Developing Safety Research: Views from a Regulator

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The past

Research initiated in reaction to safety events

Unexpected failure mode
Key Issues to Tackle

- 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

Safe Operations
Safe Design, Manufacturing & Certification
Human & Organizational Factors
Safety Intelligence

Next SRIA update: June 2017
Building on identified Safety Risks

1. Identification of Safety Issues
2. Assessment of Safety Issues
3. Definition & Programming of Safety Actions
4. Implementation & Follow-up
5. Safety Performance Measurement
The European Safety Risk Management Cycle

Collaborative work with experts from Industry and States

Identify safety priorities

Connect safety intelligence with actions
EPAS: The European Plan for Aviation Safety

High-level European-wide concerns

In support of **EU Member States State Safety Programmes**

Wider than EASA countries

Includes rulemaking, safety promotion, focussed oversight and research actions
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
Our Current Actions

» 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 ?