

## **Developing Safety Research :** Views from a Regulator

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- ➤ The past
- > Key Issues to tackle
- Developing the Long-term Vision
- Building on identified Safety Risks
- EASA on-board for research



## Research initiated in reaction to safety events



#### Unexpected failure mode





- Involvement of Stakeholders
- ➤ Getting pro-active
- Balancing short-term vs. long-term
- Follow-up actions until deployment

- Challenging EU Context:
  - Limited funding
  - Fragmented initiatives
  - Low visibility of achievements



# **Developing the Long-Term Vision**

### Flightpath 2050

#### **Europe's Vision for Aviation**

Maintaining Global Leadership & Serving Society's Needs

#### Key Goals

- 50% cut in CO2 emissions per passenger/km
- 80% cut in NOx emissions
- Halving perceived aircraft noise
- Five-fold reduction in accidents
- ATS capable of handling 16 mio. flights a year
- 99% of all flights within 15 min. of timetable



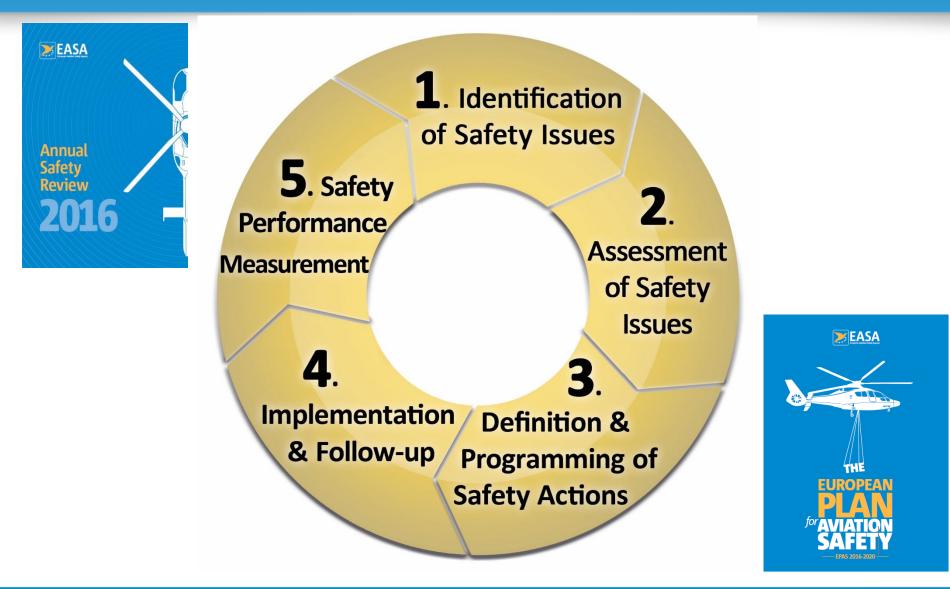
## ACARE Strategic Research and Innovation Agenda

#### Future Vision of Safety



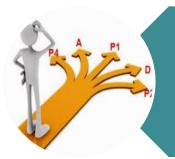
Next SRIA update: June 2017

# Building on identified Safety Risks



# The European Safety Risk Management Cycle





## Identify safety priorities

# Connect safety intelligence with actions

EREA - FSS 1st Public Workshop 8-9 March 2017







## Main ambitions

- Strengthen the coordination of safety research with the Aviation Stakeholders
- Prepare evolutions of aviation standards
- Support innovation
- >Address urgent research needs
- Building on existing initiatives and research programming processes
- Involving our teams of domain experts



- Identify research needs from EU-level Safety Risk Management
  - > Operational Issues
  - Systematic Issues
  - Emerging Issues



- Assist Innovation Programmes: Horizon 2020 National Prog.
  - Assess safety challenges, research themes proposed
  - Advise projects



# Your questions ?

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