



**CAST Meeting
Aerospace Industries Association
2 April 2009**

What's new in ECAST?

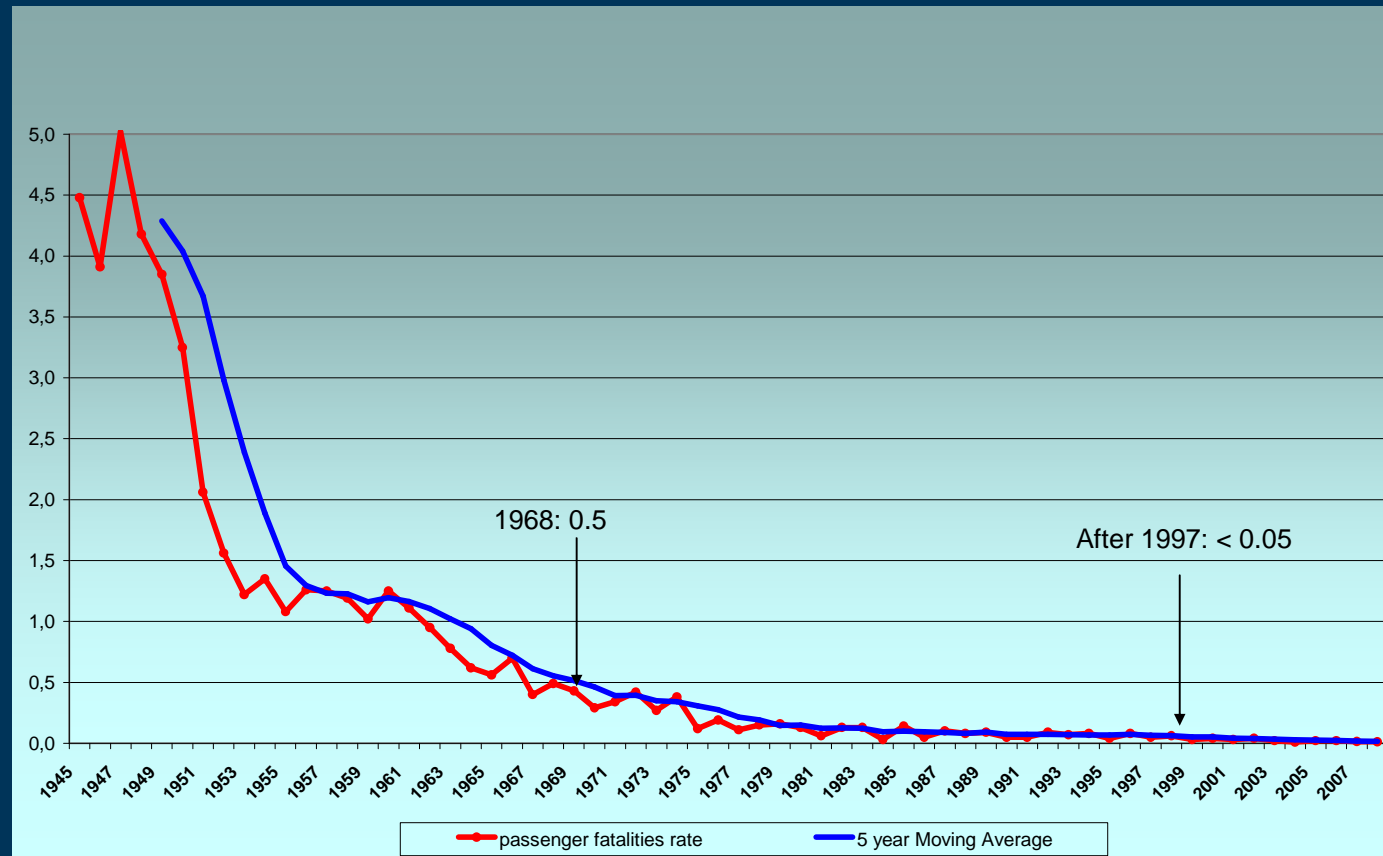
**J. Vincent, EASA
Head of Safety Analysis and Research Dpt.**

Plan

- **Preview of EASA Annual Safety Review 08**
- **ECAST SMS WG**
- **ECAST Ground Safety WG**
- **Other information**

Preview EASA Annual Safety Review 08

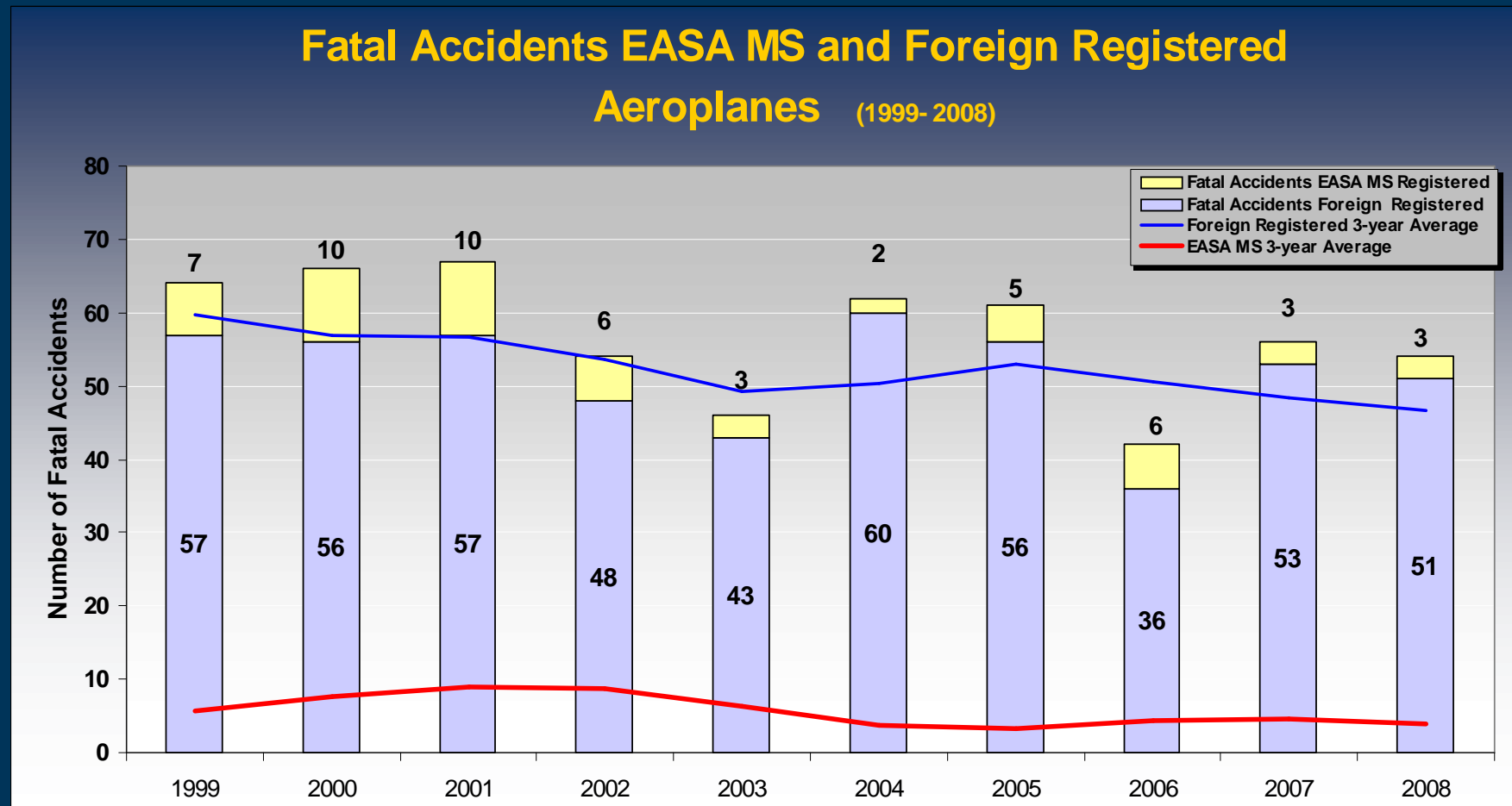
Commercial Air Transport - Aeroplanes



Global passenger fatalities per 100 million passenger miles, scheduled commercial transport operations, excluding acts of unlawful interference (1945-2008)

Preview EASA Annual Safety Review 08

Commercial Air Transport - Aeroplanes

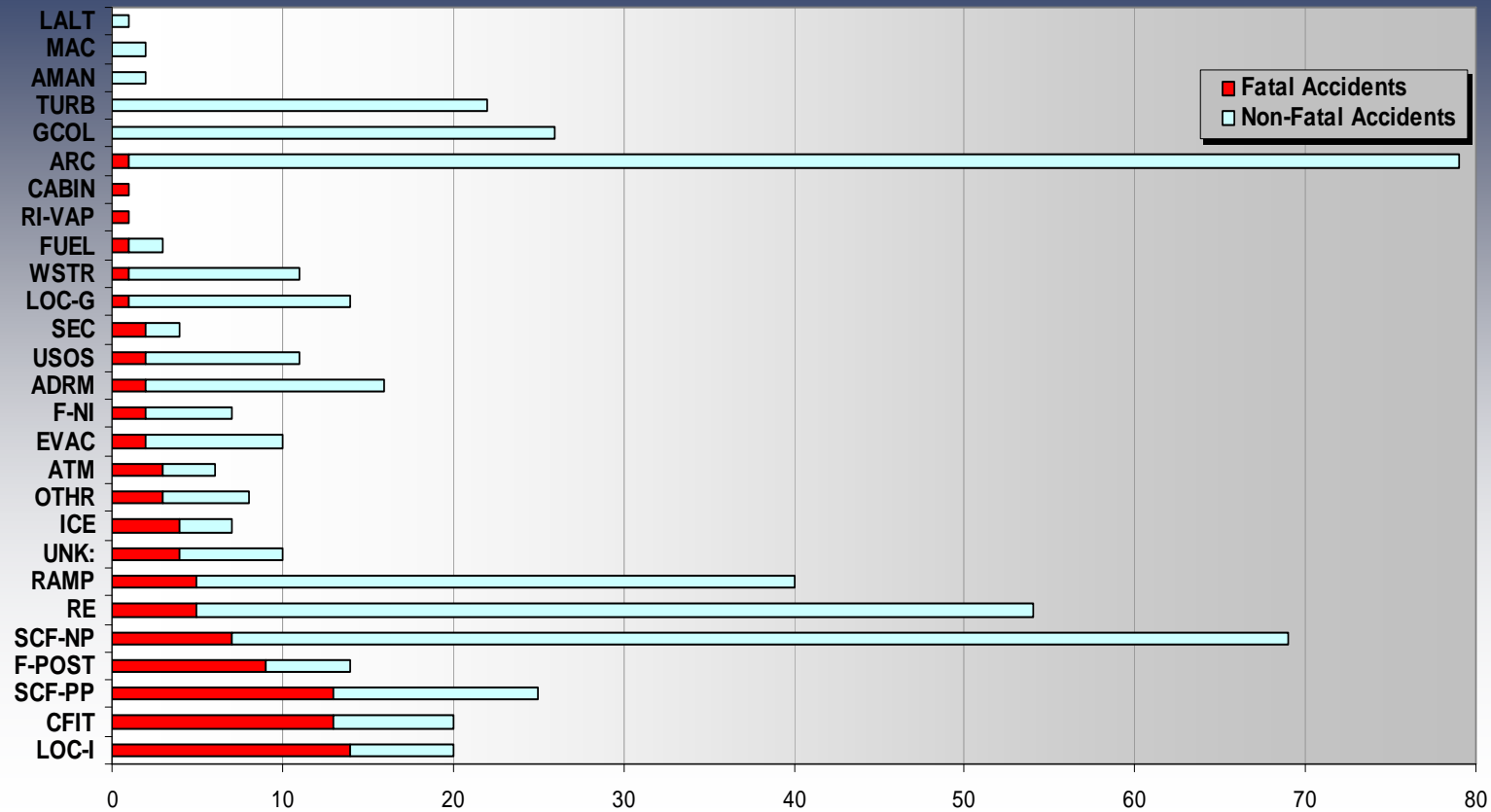


Preview EASA Annual Safety Review 08

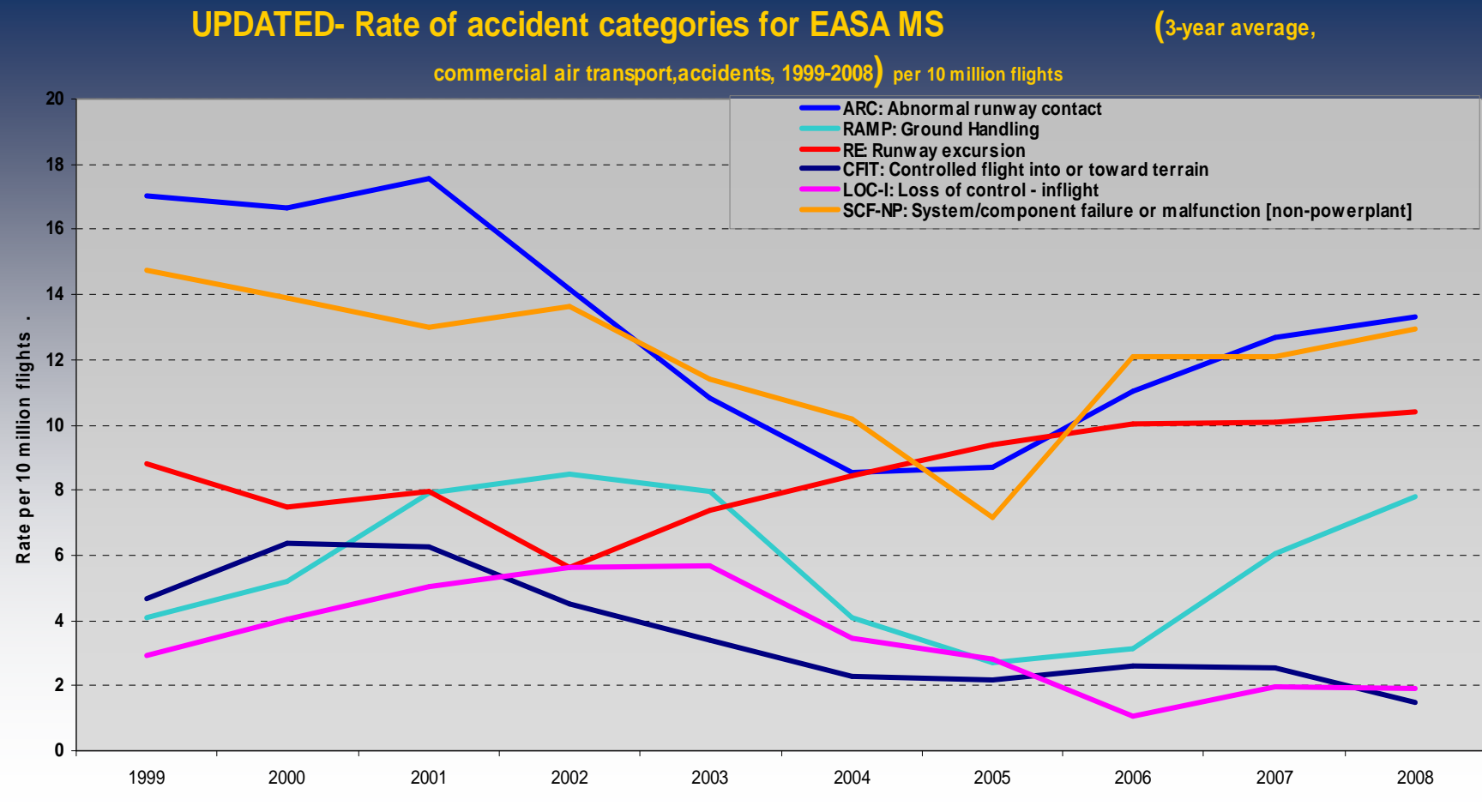
Commercial Air Transport – Aeroplanes EASA Member States

Accident Categories- EASA MS registered Aeroplanes (1999-2008)

CICTT Cats:



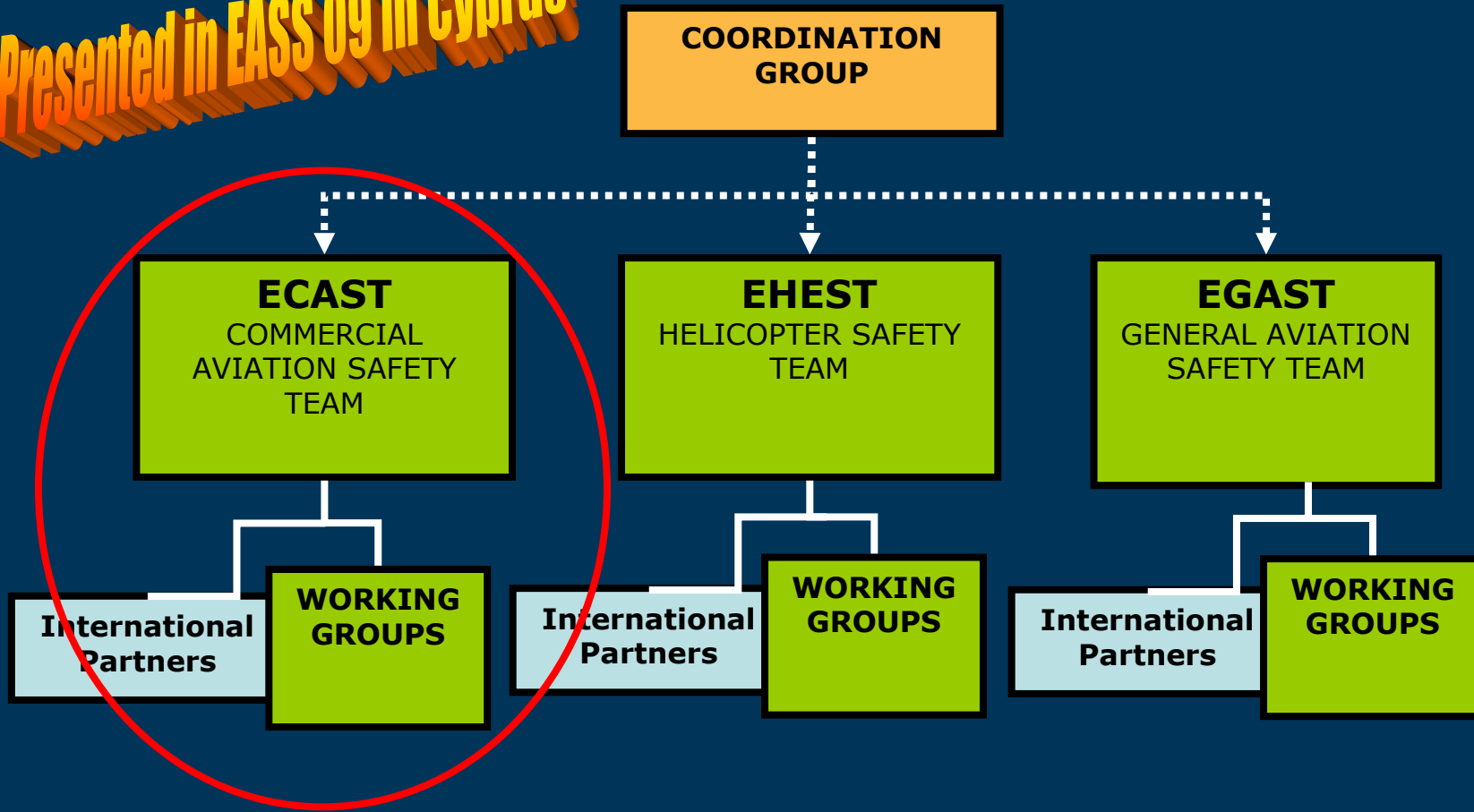
Commercial Air Transport- Accident Categories EASA MS



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- **ECAST SMS WG**
- **ECAST Ground Safety WG**
- **Other presentations made in ECAST#1-09 of 12 March**

Presented in EASS 09 in Cyprus



ECAST

Priorities 2008-2009



1. Ground Safety
2. Runway Safety
3. SMS & Safety Culture
4. Flight Crew Performance
5. Loss of Control (General)
6. Approach & Landing
7. Aviation System Complexity
8. Fire, Smoke and Fumes
9. Air-Ground Communications
10. Mid Air Collision
11. CFIT
12. Icing
13. Bird Strike
14. Loss of Control (Weight & Balance)
15. Air Navigation
16. Airworthiness (Maintenance & Design)
17. Maintenance (HF)
18. Automation

1. ECAST Ground Safety WG

- Launched in 2009

2. Runway Safety

- Through coordination with the Flight Safety Foundation Runway Safety Initiative (RSI)

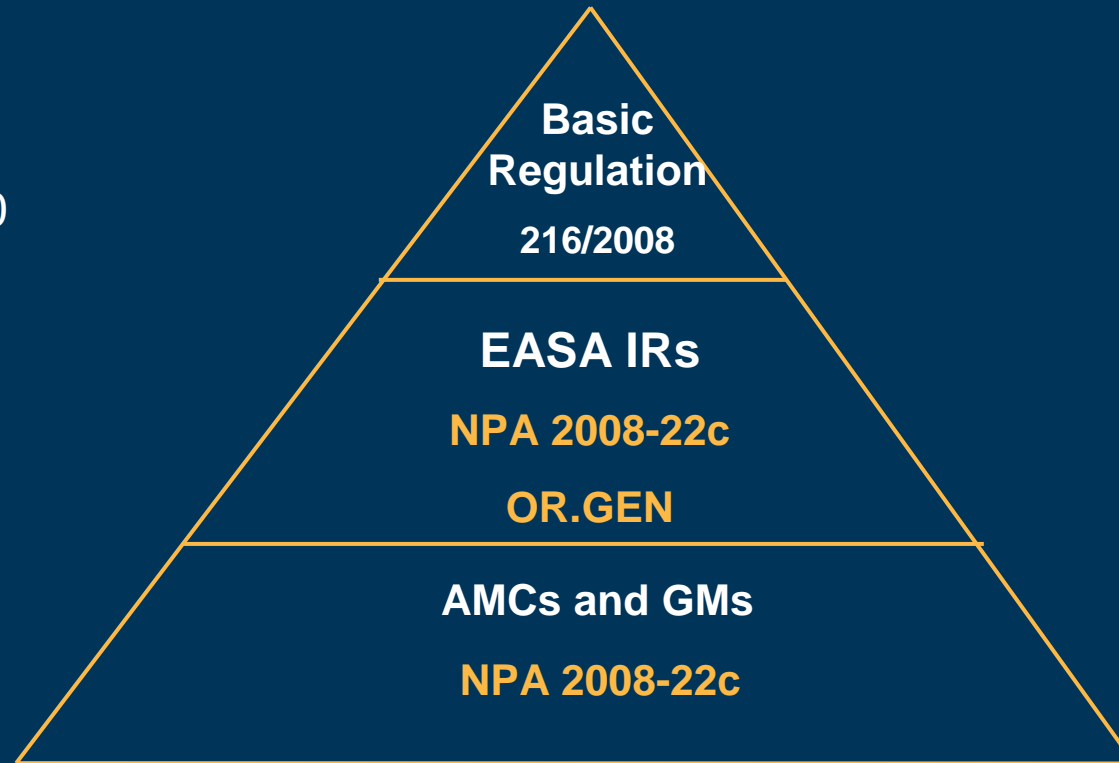
3. ECAST SMS / Safety Culture WG

- Launched in 2008

ECAST SMS WG

And the regulatory framework

ICAO
Annex 6 amdt 30
+
States Safety
Letter
+
Safety
Management
Manual



ECAST SMS WG tasked to provide (website based) best practices,
(not regulatory materials) in support to NPA 2008-22c

ECAST SMS WPs and materials

easa.europa.eu/essi

Published 1st April 09



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 (EHST), and the European General Aviation Safety Team (EGAST).

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

SMS WP 1 – Review of SMS and Safety Culture materials

➤ References to existing Regulations and Materials related to (Safety) Management Systems

➤ Safety Management Best Practices in ATM, Airline and Airport Operations

➤ Safety Culture framework

➤ Published on SKYbrary:

www.skybrary.aero/index.php/Category:Safety_Management



SMS WP 2 – Best practices and examples of organisations

➤ Practical guidance on organisation for safety

➤ Method:

- ★ Questionnaire airlines

- ★ Literature review

➤ Deliverables:

- ★ Guiding Principles

- ★ Example of organisational charts from reference sources



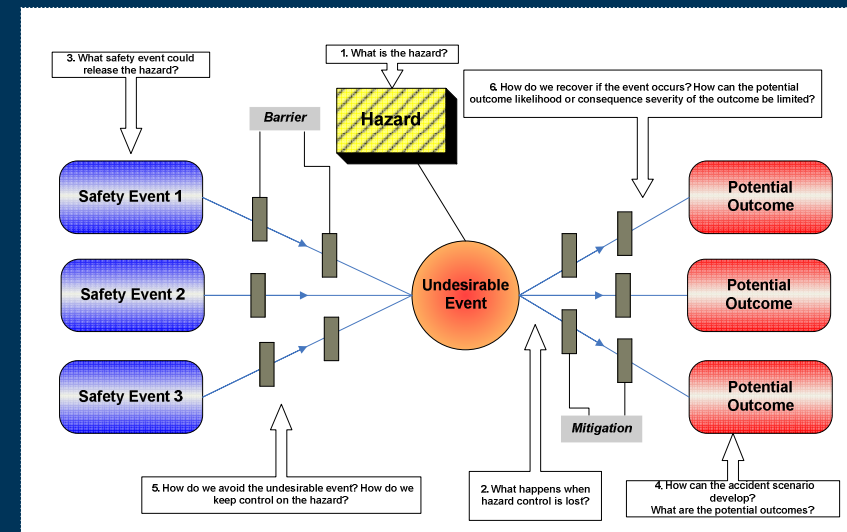
'Guiding Principles'

- **1. Full Safety Accountability at the Top (the Accountable Executive – e.g. Chief Executive Officer)**
 - **2. Supported by independent Safety Support Function with full authority from the Top**
 - **3. Individuals within the Safety Support Function should have respect and influence**
 - **4. Formal communications from the Top to the Safety Support Function**
 - **5. Actions necessary to support the SMS should be managed throughout the organisation**
 - **6. Safety accountabilities and responsibilities should be documented and understood by the incumbents**
-

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



SMS WP 4 – Risk Assessment

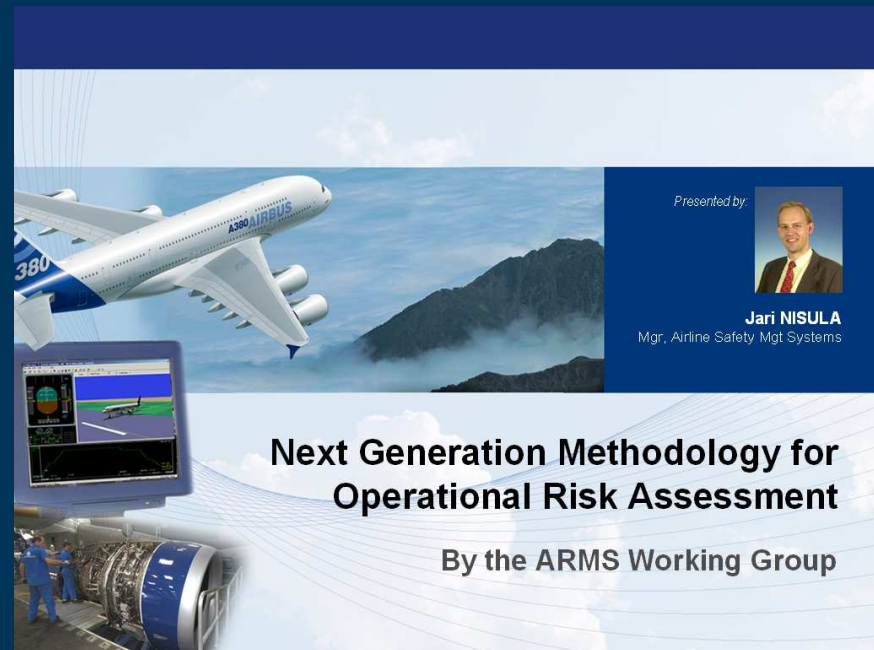
Where guidance is probably most needed (Part 2)

➤ **A new methodology**

- ✦ **Developed by the industry**
- ✦ **ICAO compatible**
- ✦ **Publicly available**

➤ **Published on:**

www.skybrary.aero/index.php/Category:Safety_Management



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ECAST Ground Safety WG

NEW

- **KO meeting 10 Feb 2009, Cologne**
- **Chaired by Garth Gray, UK CAA, chair of the UK Ground Handling Operations Safety Team (GHOST)**
- **Coordinating with IATA Safety Audit of Ground Operations (ISAGO)**
- **Good cross-sectorial participation: regulators, industry, associations; includes ACI and EU-OSHA**

Ground Safety Working Group

➤ **Tasks:**

★ **Generic**

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

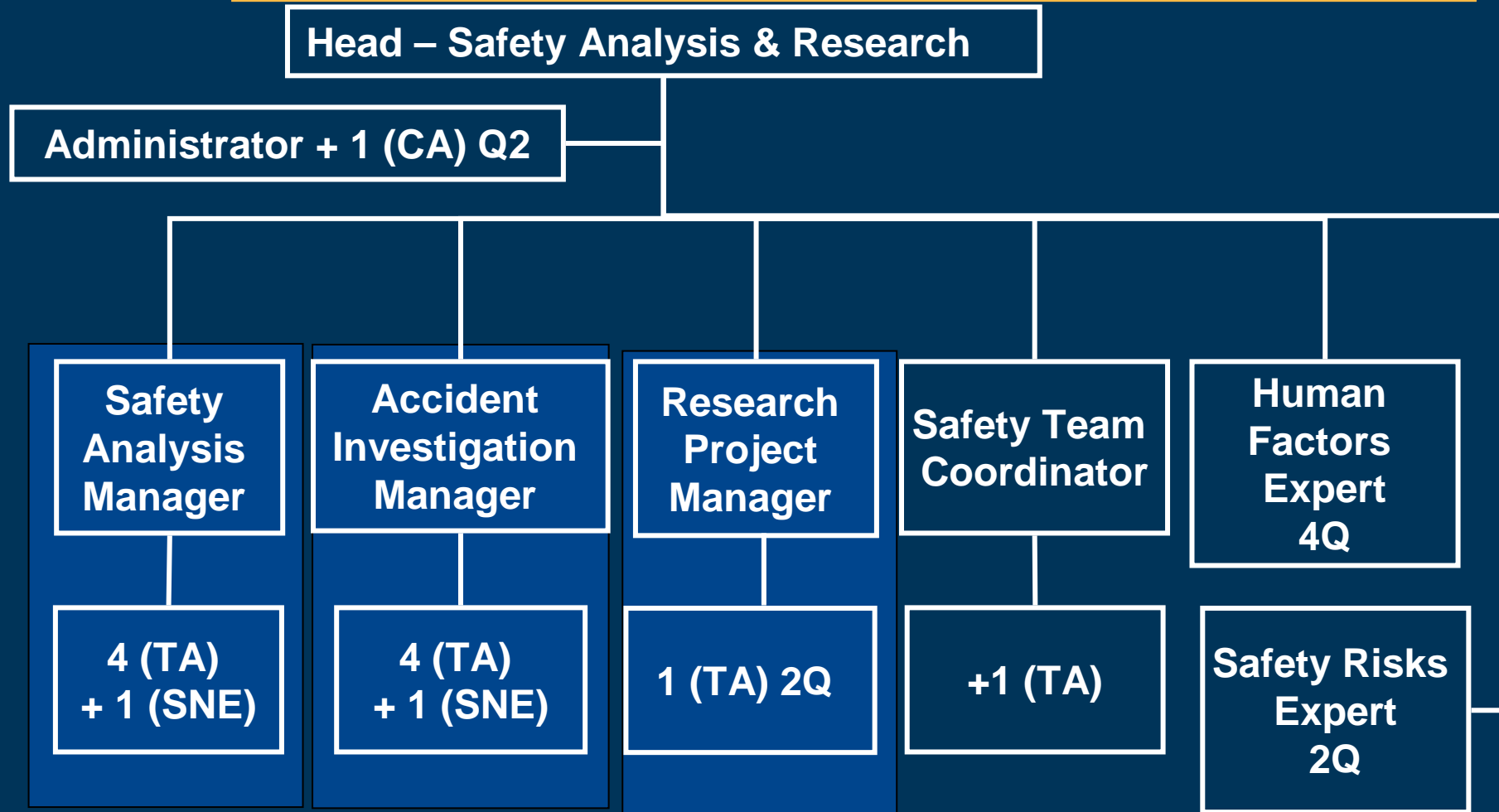
★ **Specific**

- ➔ **WP 1 - Develop 'standardised' Ground Handling training concepts and syllabi**
Led by Steve Enright, Servisair
- ➔ **WP2 - Research the effect of Human Factors involved in ramp safety**
Led by J. Bossenbroek, CAA NL

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EASA E2 Department – 2009





EASA extension to the safety of aerodromes

ECAST#1-09

Köln, 12 March 2009

Filippo Tomasello (EASA – R5)



Scope of EASA: Article 1

- 1(c) design, maintenance, and operation of **aerodromes, as well as personnel and organisations involved therein** and, without prejudice to Community and national legislation on environment and land-use planning, the **safeguarding of surroundings of aerodromes**
- 1(d) **design, production and maintenance of aerodrome equipment**, as well as personnel and **organisations involved therein**
- 1(e) **design, production and maintenance of systems and constituents** for Air Traffic Management and Air Navigation Services (ATM/ANS), as well as personnel and **organisations involved therein**
- 1(f) ATM/ANS, as well as personnel and organisations involved therein.



Aerodrome surroundings

- **Operator to monitor surroundings, and to implement restriction to operations if necessary**
- **Land use planning and, if necessary, elimination of obstacles or other hazardous activities, is responsibility of States**

Requirements
in ERs
C



Ground handling

- implementation of ERs is responsibility of owner, operator, organisations and personnel providing services or the equipment producers
- **arrangements with organisations need to be in place (with ground handlers & ATS)**
- management systems to be implemented by all aerodromes, but “proportional to “size, nature and complexity” via IRs .

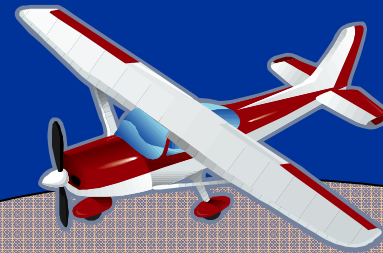
Explicit
and
controlled
interfaces

Subcontractors
under
oversight by
certified
organisation

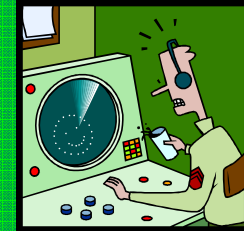
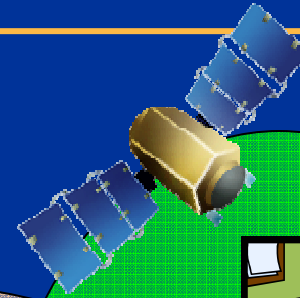


Systems and equipment

**Total
system
approach
is
necessary!**



Aircraft parts



ANS/ATM
systems



Aerospace
Ground Support
Equipment

**Aerodrome
Equipment**




Flight Standards Rulemaking Overview

Ivan-David Nicolas
European Aviation Safety Agency
Flight Standards Department
Rulemaking Directorate



The EASA NPA schedule

NPAs	Nr	Consultation period	
		from	to
FCL	2008-17(a)-(c)	05.06.2008	28.02.2009
AR/OR	2008-22(a)-(f)	NPA 2008-22a-22e (Authority and Organisation Requirements)	
OSC	2009-01	NPA 2009-01 (Operational Suitability Certificate)	
 OPS	2009-02	NPA 2009-02a-02g (Air Operations)	
TCO		tbd.	

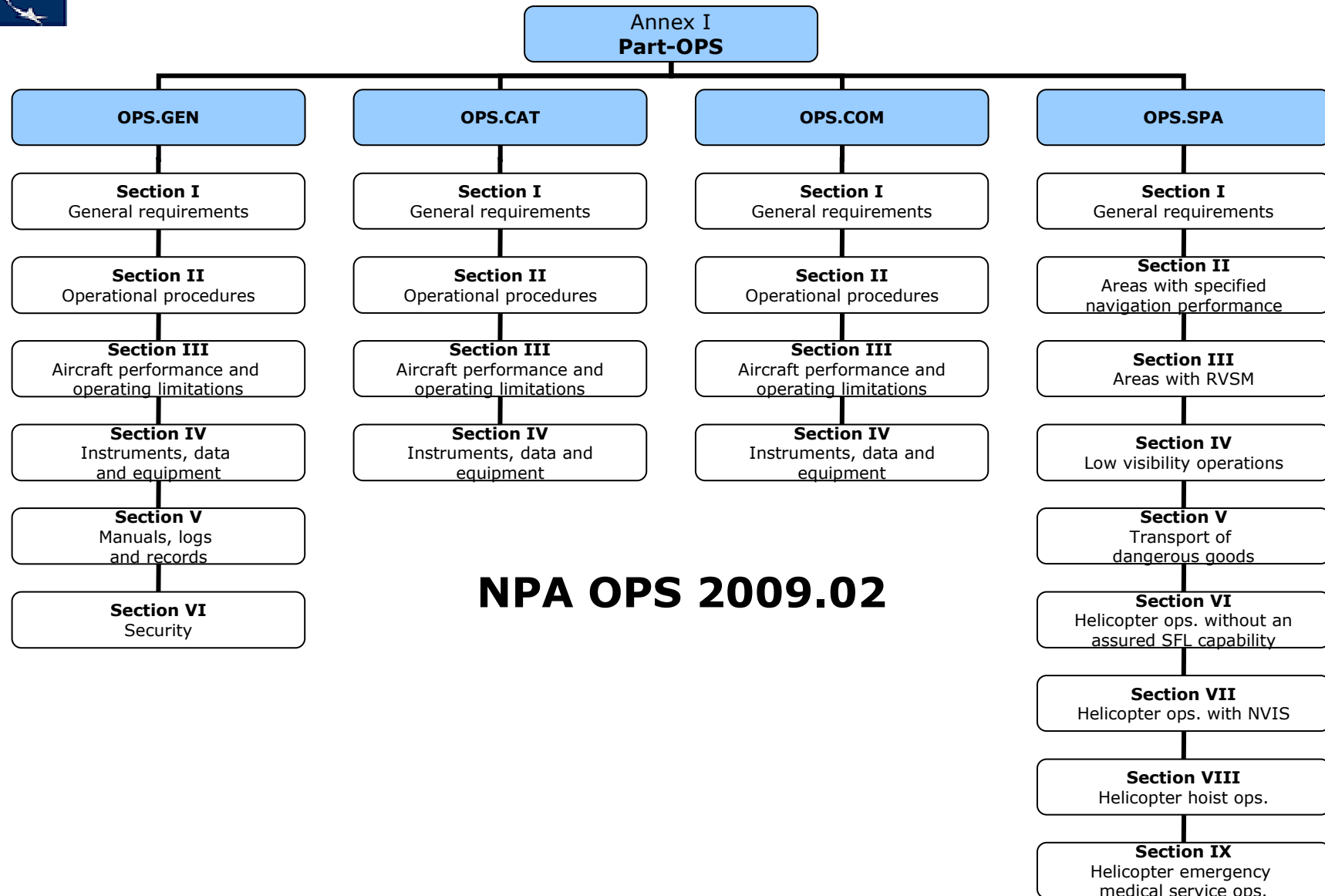
28 May 09

30 June 09

31 July 09



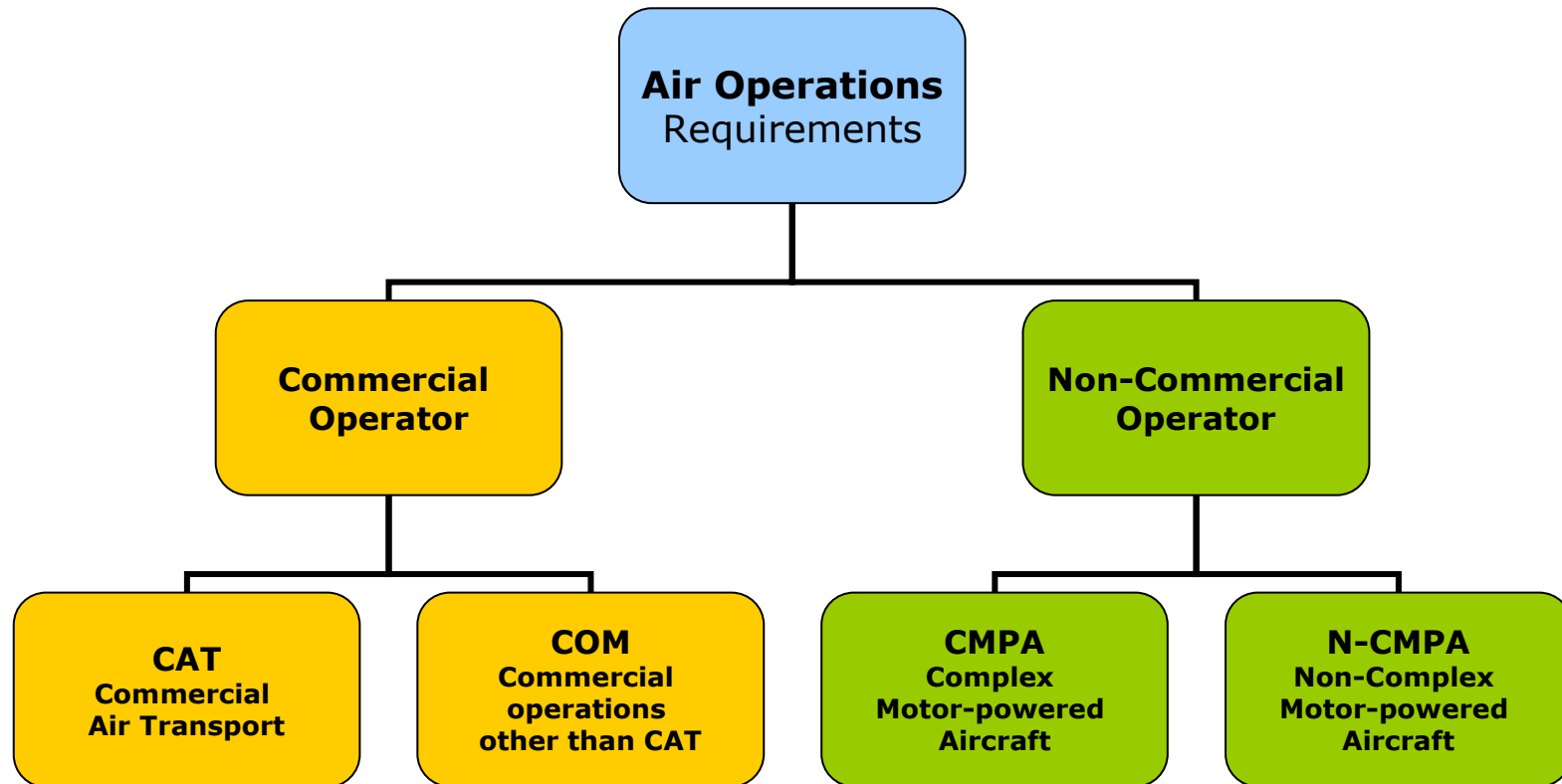
Overview of Part-OPS



NPA OPS 2009.02



Operator classification





Scope of requirements for operators

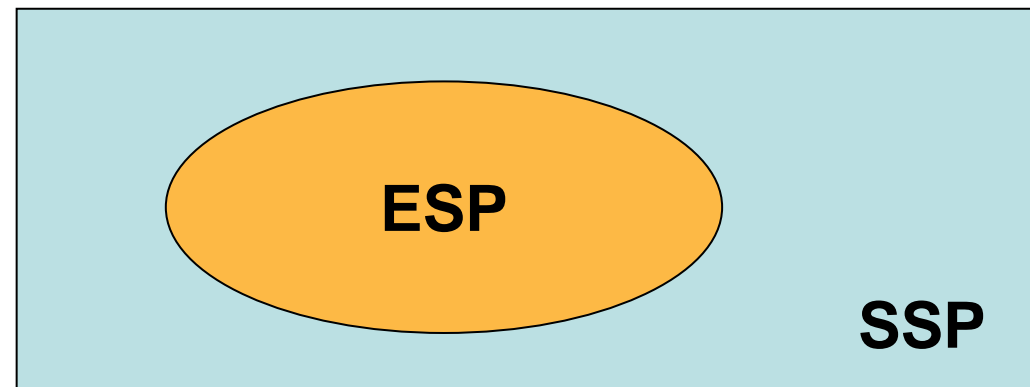
	Commercial Operator		Non-commercial Operator	
	CAT	COM	CMPA	N-CMPA
OPS.GEN	✓	✓	✓	✓
OPS.CAT	✓			
OPS.COM		✓		
OPS.SPA	✓	✓	✓	✓
OR.GEN	✓	✓	✓	
OR.MS	✓	✓	✓	
OR.OPS.GEN	✓	✓	✓	
OR.OPS.MLR	✓	✓	✓	
OR.OPS.DEC			✓	
OR.OPS.AOC	✓	✓		
OR.OPS.FC	✓	✓	✓	
OR.OPS.CC	✓		✓	
OR.OPS.TC	✓	✓	✓	
OR.OPS.FTL	✓	✓	✓	
OR.OPS.SEC	✓	✓	✓	



Other highlights

**Increasing collaboration w/ ICAO/FAA/TCCA
on SMS/State Safety Programme (SSP)**

**Going on with work on European Safety
Programme (ESP)**





ECAST-SAT Methodology Team

Status report

Michel Piers, NLR Air Transport Safety Institute



Preparing the for the next step

NLR Air Transport Safety Institute

Research & Consultancy

Membership open, currently BRT&E, UK-CAA, NL-DfT, EASA,
NLR Air Transport Safety Institute, ENAC, EUROCONTROL, AIRBUS

The deliverables will be a single report and a presentation to the
ECAST-SAT

Finish by June 2009

*Very much an exploratory group, will adapt approach as
needed, but shall deliver by June*



European Commercial Aviation Safety Team



EASA

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Thank you!

