



EUROPEAN COMMISSION

Directorate-General for Research & Innovation
Directorate H – Transport

Aeronautics

Status: 16/12/2011

International Workshop on High-Speed Air Transport

"Towards a Global Approach on Environment Friendly High-Speed Air Transport"

Venue: European Commission, Brussels, CDMA Building

26th - 27th January 2012

Background to the Workshop

After pioneering ideas in the last 50 years, first promising concepts for hypersonic transport and for single-stage-to-orbit were developed in the 80ties in the frame of projects such as Saenger, HOTOL or NASP; however the needed readiness level of key technologies was not yet available by then.

Meanwhile technologies have progressed significantly in key areas for high-speed transportation such as aerodynamics, materials, propulsion and numerical simulations. Experimental and in-flight tests demonstrated the readiness of several technologies creating a unique opportunity on pursuing self-sustained flight at high speed.

In 2004 the European Space Agency ESA and the European Commission agreed on first technology projects addressing aspects of future civil high-speed transport. Joint projects within the Research Framework Programme of the European Union such as LAPCAT, ATLLAS or FAST20XX achieved significant progress in essential technologies.

World-wide progress in hypersonic technologies has been achieved by technology activities and even flight demonstrations up to Mach 10 in several countries such as Australia, Japan, USA, Russia and others.

The intrinsic nature of any high-speed civil transport calls for a global, international approach. Moreover, the enormous technological challenges and the associated high costs will require an international cooperation and co-ordination in high-speed research. Joint efforts will boost the technical progress and set up a 'win-win' perspective for all parties.

Workshop Objectives

The aim of this international workshop is to exchange information on the progress achieved and to identify areas, synergies and mechanisms for possible future co-ordination and joint research activities. In addition, discussions on potential working modalities, first concrete co-operation steps can be identified and discussed.

Addressees

The Workshop addresses senior programme and project leaders in high-speed technologies as well as representatives of Government Ministries and agencies supporting high-speed initiatives.

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Draft Agenda Day 1

Thursday, 26th January 2012

Day 1 - Technical Sessions

Venue: European Commission, Rue Joseph II 79, 1040 Brussels

09:00-09:30	Registration and gathering	
10:00– 11:00	Welcome and Introduction Session <ul style="list-style-type: none"> • Welcome by the Host • General Objectives for ‘Green’ High-Speed Air Transport • Opportunities for International Co-operation within the EU Framework Programmes 	<p>Tiit Jurimae, Head of DG R&I H.3 Aeronautics</p> <p>Commission or others</p>
11:00-11:30	Coffee Break	
11:30-13:00	<u>Technical Session 1:</u> Available Technologies of Interest for High-Speed Flight Experiments within Europe. <ul style="list-style-type: none"> • <i>Technology Developments within EC-Projects on High-Speed Air Transport</i> • <i>High-Speed Technology Developments in France</i> • <i>High-Speed Technology Developments in Germany</i> • <i>High-Speed Technology Developments in Italy</i> 	<p>Chairperson: N. N.</p> <p>Johan Steelant, ESA-ESTEC</p> <p>Laurent Serre, ONERA</p> <p>Klaus Hannemann, DLR</p> <p>Salvatore Borrelli, CIRA</p>
13:00-14:00	Sandwich Lunch	
14:00-15:00	<u>Technical Session 2:</u> Available Technologies of Interest for High-Speed Flight Experiments outside Europe. <ul style="list-style-type: none"> • <i>High-Speed Technologies in Russia of interest for Flight Testing</i> • <i>High-Speed Technologies in Japan of interest for Flight Testing</i> • <i>High-Speed Technologies in Australia of interest for Flight Testing</i> 	<p>Chairperson: N.N.</p> <p>N.N., TsAGI or MAI</p> <p>Maita Masataka, JAXA</p> <p>Russell Boyce, Univ. Queensland</p>
15:00-15:30	Coffee Break	

15:30-17:00	Round-Table Discussion: Possibilities for International Cooperation on High-Speed Technologies of interest for a Common Flight Testing Programme	<u>Chairperson:</u> tbd.
19:30	Official Workshop Dinner	Place t. b. d.

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Draft Agenda Day 2

Friday, 27th January 2012

Day 2 – Outlook to the Future of High-speed Transport

Venue: European Commission, Rue du Champ de Mars 21 (CDMA), 1050 Brussels

09:30-10:00	Registration and gathering	
10:00-10:30	Welcome Addresses and Introduction	<i>Chairman:</i> András Siegler, Director, DG R&I-H Transport Senior level representatives of European Commission, European Space Agency, Russia, Japan, Australia (tbc.)
10:30–11:00	Keynote Speech Working Title: "High-speed Transport – an Innovation Driver with a Long-term Vision"	Jean Botti, CTO EADS
10:30–10:45	Scene Setter: Concepts for a Joint Step Ahead	N.N., Commission/ ESA
11:00-11:30	Coffee Break	
11:30- 13:00	Session 1: State-of-the-art of Technologies for Civil High-Speed Air Transport <ul style="list-style-type: none">• High-Speed Air Transport Projects in Europe• High-Speed Air Transport Projects in Russia• High-Speed Air Transport Projects in Japan• High-Speed Air Transport Projects in	Chairperson: N.N. Johan Steelant, ESA-ESTEC N.N., TsAGI Maita Masataka, JAXA Russell Boyce, Univ. Queensland

	Australia	
13:00 - 14:00	Buffet Lunch	
14:00-15:00	<p><u>Session 2:</u></p> <p>Towards Co-ordination and Co-operation on High-Speed Transport Research</p> <ul style="list-style-type: none"> • <i>Proposal for a Follow-up Project based upon Roadmap of on-going EC-projects and Outcome of Technical Workshop</i> • <i>Opportunities within the EU Framework Programme and Co-ordination Aspects</i> • <i>Implementation Aspects of International Co-operation</i> • <i>Collaboration Potential by International Partners</i> 	<p><u>Chairperson:</u> Tbd.</p> <p>Johan Steelant, ESA-ESTEC</p> <p>N.N., European Commission</p> <p>N.N., European Commission</p> <p>Tbd.</p>
15:00-15:20	Coffee Break	
15:20-16:30	<p>Panel Discussion:</p> <p><i>Perspectives for Future Collaboration in High-Speed Civil Transport</i></p>	Moderator: tbc
16:30	Closing Statement	European Commission