

# 2019 Full Year Accident Update

12 July 2020





# Accidents

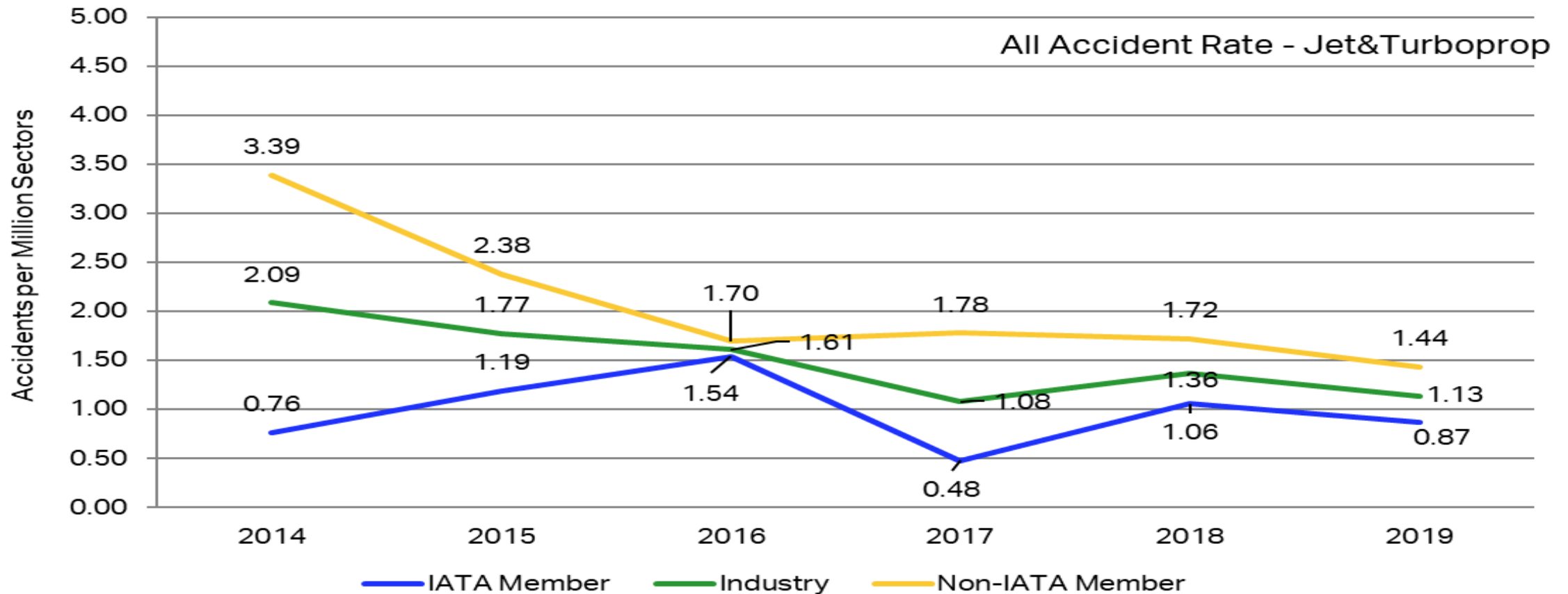


# 2019 All Accidents Overview

Total Accidents	53
Total Jet Hull Losses	6
Total Turboprop Hull Losses	5
Total Fatal Accidents	8
Total Fatalities on board	240
Total IATA Member Accidents	22

# Industry Accident Rate Decreased, confirming a five year downward trend

All Accidents per Million Sectors 2014 to 2019

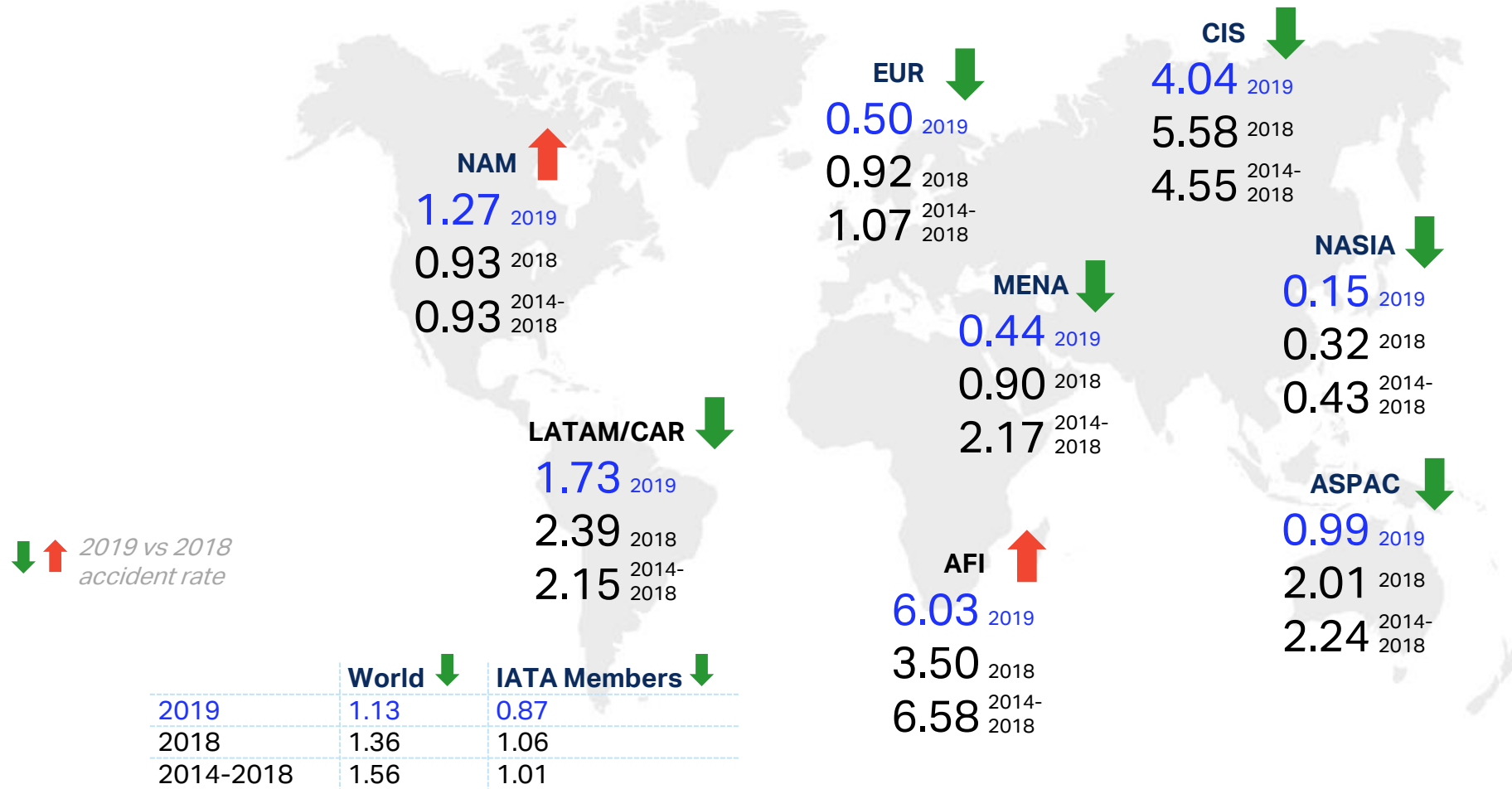


Source: IATA GADM

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# Regions the Accident Rate

All Accident Rate per Region of Operator as 31<sup>st</sup> December 2019



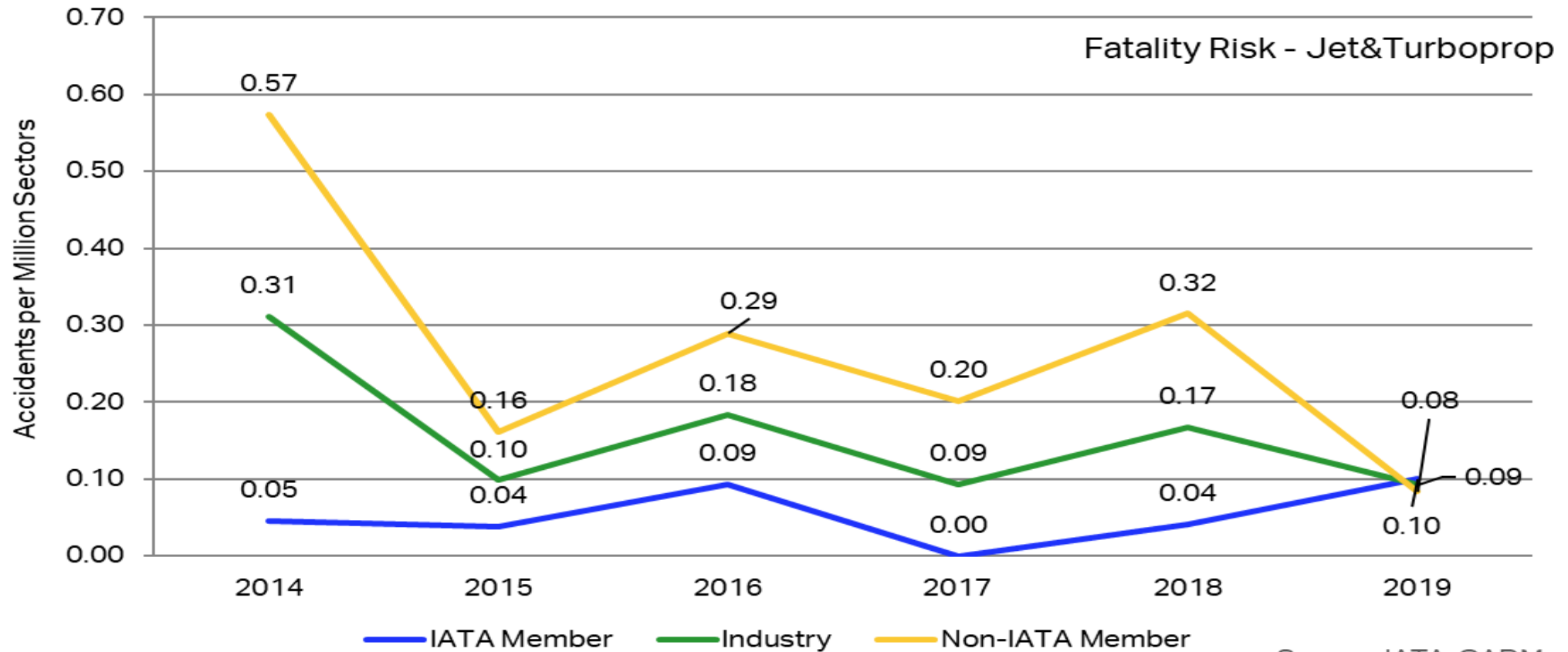
Source: IATA GADM 

# Fatalities



# The Number of Fatalities decreased compared to 2018

Fatality Risk (Full-Loss Equivalents per Million Sectors)

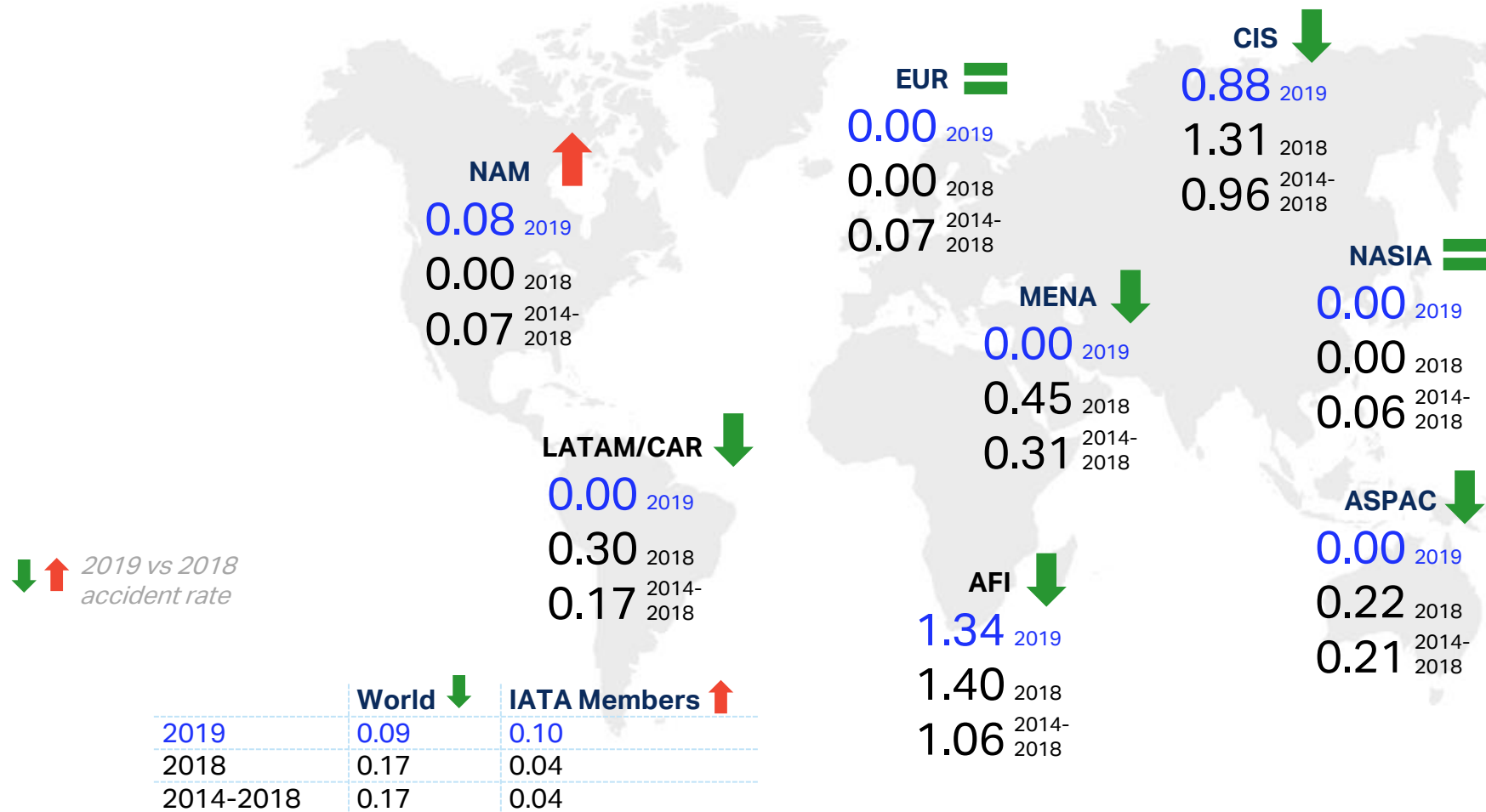


Source: IATA GADM

Source: IATA GADM



# Regions Fatality Risk

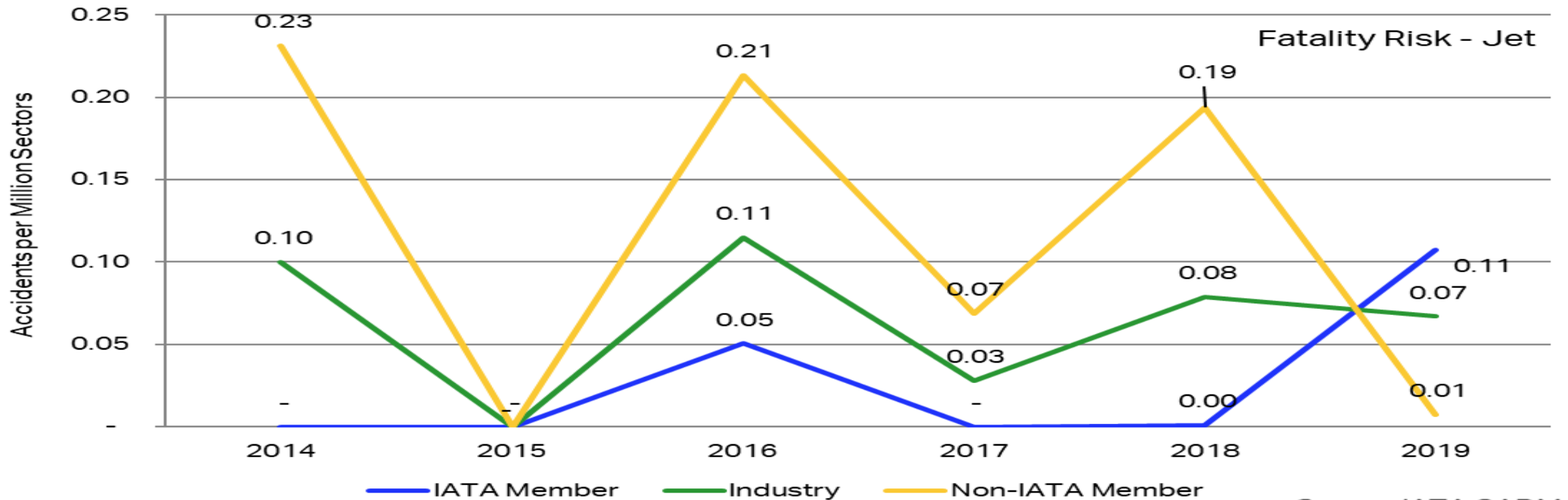


Source: IATA GADM 



# Jet Fatality Risk

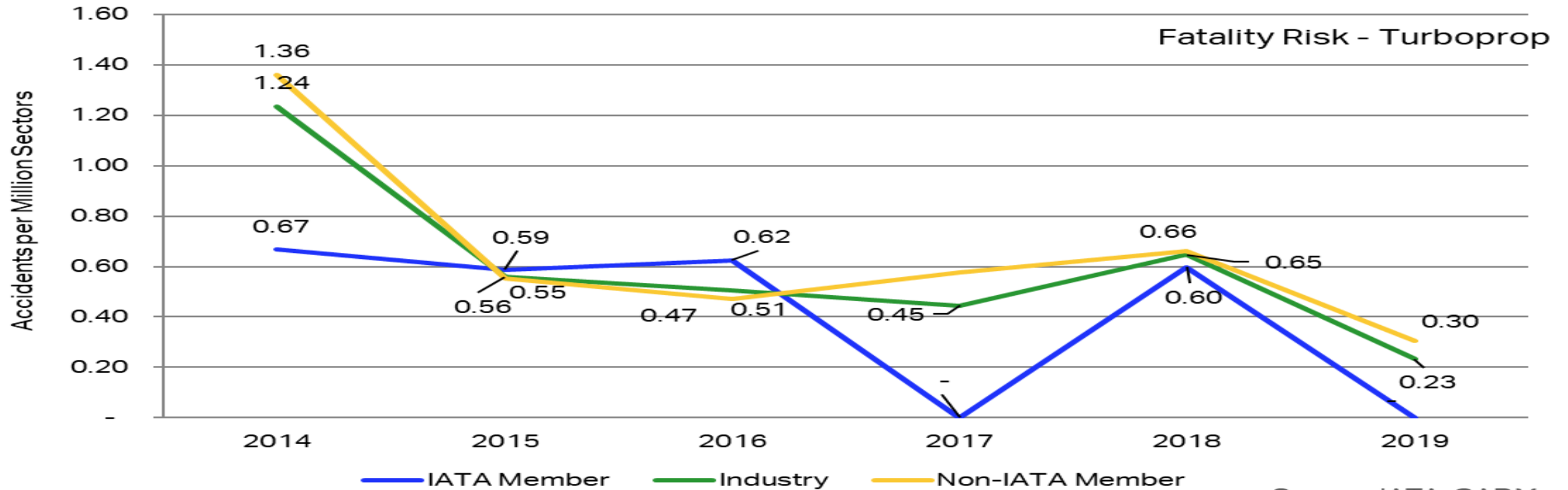
Jet Fatality Risk (Full-Loss Equivalents per Million Sectors)



Source: IATA GADM

# Turboprop Fatality Risk

Turboprop Fatality Risk (Full-Loss Equivalents per Million Sectors)

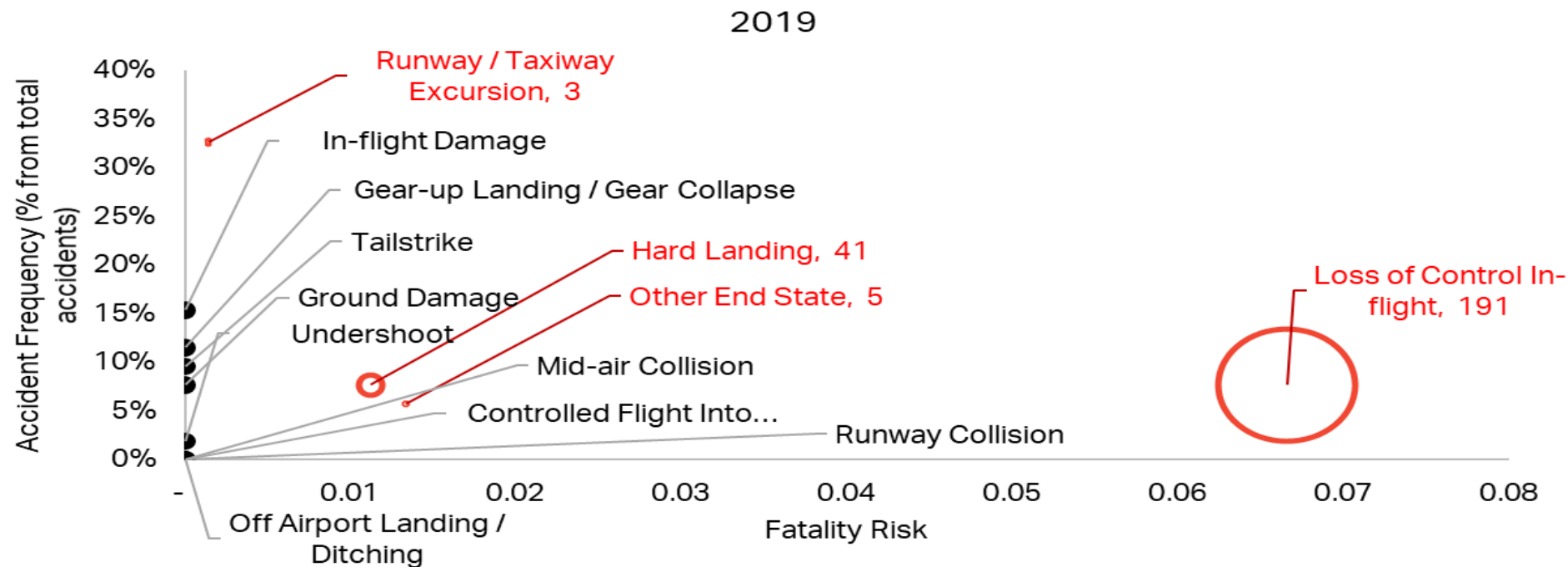


Source: IATA GADM



# LOC-I and Hard landing caused the highest fatalities in 2019

## Fatality Risk by Accident Category in 2019



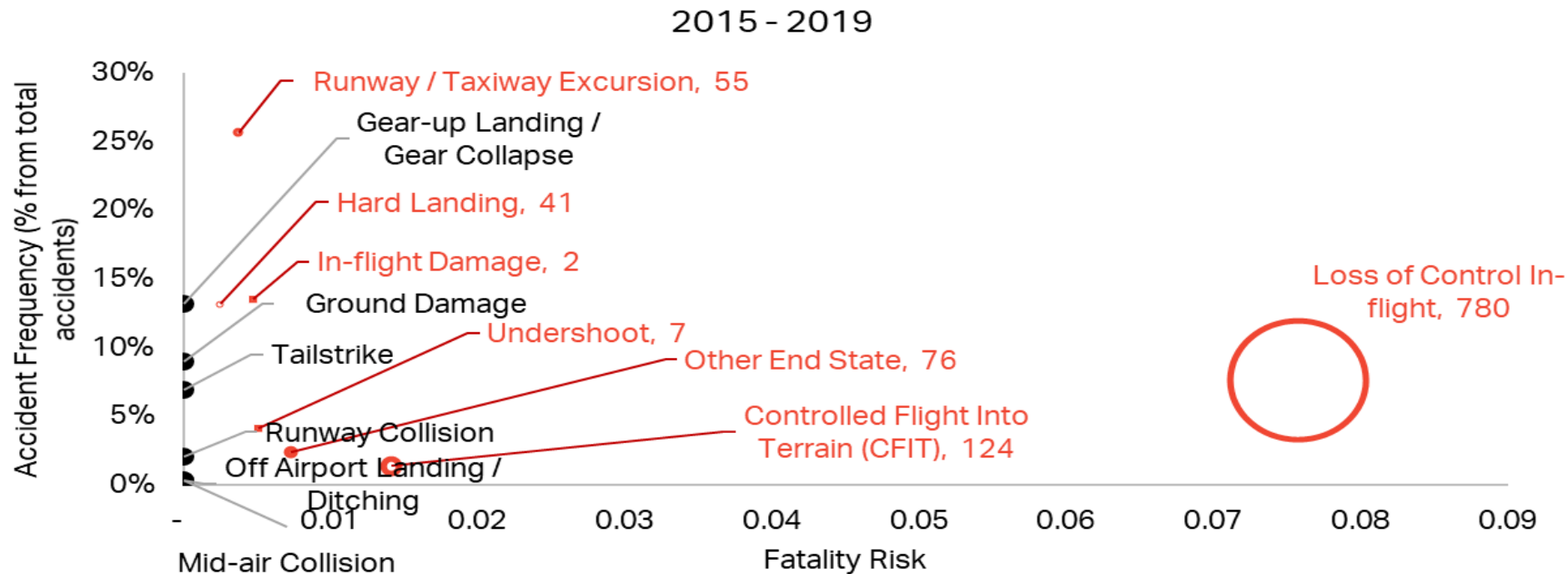
- Note:
- (1) The area of the bubble indicates the number of fatalities associated with the particular accident category, the value is displayed
  - (2) Fatality Risk: number of full-loss equivalents per 1 million flights
  - (3) Accidents not involving fatalities are displayed on this graph as black circles

Source: IATA GADM



# LOC-I, CFIT and Other End State (2015 to 2019)

## Fatality Risk by Accident Category from 2015 to 2019



- Note:
- (1) The area of the bubble indicates the number of fatalities associated with the particular accident category, the value is displayed
  - (2) Fatality Risk: number of full-loss equivalents per 1 million flights
  - (3) Accidents not involving fatalities are displayed on this graph as black circles

\*Three accidents that incurred in 31 fatalities did not have sufficient information about the event to assign an end state



# Summary

- During 2019, there were a total of **53 accidents** worldwide, of which **eight** incurred fatalities.
- The eight fatal accidents (four jets and four turboprops) incurred **240** on board fatalities.
- IATA member airlines suffered a total of 22 accidents, three of which resulted in the 201 fatalities.
- In the category 'all accidents per million sectors' IATA member airlines continue to trend lower than all industry at 0.87 versus 1.13 in 2019, a pattern which is also reflected in the five year average.

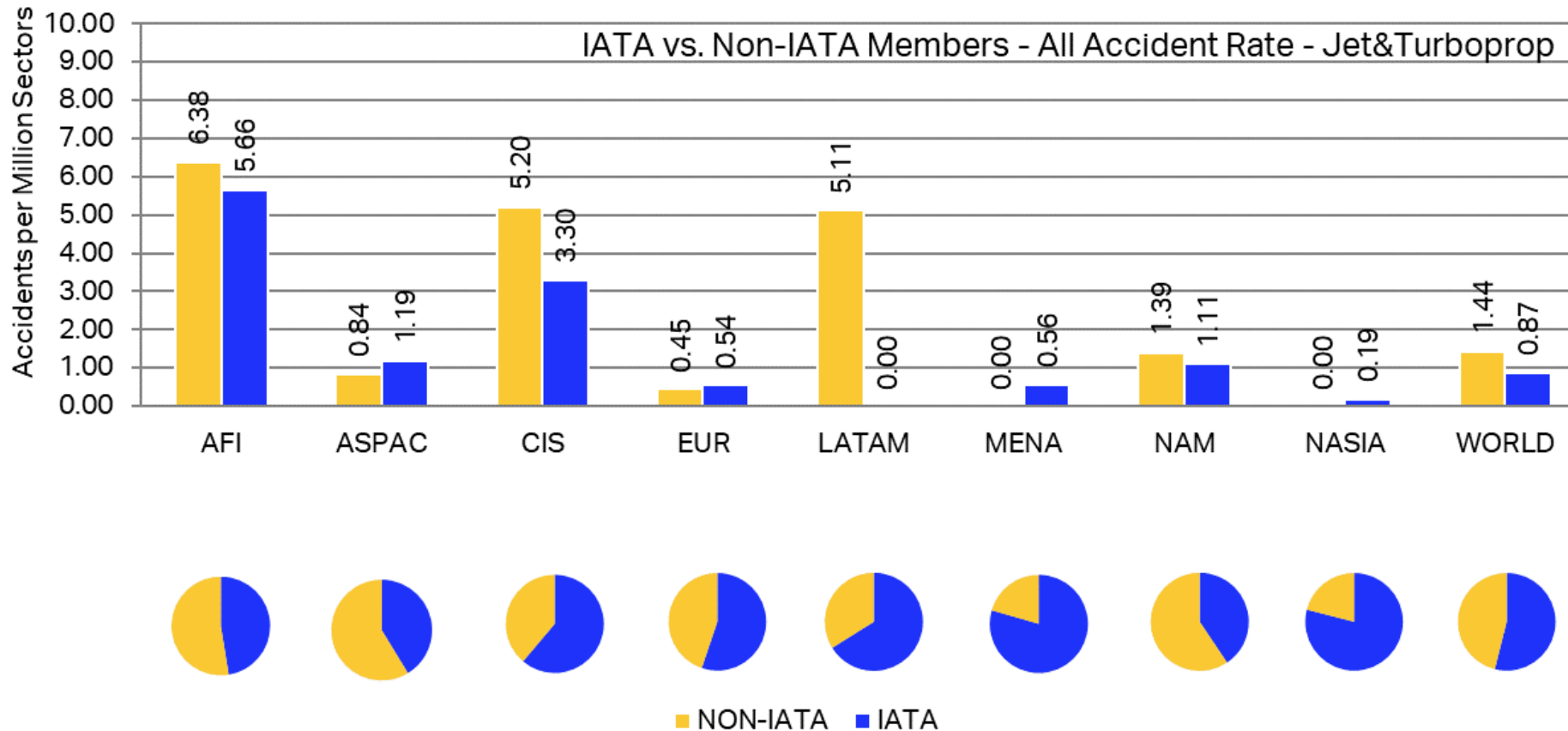
# IATA/ IOSA Accidents



# IATA Member Accident Rate

All Accident Rate (Jet & Turboprop) for IATA Members vs. Non-Members, 2019

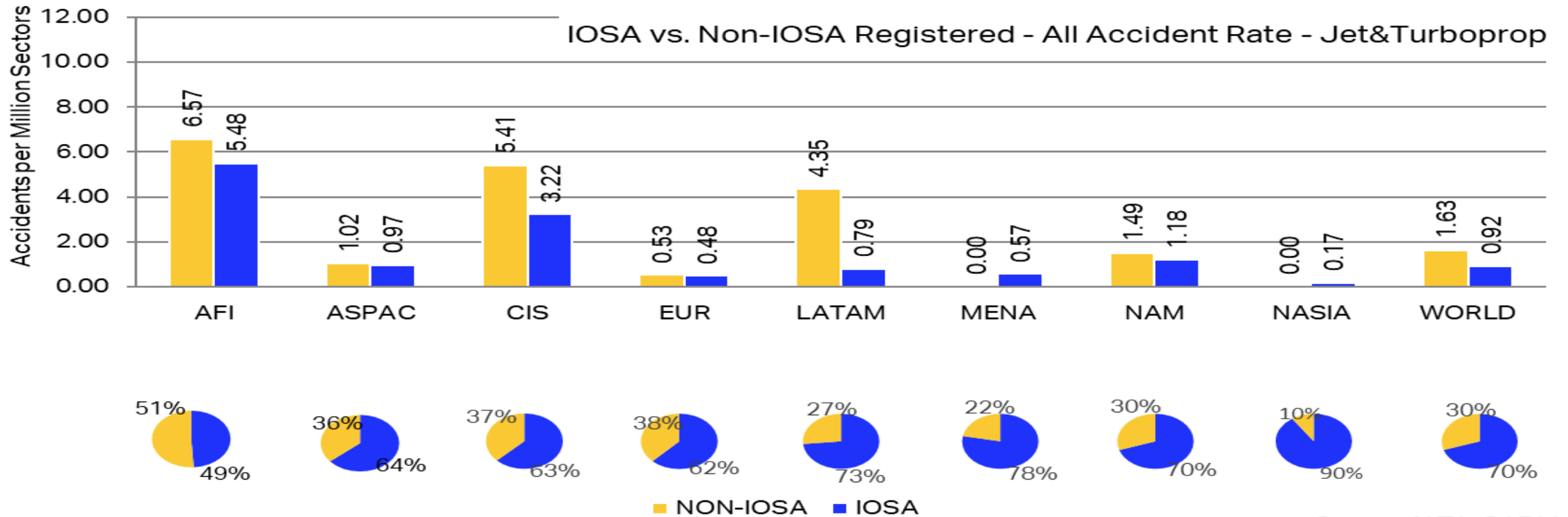
## 2019



# IOSA Operators Accident Rate

All Accident Rate (Jet & Turboprop) for IOSA Operators vs. Non-IOSA, 2019

## 2019



Source: IATA GADM

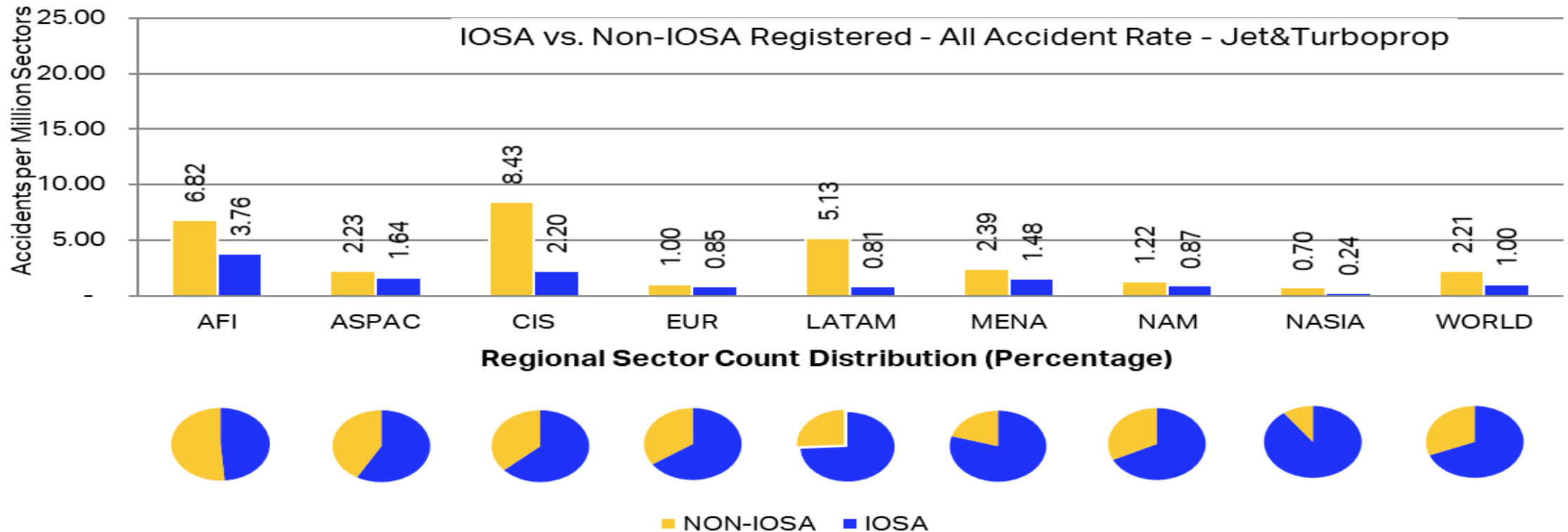
Source: IATA GADM 



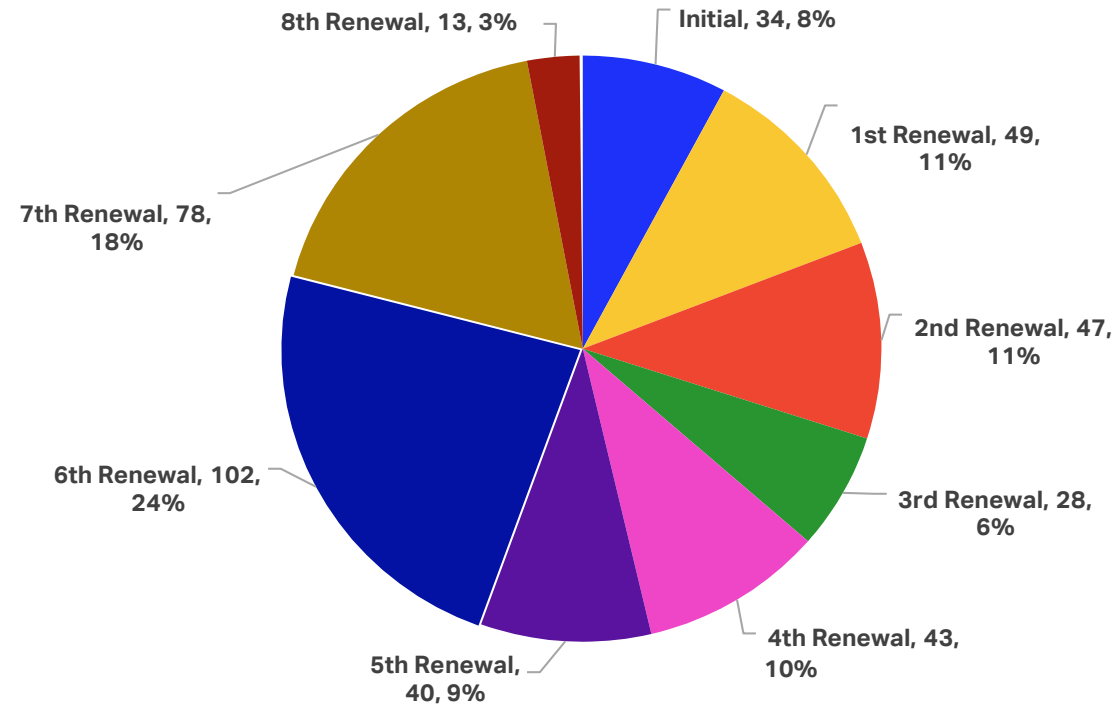
# IOSA Operators Accident Rate Lower than Non IOSA from 2015 to 2019

All Accident Rate (Jet & Turboprop) for IOSA Operators vs. Non-IOSA, 2015-2019

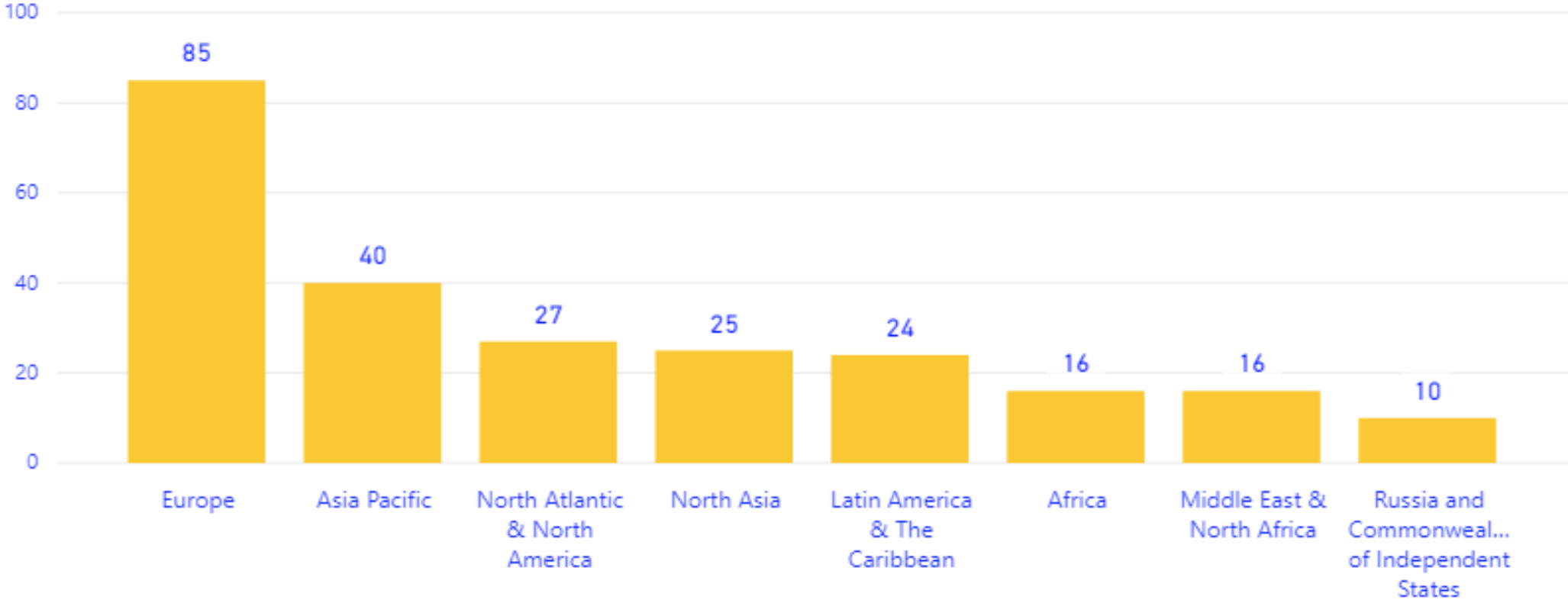
## 2015-2019



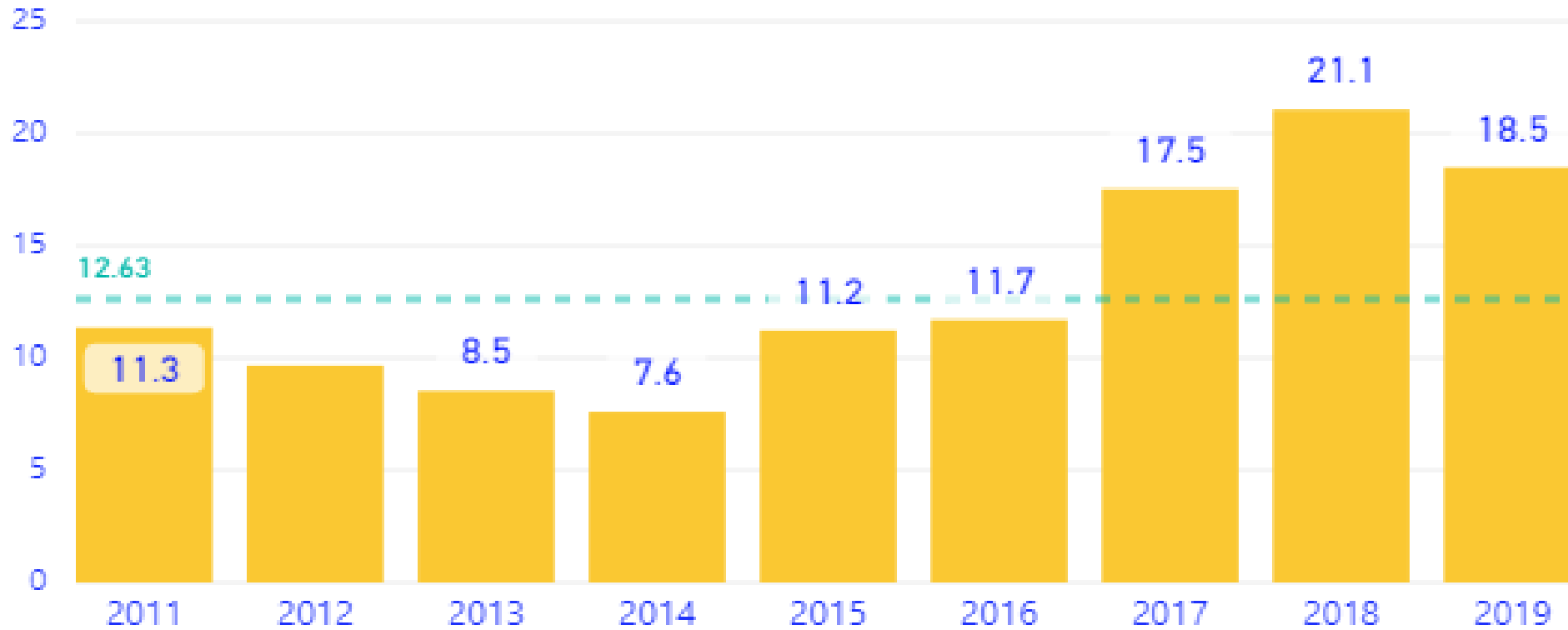
# IOSA Registry Maturity



# Audits by Region

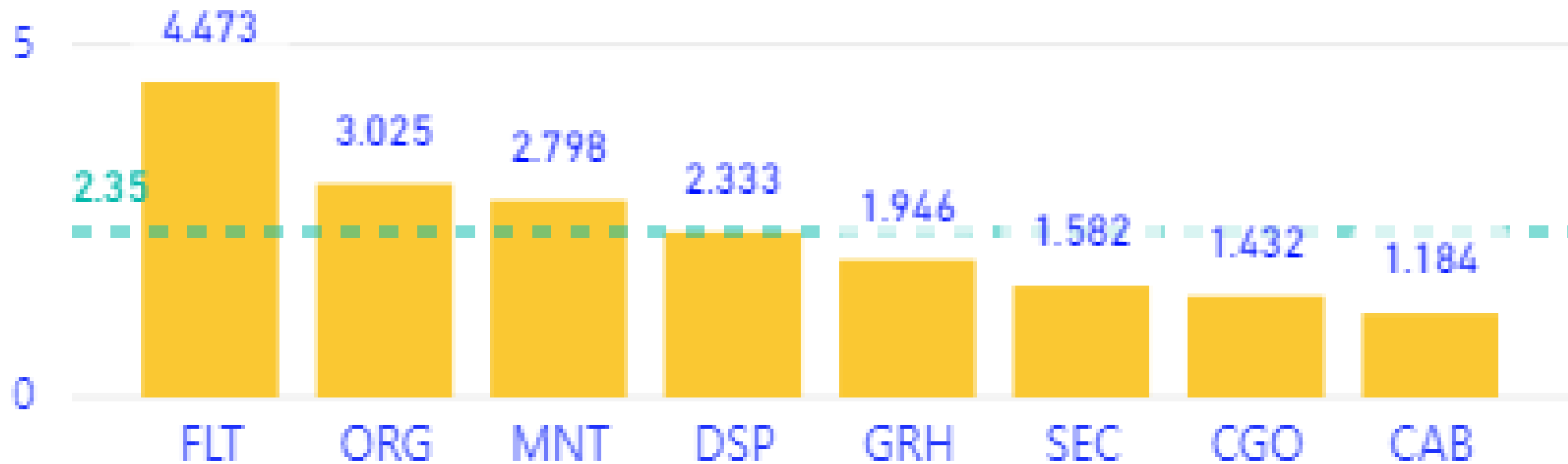


# Average Findings per Audit year

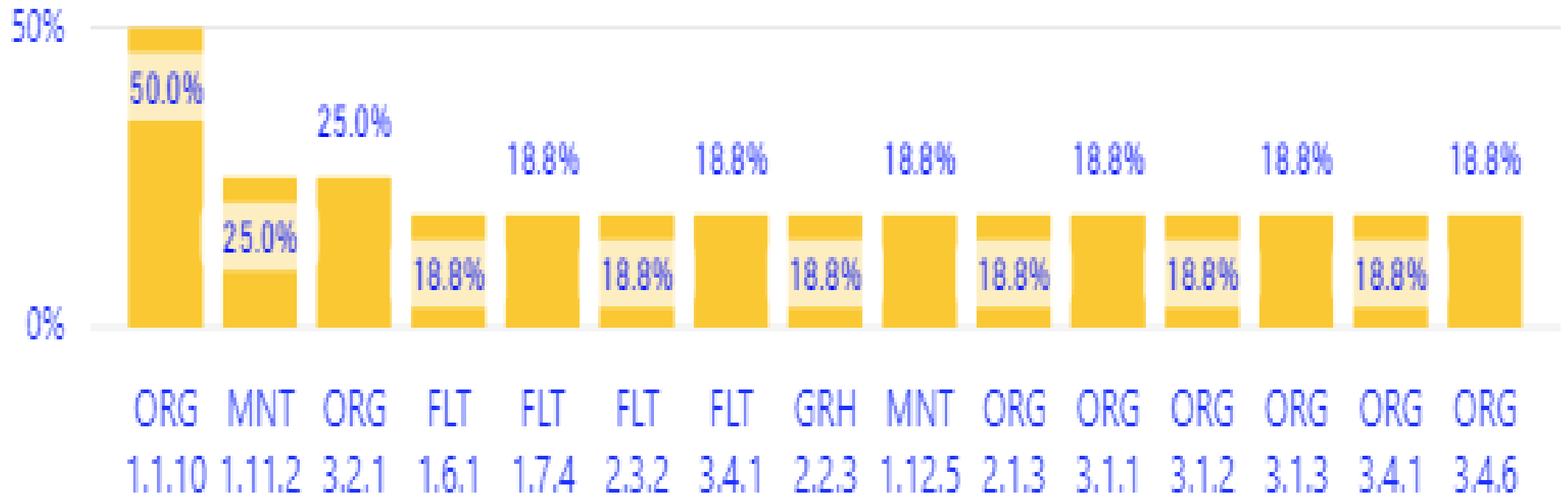




# Average Findings per Section - 2019



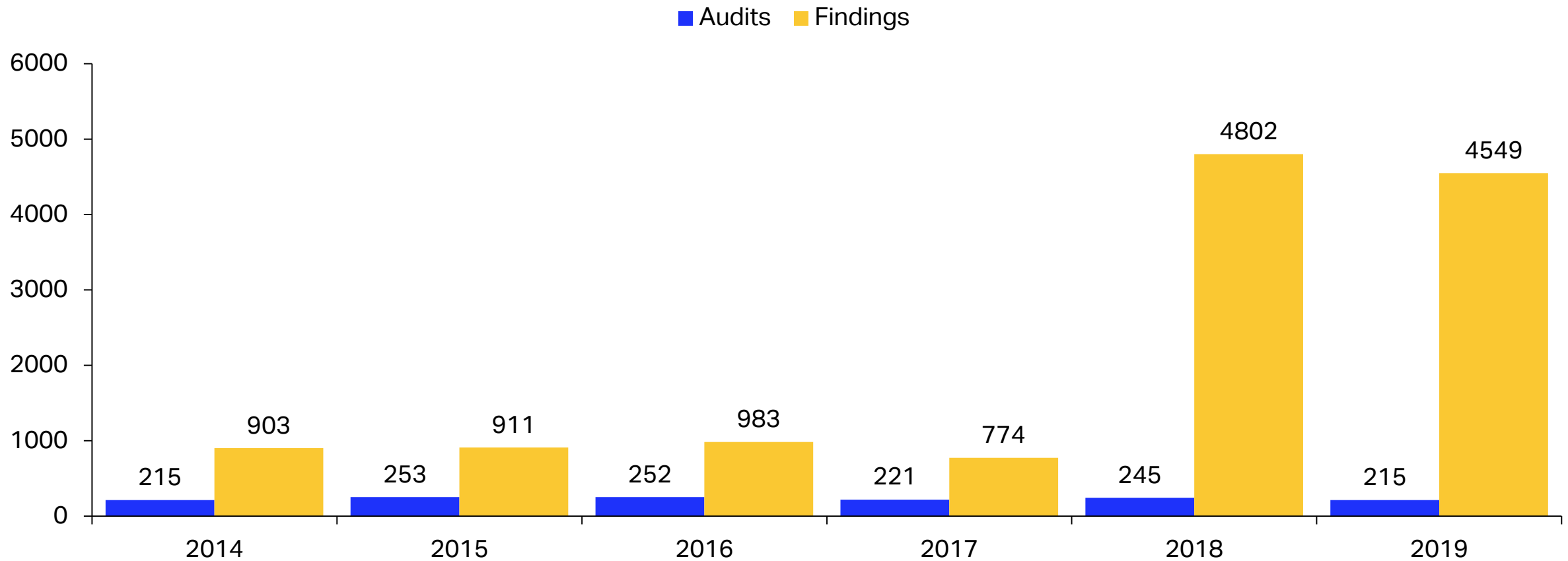
# Top Findings Ratio - Middle East



# IATA/ ISAGO

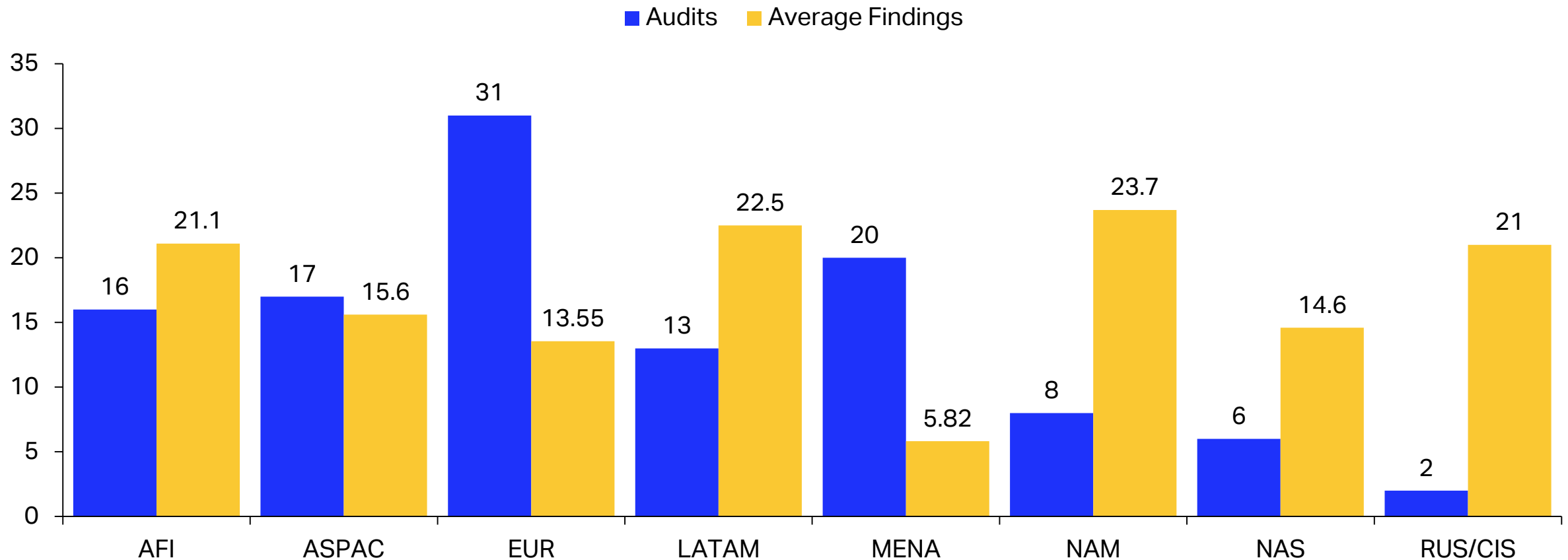


# ISAGO Audit Results Analysis





# Audit Results Analysis - Regions



# Audit Results Analysis Top 5 Findings MENA

HDL 1.11.3 – In-plane loading system reporting, and W&B and balance process if ULD are loaded with missing locks or latches

HDL 2.1.4 – Procedure for 1) Signed NOTOC 2) leakage form ULD 3) UN number on NOTOC matches shipment label 4) ULD is loaded in designated position 5) NOTOC distribution

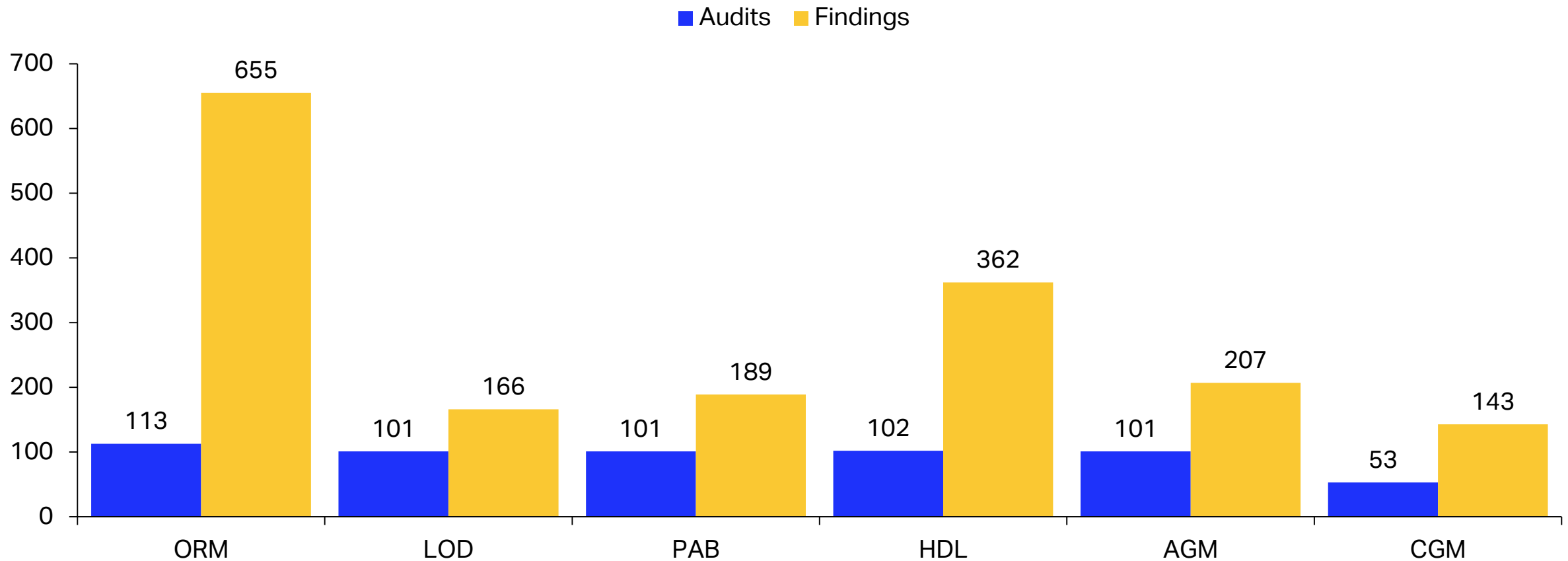
HDL 1.1.1 – Operation of access doors

ORM 4.1.3 – Training program and recurrent training

PAB 1.2.5 – Procedure for handling and communication to load control of special baggage items



# Audit Results Analysis - Disciplines



Thank you!

