

EU – Russia cooperation in Green Aviation

Sofya Blyuger

Director for International Cooperation

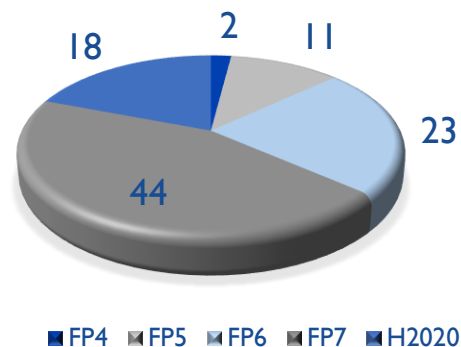
EU-Russia cooperation in aeronautics

NCP “Aeronautics”:

- since 2004 based at TsAGI (NRC)
- EU – Russia international cooperation development*
- information, consulting and methodological assistance
- year-to-date over 90 projects realized under EU FP

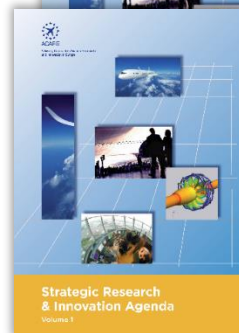
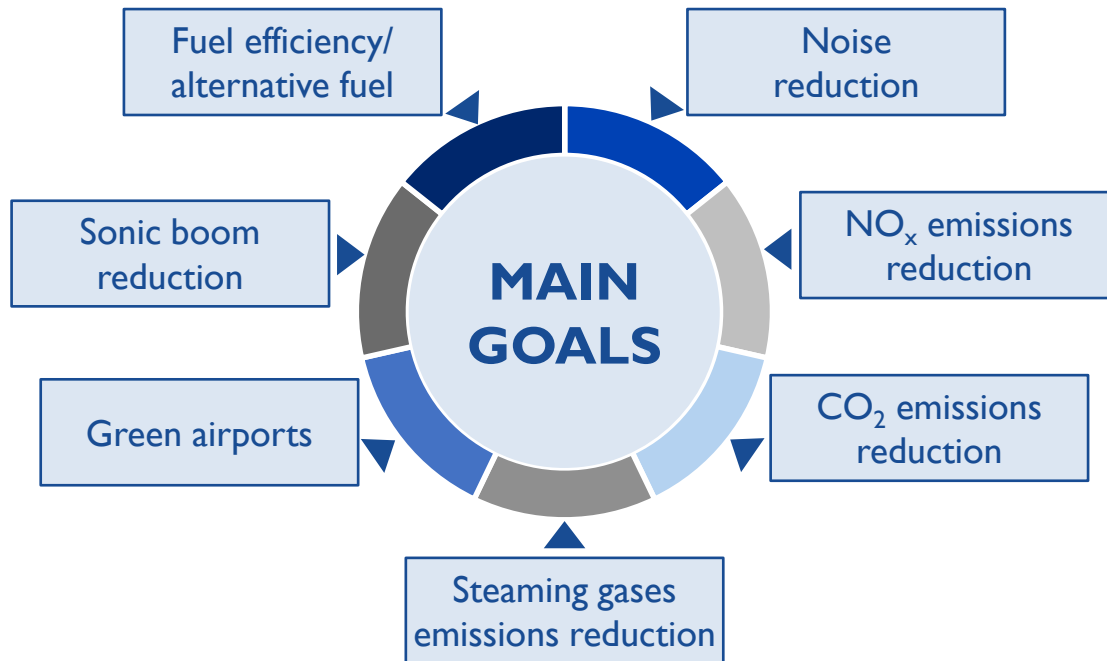


EU-RUSSIA FP PROJECTS



* Agreement on Cooperation in Science and Technology between the European Union and the Government of the Russian Federation (signed in 2000 and renewed in 2003, 2009 and 2014).

Green aviation – key challenges



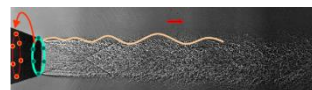
Russian experience in EU Green Aviation initiatives

Key topics (projects examples)

Aircraft performance improvement for more environmentally sustainable vehicles



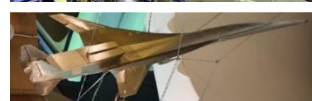
Noise reduction



Emission reduction



Sonic boom reduction



Climate impact



Green aviation challenges

Horizon 2020 current priorities

Aviation International Cooperation Flagship “Safer and Greener Aviation in a Smaller World”

Innovative technologies for improving aviation safety and certification in icing conditions*

Future propulsion and integration — Towards a hybrid/electric aircraft*

Human Factors in Transport Safety**

TsAGI is a focal point of Aviation Noise Research Network and Coordination in the framework of ANIMA project



* financing of the Russian consortium has been provided by the Ministry of Industry and Trade

** financing of the Russian consortium has been provided by the Ministry of Science and Higher Education

Green Deal Call — areas of interest (suggestions)

Topic I:

Green airports
and ports as hubs
for sustainable and
smart mobility

Call area 5: Sustainable and smart mobility

- Small size passenger aircraft (air taxi) using hydrogen energy / electric propulsion
- Unmanned transport platforms for the collection and delivery of goods to a hub (seaport, airport)

! Support is
needed

Green Deal Call – areas of interest (suggestions)

Call area 1: Increasing climate ambition: cross-sectoral challenges

Topic 2:

Preventing and fighting extreme wildfires with the integration and demonstration of innovative means

- Development of methods and means to increase the efficiency of aerial firefighting operations
- Atmospheric satellite for 24/7 monitoring of fire-prone areas
- Robotic system which is able to contain wildfire fronts and is based on a swarm of small-sized unmanned aerial vehicles
- Conceptual design and creation of a demonstrator of multipurpose amphibious UAV
- Robotic aviation platform for environmental monitoring
- Development of an efficient automated platform to control the location and routes of ground/air fire vehicles in real time

! Support is
• needed

**Thank you
for your attention**