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RSC/6-PPT/2

7th Annual Safety Report Preliminary Data

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25 – 27 June 2018, Cairo, Egypt





Today's Briefing

MID State of Occurrence Accident

MID State of Registry & State of
Operator Accident

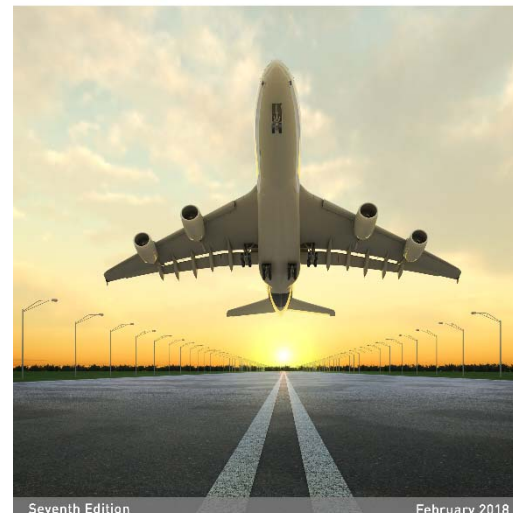
Overall Analysis



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MID Region Annual Safety Report





Challenges-iSTARS Accident Data

- Accidents data published in iSATRS keep changing (Unstable)



- affects all the accidents data analysis



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MID State of Occurrence

Accidents Data for the period (2013-2017)



State of occurrence (2013-2017)

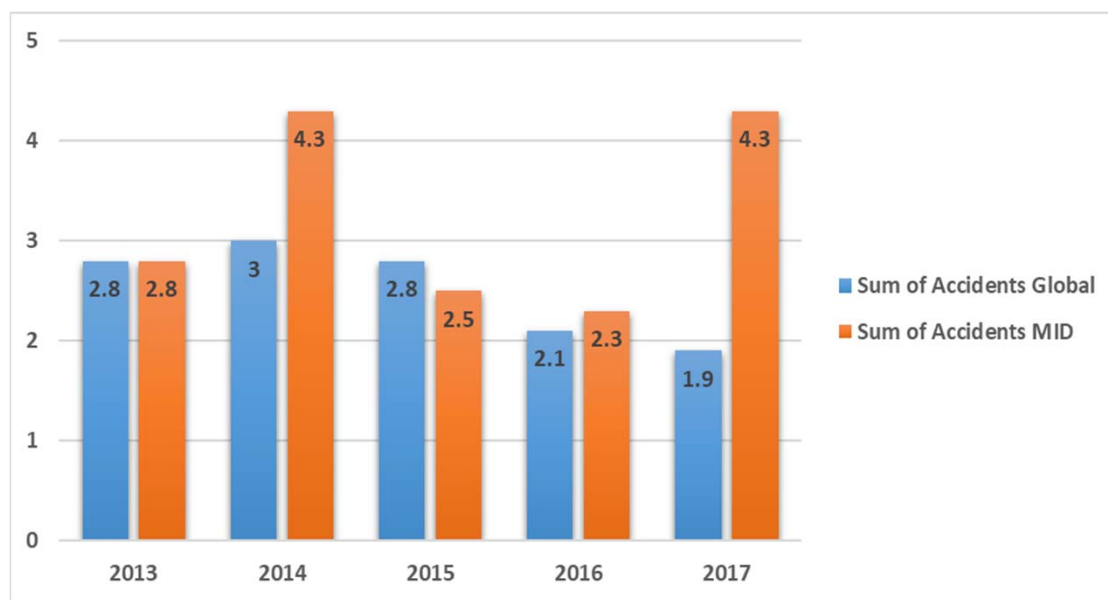
4.3 accidents per million departures in 2017

For 2017, MID Rate accident is higher than the global rate.

AVGMID
3.19

AVG Global
2.48

Accident Rate
Schedule commercial above 5700 kg



(As per iSTARS 3.0 data taken on Feb 2018)



Fatal Accidents

Rate of fatal accidents per million departure

No fatal accident occurred during 2017 in MID Region

- 1 fatal accident in 2014
- 1 fatal accident in 2015
- 2 fatal accidents in 2016

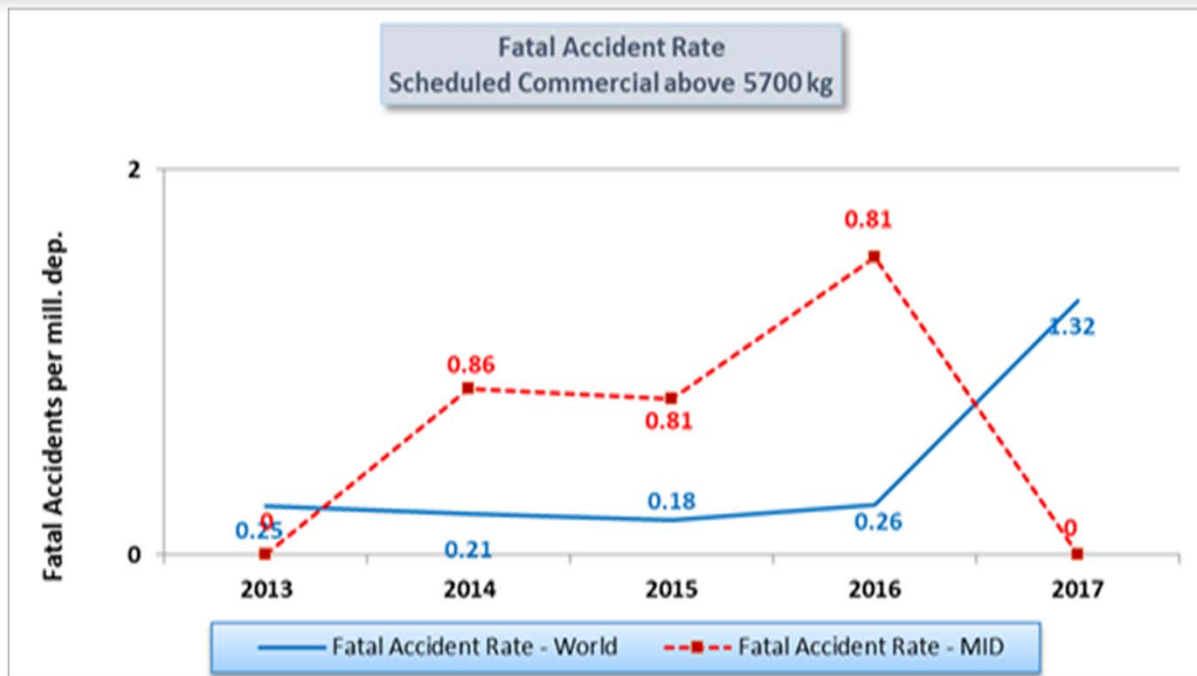
5 year –sliding average fatal accident rate

AVG MID

0.64

AVG Global

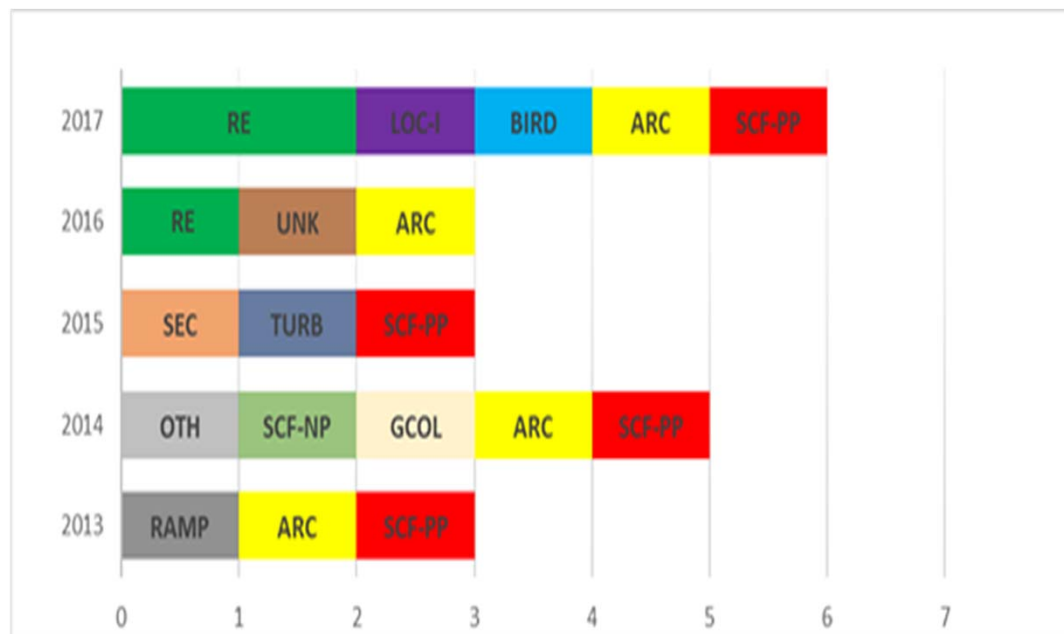
0.44



(As per iSTARS 3.0 data taken on Feb 2018)



Distribution of Occurrence Category Per Year



(As per iSTARS 3.0 data taken on Feb 2018)



Identification of the main Risk Areas based on the analysis of accident data related to the State of Occurrence

Main Risk Area	Frequency	Severity	Risk Level
Runway Safety (RS)	1	3	3
Loss of Control-Inflight (LOC-I)	3	1	3
Security (SEC)	4	1	4

Safety Risk areas:

- Runway Safety (RS): RE & ARC during Landing
- Loss Of control-Inflight (LOC-I)
- Security related (SEC)



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MID State of Registry and state of Operator

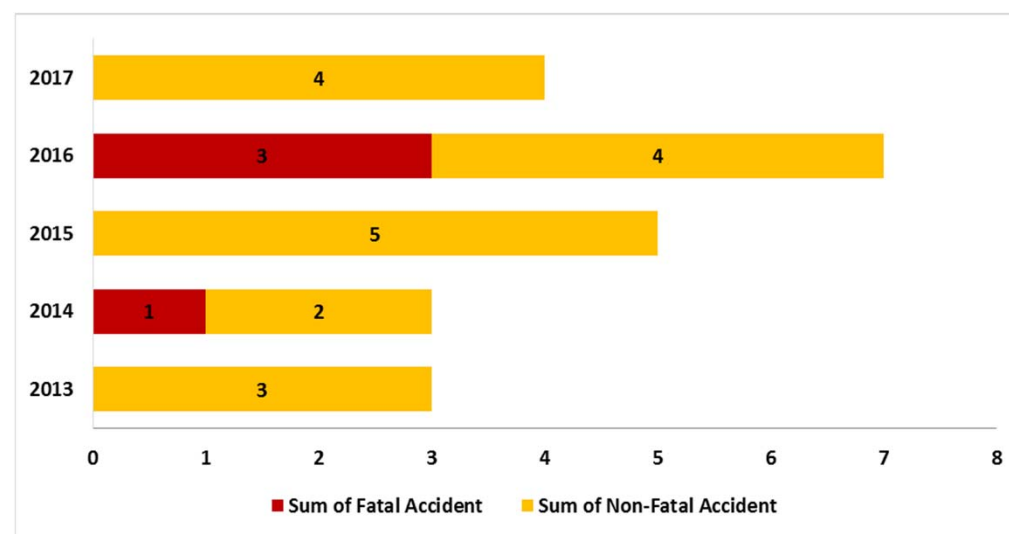
Accidents and Serious incidents data for the period
(2013-2017)



MID State of Registry & State of Operator (2013-2017)

No fatal accident occurred during 2017

Accident Rate
Schedule commercial above 5700 kg



(As per iSTARS 3.0 data taken on Feb 2018)



Accident Category

Accident Category Distribution per Year



(As per iSTARS 3.0 data taken on Feb 2018)



Identification of the main Risk Areas based on the analysis of accident data related to the State of Registry and State of Operator

Main Risk Area	Frequency	Severity	Risk Level
Runway Safety (RS)	1	3	3
Loss of Control-Inflight (LOC-I)	3	1	3
Turbulence (TURB) Encounter	3	4	12

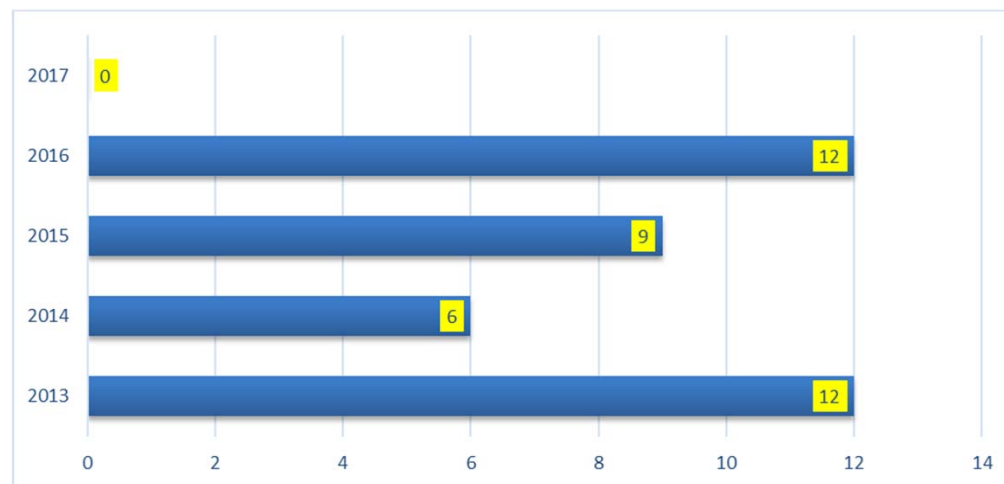
Safety Risk areas:

- Runway Safety (RS): RE & ARC during Landing
- Loss Of control-Inflight (LOC-I)



Number of Serious Incidents Distribution Per Year (2013-2017)

MID State of Registry & State of Operator (2013-2017)

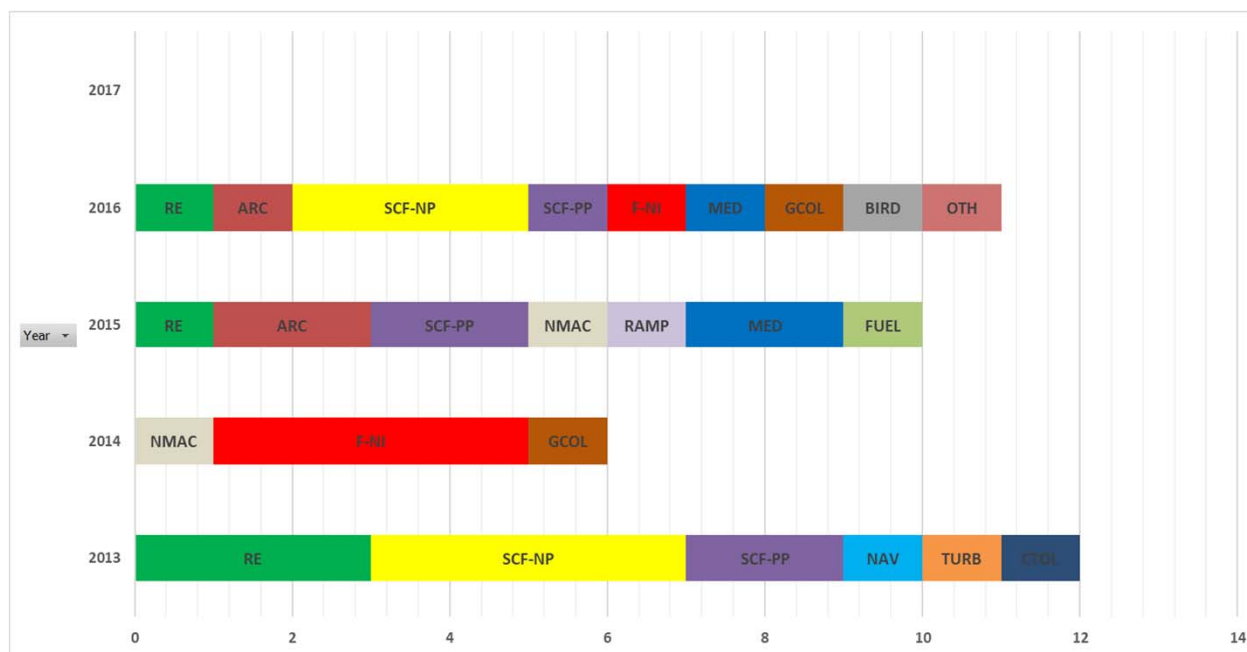


(As per iSTARS 3.0 data taken on Feb 2018)



Number of Serious Incidents Distribution Per Year (2013-2017)

➤ Serious incidents Category Distribution per Year



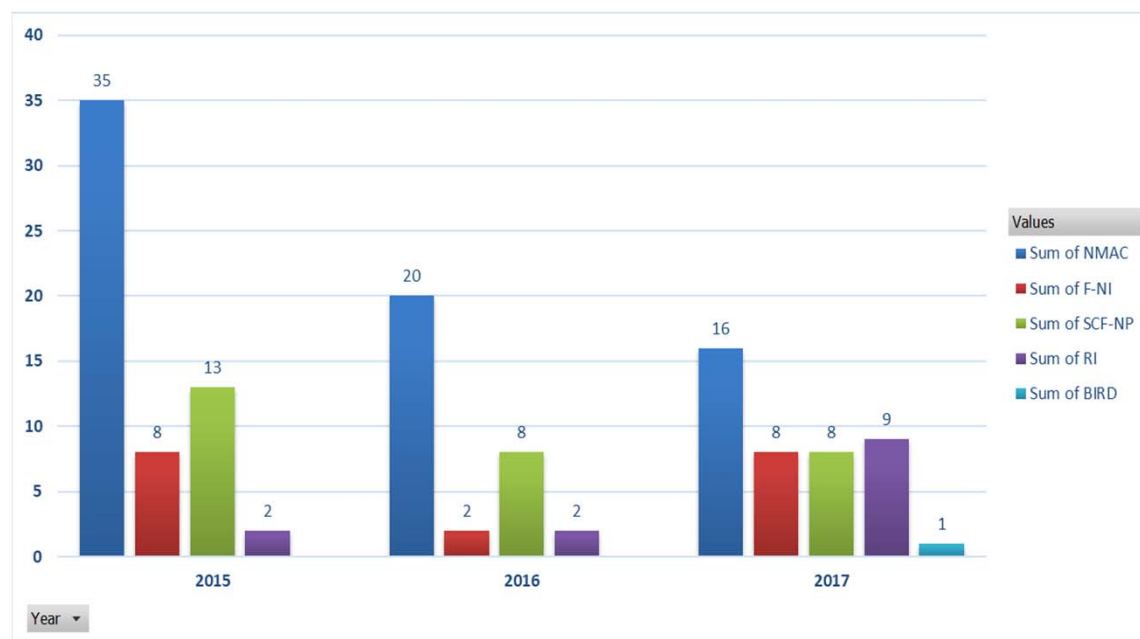
(As per iSTARS 3.0 data taken on Feb 2018)



Serious incidents

- The risk of **MAC** has been raised by some MID States. Additional data needed for further analysis to identify the underlying safety issues.
- While there were no fatal accidents involving MID States operators in the last years involving **fires**, there have been incidents reported by MID States, which make it an area of concern.
- **RI**: Data analysis should be provided for further analysis.

Number of Serious Incidents Distribution Per Year (2015-2017)



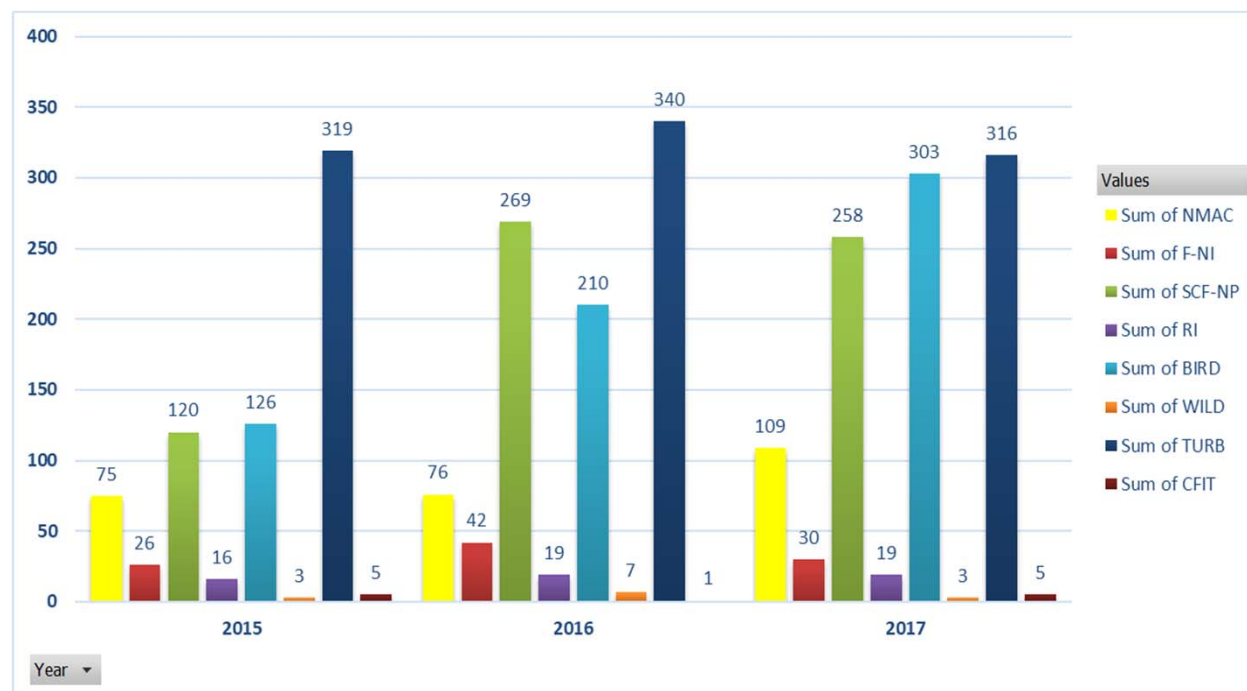
Data shared by the MID States



Incidents

- Breakdown of **TURB** incidents needed for further analysis.
- **BIRD**: MID States should provide further data analysis in order to identify the root causes and associated safety issues.

Number of Incidents Distribution Per Year (2015-2017)



Data shared by the MID States



Overall analysis

Each identified safety events is linked to the potential accident outcomes.

The triggering events for each safety event are linked to one or more aviation domains (Operational, ATM, Technical, and, aerodrome)

Identification of Focus Areas for MID Region

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

“Feared consequences” of the risk portfolio of DGAC France”

Undesirable/Safety Event	Accident Severity	Potential Accident Outcome					Injury or Damage inflight	Inj Da Gr
		CFIT	LOC-I	MAC	GCOL	RE/ARC		
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
Loss of separation in flight/ and or airspace infringement/TCAS RA	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



Emerging Risks

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



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