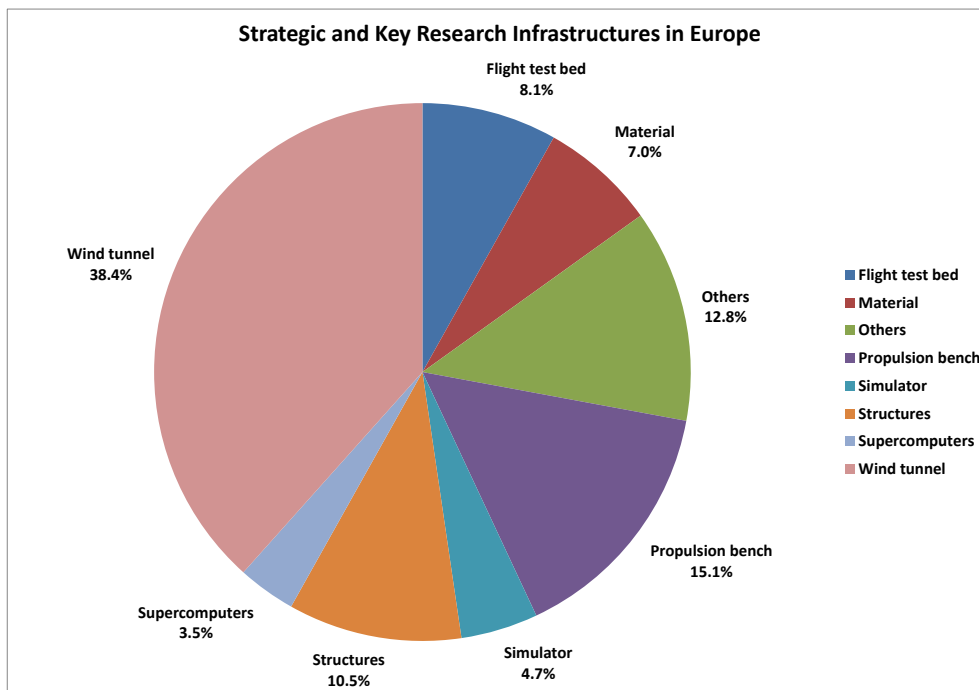


Locations of Strategic or Key Aeronautic Research Infrastructures of the catalogue by country.

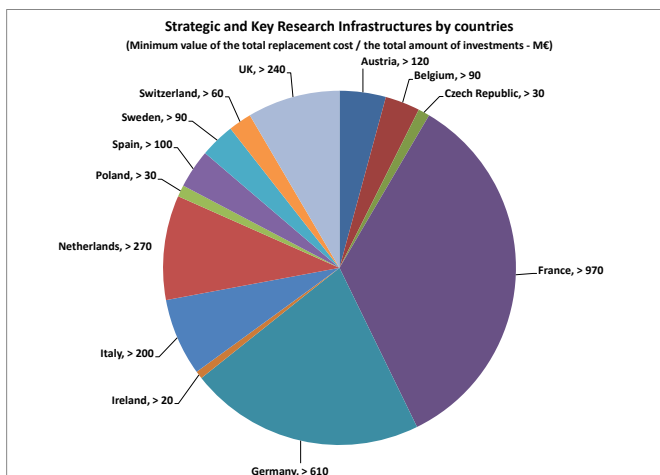
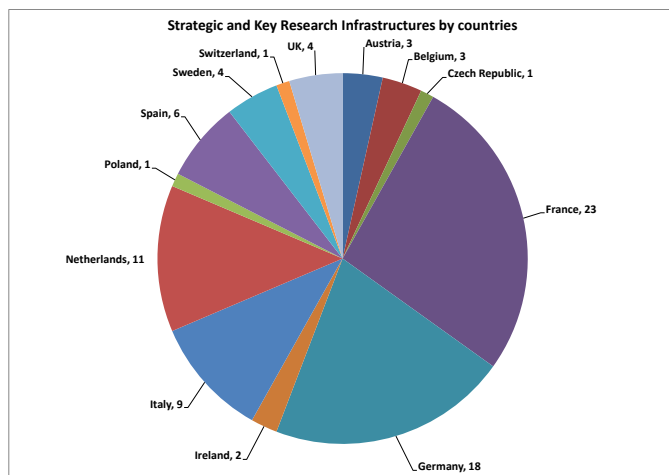


The research infrastructures in the catalogue can be classified as follow: Wind Tunnel, Propulsion Bench, Others, Structures, Flight test bed, Materials, Simulator, and Supercomputers.

The 86 Strategic and Key facilities listed in the catalogue represent an amount of investments higher than 3 B€.



Repartition of the 86 Strategic and Key facilities by types.



Repartition of Strategic and Key facilities by countries (number and minimal value of the total investments).

The detailed descriptions of 78 Strategic and Key facilities are available on the Air Transport Net Website:

<http://airtn.eu/strategic-and-key-research-facilities-by-types/>

This catalogue is based on the answers of the following organizations:

Airbus Operations GmbH, Aircraft Research Association Limited, Andalusian Foundation for Aerospace Development, Avio Aero CERFACS, Delft University of Technology, Deutsches Zentrum für Luft und Raumfahrt (DLR), Direction Générale de l'Armement (DGA), DLR / T-Systems Sfr, DLR Institute of Propulsion Technology, DNW, European Transonic Windtunnel (ETW), Graz University of Technology, Institute of Jet Propulsion, Instituto Nacional de Técnica Aeroespacial (INTA), Italian Aerospace Research Center (CIRA), Manufacturing Technology Centre Limited, Netherlands Aerospace Centre (NLR), Office National d'Etudes et de Recherches Aéronautiques (ONERA), ONERA/French MOD, Politecnico di Milano, QinetiQ PLC, RTO Rail Tec Arsenal Fahrzeugversuchsanlage GmbH, RUAG Aviation, Spanish Ministry of Science and Innovation (CDTI), Spanish MoD, STARCS, University of Limerick, von Karman Institute for Fluid Dynamics (VKI), Vyzkumny a zkušební letecký ústav, a.s. (VZLU).