



EUROPEAN HELICOPTER SAFETY TEAM - EHST

D A Howson – UK CAA

Based on a presentation given by EASA at the September
2007 International Helicopter Safety Symposium



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EHEST within IHST

EHEST is:

- **the European Helicopter Safety Team**
- **the European branch of the International Helicopter Safety Team (IHST)**
- **Committed to the IHST objective of reducing the helicopter accident rate by 80 percent by 2016 worldwide**
 - **With emphasis on improving European safety**

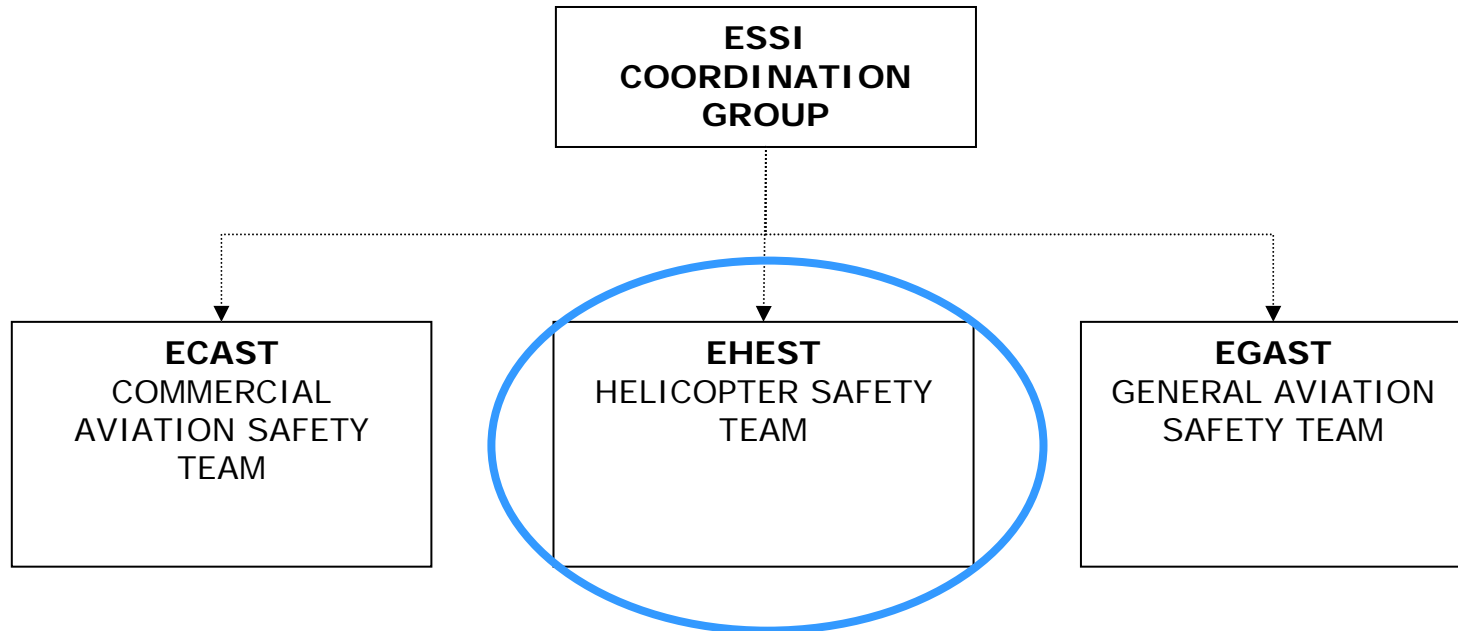


EHEST within ESSI

- **EHEST is the helicopter component of the European Strategic Safety Initiative (ESSI)**
- **ESSI is an industry/regulators partnership for enhancing aviation safety in Europe based on voluntary commitment**
- **Facilitated – *not owned* - by EASA and powered by industry**



EHEST within ESSI



- **Commercial Aviation (ECAST)**
 - Working with CAST and the ICAO COSCAP
- **Rotorcraft (EHEST)**
 - Working within IHST
- **General Aviation (EGAST)**
 - Will work with national initiatives within Europe

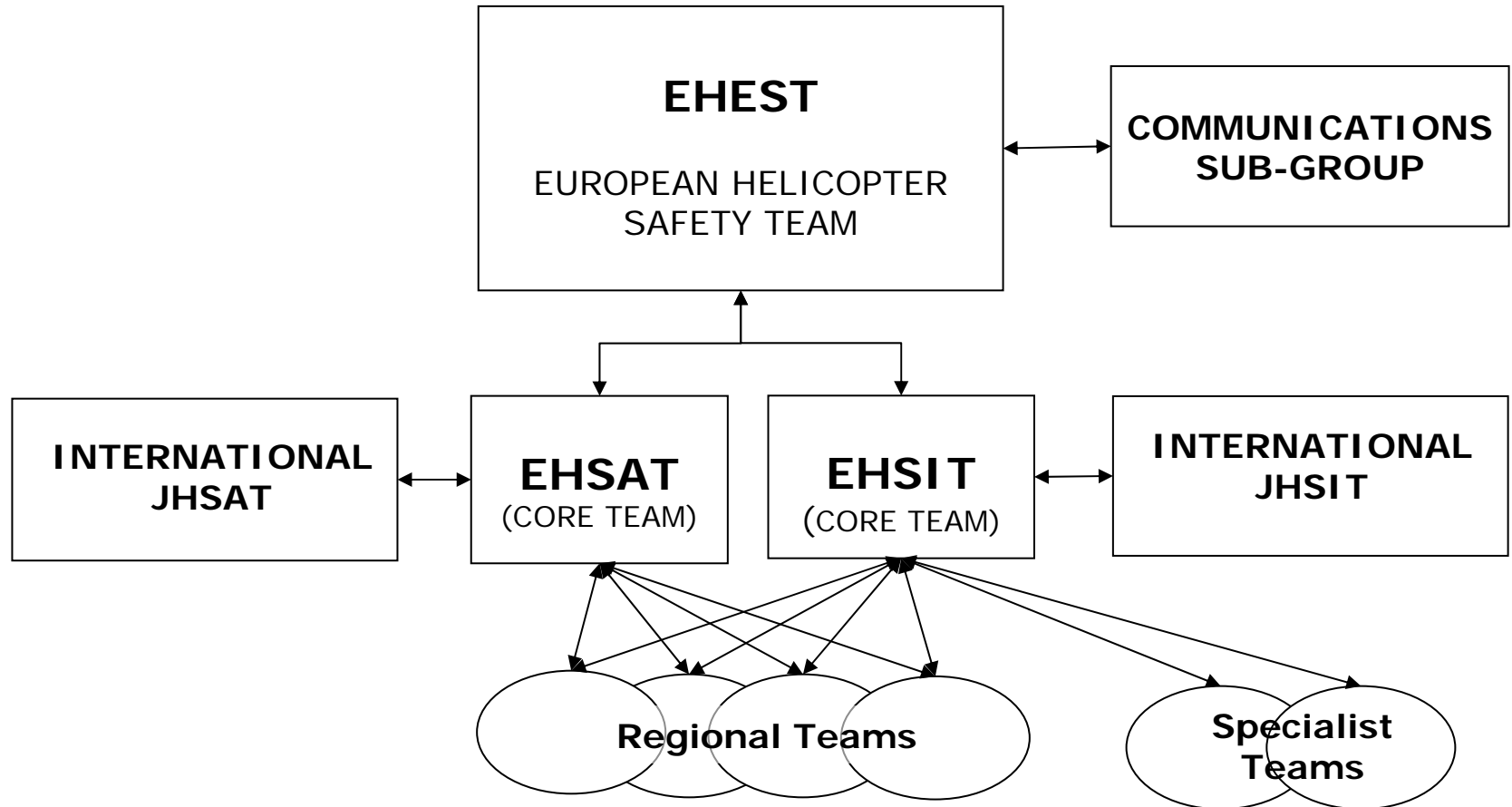


EHEST Composition

- **EHEST features representatives of OEMs, operators, regulators, helicopter interest groups, accident investigators, and military from across Europe**
- **Governance**
 - Regulators co-chair: M. Masson, EASA Safety Action Coordinator
 - Industry co-chairs: Jean-Pierre Dedieu, Eurocopter, and Captain John Black, EHOC
 - Secretary: C Audard
Safety Team Support Officer

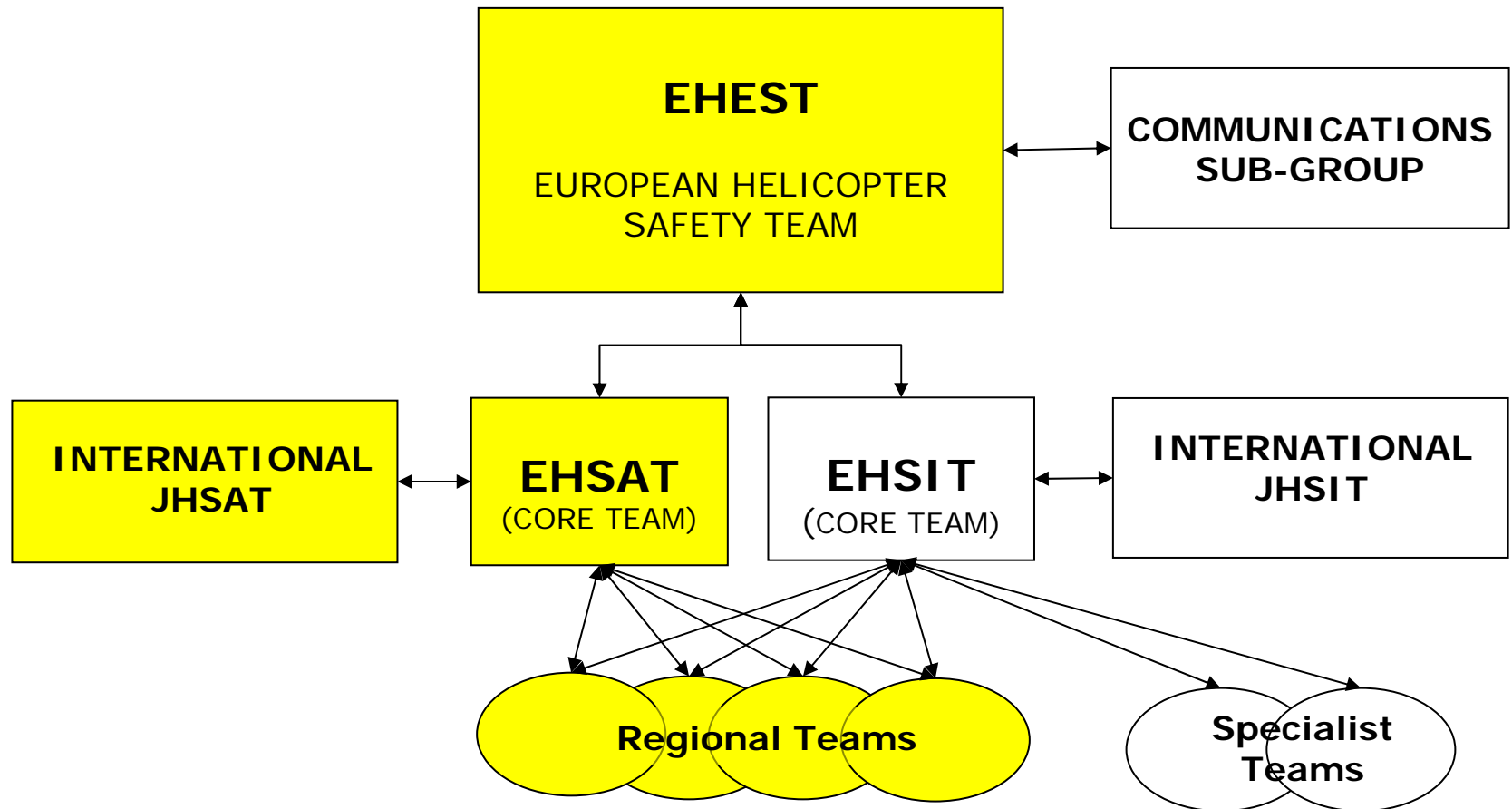


EHEST Organisation - Overview





EHEST Organisation - EHSAT





EHSAT

- **The European Helicopter Safety Analysis Team (EHSAT) is the EHEST team responsible for accident data analysis**
- **EHSAT has been formed with the purpose of:**
 - Developing a process for the analysis of European helicopter accidents
 - Performing this analysis, similar to function of the JHSAT part of the IHST in the USA
NB: Analysis carried out in Europe designed to be compatible with the work of the JHSAT
- **Comprises a Core Team and a series of Regional Teams**



EHSAT Core Team

- **At least one representative from every EHSAT Regional Team**
- **EHSAT Core Team tasks/functions:**
 - Regional Team representatives report results and experiences
 - Check and aggregate of results (quality control)
 - Revise the taxonomies, tool and process manual (standardisation)
 - Training of EHSAT Regional Teams
 - Report to EHEST
 - Coordination with JHSAT and International Analysis Teams

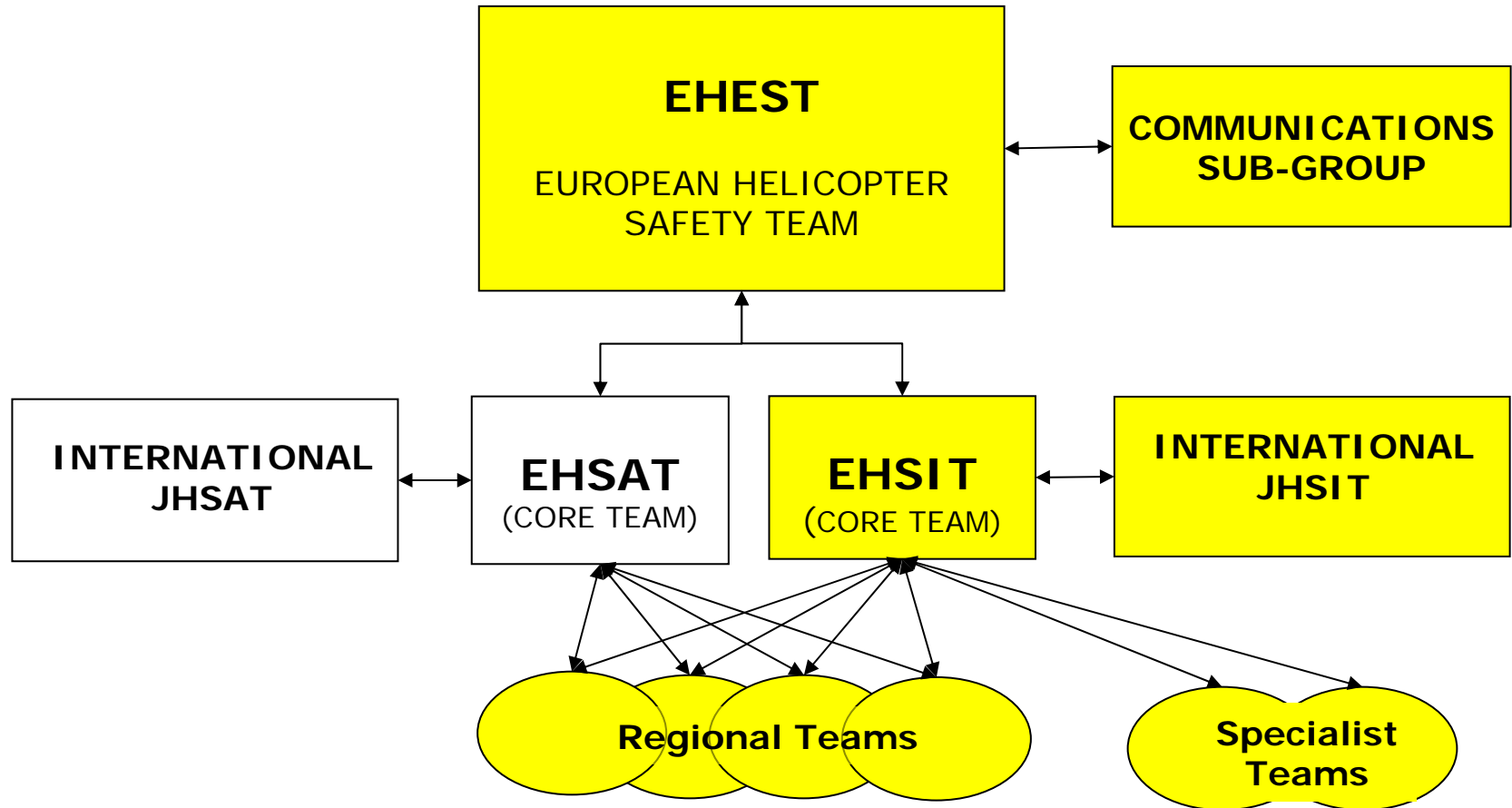


EHSAT Regional Teams

- **Regional Teams formed:**
 - UK, Germany, France, Italy, Switzerland, Spain, Nordic countries
- **Regional Teams formed to analyse 'local' accident reports for EHSAT**
 - Maximizes resources (less travelling)
 - Relations between local parties already established
 - Participants aware of local context
 - Different languages used
- **Team composition - best if balanced:**
 - Recommended members : NAA, AIB, Operator, Manufacturer, Pilot association, Military, GA community



EHEST Organisation - EHSIT





EHSIT

- **The European Helicopter Safety Implementation Team (EHSIT) is the EHEST team responsible for devising and implementing safety enhancements**
- **EHSIT has been formed with the purpose of:**
 - Consolidating intervention recommendations identified by the analysis performed by EHSAT
 - Establishing safety enhancements to address the intervention recommendations
- **Comprises a Core Team and a series of Regional Teams and Specialist Teams**



EHSIT Core Team

- **At least one representative from every EHSIT Regional Team**
- **EHSIT Core Team tasks/functions:**
 - Coordinate Regional Teams and Specialist Teams
 - Consolidate intervention recommendations produced by EHSAT analysis
 - Review safety enhancements proposed by Regional Teams and Specialist Teams
 - Review safety enhancements produced by JHSIT
 - Agree safety enhancements and propose to EHEST for approval
 - Pass approved safety enhancements to Regional Teams and/or Specialist Teams as appropriate for action
 - Monitor progress and report to EHEST



EHSIT Regional & Specialist Teams

- **Regional teams:**
 - Same teams as EHSAT Regional Teams
 - Propose safety enhancements for consideration by EHSIT Core Team
 - Facilitate implementation of voluntary safety enhancements
 - Communicate with local communities (e.g. via HMLC, ONLC, SHSG, HSRMC & ASTG in the UK)

- **Specialist Teams:**
 - Specialist Teams to be set up may include HEMS, regulatory, OEMs, training, offshore ops



Dataset

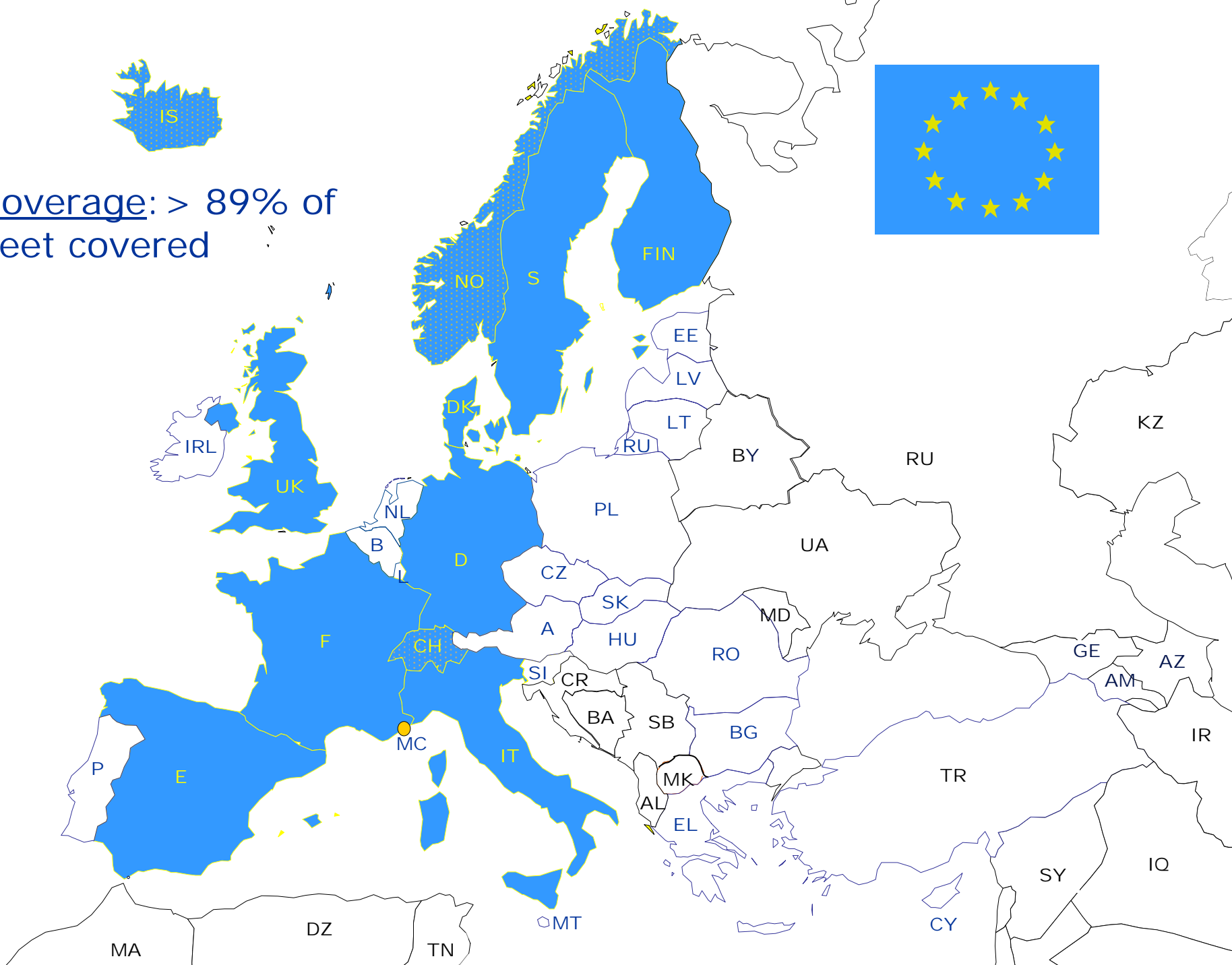
- **EHSAT will focus on**
 - Accidents (definition ICAO Annex 13)
 - With date of occurrence starting from 2000 to 2005
 - With helicopters registered in Europe
 - And State of accident located in Europe
- **The scope could be expanded to include for example older accidents or incidents**
 - UK reviewing all AAIB 'yellow cover' accident reports plus bulletins with at least an AAIB field investigation from 2000 to present



Percentage of Fleet Covered

- **With UK, Germany, France, Italy, Switzerland, Spain, Nordic countries this represents 89% of the current European fleet**
- **Expanding as new countries join**
- **Challenges:**
 - Multiple languages and operations
 - Multiple authorities: EASA, NAAs and AIBs

Coverage: > 89% of
fleet covered





Top Safety Issues

- **EHEST members submitted their 'top 10' safety issues**
- **Will mainly be used to check and enrich the EHSAT results**
- **No implementation work will start before analysis of 'core' dataset complete**
- **Analysis results can influence, starting end of 2007:**
 - EASA research programme
 - EASA rule making programme



Top Safety Issues

Main issues (not prioritised):

- Pilot disorientation in flight during night operations or inadvertent entry into IMC
- Controlled Flight into Terrain (CFIT)
- Wire strikes
- Air proximities/near misses/mid-air collisions
- Personal protection equipment and survivability
- Design issues
- Maintenance issues

Human factors and training are not explicitly listed but play an essential role in most of these issues

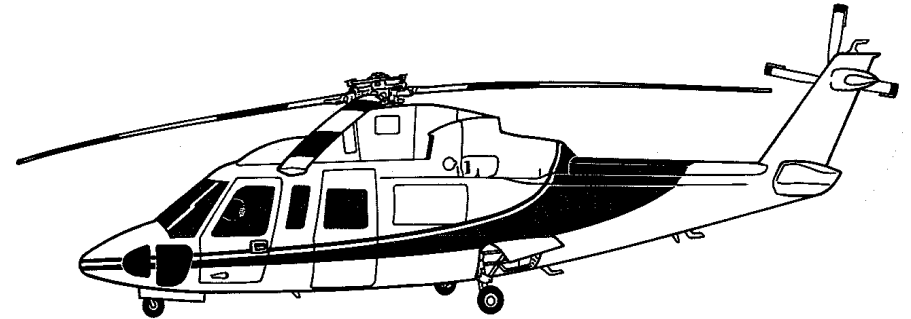


Work Programme

- **EHSAT to complete analysis of 'core' data set for presentation to Sept 2009 IHSS**
- **EHSAT to continue analysing accidents to update database and monitor for effectiveness of safety enhancements**
- **EHSIT to establish preliminary set of safety enhancements for presentation to Sept 2009 IHSS**
- **Establish EHEST Communications Sub-Group – launch meeting Sept 2009**



European Aviation Safety Agency



Questions?

www.easa.europa.eu/essi

www.ihst.com