



**ARAST - AIG Meeting 23-24 NOV 09**

***ECAST Update***

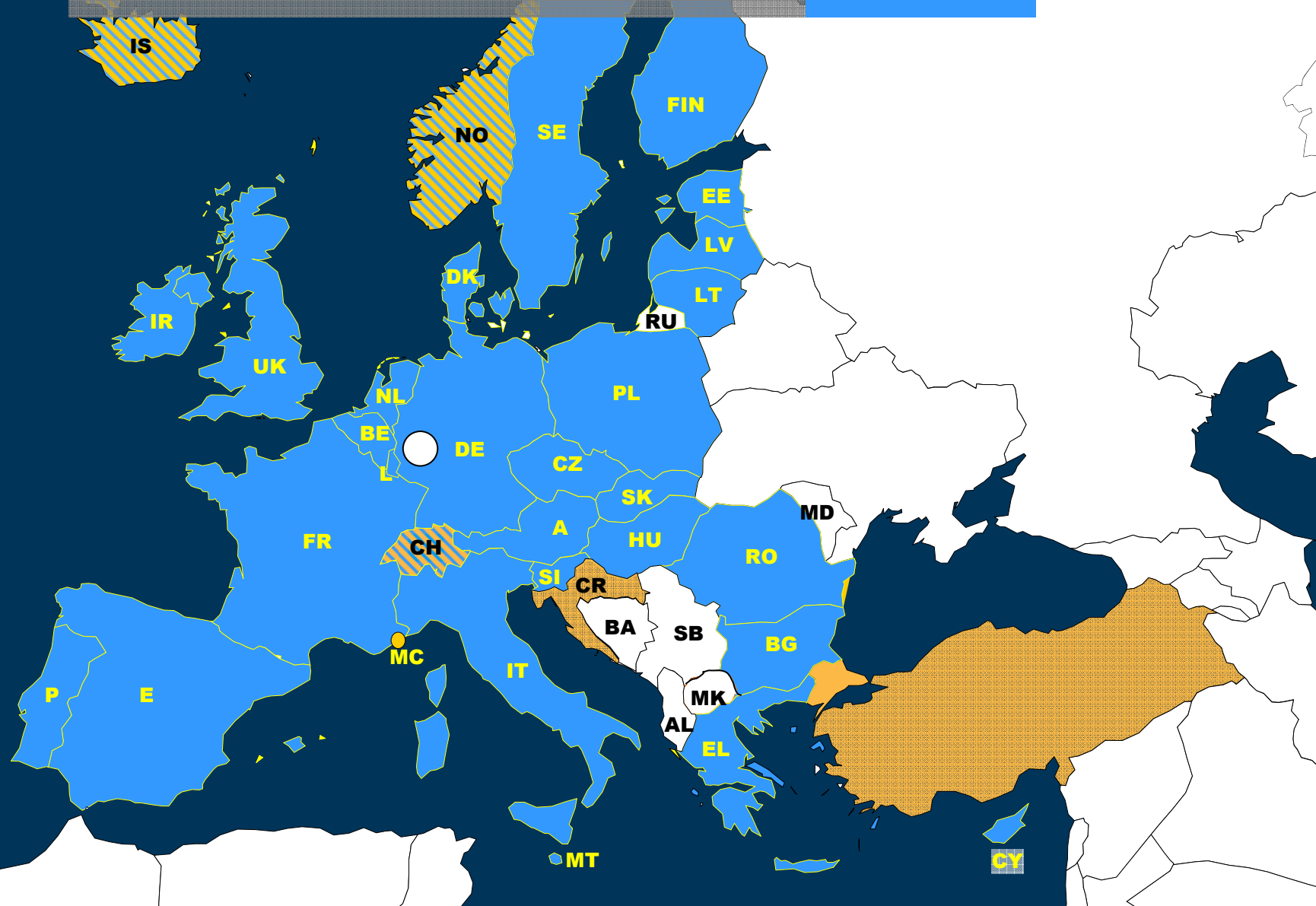
**Presented by Gérard GUYOT, Airbus**

***Prepared by Michel MASSON and Clément AUDARD, EASA***

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# EASA Member States

EU 27 + 4





## EASA Extension Part II

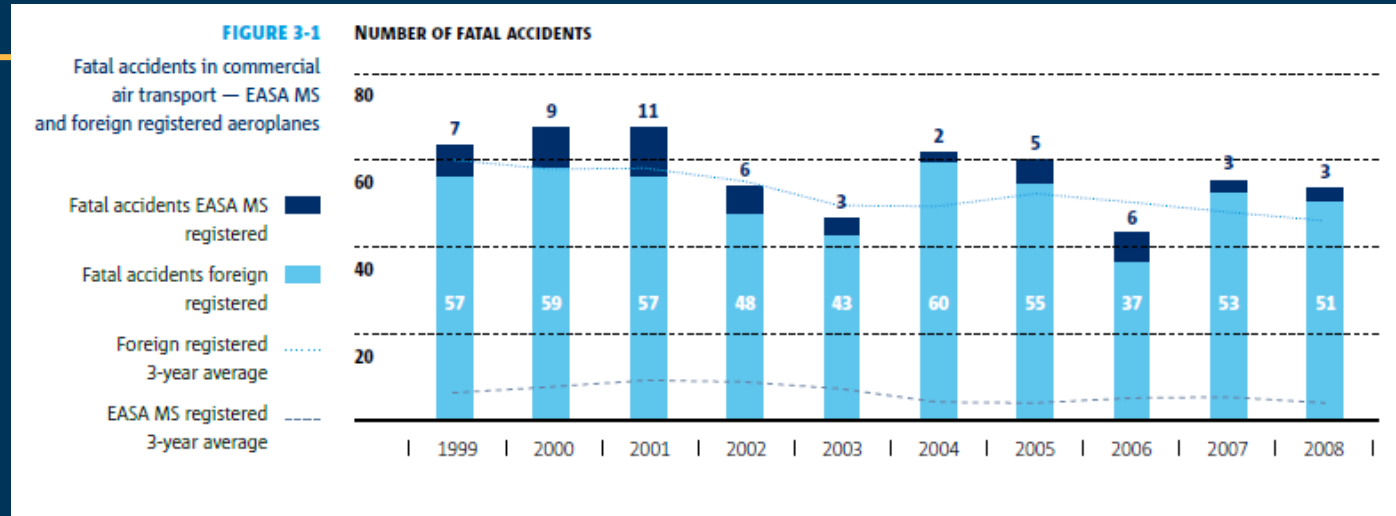
**Adopted 7 Sep 2009**

**European Council  
adopts regulation extending  
EASA's competences to the  
safety of aerodromes,  
air traffic-management  
and air navigation services.**

# Commercial Air Transport accidents statistics in Europe



Published on  
the EASA  
website



# Plan

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- **ECAST SMS and Safety Culture**
- **ECAST Ground Safety**
- **ECAST Safety Analysis Team**
- **Training**
- **ICAO High Level Safety Conference**
- **Implementation of CAST SEs in Europe**

# ECAST SMS - published

WPs and materials [easa.europa.eu/essi](https://easa.europa.eu/essi)

**Best Practice only!  
(no AMC or GMD)**



**ECAST**  
Component of ESSI  
European Strategic Safety Initiative

This web site is a resource for Industries to obtain information about ECAST efforts in the area of Safety Management and to Support for organisations wishing to implement a Safety Management System.

### Background on the ECAST SMS Working Group

The European Strategic Safety Initiative (ESSI) is an aviation safety partnership between EASA, other regulators and the industry. The initiative objective is to further enhance safety in Europe. The ESSI has three components: the European Commercial Aviation Safety Team (ECAST), the European Helicopter Safety Team (EHEST), and the European General Aviation Safety Team (EGAST).

	Summary	Guidance
<b>WP 1.1 - Review SMS/Safety Culture initiatives and materials</b>	WP 1.1	
<b>WP 1.2 - Safety Culture framework for ECAST SMS WG</b>	WP 1.2	
<b>WP 2 - Identify best practices and examples of organisations</b>	WP 2	
<b>WP 3 - Guidance on Hazard Identification</b>	WP 3	
<b>WP 4 - Guidance on Risk Assessment</b>	WP 4	

# ECAST SMS WPs and materials

1139 Articles 760 New

Safety knowledge contributed by [Login](#)

EUROCONTROL ICAO FLIGHT SAFETY FOUNDATION

**SKYbrary** The single point of reference in the network of aviation safety knowledge

Join Skybrary and participate in the discussions about articles

Operational Issues Portal Enhancing Safety Portal Safety Regulations Portal

**Situational Awareness**

Put simply, situation awareness (SA) means knowing what is going on around you. More specifically, in the context of complex operational environments SA is concerned with the person's knowledge of particular task-related events and phenomena.

[read more](#)

**Skybrary Solutions** **Safety Alerts**

- [All clear? Toolkit](#)
- [Level Bust Toolkit](#)
- [Airspace Infringement Early Action Package](#)

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**ECAST and ARMS  
products also published  
in SKYbrary**

[www.skybrary.aero/index.php/Category:Safety\\_Management](http://www.skybrary.aero/index.php/Category:Safety_Management)

**of which ESSI is now a sponsor**

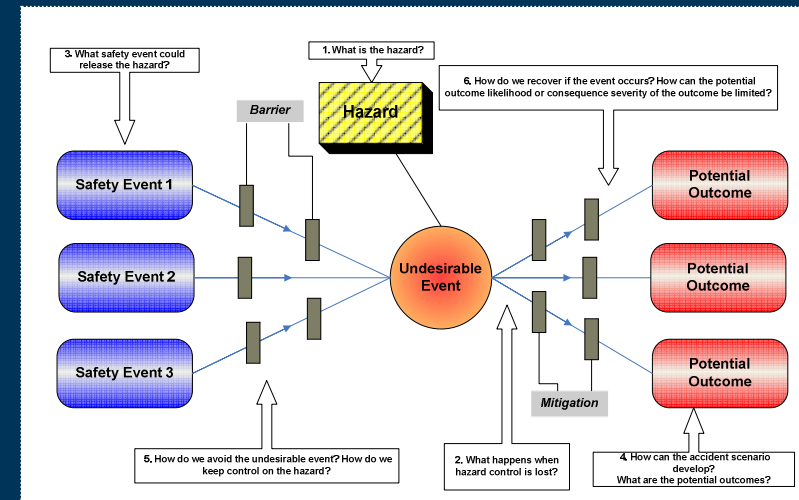
Safety knowledge contributed by

EUROCONTROL ICAO FLIGHT SAFETY FOUNDATION UKFSC esssi European Strategic Safety Initiative

# ECAST SMS WP 3 – Hazards Identification

## *Where guidance is probably most needed (Part 1)*

- **Simple, concise and useful materials on:**
  - ✦ **Definitions (hazard, risk, etc.)**
  - ✦ **Bow Tie as 'concepts organiser'**
  - ✦ **Hazards id. process**
  - ✦ **Hazards id. methods**



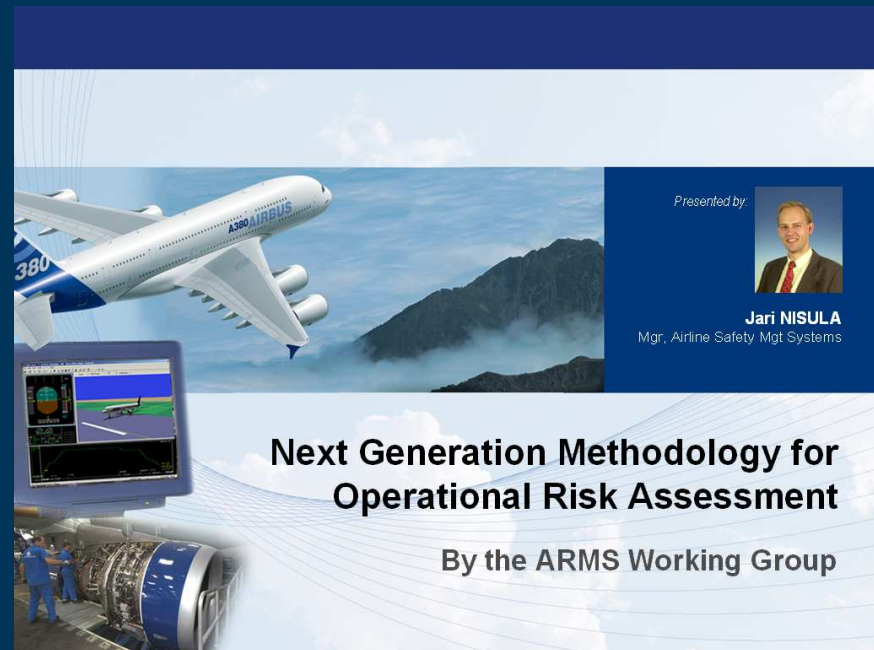
# ECAST SMS WP 4 – Risk Assessment

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**Full material soon  
on the ECAST website**

## *Where guidance is probably most needed (Part 2)*

- **ARMS: A new methodology for RA**
  - ✦ **Developed by the industry**
  - ✦ **Compatible with ICAO**
  - ✦ **Publicly available**

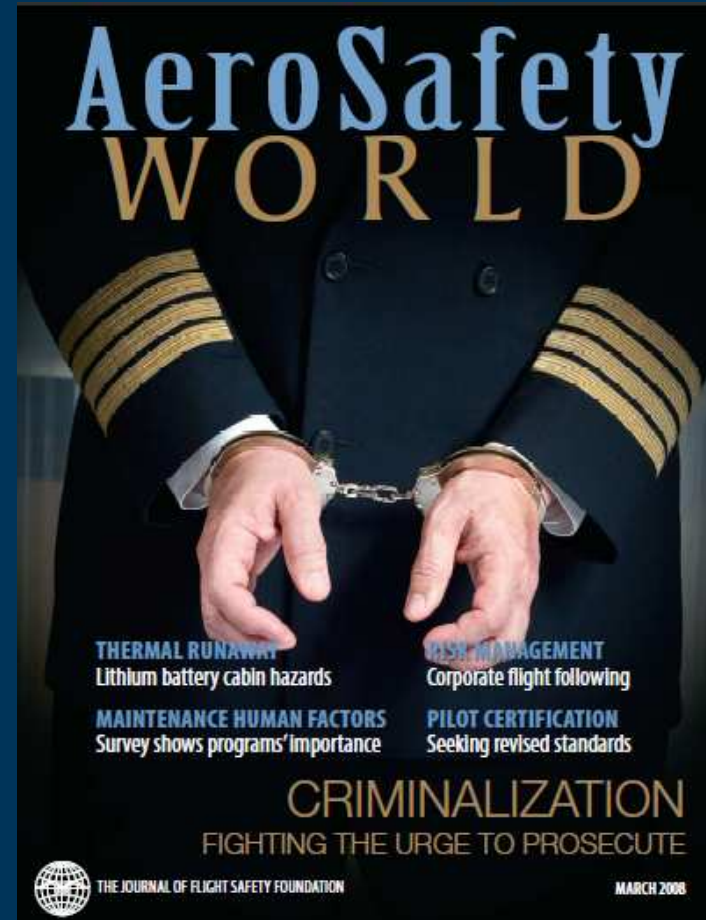


- **Contact: [jari.nisula@airbus.com](mailto:jari.nisula@airbus.com)**
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# Just Culture and Non-Criminalisation of accidents

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- Should ECAST produce a public statement?
- Activity led by Rich Jones, RAeS, UK FSC
- Subject also addressed by:
  - ✦ EC - DG TREN
  - ✦ EASA and EUROCONTROL
  - ✦ ICAO
  - ✦ ECAC
  - ✦ FAA
  - ✦ FSF



# International Collaboration on SMS

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- **WG by ICAO, FAA, TCCA, EASA**
  - **Objective: harmonization of SMS Principles (includes SMS and SSP)**
  - **Three Working Groups:**
    - ★ **Measurements**
    - ★ **Guidance Material (incl. by ECAST)**
    - ★ **Standard Taxonomy of Hazards**
-

# Plan

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- **ECAST SMS and Safety Culture**
- **ECAST Ground Safety**
- **ECAST Safety Analysis Team**
- **European Aviation Safety Programme**
- **Training**
- **ICAO High Level Safety Conference**
- **Implementation of CAST SEs in Europe**

# ECAST Ground Safety WG

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- **Terms of Reference:**

**Coordinate with existing initiatives and promote implementation in Europe of existing safety enhancement materials and plans**

- **Timeline: 2009 – 2010**

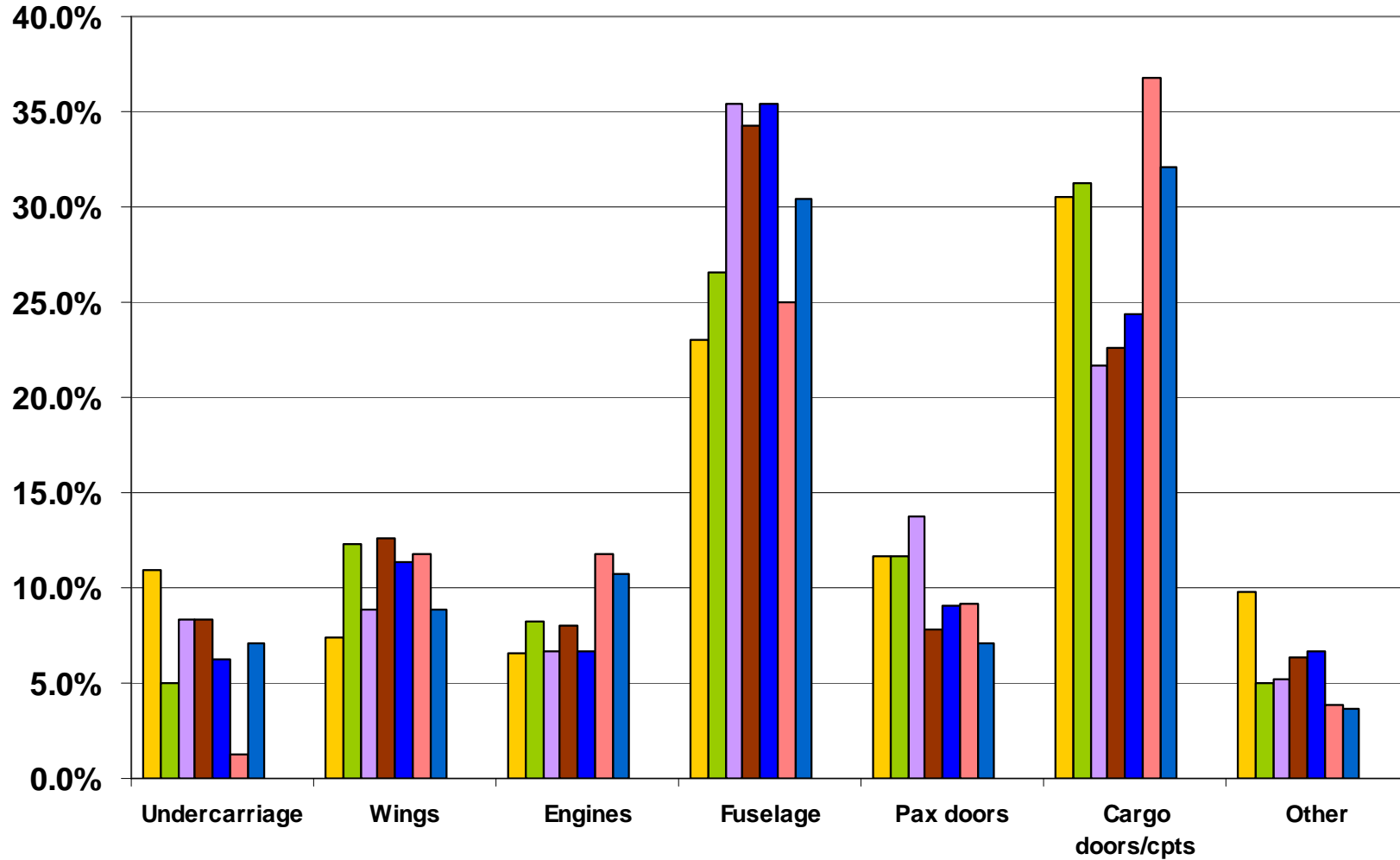
- **Chaired by Garth Gray, UK CAA, chair of the UK Ground Handling Operations Safety Team (GHOST)**

- **Good cross-sectorial participation: regulators, industry, associations; includes ACI and EU-OSHA**

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# Area of damage

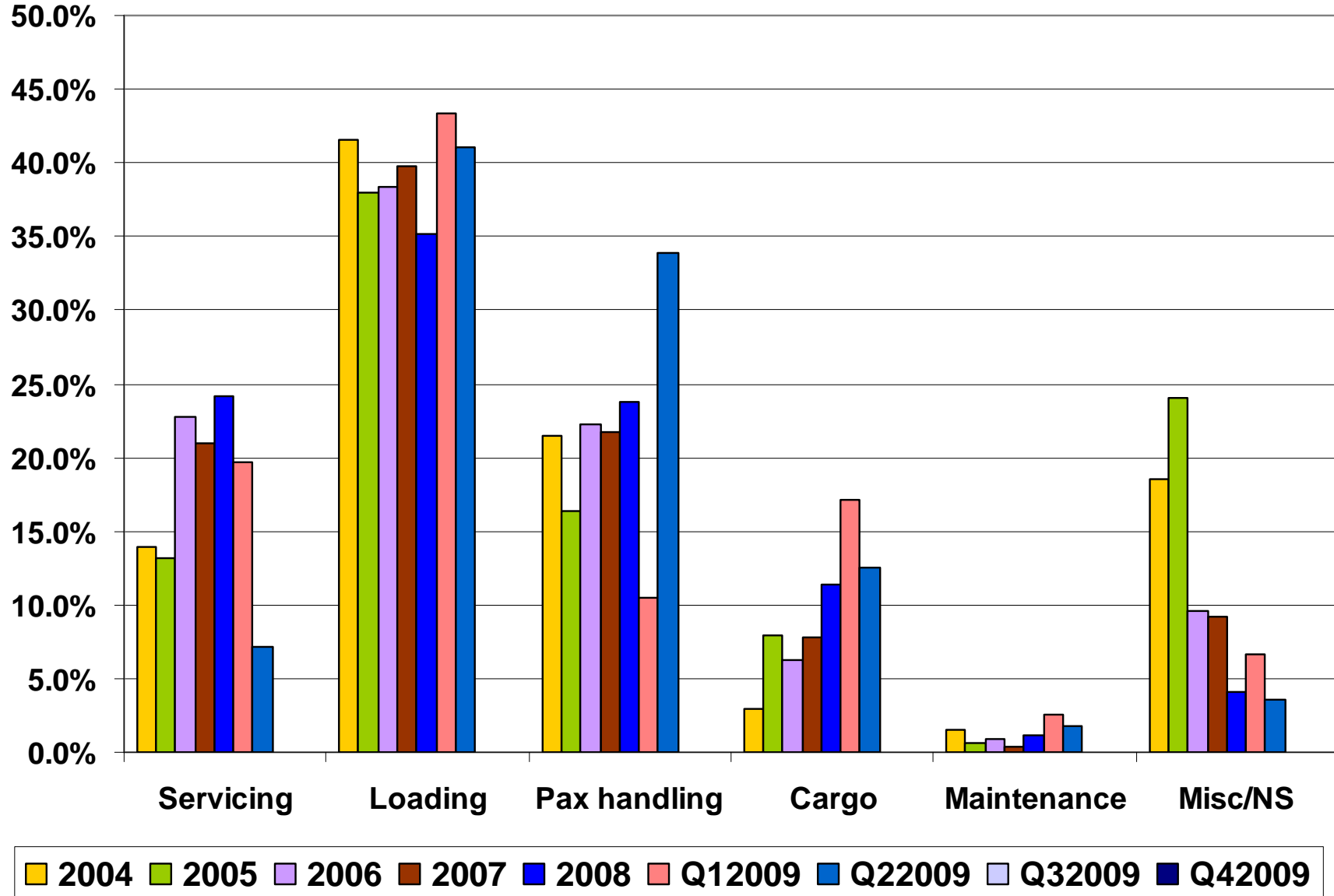
**AGDR (Source IAHA)**



■ 2004 
 ■ 2005 
 ■ 2006 
 ■ 2007 
 ■ 2008 
 ■ Q12009 
 ■ Q22009 
 ■ Q32009 
 ■ Q42009

# Equipment type

**AGDR (Source IAHA)**



# Emerging issues

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- **Shorter turn rounds**
  - **Tighter H&S regulation to protect workers**
  - **Present economic situation**
    - ✦ **Reduced numbers as costs are squeezed**
    - ✦ **Cost savings achieved by releasing the more expensive employees**
    - ✦ **“Low cost “ handling agents sometimes operating without complying with standards**
  - **No equipage and staff certification, and lack of standardised procedures**
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# WP 1 – Training

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- **WP 1 - Develop 'standardised' Ground Handling training concepts and syllabi**  
Led by Steve Enright, Servisair
  - ✦ **Deliverable due Dec 09**
- **In synergy with with UK GHOST**



- **Standardisation:**  
**Decision to use ISAGO training approach and material by IATA**
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# WP 2 – Human Factors

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- **Research the effect of Human Factors involved in ramp safety**

Performed by **A. Balk, NLR**, for **J. Bossenbroek, CAA NL**



Inspectie Verkeer en Waterstaat  
Ministerie van Verkeer en Waterstaat

ECAST GS WG

WP2 - Human Factors

- **Deliverable: Best practices on HF, due March 2010**
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# Plan

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- **ECAST SMS and Safety Culture**
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- **Implementation of CAST SEs in Europe**
- **More**

# ECAST-SAT-Methodology SG

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- **Terms of reference (appr. 25 Nov 08)**

**Methodology for the analysis of safety data to support a data-driven approach to the ECAST work**

- **Chaired by M. Piers, NLR/ATSI**
- **Risk-based approach using accident and incident data in ECCAIRS**
- **Method to be submitted to ECAST in Dec 09**

# Plan

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- **Implementation of CAST SEs in Europe**

# Training

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- **Training is attracting attention**
- **Activities and Conferences:**
  - ✦ **IATA Training & Qualifications Initiative (ITQI)**
  - ✦ **Annual FAA Intl. Safety Forum, 9-11 Sep**
  - ✦ **UK RAeS Flight Crew Training Conf., 23-24 Sep**
  - ✦ **EASA Conference on Pilot Training, 24 Nov**
- **Support from ECAST (specific action TBD)**

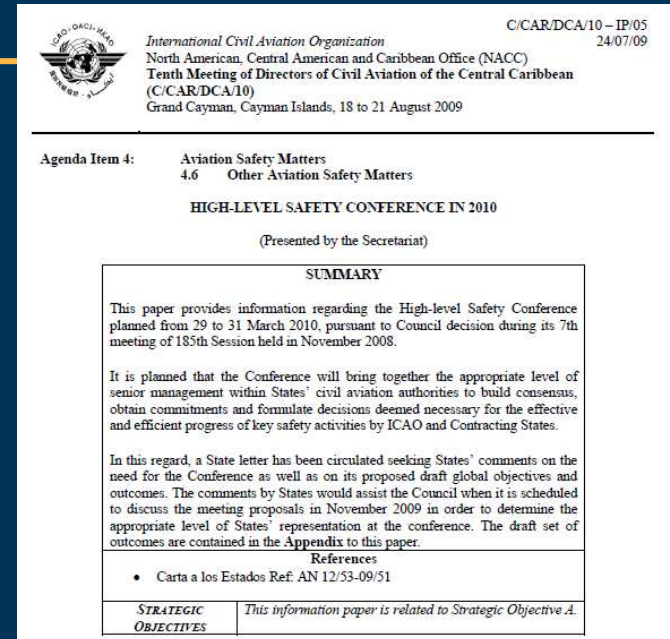
# Plan

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# ICAO High Level Safety Conference

- 29-31 March 2010, ICAO HQ
- Provisional topics:
  - ✦ Safety Performance Indicators
  - ✦ Training
  - ✦ Accident flight data
  - ✦ Risk based oversight
- EASA coordinating with EC, EUROCONTROL, and ECAC
- EASA paper on European Aviation Safety Program (EASP)



# Plan

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- **ECAST SMS and Safety Culture**
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- **ICAO High Level Safety Conference**
- **Implementation of US CAST SEs in Europe**

# Selection of US CAST APs of potential interest for ECAST

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- **Selection US CAST Safety Enhancements (SEs) with Detailed Implementation Plans (DIPs) for possible adoption by ECAST:**
    - ✦ **Remaining Risks**
    - ✦ **New CAST SE's resulting from new identified issues like Runway Confusion or Incursion**
  - **Category of Remaining Risks considered:**
    - ✦ **Cargo (2)**
    - ✦ **Icing (3)**
    - ✦ **Maintenance and Systems (3)**
    - ✦ **Wrong Runway Departure (3)**
    - ✦ **Risk Midair (1)**
    - ✦ **CFIT (1)**
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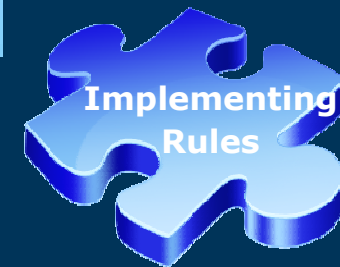
# Way Forward

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- **ECAST has to agree on what organisations will review the US CAST SE's**
- **The task will consist of:**
  - ✦ **Assessing relevance to Europe**
  - ✦ **Determining whether actions need to be taken**
  - ✦ **What actions need to be taken**
  - ✦ **Who is in charge of implementation and monitoring**
- **EASA Rulemaking will take part in the review**

# European Safety Strategy

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# European Commercial Aviation Safety Team



## **EASA**

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**Thank you!**