



# aerodays2015

Aviation in Europe – Innovating for Growth

The 7<sup>th</sup> European Aeronautics Days



L O N D O N



20 – 23 OCTOBER 2015



## Content

1. Our context
2. Why involve safety regulators ?
3. Safety / Technical issues
4. H2020 for safety-oriented research



## Our Context

- Fast reaction on safety issues required
  - Accident Investigation Reports
  - Safety analysis/occurrence reporting
- Address multi-faceted issues
  - e.g. cabin air quality
  - Lithium batteries
  - Flight time limitations
- EU-level Aviation Safety Plan ([EASp](#))



## Why involve safety regulators ?

- Adaptation of standards to novel technologies/concepts
  - Policy, decisions, regulations, guidance material and recommendations for safety improvements / environmental protection should be based on sound scientific grounds;
- Research can save time/money
  - Lowers risks for implementation
  - Costs of misguided rules is high
- Develop and maintain key expertise



# EASA Needs and Research Priorities

## Safety Issues = EASp framework

SAFETY PLAN FRAMEWORK		
SYSTEMIC ISSUES	OPERATIONAL ISSUES	EMERGING ISSUES
Working with States to implement and develop SSPs	<b>COMMERCIAL AIR TRANSPORT BY AEROPLANES</b>	New products, systems, technologies and operations
Working with States to foster the implementation of SMS in the industry	Runway Excursions	Environmental factors
Safety Management enablers	Mid-air Collisions	Regulatory considerations
Complexity of the system	Controlled Flight Into Terrain	
Competence of personnel	Loss of Control In Flight	
	Runway Incursions	
	<b>Fire, Smoke and Fumes</b>	
	<b>OTHER TYPES OF OPERATION</b>	
	Helicopters	
	General Aviation	
HUMAN FACTORS AND PERFORMANCE		



## Technical Fields

- Aircraft airworthiness
  - Avionics / Airborne S/W and electronic H/W
  - Aerostructure / Materials / Engines
  - Rotorcraft
  - External Hazards and Fire Risks
  - New technologies for light aircraft
- Flight operations and standards
- Human Factor (HF) and Safety Management System (SMS)
- ATM and Aerodrome operations



## Horizon 2020

- 2016-2017 calls for proposal
  - Takling 'Aviation Safety Challenges' in broad sense
  - Considering EASp issues and proposed actions
  - Impact onto current EU/Internat. standards of novel products / concepts of operations
  - Reinforcement of EU Aviation Safety system capacities
  - EASA involvement: when/where relevant
  
- Contact us:
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# EASA

European Aviation Safety Agency

# QUESTIONS ?

**Your safety is our mission.**

An agency of the European Union 