

AFLoNext

2ND GENERATION ACTIVE WING

Active Flow,
Loads & Noise control
on next generation wing
www.AFLoNext.eu



AFLoNext is a four-year FP7 level 2 collaborative research project with the objective of proving and maturing highly promising flow control technologies for novel aircraft configurations.



This project is supported by the European Community's Seventh Framework Programme FP7/2007-2013, under grant agreement n°604013, AFLoNext project.

AFLONEXT

In the current context of Air Traffic worldwide, Aerodynamic efficiency is of key concern.



AFLoNext will deliver highly matured technologies in the area of flow, loads and noise control for advanced aircraft design and novel configurations.

AFLoNext is a story of an unprecedented collaboration created to rise to a dual challenge: first to **improve aircraft performance**, and secondly to **reduce the environmental footprint** of air transport.

15

COUNTRIES

40

PARTNERS

200

RESEARCHERS
collaborating to meet
a double challenge

37

MILLIONS €

AIMS

AFLoNext aims to prove the engineering feasibility of the HLFC technology for drag reduction on fin in flight test and on wing by means of large scale testing. The project shows also engineering feasibility for vibrations mitigation technologies for reduced aircraft weight and noise mitigation technologies.

The peculiarity of the AFLoNext proposal in terms of holistic technical approach and efficient use of resources becomes obvious through the joint use of a flight test aircraft as common test platform for the above mentioned technologies.

To improve aircraft performance along the whole flight regime, locally applied active flow control technologies on wing and wing/pylon junction are qualified in wind tunnels or by means of lab-type demonstrators.

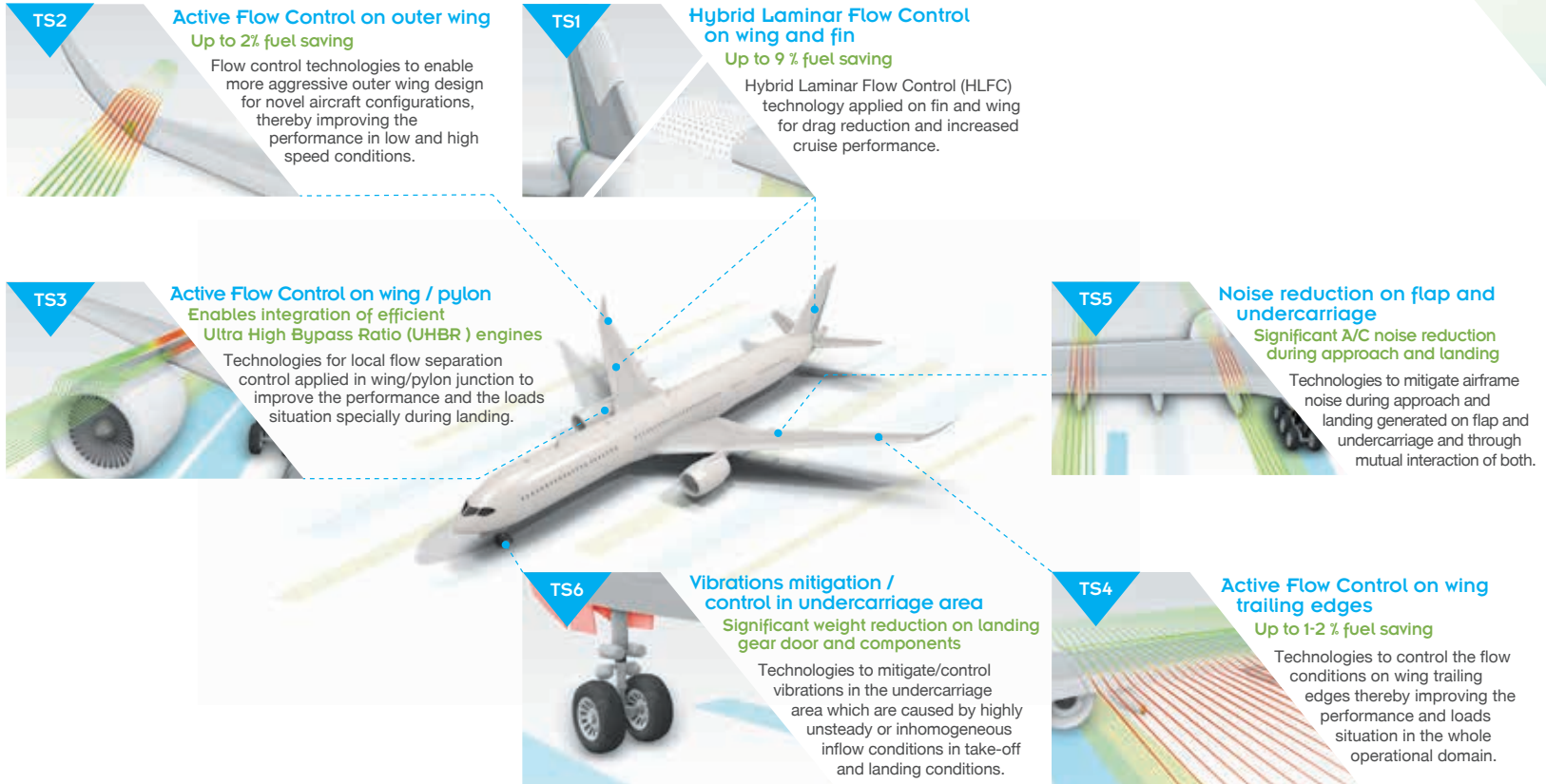
Get ready to tackle the challenges of innovative aircraft design, requirements of future air transport and extremely high degree of environmental compatibility.

GREENING OF THE AIR TRANSPORT:

- More eco-efficient aircraft design
- Lower environmental footprint (noise and pollution)
- Improved aerodynamic efficiency
- Optimised energy consumption
- Improved aircraft performance and safety
- Optimised manufacturing

TECHNOLOGY STREAMS

The AFLoNext concept is based on six Technology Streams which cluster the targeted technologies and their associated contributions to advanced aircraft performance as follows:



PARTNERS



AIRBUS OPERATIONS GMBH, AIRBUS OPERATIONS SL, AIRBUS OPERATIONS SAS, AIRBUS OPERATIONS LIMITED, AIRBUS DEFENSE AND SPACE GmbH, AIRBUS GROUP Ltd are all partners of AFLoNext Project

In a nut shell

Title of the Project: "2nd Generation Active Wing"- Active Flow Loads & Noise control on next generation wing - **Grant Agreement Number:** 604013 - **Project type:** FP7 Collaborative Project – Large Scale (L2) - **Starting date:** 1st June 2013 - **End date:** 31st May 2018
Duration: 60 months - **Total Budget:** 37 066 858.00 € - **Total Manpower:** 2 449 Person-months - **Maximum Community Financial Contribution:** 23 612 079.00 € - **EC Project Officer:** Andrea Gentili - **Project Coordinator:** Martin Wahlich (Airbus Operations GmbH)
Project Management Officer: Ayla Kazanci (Esploro Projects) - **Dissemination Manager:** Peggy Favier (L-UP)



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