



Welcome to

# CLEAN SKY Info Days

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**Warsaw, Sept. 12-13, 2011**

Z.GORAJ: Warsaw CleanSky Info Days, Sept 12-13, 2011



# What is the Clean Sky ?

**Clean Sky is the largest European  
aeronautical research programme  
devoted to environment and  
places Europe at the forefront  
of the greening of aviation,  
a public-private partnership ...**



## Mission – 2008-2017

Clean Sky is the most ambitious aeronautical research programme ever launched in Europe. Its mission is to develop breakthrough technologies to significantly increase the environmental performances of airplanes and air transport, resulting in less noisy and more fuel efficient aircraft, hence bringing a key contribution in achieving the Single European Sky environmental objectives.



# Environmental impact of aviation



Air transport's contribution to climate change represents 2% of human-induced CO<sub>2</sub> emissions (and 12% of all transport sources).

Flights produce 628,000,000 tonnes of CO<sub>2</sub> yearly Worldwide, it is estimated that the equivalent of 1300 new international airports will be required by 2050 with a doubling in the commercial aircraft fleet.

The challenge facing aviation is to meet the predicted growth in demand for air travel (increasing 4-5% per annum over the next 20 years) but to do so in a way that ensures that the environment is protected.



## Founding members (with the European Union) of the CSJU



**EADS**

**AIRBUS**  
AN AIRBUS COMPANY

**EUROCOPTER**  
A SAAB COMPANY

**Fraunhofer**

**AleniaAeronautica**  
A Finmeccanica Company

**AgustaWestland**  
A Finmeccanica Company

**SAFRAN**  
AEROSPACE DEFENCE SECURITY

**THALES**

**SAAB**

**DASSAULT**  
AVIATION

**LIEBHERR**



**Rolls-Royce**



# Facts & Figures

- 24 countries involved
- > 40% of SMEs selected
- 377 winners selected in two years
- 9 calls already launched (10th is on the way)
- 22,5 M € in value for each on average
- 38 topics per call on average
- 3 to 4 calls per year
- Up to 75% of funding rate



# Clean Sky 10th call for proposals

*The Clean Sky Technology Initiative  
has launched its **10th call** for proposals  
(Deadline October 12th 2011).*

***This call covers 40 topics with  
total available funding of 19,4 millions  
of Euros***



# Clean Sky is made up of 6 Integrated Technology Demonstrators



- 1. SMART Fixed Wing Aircraft**
- 2. Green Regional Aircraft**
- 3. Green Rotorcraft**
- 4. Sustainable and Green Engines**
- 5. Systems for Green Operations**
- 6. Eco-Design**





# Latest events - examples

- International Paris Air Show, 20-26 June, Paris [www.cleansky.eu](http://www.cleansky.eu)
- Clean Sky Info day, 5 June, Dublin [www.cleansky.eu](http://www.cleansky.eu)
- Clean Sky Info Day, 13 July, Ankara [www.cleansky.eu](http://www.cleansky.eu)
- **Clean Sky Conference, 12-13 September, Warsaw** [www.cleansky.eu](http://www.cleansky.eu)
- SAE AeroTech Congress & Exhibition,  
18-21 October, Toulouse [www.sae.org/events/atc/](http://www.sae.org/events/atc/)
- CEAS, 24-28 October 2011, *Venice* <http://www.ceas2011.org>



# Main goal of our meeting

This Workshop (Clean Sky Info Days) is aimed at presenting the current results of JTI and informing the participants about the ways and opportunities to get involved in the Clean Sky initiative in view of the JTI 10th call for proposals. Participants from Central/Eastern Europe will also have the opportunity to present their technical capabilities and background related to JTI.



# Agenda (1/3)

11:00	Welcome address by Local Host	Prof. Zdobyslaw Goraj
11:10	Welcome address on behalf of Polish National Centre for Research	Minister Prof. Krzysztof Kurzydłowski
11:20	Clean Sky JTI – Welcome Address	Eric Dautriat – Clean Sky Executive Director
11:30	Clean Sky – General Introduction	Giuseppe Pagnano – Clean Sky Coord Project Officer
11:50	Technical Break	
12:00	Smart Fixed Wing Aircraft	Helmut Schwarze - Clean Sky SFWA PO
12:30	Green Regional Aircraft	Andrzej Podsadowski - Clean Sky GRA PO
13:00	Green Rotorcraft	Clean Sky PO or ITD representative
13:30	<i>Lunch break</i>	



## Agenda (2/3)

<b>14:20</b>	<b>Overview of Polish Research Sector – Achievements and Capabilities</b>	<b>Prof. Jacek Rokicki</b>
<b>14:40</b>	<b>Research in Czech Republic related to CleanSky</b>	<b>Prof. Antonin Pistek</b>
<b>15:00</b>	<b>Research in Romania related to CleanSky</b>	<b>Prof. Catalin Nae</b>
<b>15:20</b>	<b>Research in Baltic Countries</b>	<b>Prof. Jonas Stankunas</b>
<b>15:40</b>	<b>PEGASUS network – from excellence in education to excellence in research and design</b>	<b>Prof. Pascal Bauer</b>
<b>16:00</b>	<b><i>Coffee Break</i></b>	
<b>16:30</b>	<b>Q/A on vehicle ITDs; integration possibilities with on going or future Polish programmes</b>	
<b>17:30</b>	<b>End of first day</b>	



# Agenda (3/3)



Tuesday, 13 September 2011	
Eco-design	Clean Sky or ITD representative
Sustainable and Green Engines	Clean Sky or ITD representative
Systems for Green Operations	Ruud den Boer - Clean Sky SGO PO
<i>Coffee break</i>	
The Role of the Technology Evaluator	Clean Sky or ITD representative
Calls for proposals: How to prepare a successful application?	Clean Sky representative
<b>Questions &amp; Answers</b> <ul style="list-style-type: none"><li>• How to improve the visibility of Clean Sky</li><li>• Possibilities of participation</li><li>• Perspectives of potential collaboration Integration in national programmes</li></ul>	
<ul style="list-style-type: none"><li>• Remarks &amp; Conclusions</li></ul>	



# Chances for our Region



**In a few countries** of our Region (Poland, Czech Republic, Romania, Lithuania, ...) **the strong aerospace sectors were established either before** or immediately after the **WW2**. We have **human potential, research facilities, sometimes infrastructure** to be used for production and cooperation with key West European partners. **Let's try to use this meeting to discuss our chances**, to facilitates existing schemes for further progress of our knowledge, skills and in result to overall progress of the whole economy and increasing the level of life. **Do not miss this opportunity!**