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The role of Technology Platforms in European Research

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- ETPs, national TPs & national research programmes
- Expectations of EU from National Platforms
- New instruments ('Joint Programming', JTIs, §169, EITI KICs etc.)



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European Technology Platforms

- ETPs have been created to align EU research priorities with the aims of the Lisbon agenda.
- ETPs provide stakeholders with the chance to define a Strategic Research Agenda for their market.
- 3 stages of development:
 - Agreement on a common vision (ERTRAC Vision 2020)
 - Definition of SRA (medium to long-term)
 - Mobilization of financial & human resources to implement SRA

ERTRAC has already been successful in the development of the first 2 stages and started the 3rd one.

ETPs, national TPs & national research programmes

- ETPs need to mobilize a critical mass of national & European public & private resources.
- Up to now efforts focused mainly on EU public funds. This is not enough. National programmes = 85% total R&D public funding for Transport Research in EU.
- National TPs should be important actors of this change.
- ERTRAC should build on the 'Mapping of national road research activities in Europe' carried out in 2007.
- National TPs on Road Transport are essential to deepening of ERA. Co-ordination between national TPs and with ERTRAC is necessary.

ETPs, national TPs & national research programmes

National Technology Platforms – what for ?

- Benefit from national programmes to complement ERTRAC financial resources for priority themes.
- Serve as platform for stakeholders and definition of national strategic agendas.
- **Liaise with national authorities:** guidance on programme planning, co-operation between MS, ERANet Transport activities and EC initiatives such as 'Joint Programming' and JTIs.

ERTRAC could rely on NTPs for setting up large initiatives at EU level.

Expectations of EU from National Platforms

- **Role of ERTRAC: implement SRA**
- **FP7 provides only a small fraction of the investment needed**

Consequently:

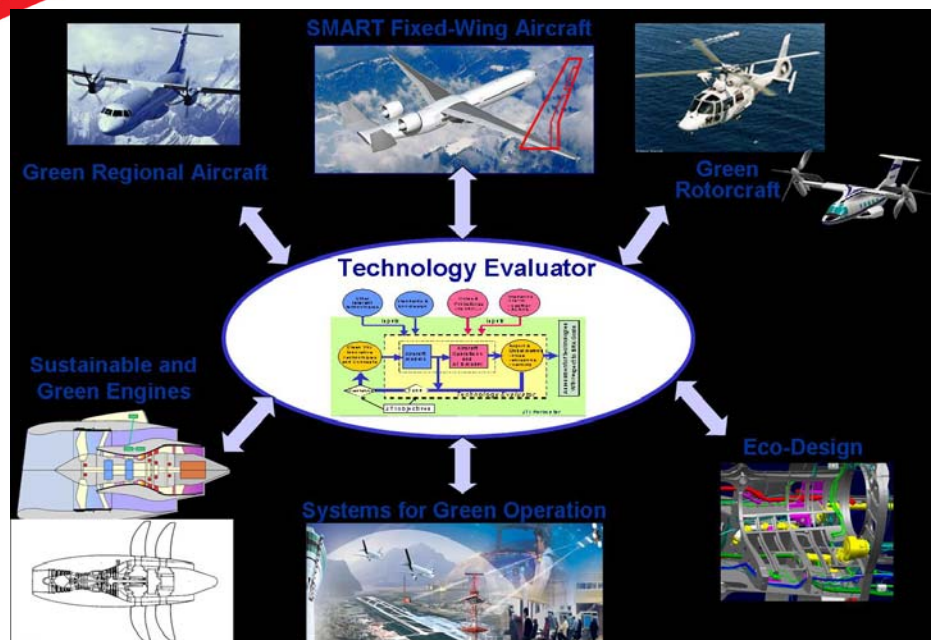
- **ETPs may tap into other sources of funding via national programmes**
- **Alignment of EU and national research programmes = synergies for implementing SRA and more effective investment.**

→ Role of National Technology Platforms

Expectations of the EC from national TPs

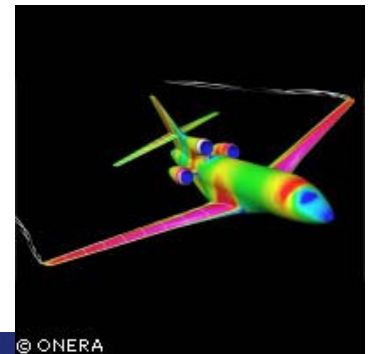
- Support to SRA implementation
- Prepare the future:
 - Joint Technology Initiative
 - ERA-NET+, \$169
 - Joint Programming (Coordination of national research programmes)
 - EITI KICs

Clean Sky JTI



Budget: € 1.6 Bn (EC: 800 M€)

- 2000: 'Vision 2020' report
- 2001: Launch of ACARE ETP
- 2002: SRA 1: 6 challenges for Aeronautics
- 2005: SRA 2: 6 High level Targets Concepts
- 2006: MoU signature between founders
- 2008: Launch of Clean Sky



Objectives:

- to provide a step forward in the technology capability of environmentally friendly systems:
 - integration of advanced technologies
 - full scale demonstrators
- to improve on the overall impact on environment:
 - noise and emission reduction
 - fuel consumption
- to coagulate the European industry around a project of common European interest
- to promote complementarity with national programmes



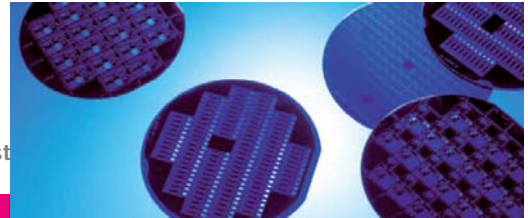
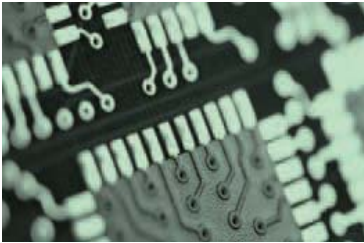
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ARTEMIS JTI (art.171)

- ARTEMIS is the first JTI launched in 2006
- ARTEMIS was first established in 2004 as a ETP on Embedded Computing Systems
 - Built on previous EUREKA clusters
 - Membership: EC, MS, ARTEMISA (industrial association)
 - Budget: 2008-2017: € 2.7 billion (EC: € 0.4, MS: 0.7; Private sector: 1.6)



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The Fuel Cells and Hydrogen (FCH) - JTI



- Total budget: € 1 billion



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The Innovative Medicines Initiative (IMI) JTI



- Total budget: € 2 billion



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The Nanoelectronics 2020 Initiative (ENIAC) JTI



Total budget: € 3 billion (2008 – 2017)
(EC: 0.45; MS:0.80; Private sector: 1.75)



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Joint Programming

- New initiative of the EC as a result of Green Paper consultation in 2007
- Aim: overcome fragmentation of research programmes in Europe.

In EU 85% of public R&D spending is national.

Joint Programming in brief:

- Elaboration and implementation by Member States (on a voluntary basis) of strategic research agendas for major societal challenges.
- Strategic cooperation between national programmes or new common programmes.
- Pool resources, and together define adequate instruments, implement and evaluate progress.
- Increase efficiency of R&D and impact of public funding.
- Variable geometry, but critical mass.
- Proceed step by step.
- No Community funding.

Joint Programming

- 'Industrial organisations should play a role in consultation process and implementation of some Joint Programming initiatives'.
- 'Joint programming responds to the request of stakeholders for a voluntary and bottom-up approach combined to strategic guidance at European level'.

ERTRAC and National Platforms could play a role in the elaboration of SRAs on road transport research.

Ambient Assisted Living Joint Programme (art. 169)



- A joint R&D funding activity by actual **20 MS** + 3 AS with financial support of the EC based on art. **169**.
- Aims at prolonging the time people can live in a decent way in their own home environment.
- 2004: ministries, national programme agencies + research org. from 7 MS start preparing art 169 initiative

- June 2007: adoption of action plan
- July 2008: EP and Council Decision on Community participation
- Budget: > 700 M€
(50% public: national + EU funding;
50% private)

