

European Parliament
16 February 2016
EASN workshop

Clean Sky

*Upstream research opportunities
within “industry-led” programmes*

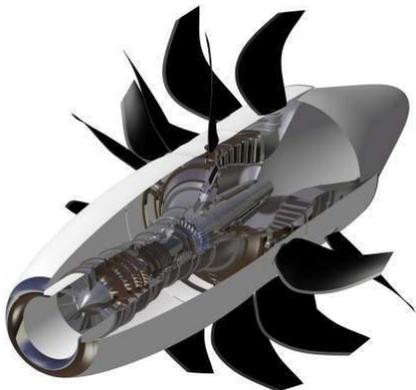
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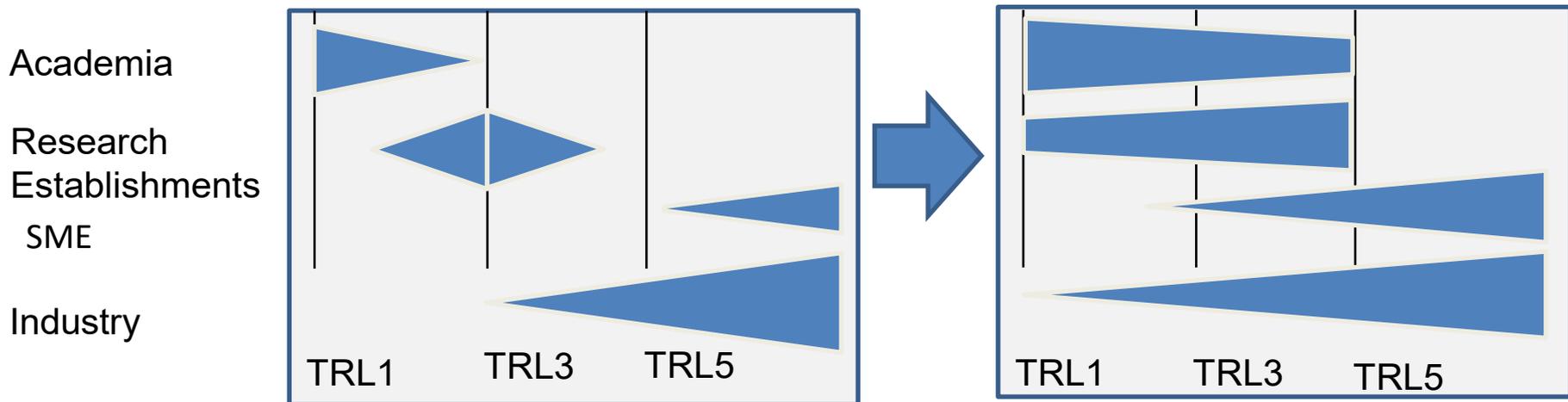
Clean Sky : Innovation takes off

Clean Sky : Europe's main Aeronautics Research Programme

- Focused on environment and competitiveness
- Integrated technologies, industry-led, up to **full scale demonstrators**
- Clean Sky 2: 4 B€ total funding – 1.75 public, 2.25 private



How the aero innovation pipeline is evolving



Organising research in silos (a programme for the industry, a programme for Research Establishments, etc) cannot work...

More complex interactions

But also more opportunities for Academia

A Europe-wide R&I eco-system

Deployment of a wide innovation chain, creating new, sustainable links between researchers, SMEs, integrators

- > 600 participants from 24 countries
- 250 SMEs
- 75 Research Establishments – 110 Academia
- > 3000 “full time equivalent” people involved



27% of the budget of Clean Sky was allocated to RE and Academia



TRL in Clean Sky

“Clean Sky = putting together mature technologies in integrated demonstrators”

is a very simplistic view

Very few of Clean Sky 1 key technologies were started at a higher TRL than 3...

However TRL is not the only parameter – TRL2 to 3 activities, industry-led, top-down led (where the “how” is open but the “what” is defined), should be complemented with a bottom-up approach *within a general, strategic framework*



Academia and Clean Sky 2

**A funding of about 180 M€ or more can be expected to Academia in CS2
- worth considering it in a PRO-ACTIVE way:
JUST DO IT !**

In the preparation phase of CS2 (more than 15 “B2B” meetings), on the basis of the draft Joint Technical Proposal of the industrial Leaders, a request for additional / complementary content was repeatedly forwarded to all potential participants, incl. Academia, but very limited input received

... But still feasible! Clean Sky 2 is not frozen
Academia (and other participants!) to bring *fresh, far-reaching, game-changing ideas*

Provided that they are consistent with the objectives of ITDs

Demonstrators = drumbeat of the system – bring a momentum and *feed* the whole eco-system rather than drying it up



What Clean Sky intends to demonstrate by 2017

(final assessment of CS1, mid-term H2020)

- An ambitious / effective / consistent / far-looking / stable / flexible programme
- Playing the role of flagship for all EU aero research – strongly contributing to an overall consistency
- Leveraging and including lower-TRL activities thanks to the mainstream of demonstrators (locomotives)
- Open to bottom-up approaches
- An “Undertaking” where all stakeholders find themselves at home and consider as their optimal instrument for R&I: Industry-led... but fostering wide SME, RE and Academia participation

This will happen if and only if the Academia play an active role in it – and even more for the next generation