



Horizon 2020 research priorities

SESAR 2020 Exploratory Research Call for Proposals
Information Day
4th May 2015

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Research and Innovative Transport Systems

DG MOVE

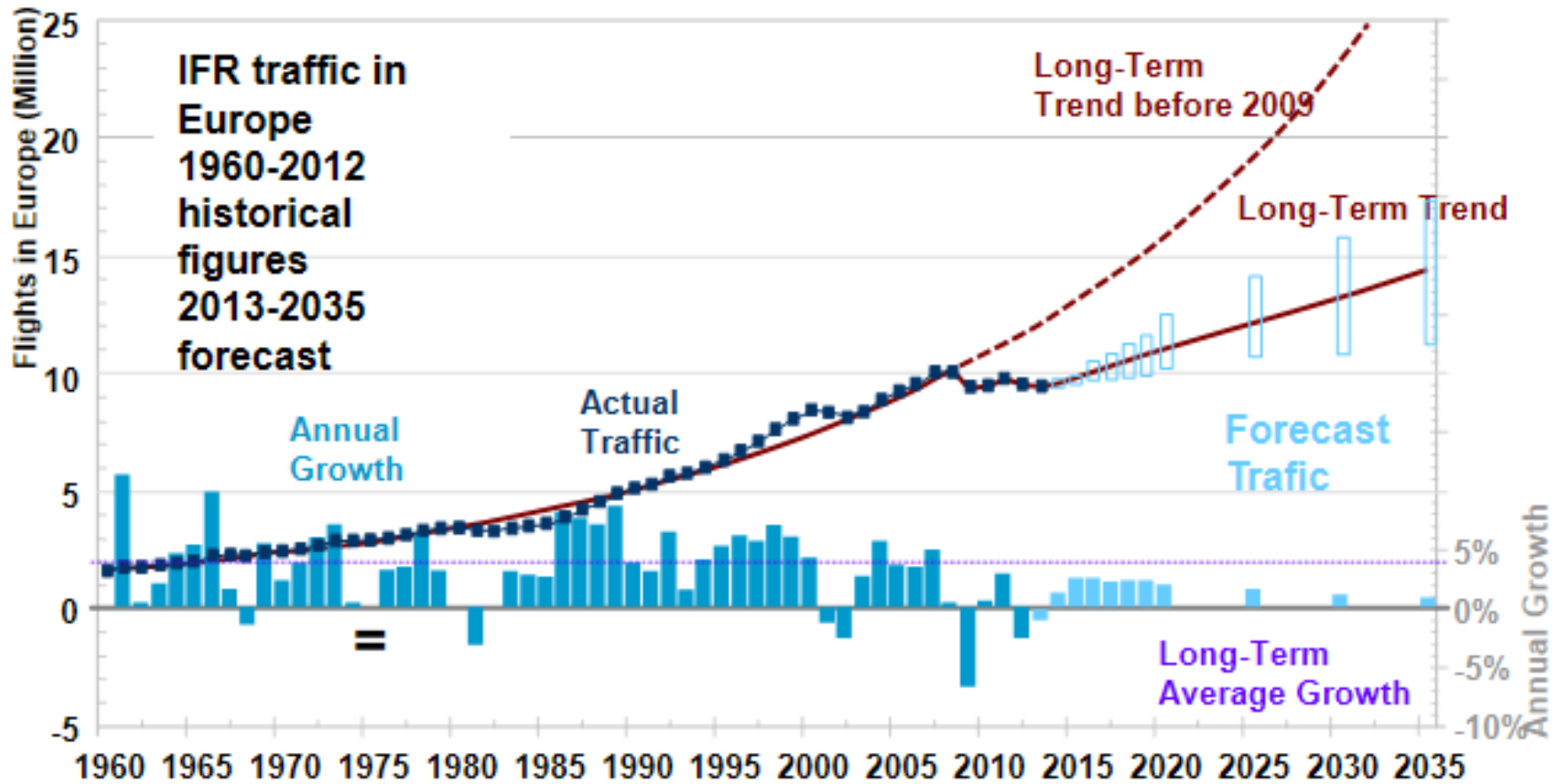


Challenges in aviation

- Sustained increase in air **traffic**
- Larger **airports**
- Growing network **congestion**
- **Environmental** issues, i.e. noise
- Better **integration** of aviation with other modes

→ Need for **smarter solutions**
at service, operational and technology level





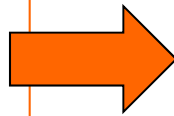
Source: EUROCONTROL STATFOR



Flightpath 2050: Europe's vision for aviation

5 challenges:

- 1. Meeting Societal and Market Needs*
- 2. Leadership*
- 3. Environment & Energy*
- 4. Safety & Security*
- 5. Research & Education*



ATM research: provide innovative means to

- Improve air mobility / intermodality
 - door-to-door within 4 hours*
- 12% CO2 target reduction
 - max arrival time delay of 1 minute*
- Air transport capacity
 - air traffic management system handling 25 ml flights a year*
- Enable new concept of air operations
 - air vehicles of the future, new systems*



ATM in Air Transport: The European R & I Response

H2020 Transport Challenge:
“SMART, GREEN and INTEGRATED
TRANSPORT”

Resource efficient, climate- and environmentally friendly, safe and seamless



Innovative Greener Air
Vehicles

Clean Sky



Transport System
**H2020
Workprogramme**



Seamless and integrated
ATM

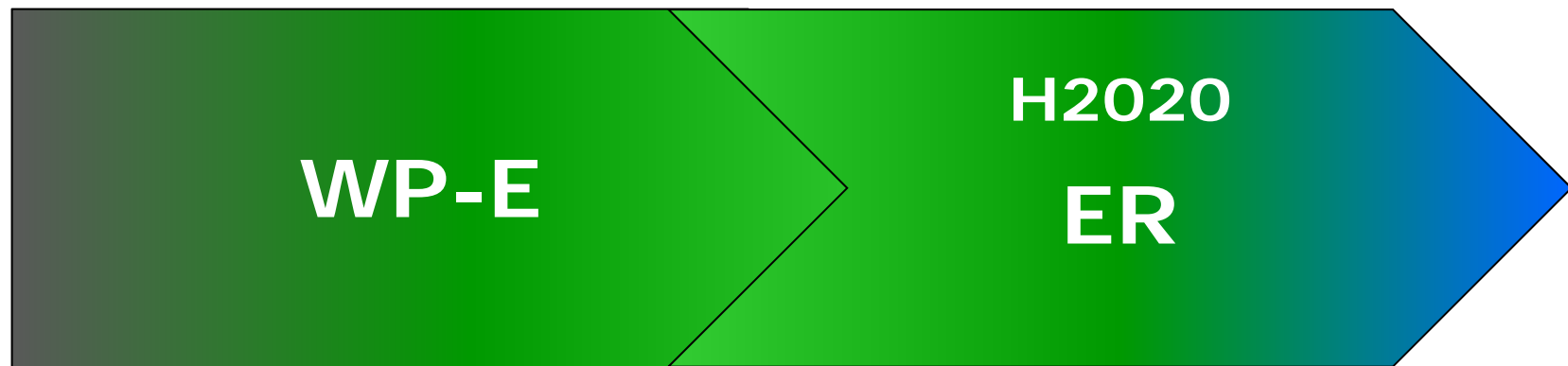
SESAR

SESAR ER

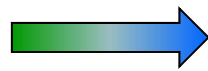


Keeping innovative ideas flowing

FP7



EUR 23 ml



EUR 85 ml





SESAR Exploratory Research

- Explore new ideas
- Support SESAR deployment on time
- Foster innovators





EC in the SESAR ER

- Support the **identification and harmonization** of R&I needs relevant to ATM in the aviation industry
- Consider as appropriate the ACARE Flightpath 2050 **Strategic Research Agenda**
- Ensure **consistency** with H2020 work programme and H2020 transport challenge goals
- Feed SESAR JU with **FP7 outputs**





Aviation Package

- *Commission's 2015 Work Programme, "A New Start"*
- *To identify the **challenges** facing the EU's aviation sector and measures which can bolster its **competitiveness***
- *To be adopted by the EC by the end of 2015*
- **Public consultation** until 10 June 2015
http://ec.europa.eu/transport/modes/air/consultations/2015-aviation-package_en.htm

