



Network Manager
nominated by
the European Commission



SKYbrary and Safety Learning

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SKYbrary celebrates its 10th anniversary!

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

SKY
brary
www.skybrary.aero

The values of SKYbrary

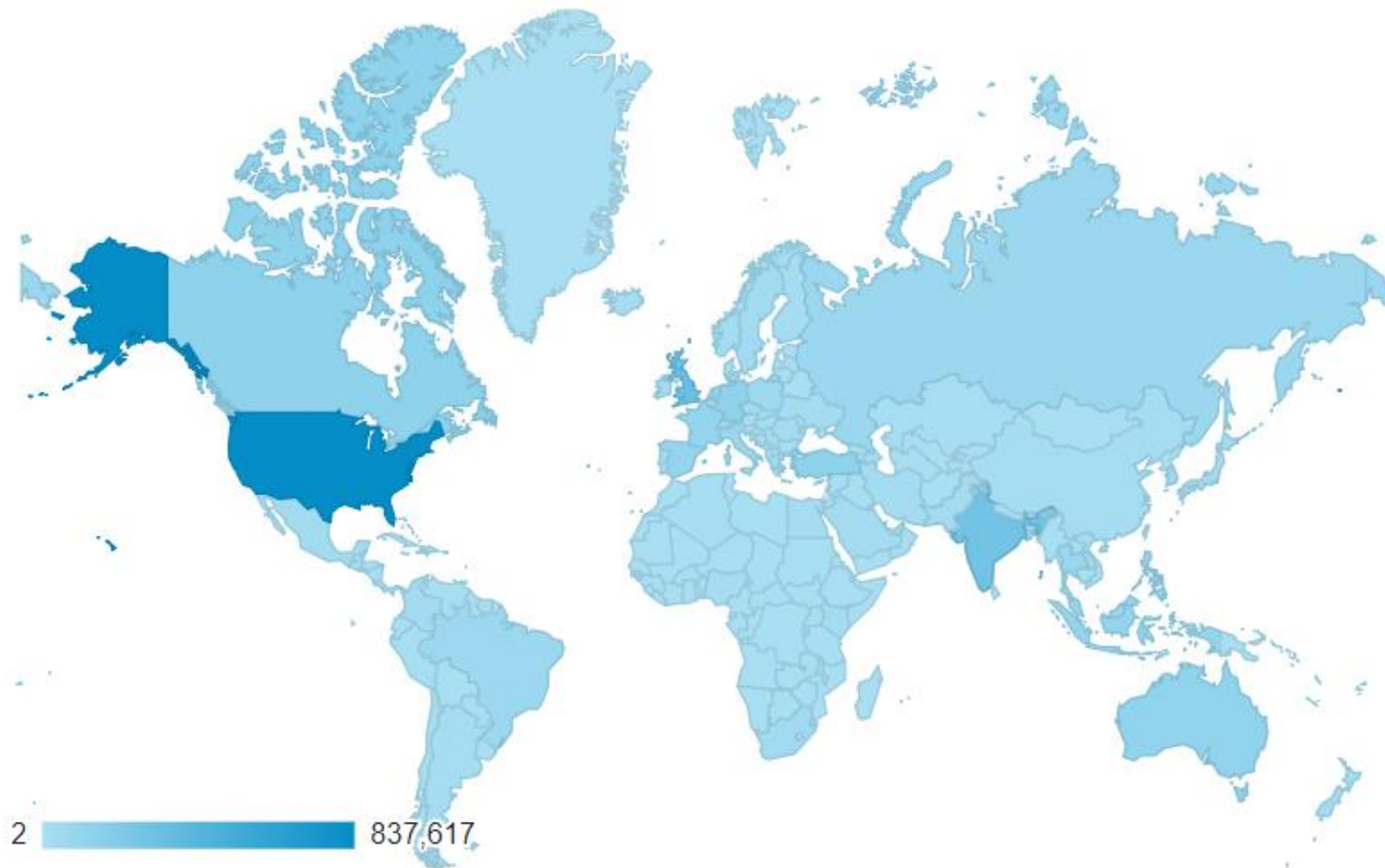
What SKYbrary brings to its audience



- ***Encyclopaedia*** of professional knowledge
- ***Aviation wide*** scope
- ***Network*** of articles, documents and links
- ***Credible*** sources from FAA, EASA, ICAO...
- ***Validated*** and periodically reviewed for currency content
- ***Portal*** entry to the global safety knowledge
- ***Impartial*** approach to knowledge integration



Users come from 239 countries / territories



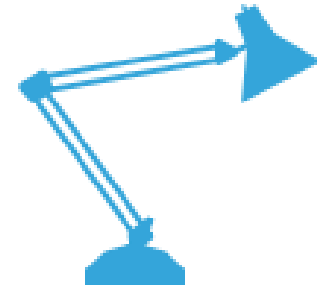
SKYbrary – where next?

To be comprehensive we need to systematically look at accidents, incidents, normal operations resilience and the knowledge needs of the industry. Here we make the first step – looking at fatal accidents.

How to target our
knowledge management
work?



We launched a
dedicated study

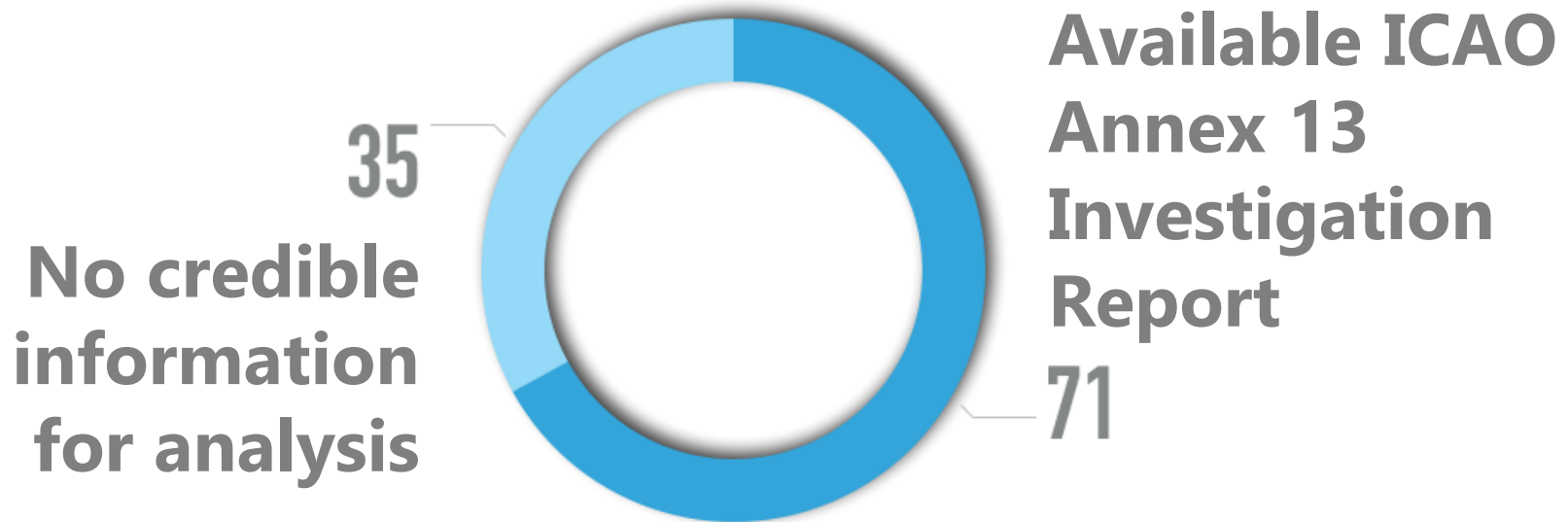


Study Objective

- To investigate the extent to which a lack of knowledge has been contributory to fatal aircraft accidents.
- By examining the evidence provided by independently-conducted investigations.
- To inform our knowledge management focus.

Data Source

- Accidents involving commercial jet transport aircraft over 27 tonnes MTOW during the 17 year period 2000 to 2016 which resulted in fatal injury to their occupants and/or to those of another aircraft which they were in collision with.



Conclusions (1)

Opportunity for providing risk management knowledge for front line operators (pilots, ATCOs, maintenance engineers)

- Front line operators are always ‘on the front line’ – it is not surprising to find that often their actions or inactions are present in the accident sequence.
- For the analysed set of accidents, procedural non-compliance often appeared to be founded on an **inadequate understanding of the rationale** which underlies both normal and abnormal/emergency procedures.

LEARNING
OPPORTUNITY 1

Conclusions (2)

Opportunity to address the Organisations lack of adequate procedures and training

- For the analysed set of accidents, although the actions of pilots and all front line personnel are almost always guided by **procedures, these are not always adequately defined or, where they are, adequately trained.**
- At least one or more and often both of these factors were present in almost all of the accidents analysed.

LEARNING
OPPORTUNITY 2

Conclusions (3)

Opportunity to address the lack of risk management knowledge in some organisations

- **A lack of knowledge at the organisations** which prepare front line personnel for their duties was a factor in almost all the analysed accidents.
- This included both lack of adequate risk assessment in relation to the definition and content of procedures and a lack of awareness of rates of procedural compliance

LEARNING
OPPORTUNITY 3

SKYbrary – our answer:
supports safety by providing access to
generic risk management content via
an easily searchable single source
website with:

Articles relevant to all aspects of operational
safety risk management and a huge range of
supporting documents which can be and are being
accessed and referenced by all those who are
responsible for keeping the accident rate as low as
possible, both individuals and organisations.

The SKYbrary Accidents and Incidents Library:

A collection of over 1000 (and growing) summaries of selected independently investigated Accidents and Incidents which have lessons for a wider audience than those involved in them which are accompanied by one click access to copies of the corresponding Official Reports if required.

THE RATIONAL
BEHIND
PROCEDURES



The SKYbrary Operational Safety Categories:



**OPERATIONAL
SAFETY BEST
PRACTICE**

SKYclips - awareness and training resource (20 so far)

Short animation videos available on SKYbrary:

<http://www.skybrary.aero/index.php/Solutions:SKYclips>



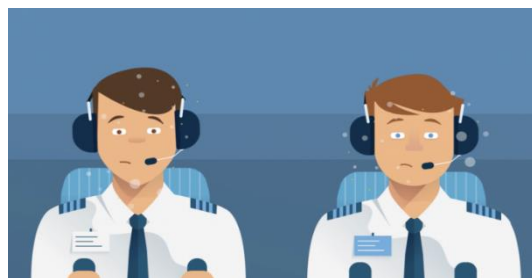
Stop Bars



Conditional Clearance



**Landing Without
Clearance**



Startle effect

**TRAINING
RESOURCES
FOR DIRECT USE**

And there are more resources

- **Training toolkits**
- **Systems Thinking for Safety**
- **TCAS Awareness**
- **Just Culture**
- **Safety Culture Enhancement Toolkit**
- **Proceedings from the Annual Safety Forums**
- **....**

Everyone can help!

- Participate in content improvement
- Get involved in creating a SKYclip
- Sponsor an article development
- Sponsor a SKYclip production
- Contribute in kind with safety knowledge
- Promote SKYbrary

An appeal to the industry leaders – please lead by example, share what works beyond just compliance and help us maintain SKYbrary as an industry resource!