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MIDANPIRG/17
& RASG-MID/7

Cairo, Egypt, 15-18 April 2019



MID 7th Annual Safety Report

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Seventeenth Meeting of the Middle East Air Navigation
Planning and Implementation Regional Group
Seventh Meeting of the Regional Aviation Safety Group

الإجتماع السابع عشر للمجموعة الإقليمية لتخطيط وتنفيذ الملاحة الجوية
في الشرق الأوسط
الإجتماع السابع للمجموعة الإقليمية لسلامة الطيران بالشرق الأوسط



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Today's Meeting

- Objective of ASRT
- Reactive information data
- Proactive information data
- Focus Areas and Emerging Risks
- Way forward





Objective of ASRT

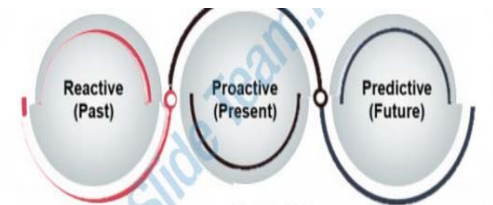
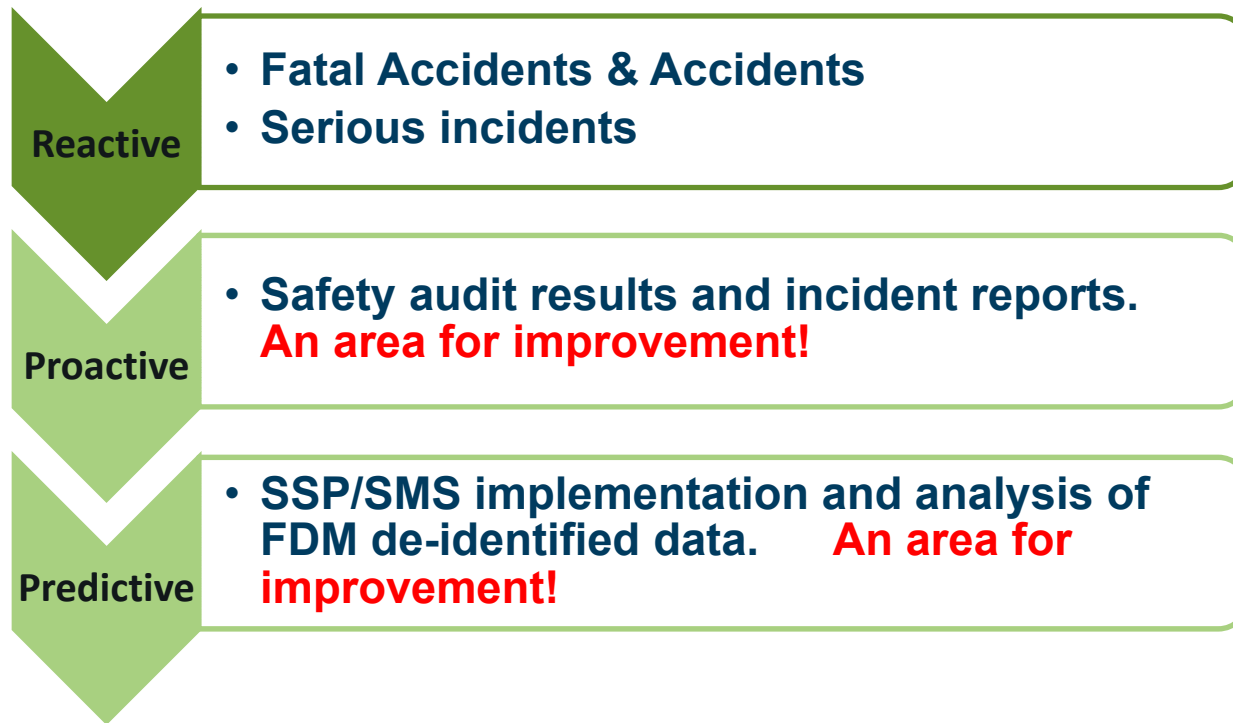
- ❑ Gathering and Analyzing safety information
- ❑ Identification of safety focus areas & emerging risks
- ❑ Production of the annual safety report

- 1st Edition, Nov 2012
- 2nd Edition, Jan 2014
- 3rd Edition, March 2015
- 4th Edition, May 2016
- 5th Edition, Jan 2017
- 6th Edition, June 2018
- 7th Edition, **In progress**





ASR Structure-7th Ed





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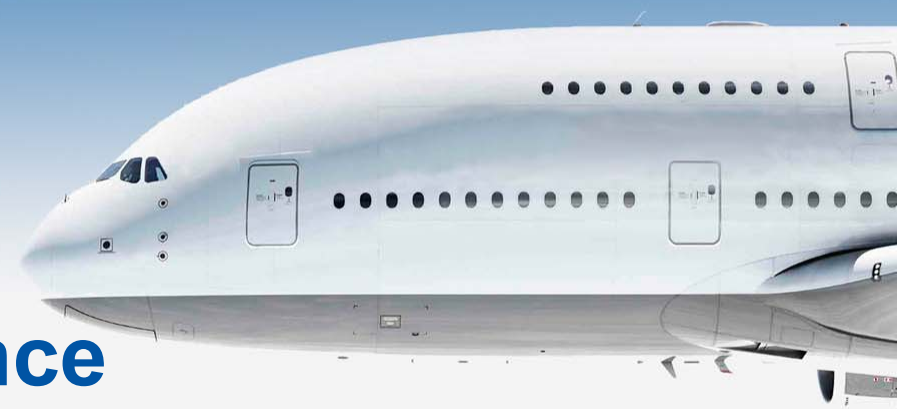
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Reactive Safety Information

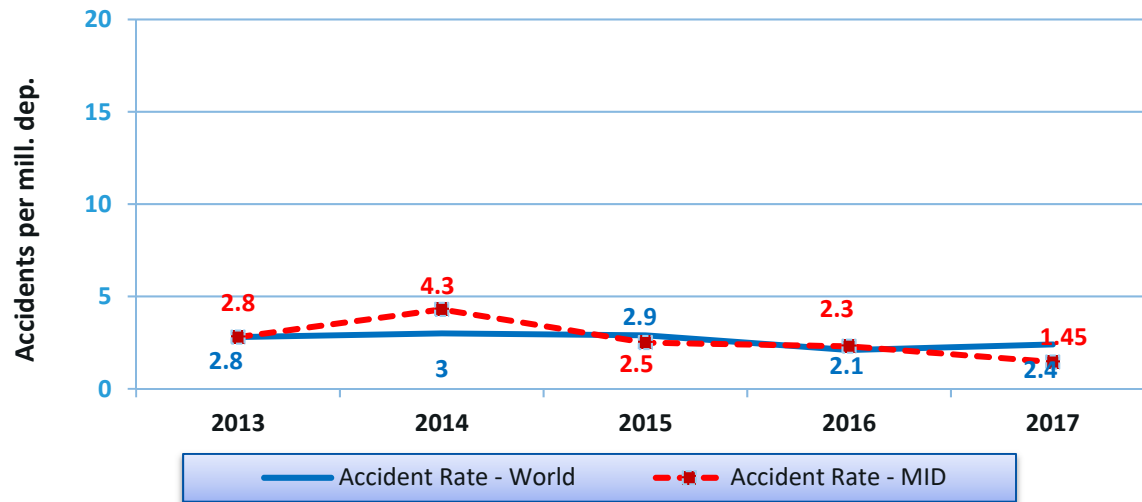
State of Occurrence





Accident Rate

Accident Rate
Scheduled Commercial above 5700 kg

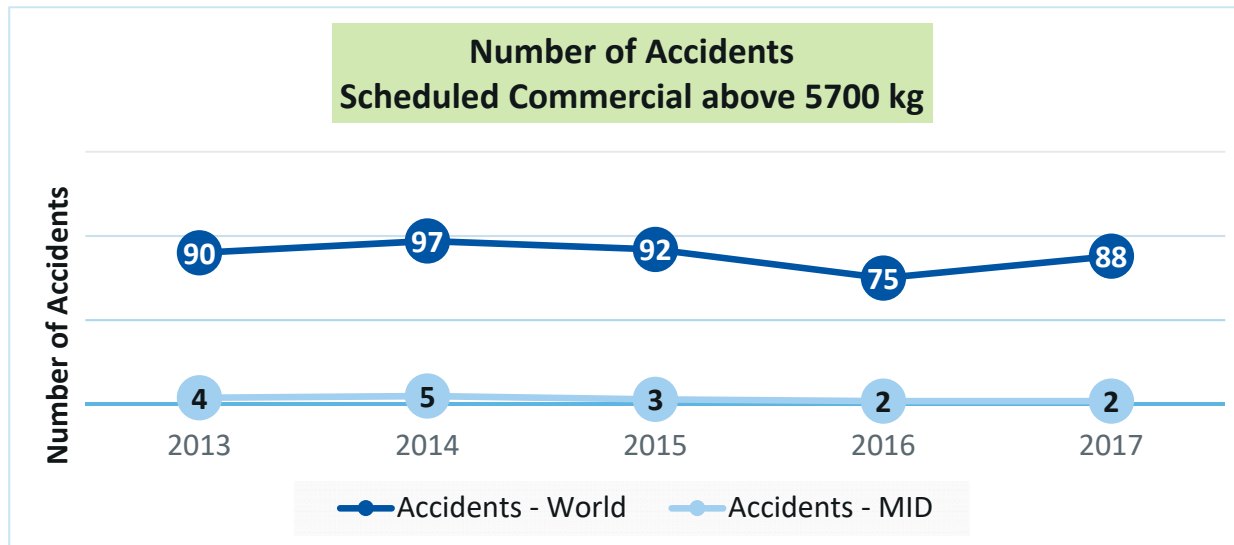


(Source iSATRS as of 10 Oct 2018)

- Reduced accident rate (1.45) for 2017 compared to 2016 (2.3)
- Below global rate in 2017
- No Fatal occurred during 2017
- 5 year average MID Region (2.67) slightly above global rate! (avg global = 2.64)



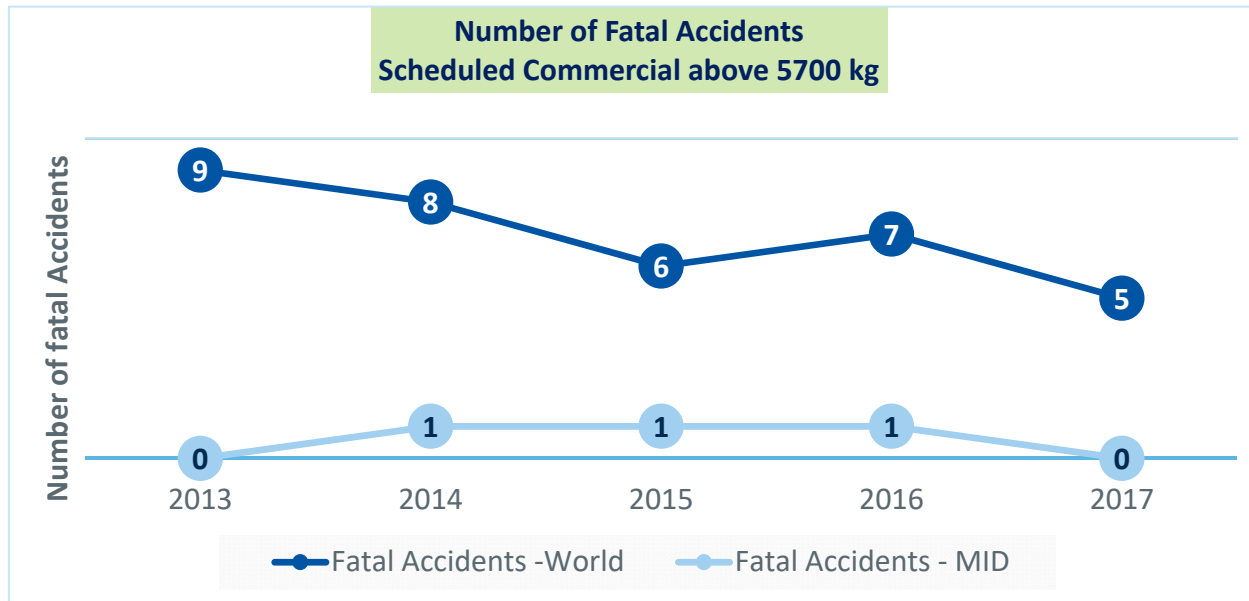
Number of Accident



(Source iSATRS as of 10 Oct 2018)



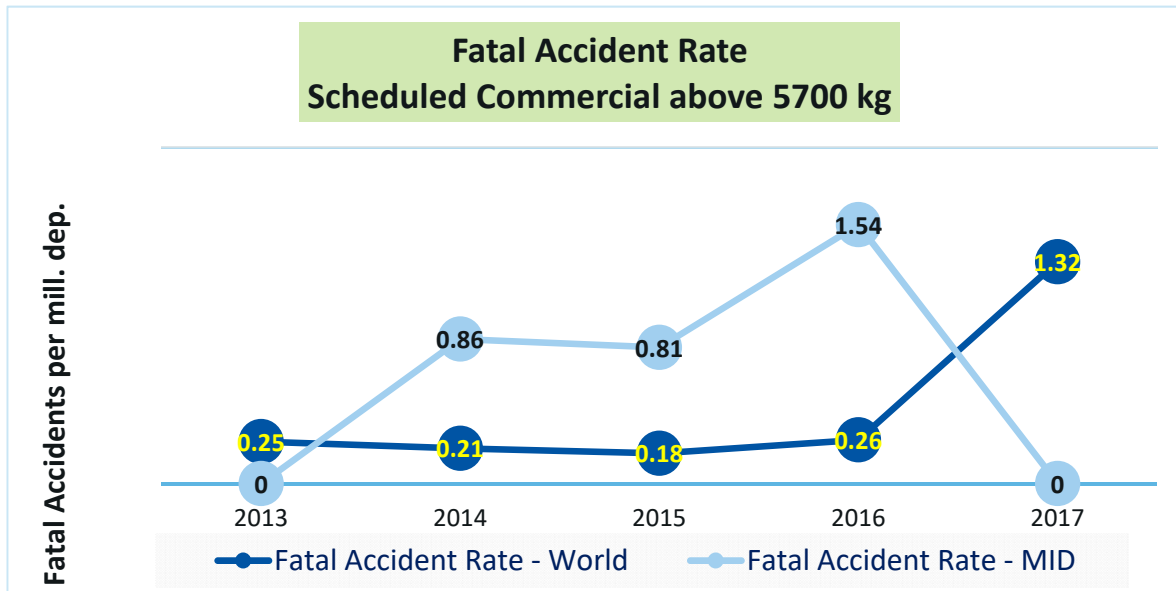
Number of Fatal Accident



(Source iSATRS as of 10 Oct 2018)



Fatal Accident Rate

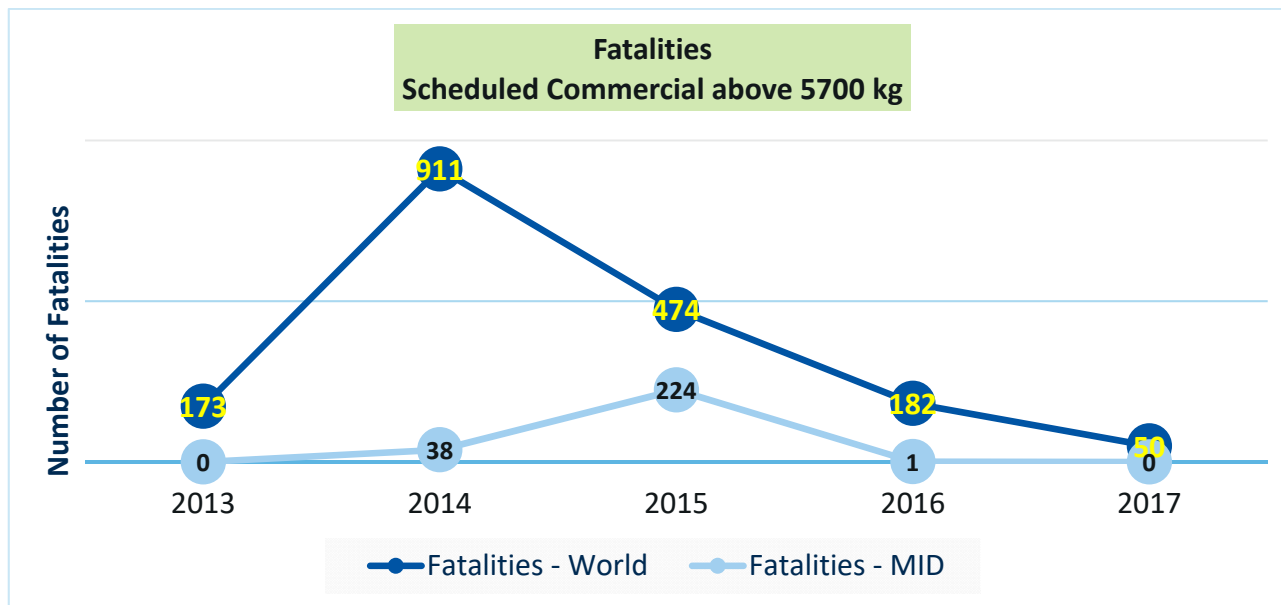


(Source ISATRS as of 10 Oct 2018)

- No fatal accident in 2017
- Average rate (2013-2017) is 0.64
- Slightly Above average global rate!
(avg global = 0.44)



Fatalities



- Fatalities:
- 2014 = 38
 - 2015 = 224
 - 2016 = 1

(Source iSATRS as of 10 Oct 2018)



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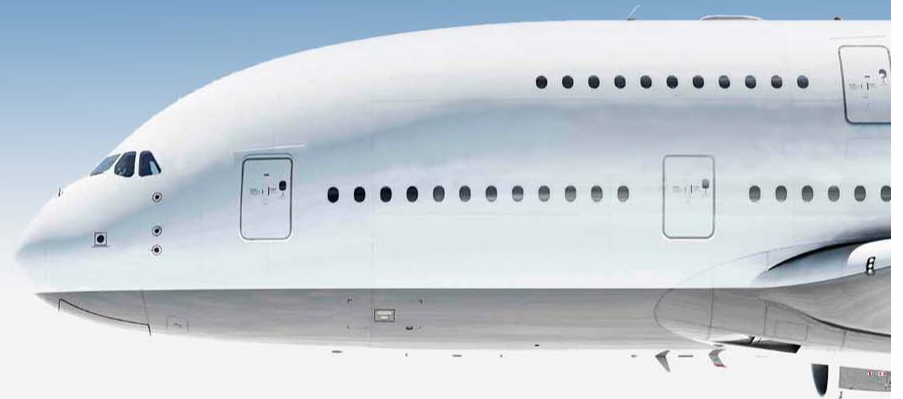


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Proactive Safety Information





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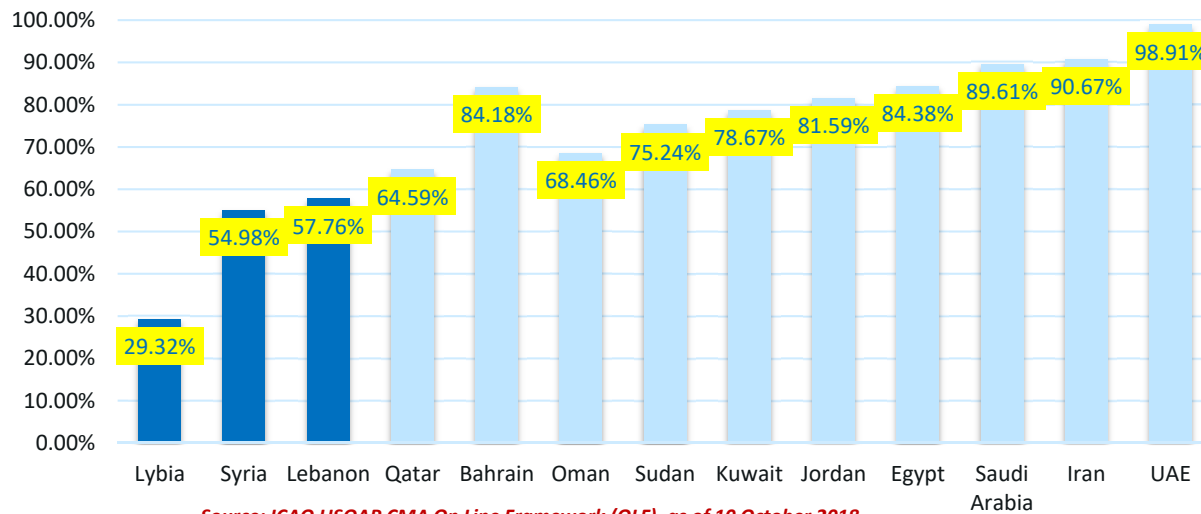
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Effective Implementation (EI)



Source: ICAO USOAP CMA On Line Framework (OLF), as of 10 October 2018

ICAO USOAP:

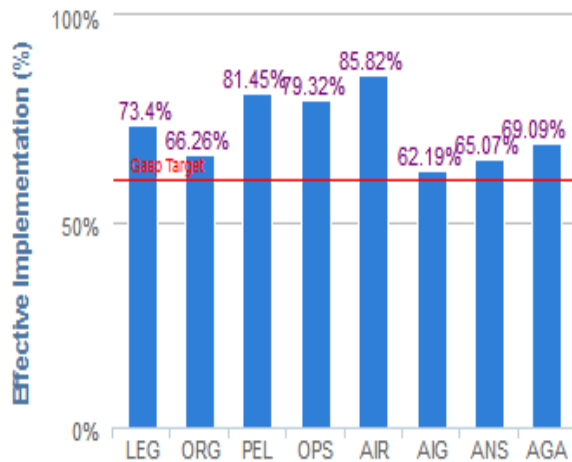
- 13 out of 15 States have been audited
- Overall MID EI = 73.24% which is above Global average (66.27%)
- 10 States have achieved the target of 60% EI
- 3 states are below 60% (Libya, Syria, Lebanon)

NO SSC in MID Region

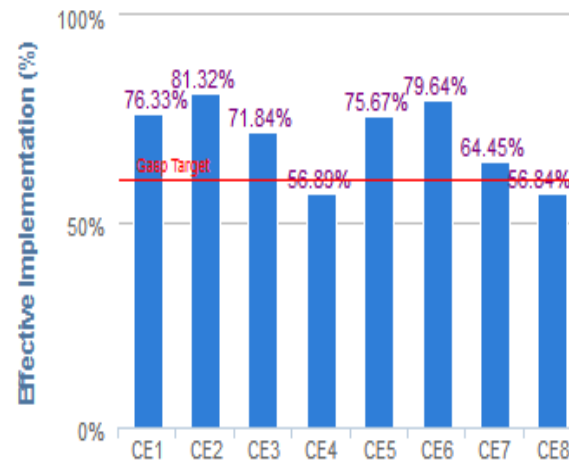


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EI by Area



EI by Critical Element



- ❑ 8 areas and 6 critical elements are above the target of 60%
- ❑ Critical elements CE4 (Qualified technical personnel), and CE8 (Resolution of Safety issues) are the lowest in terms of EI (below 60%)

Source: ICAO iSTARS, as of 10 October 2018



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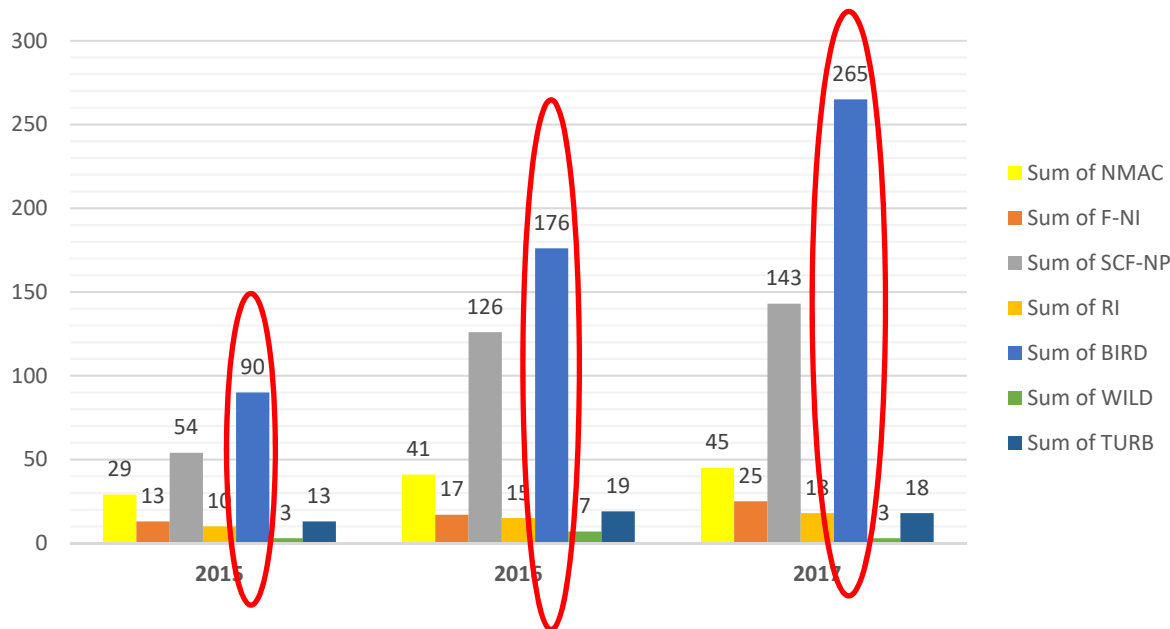


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Incidents Reported by the States



what are other words for occurrence?



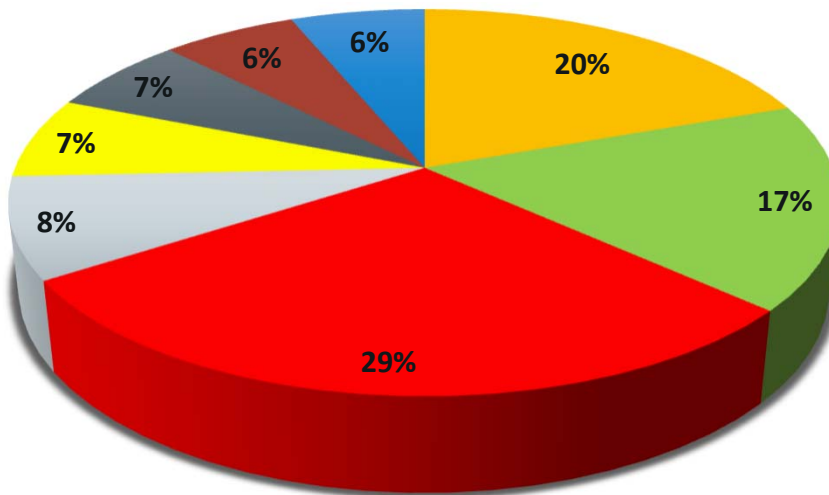
incident, happening, event, circumstance, episode, appearance, occasion, manifestation, affair, instance





IATA IOSA

2017-IOSA % of findings per area



■ ORG ■ MNT ■ FLT ■ GRH ■ CAB ■ DSP ■ CGO ■ SEC

Findings were mainly in the areas:

- Flight Operations (FLT) (29.1%),
- Organization Management (ORG)(19.49%),
- Maintenance (MNT) (17.23%) , and
- Ground Handling Operations (GRH) (8.47%).



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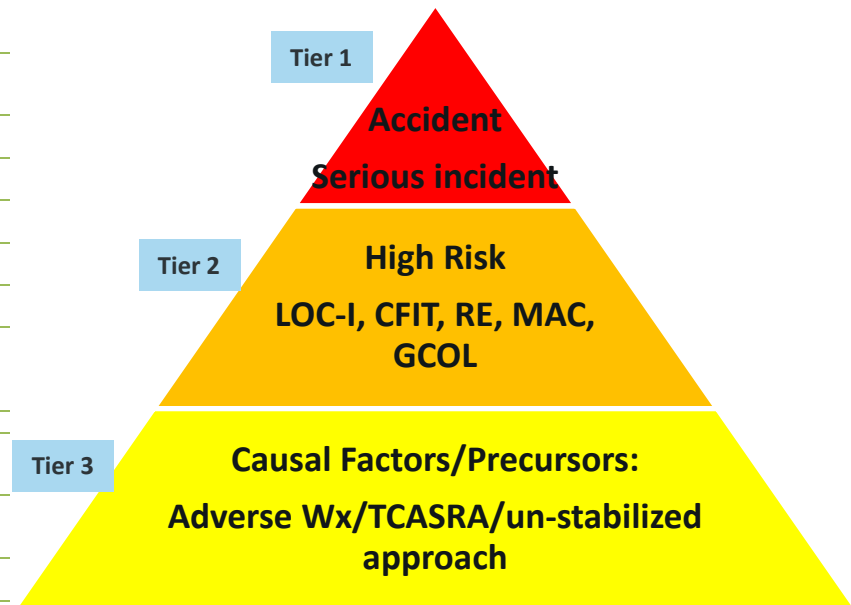


Identification of Focus areas & Emerging Risks

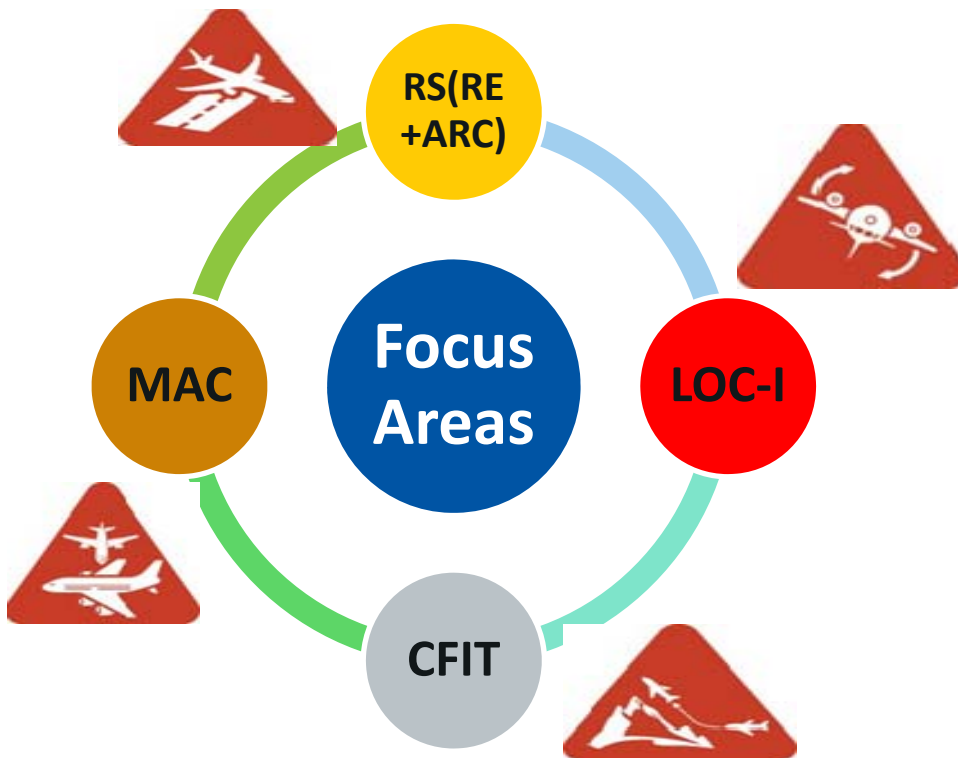




| Undesirable/Safety Event | Potential Accident Outcome | Safety Event | | | | | | | |
|---|----------------------------|-------------------|------|-------|-----|------|--------|----------------------------|-----------|
| | | Accident Severity | CFIT | LOC-I | MAC | GCOL | RE/ARC | Injury or Damage in flight | Inj Da Gr |
| Technical Problems with Landing Gear Collapse/not Extended during landing | Major | | | | | | x | | x |
| Contained engine Failure/Power Plant Malfunctions | Catastrophic | x | x | | | | | x | |
| Fire/Smoke-non impact | Catastrophic | | x | | | | | x | x |
| Un-stable or non-compliant Approach | Catastrophic | x | x | | | x | | | x |
| Deviation from pitch or roll attitude | Catastrophic | x | x | | | x | | | |
| Security Risks with impact on safety | Catastrophic | | x | | | | | | |
| Tail/Cross wind/Windshear | Major | | x | | | x | | | x |
| Loss of separation in flight/ and or airspace/TCAS RA infringement | Catastrophic | | x | x | | | | x | |
| Runway Incursion | Catastrophic | | | | x | x | | | x |
| Maintenance events and technical failures | Catastrophic | x | x | | | x | | x | x |
| Contaminated runway/Poor braking action | Major | | | | | x | | | x |
| Birdstrike/Engine Bird ingestion | Catastrophic | | x | | | x | | x | x |
| Wake Turbulence | Catastrophic | | | x | | | | x | |
| High energy go-around | | | x | | | | | x | |

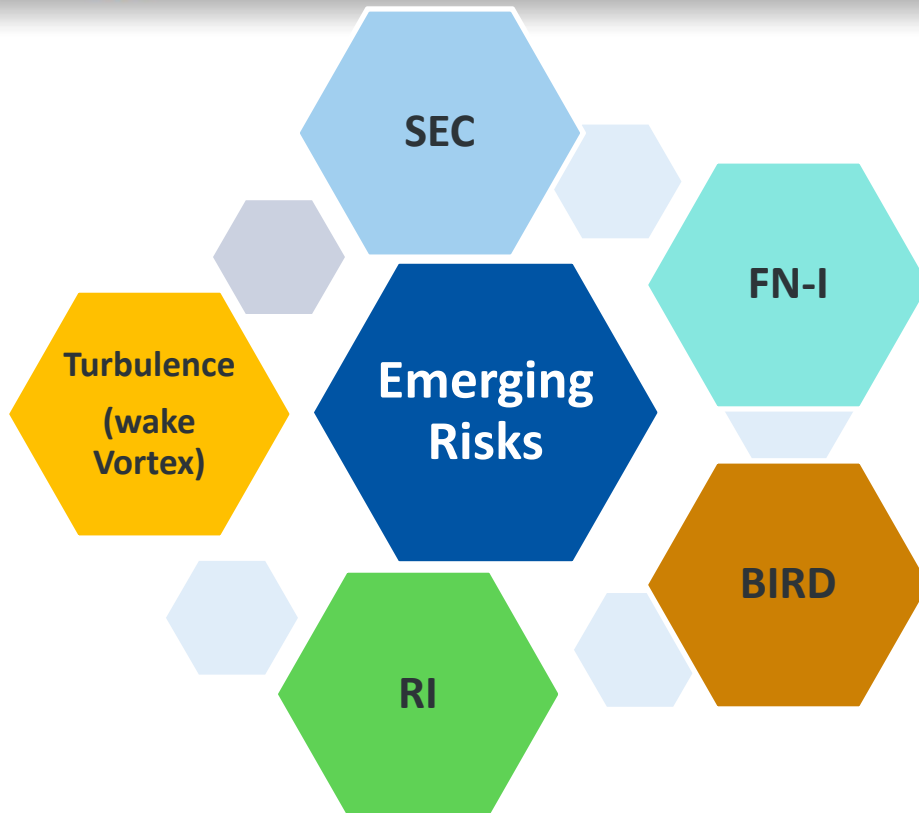


Focus Areas



□ Focus Areas:

1. Runway Safety (RS); (RE and ARC during landing);
2. Loss of Control-In Flight (LOC-I);
3. Controlled Flight Into Terrain (CFIT); and
4. Mid-Air Collision (MAC)



❑ Emerging risks:

1. Security Risks with impact on safety-SEC;
2. Fire/smoke- (non-impact)- (FN-I);
3. Runway incursion (RI);
4. Birdstrike-(BIRD); and
5. Wake Vortex.



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Challenges

- ❑ Accidents with the category “Unknown”
- ❑ Low level of incidents reporting by States (confidentiality concerns)
- ❑ Unavailability of predictive safety information
- ❑ Differences between organizations with respect to:
 - Taxonomy and classifications/categories
 - Reporting criteria (State of occurrence/operator/registry, MTOW..etc)
 - Regional distribution (MENA, MID...etc)

THE CHALLENGE



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Areas of improvement for future Editions

- Monitor the effectiveness of the SEIs
- Add a safety recommendations section
- Expand the proactive section with incidents analysis provided by States





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way forward...

- Develop a process for future work methodology
- Establishment of ASRT Core Team to support the Rapporteur & Secretariat in performing the root cause Analysis/contributory factors
- States to use the previous developed template which contains the focus areas and emerging risks to submit their occurrences as well as to share analysis data





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European and
North Atlantic
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(MID) Office
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Southern African
(ESAF) Office
Nairobi

Asia and Pacific
(APAC) Sub-office
Beijing

Asia and Pacific
(APAC) Office
Bangkok

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75 YEARS
OF CONNECTING THE WORLD

الإيكاو ٢٠١٩



٧٥ عاماً
من الزيت بين أرجاء العالم

THANK YOU