

Status on SESAR



ICAO Colloquium on Aviation and Climate Change
May 13th, 2010

founding members



Environment is a priority for SESAR

**Enabling EU skies
to handle 3 times
more traffic**

**Improving safety
by a factor of 10**

**CO2 emission
per flight -10%**

**Reduce ATM
unit costs by 50%**

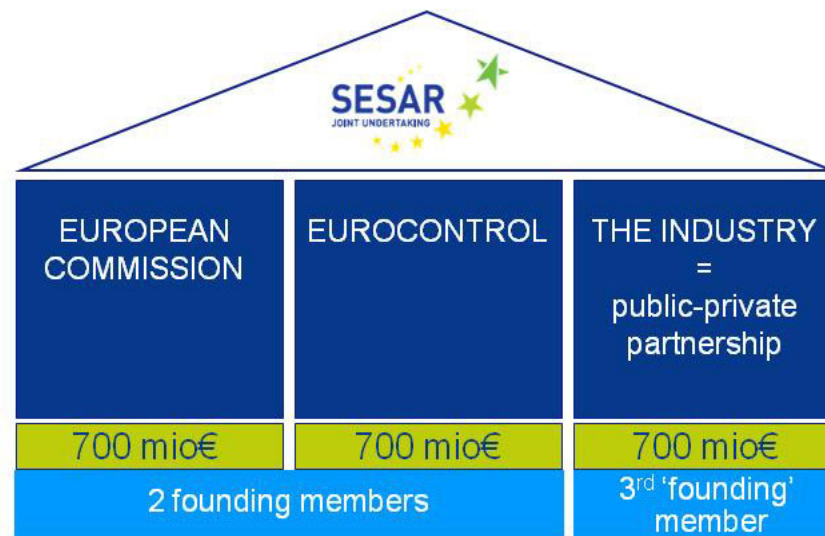


SESAR Joint Undertaking fully established

Main responsibilities:

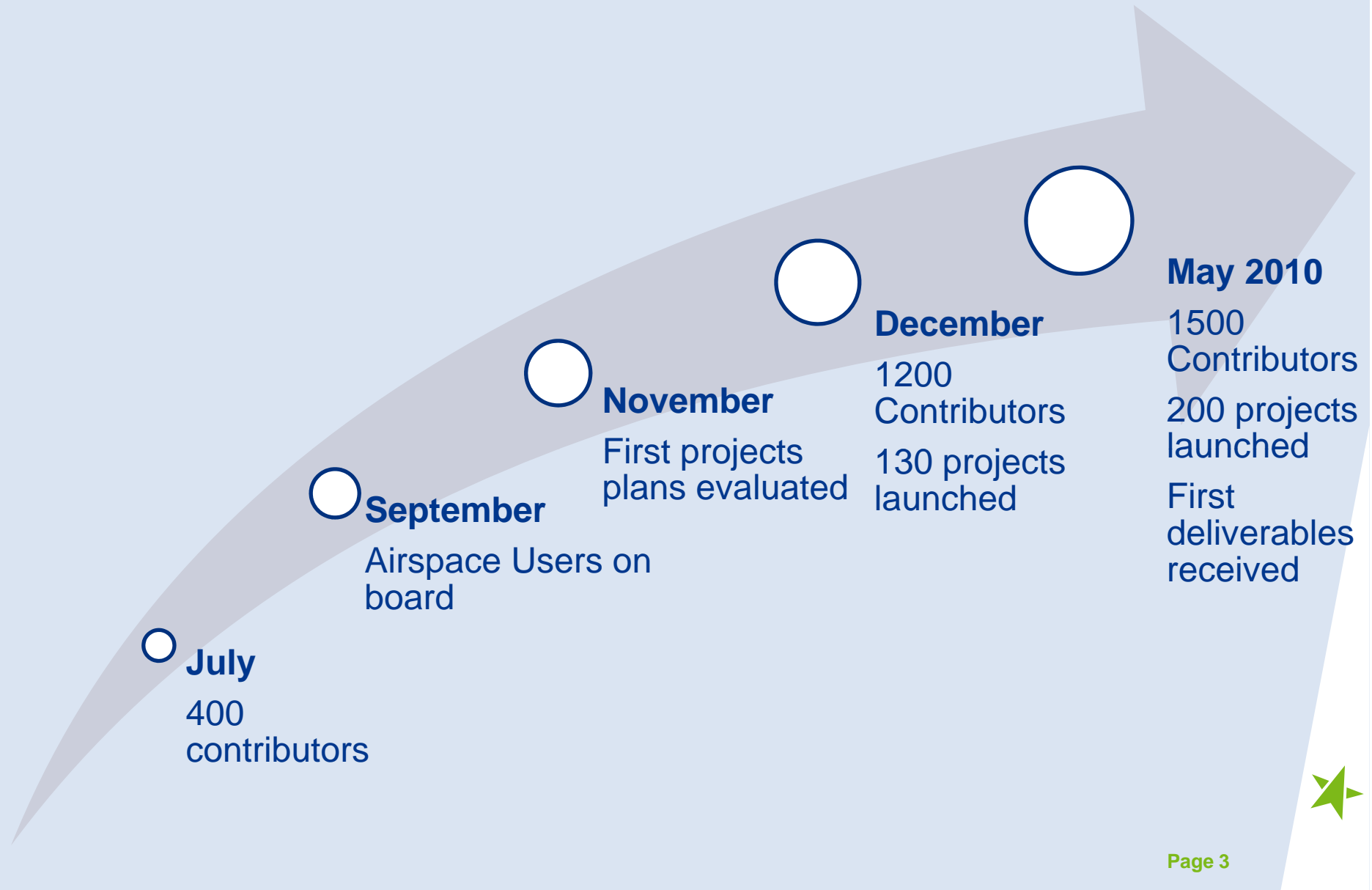
- ✓ Concentrate and integrate R&D in Europe
- ✓ Execution of the European ATM Master Plan

**Budget: €2.1 billion
for R&D activities
secured and
formalized**



From the programme launch in June 2009 up to now

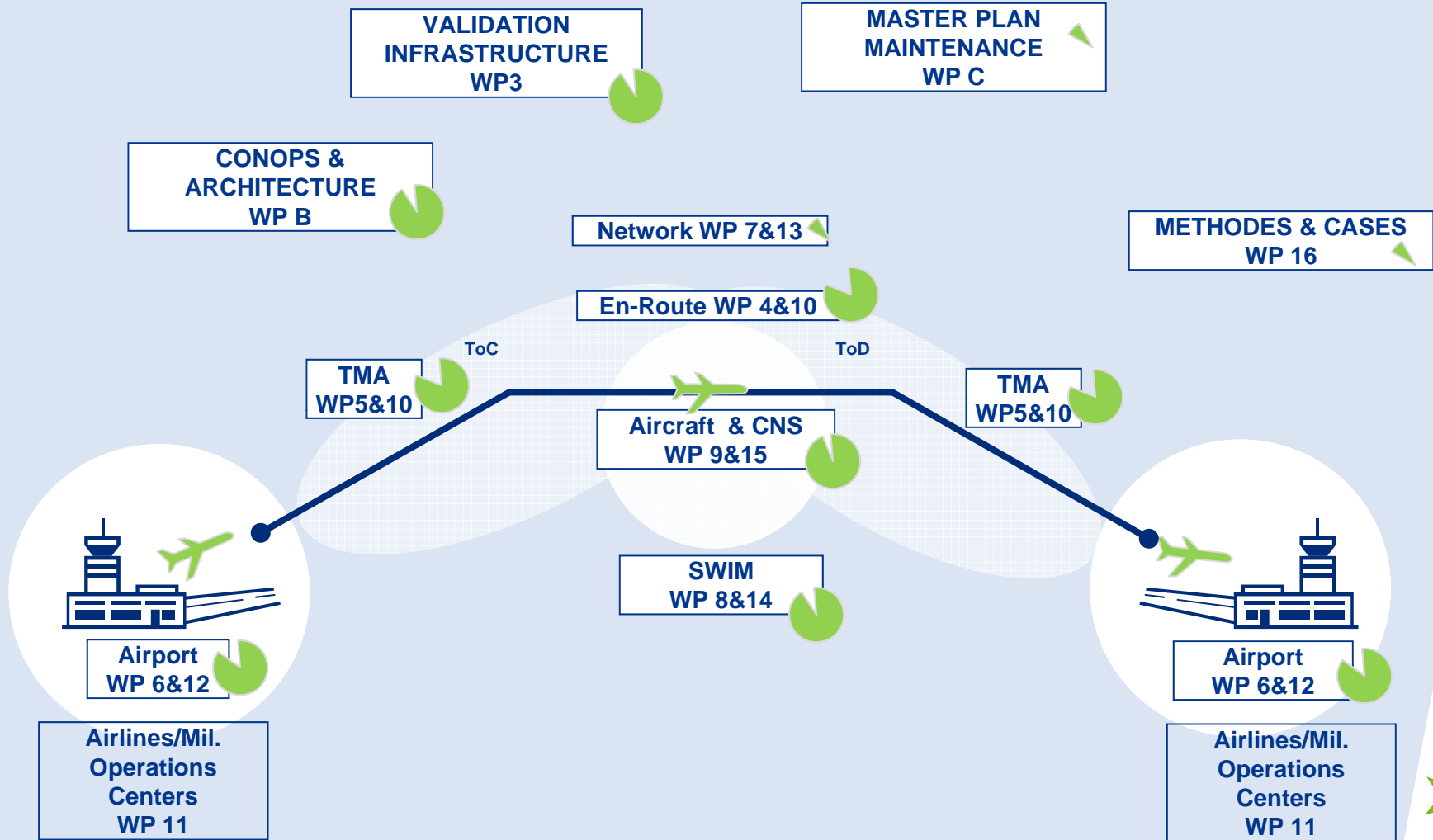
ILLUSTRATIVE



The SESAR “factory” is in place

ILLUSTRATIVE

- 75% of the programme initiated



The SESAR “factory” is in place

- 16 members and over 70 companies on board

founding members



Aena



The SESAR “factory” is in place

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Specific working arrangements established with:

- ✓ Civil Airspace users
- ✓ Military
- ✓ Regulatory authorities
- ✓ Standardisation bodies
- ✓ Staff representatives
- ✓ Clean Sky Joint Undertaking

Will be formalized within short:

- ✓ Research organizations/academia
- ✓ FAA/NextGen



- More than 300 projects in total
- Average project:
 - Duration 4 years
 - Budget 7M€
 - Dependencies with 5 other projects

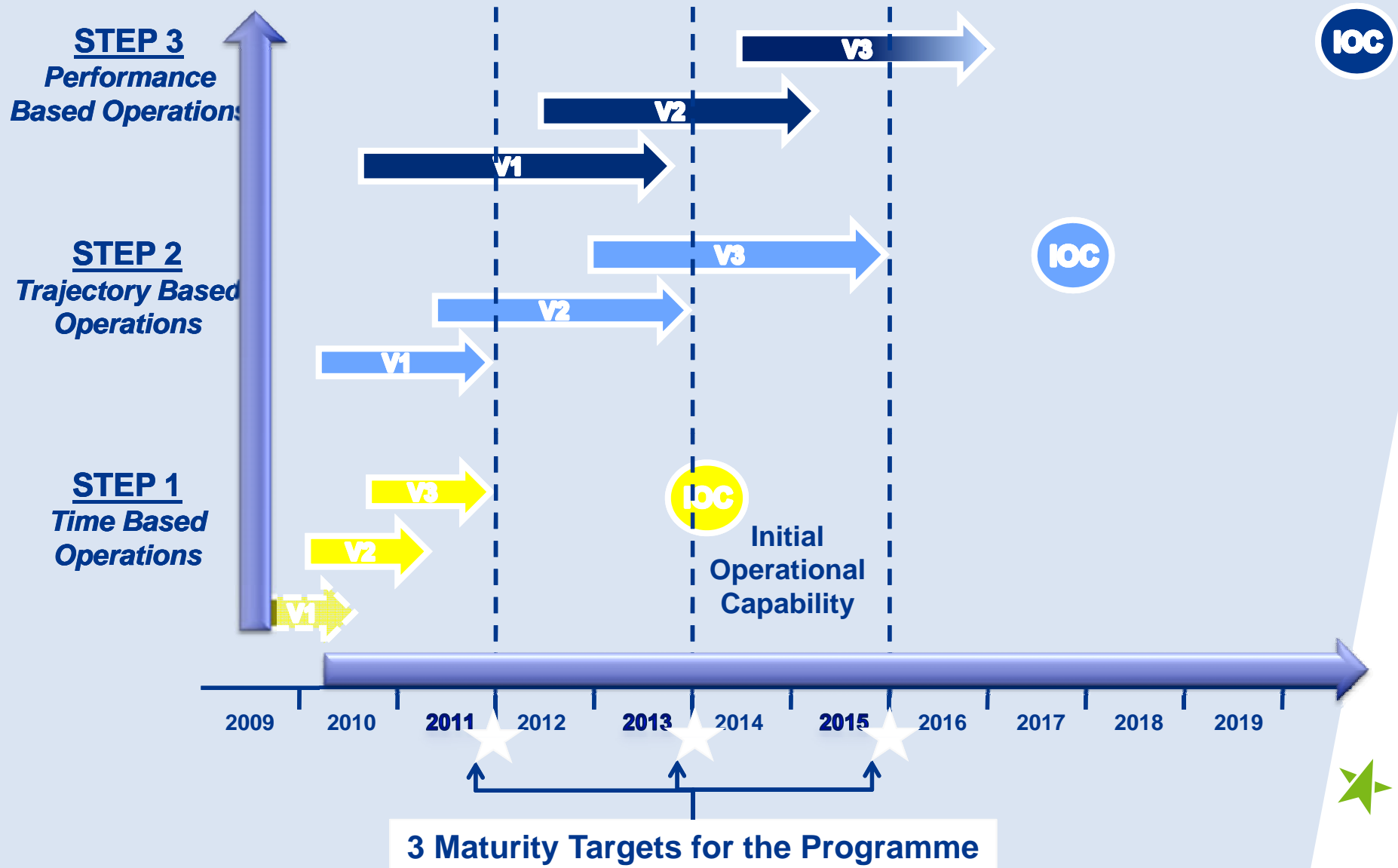


How we work together

ILLUSTRATIVE

How we work together

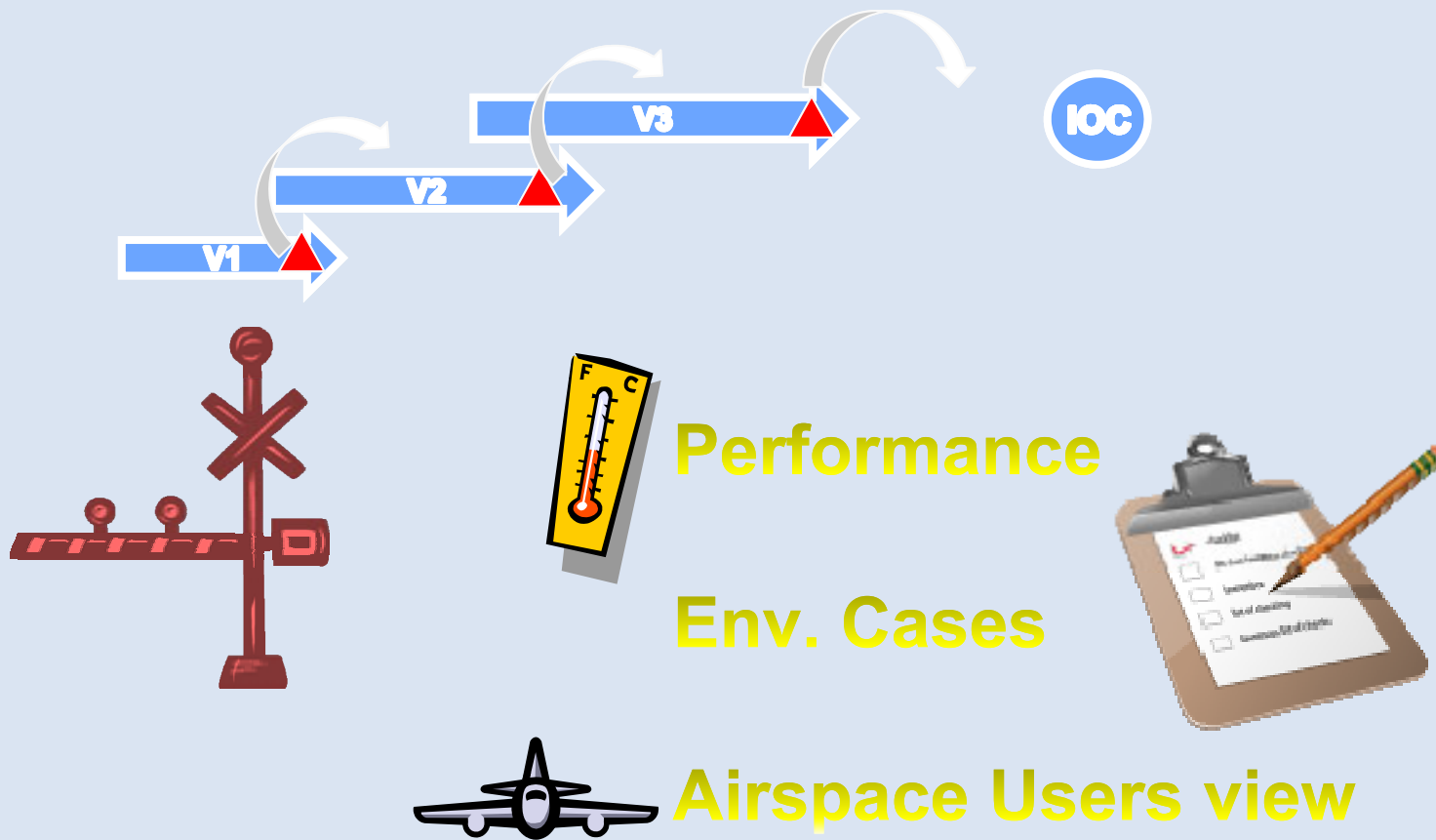
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Building the environmental case

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Environmental validation methodology

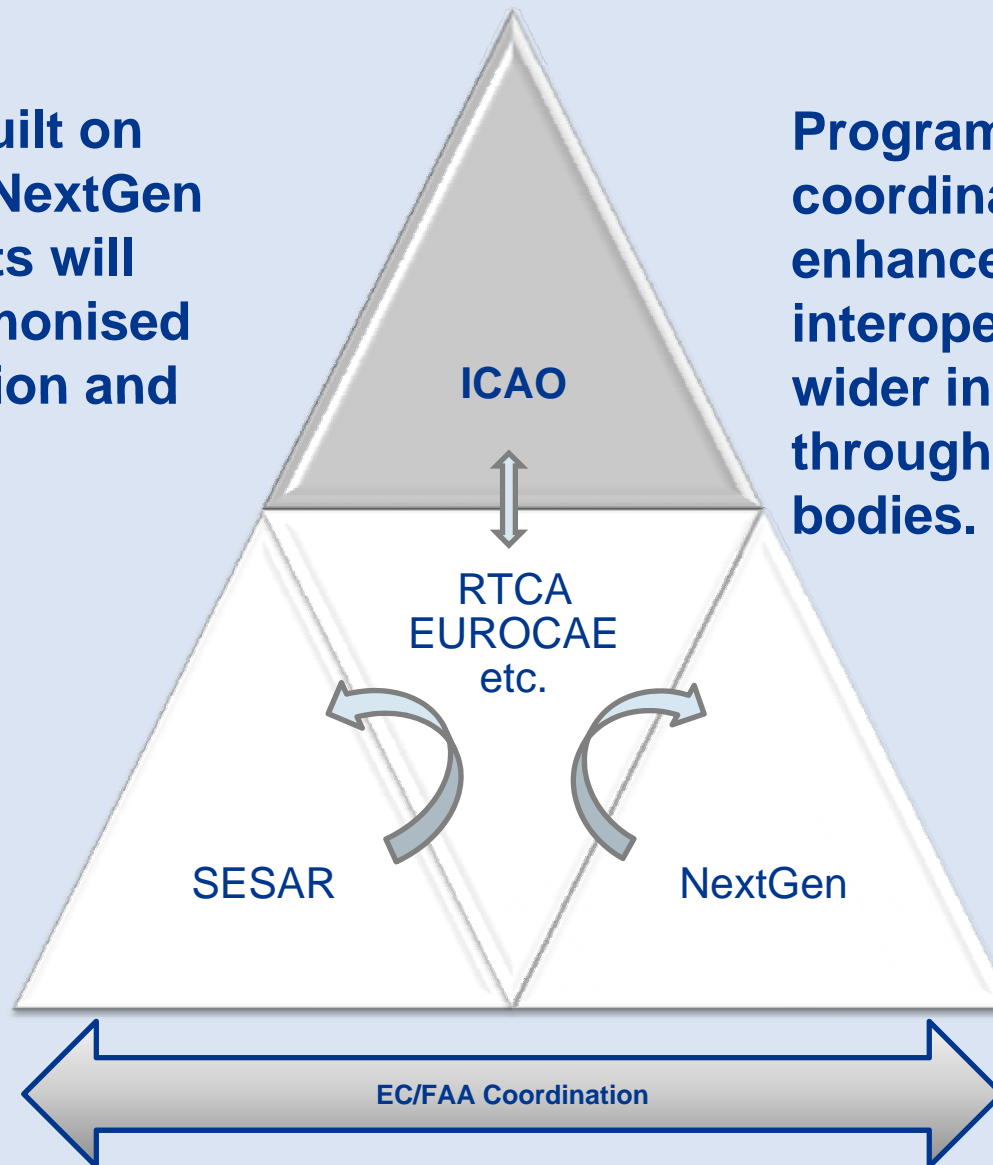


Importance of international cooperation and interoperability through standards

EXAMPLE WITH
SESAR/NEXTGEN

**Standards built on
SESAR and NextGen
developments will
support harmonised
Implementation and
Regulation**

**Programme level
coordination
enhanced by
interoperability and
wider industry buy-in
through standards
bodies.**



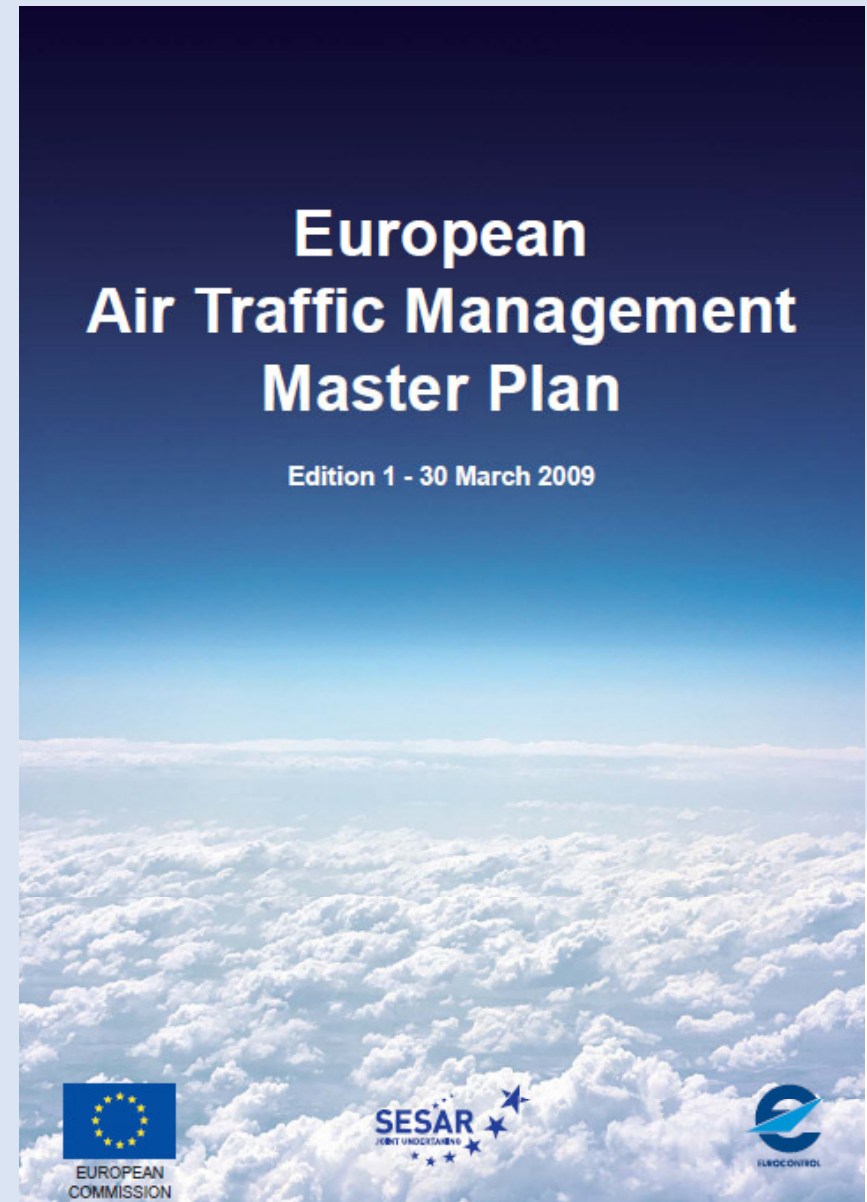
Partnership in practice, delivering green results today

- ✓ 1152 trials performed
- ✓ Demonstrated CO₂ saving/flight ranging from 90 to 1250 kg
- ✓ Accumulated savings during trials equivalent to 400 Tons of CO₂
- ✓ First complete transatlantic green flights performed
- ✓ Most of the solutions are already in operation or will be introduced within short
- ✓ Programme will be expanded in 2010



To summarize

- ✓ **Ambitious environmental targets defined for 2020 horizon**
- ✓ **European ATM Master Plan defines roadmap for the step by step evolution of the future ATM System**
- ✓ **Funding and governance to conduct R&D activities is in place**
- ✓ **AIRE demonstrates that green results can be achieved today**
- ✓ **Public-Private partnership and international cooperation is a key success factor for the programme**





Thank you for your attention!

www.sesarju.eu/environment

