

2021 Mid-Year Accident Update

Performance at 30th
June 2021

18 August 2021



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Manipulating the Interactive Report

Interactive reporting enables the reader to customize reports.

If you see an icon on the left top corner, such as the one here, it means that there are notes, move the mouse over the icon, and the notes will appear



If you see a bar chart icon, such as the one here, it means the chart is interactive.



To run an interactive chart, follow these steps:

- Double-click on the graph icon at the top right-hand corner of the chart.
- One this file, if asked.
- Select the desired conditions in the filter box next to the chart.
- Select the range of years at top of the chart.

Manipulating the Interactive Report

This mid year analysis report allows you to focus more precisely on certain data by applying a combination of filters. Click and highlight your selection, and the data will automatically correspond to your choice. While each chart is presented in the best way for its data, you may select the options you like in any way you would like them displayed.

Observations

- This is an update of 2021 accidents classified by the Accident Classification Task Force (ACTF) on July 21st and 22nd.
- Due to the latency time between an accident occurrence and its reporting, this update may not contain all accidents that occurred in the first half of 2021.
- The rates in this presentation are based on the most accurate flight counts available to IATA at the time of production. Historical rates may have changed slightly as actual sector counts replace previous estimates. Some regions may have greater variability on the sector count as new and more up-to-date data is available. This may result in differences in the accident rates when compared to previous IATA reports.
- IATA determines the accident region based on the operator's "home" country as specified in the operator's Air Operator Certificate (AOC).

Executive Summary

- During HY 2021, there were a total of 12 accidents worldwide, of which three incurred fatalities.
- The one Jet fatal accident incurred 62 on board fatalities and two turboprop fatal accidents incurred 13 on board fatalities.
- IATA member airlines suffered a total of three non-fatal accidents.
- In the category 'all accidents per million sectors' IATA member airlines continue to trend lower than all industry at 0.43 versus 0.92 in Half Year (HY) 2021, a pattern which is also reflected in the five-year average.
- It is worth noting that the accident rate is extremely low, so any accident will create a spike.
- As more information became available, three accidents were removed from the 2020 data, due to no longer meeting IATA accident criteria, thus changing the accident rate from 1.71 to 1.58 accident per million sectors.

Executive Summary

- The number of air traffic reported in the first half of 2021 (Jan-Jun) is up by 23% compared to same period of last year (Jan-Jun 2020); and it represents 68% of the traffic in 2019 Jan-Jun

Accidents

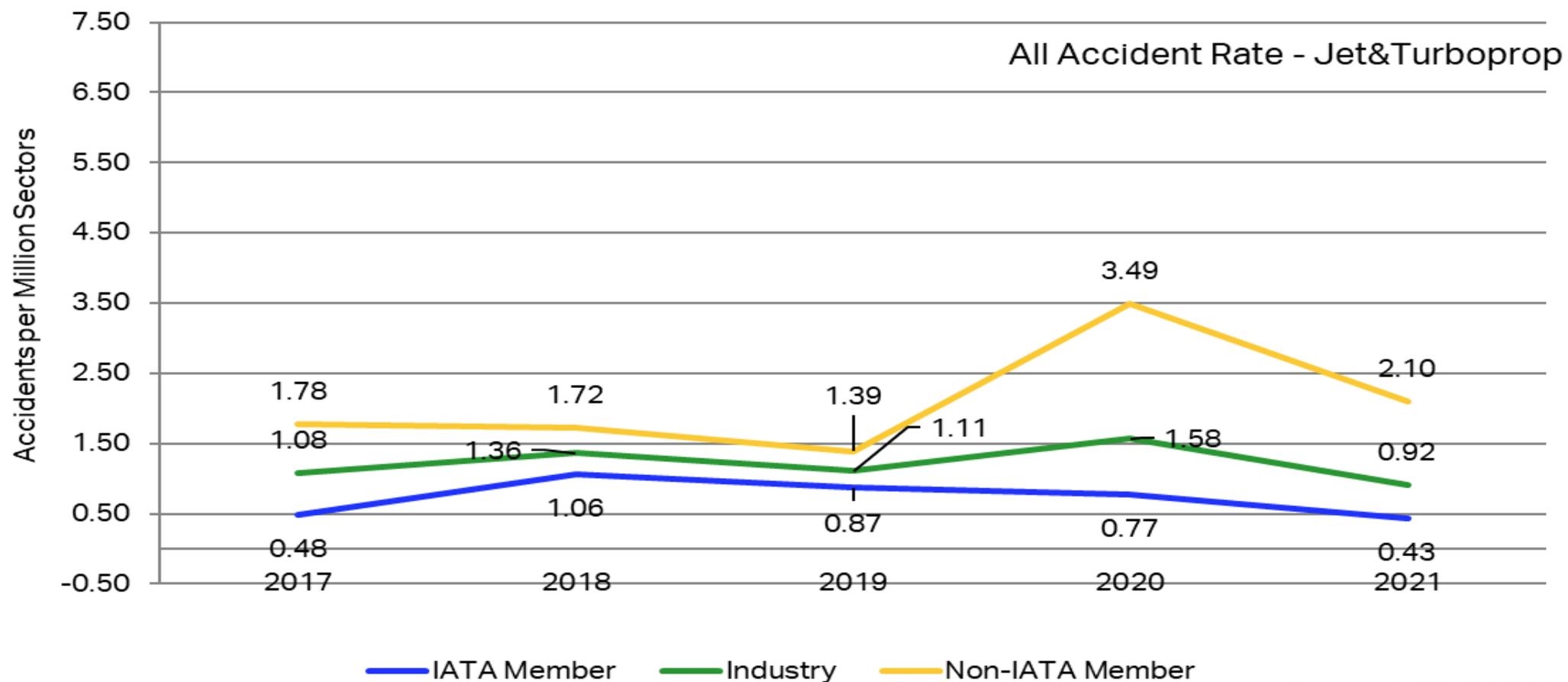


2020 Half Year (HY) Accidents Overview

	FY 2020	HY 2021
Total Accidents	35	12
Total Jet Hull Losses	3	2
Total Turboprop Hull Losses	5	2
Total Fatal Accidents	5	3
Total Fatalities on board	132	75
Total IATA Member Accidents	12	4

Accident Rate (Jet and Turboprop)

All Accidents per Million Sectors 2016 to 2021 (Half Year)



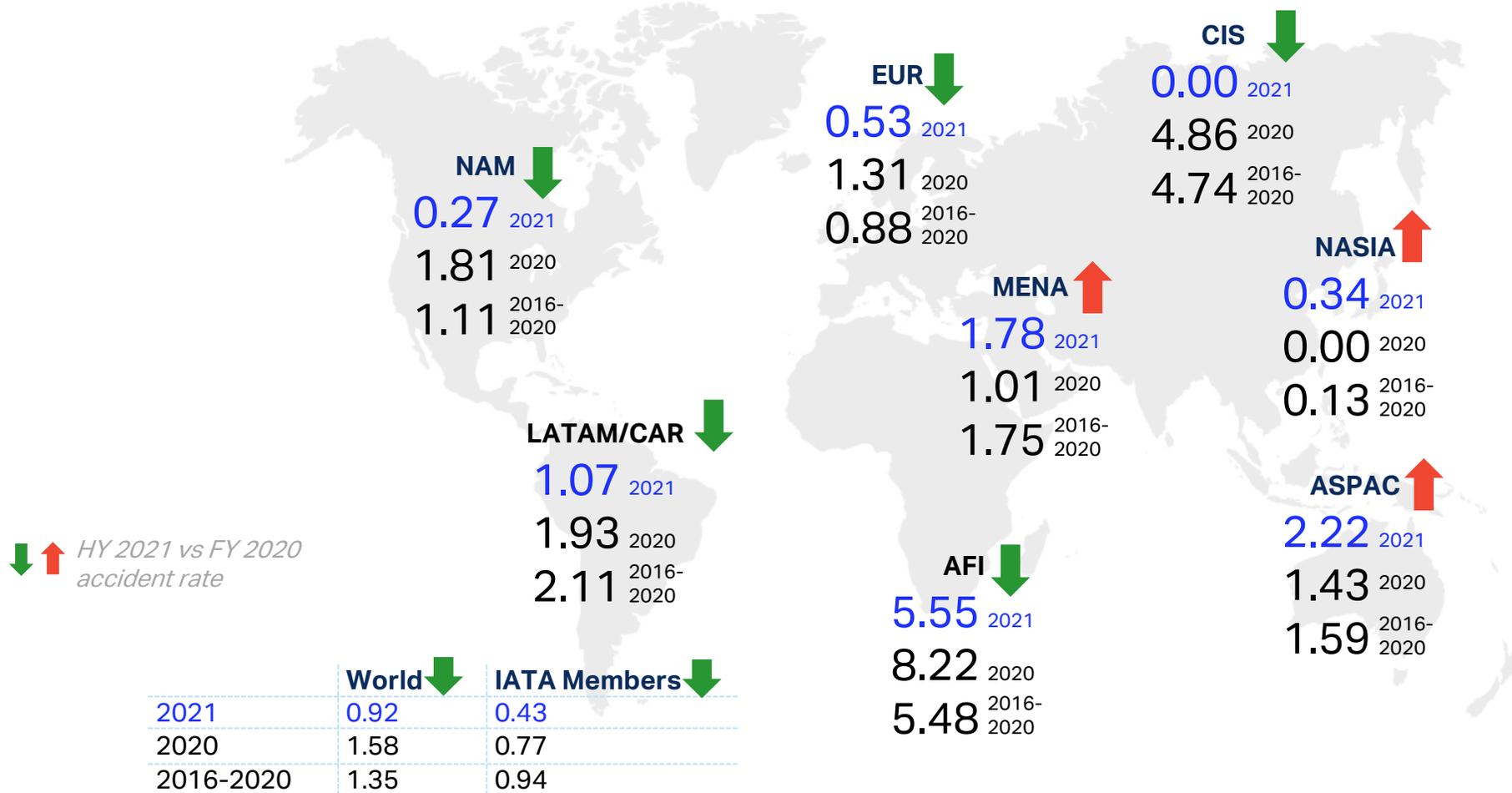
Source: IATA GADM

Source: IATA GADM



Accident Rate per Region of Operator

All Accident Rates per Region of Operator as 30th June 2021



Source: IATA GADM

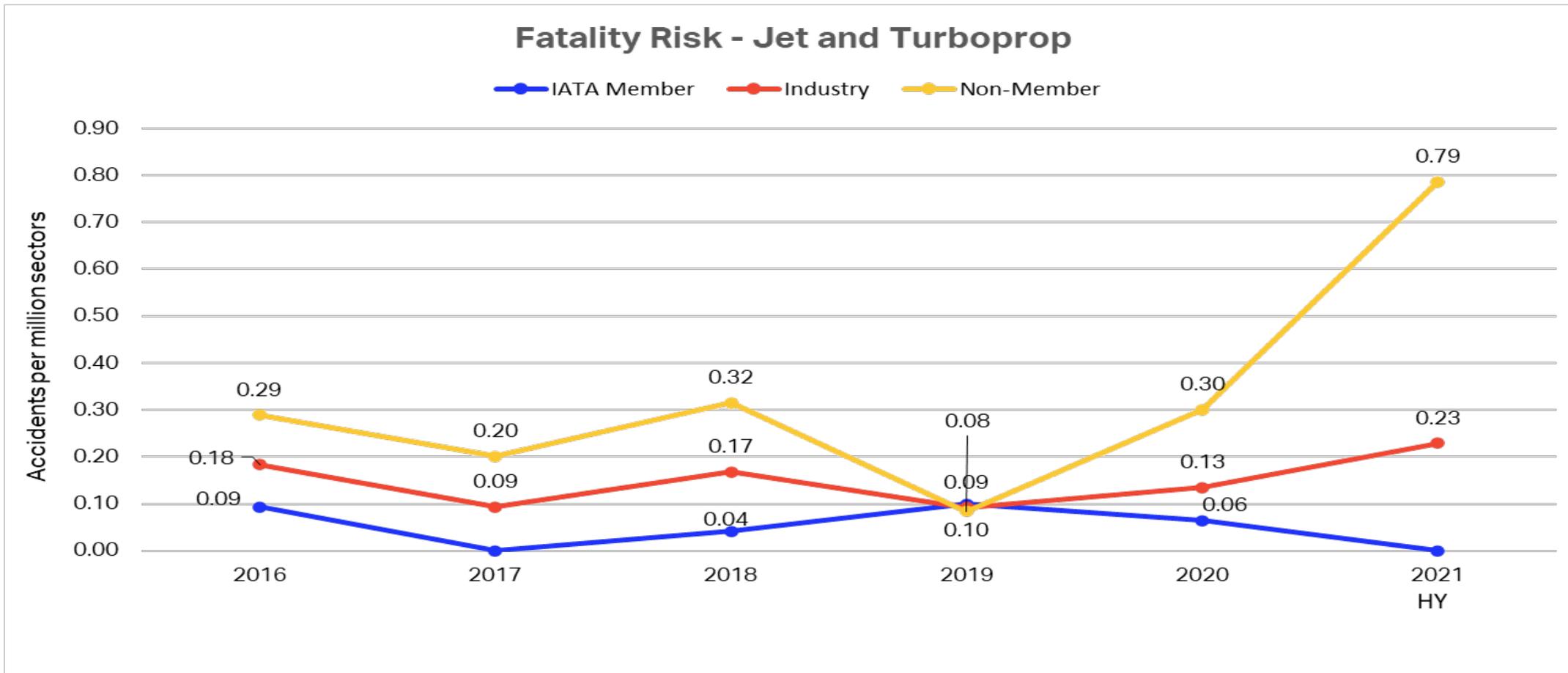


Fatality Risk



Industry Fatality Risk

Fatality Risk (Full-Loss Equivalents per Million Sectors)

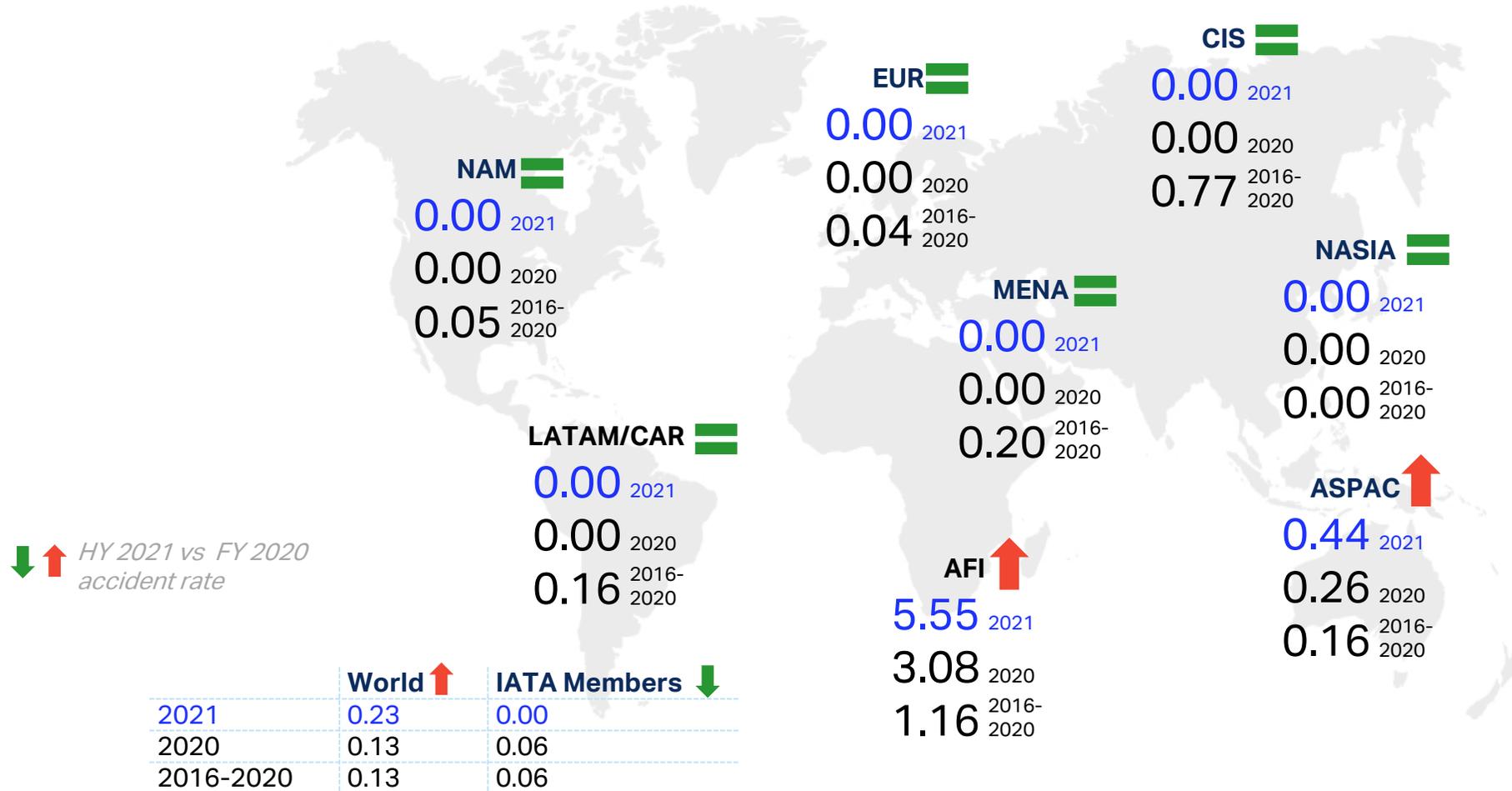


Source: IATA GADM



Fatality Risk per Region of Operator

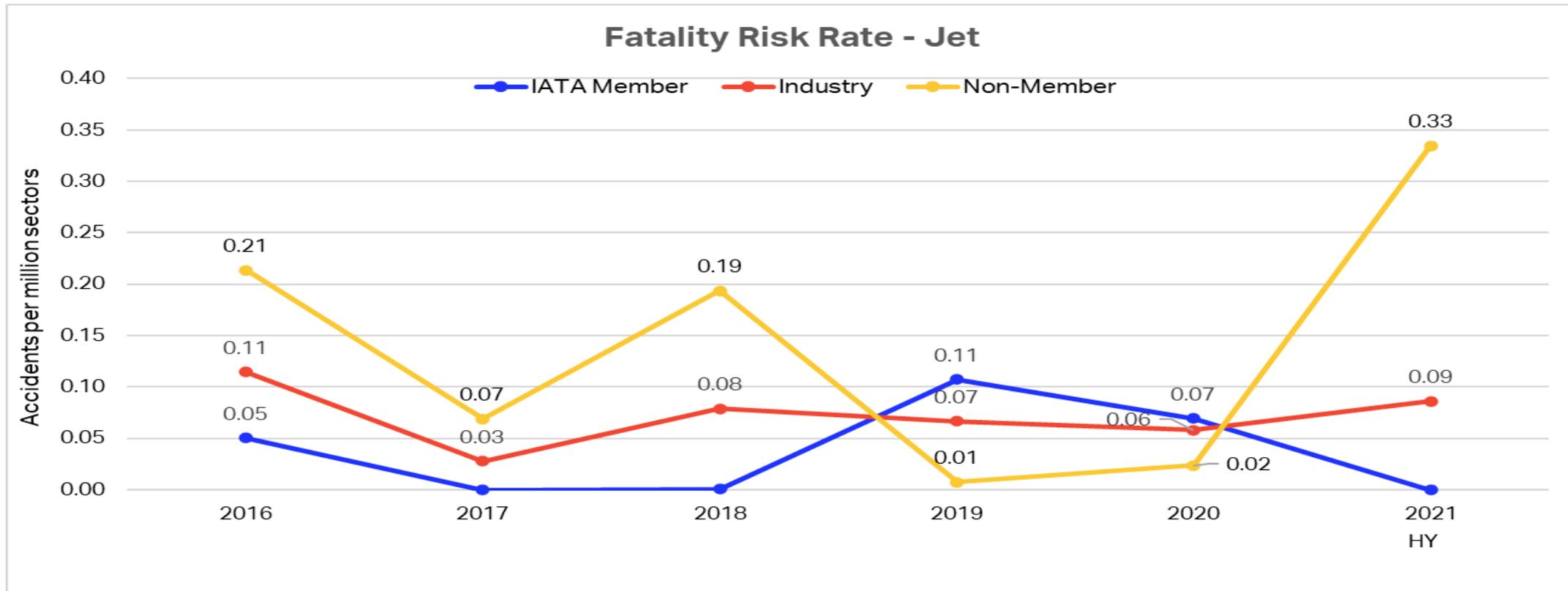
Fatality Risk per Region of Operator as at 30th June 2021



Jet Fatality Risk

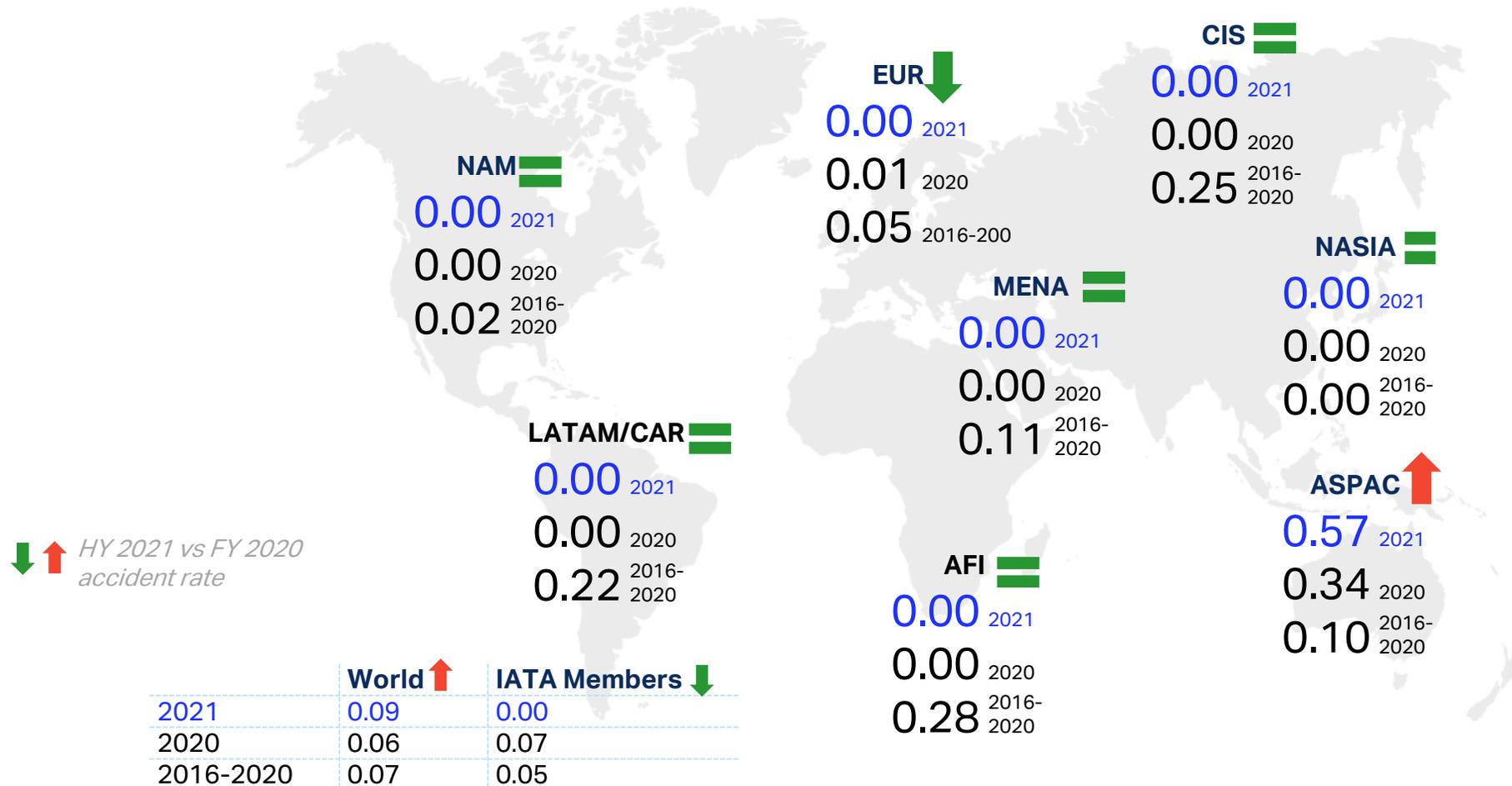


Jet Fatality Risk (Full-Loss Equivalents per Million Sectors)



Jet Fatality Risk per Region of Operator

Jet Fatality Risk per Region of Operator as at June 30th 2021

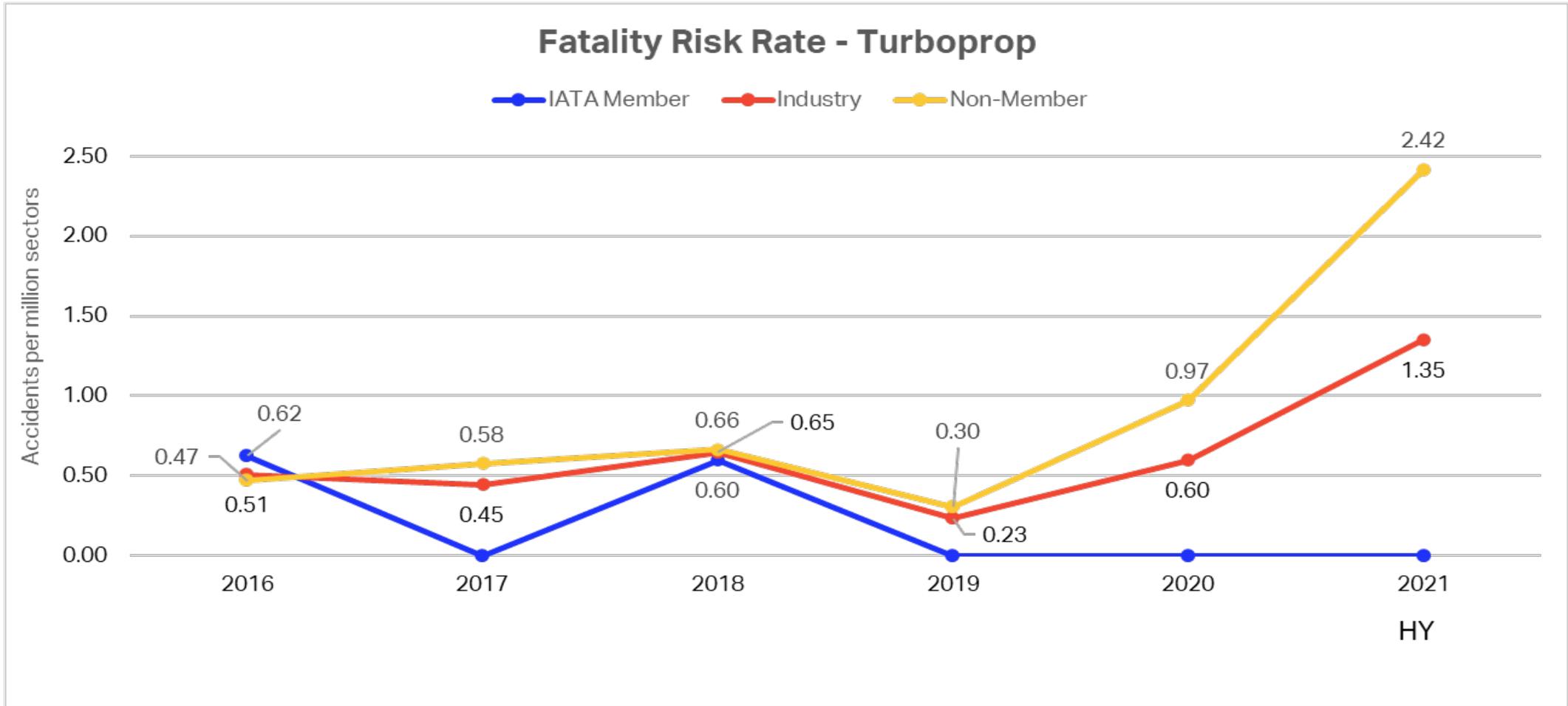


Source: IATA GADM



Turboprop Fatality Risk

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

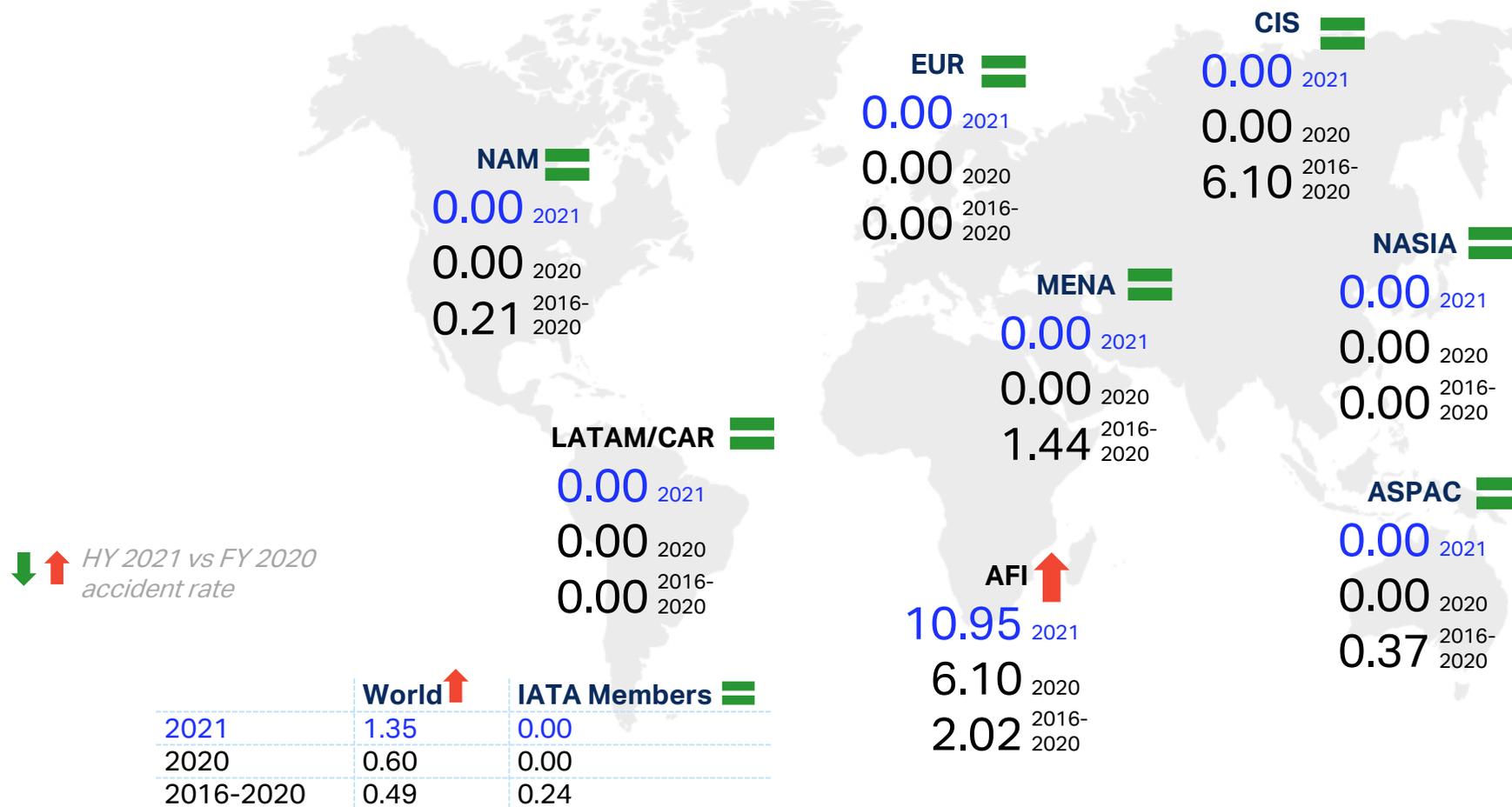


Source: IATA GADM



Turboprop Fatality Risk

Turboprop Fatality Risk per Region of Operator as at 30th June 2021

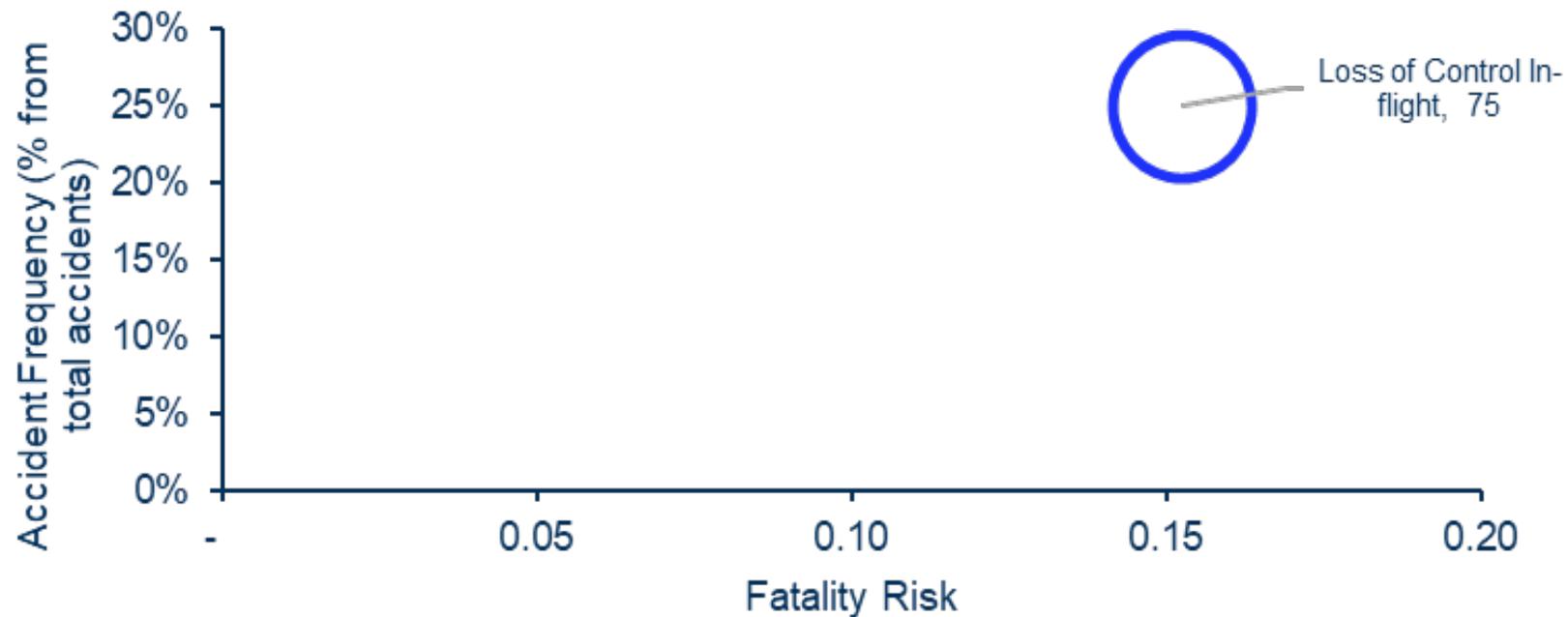


Source: IATA GADM



Fatality Risk by Accident Category

Fatality Risk by Accident Category 2021 HY



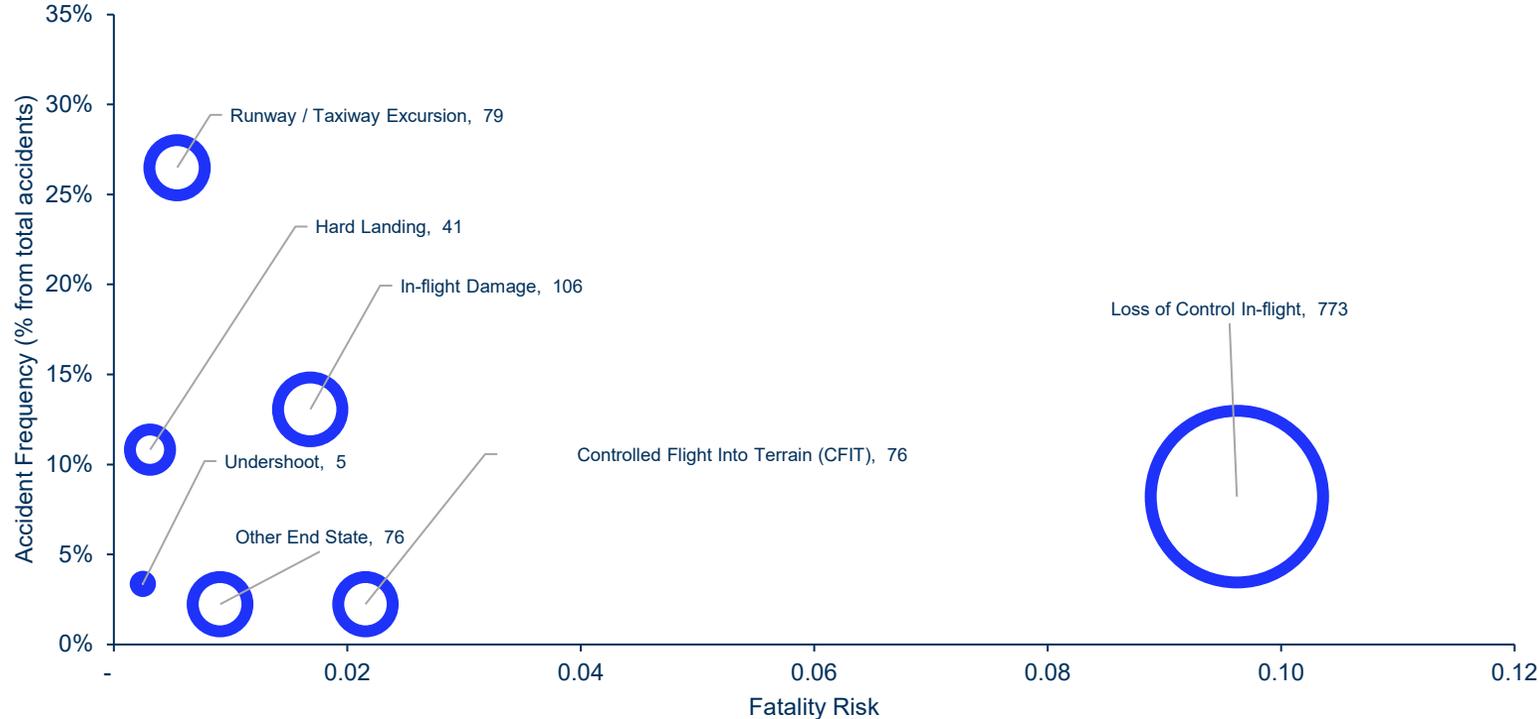
- Note:
- (1) The area of the bubble indicates the number of fatalities associated with the particular accident category, the value is displayed
 - (2) Fatality Risk: number of full-loss equivalents per 1 million flights
 - (3) Accidents not involving fatalities are displayed on this graph as black circles

Source: IATA GADM



Fatality Risk by Accident Category

Fatality Risk by Accident Category from 2016-2021 HY



Three accidents that contributed to 31 fatalities could not be classified due to insufficient information

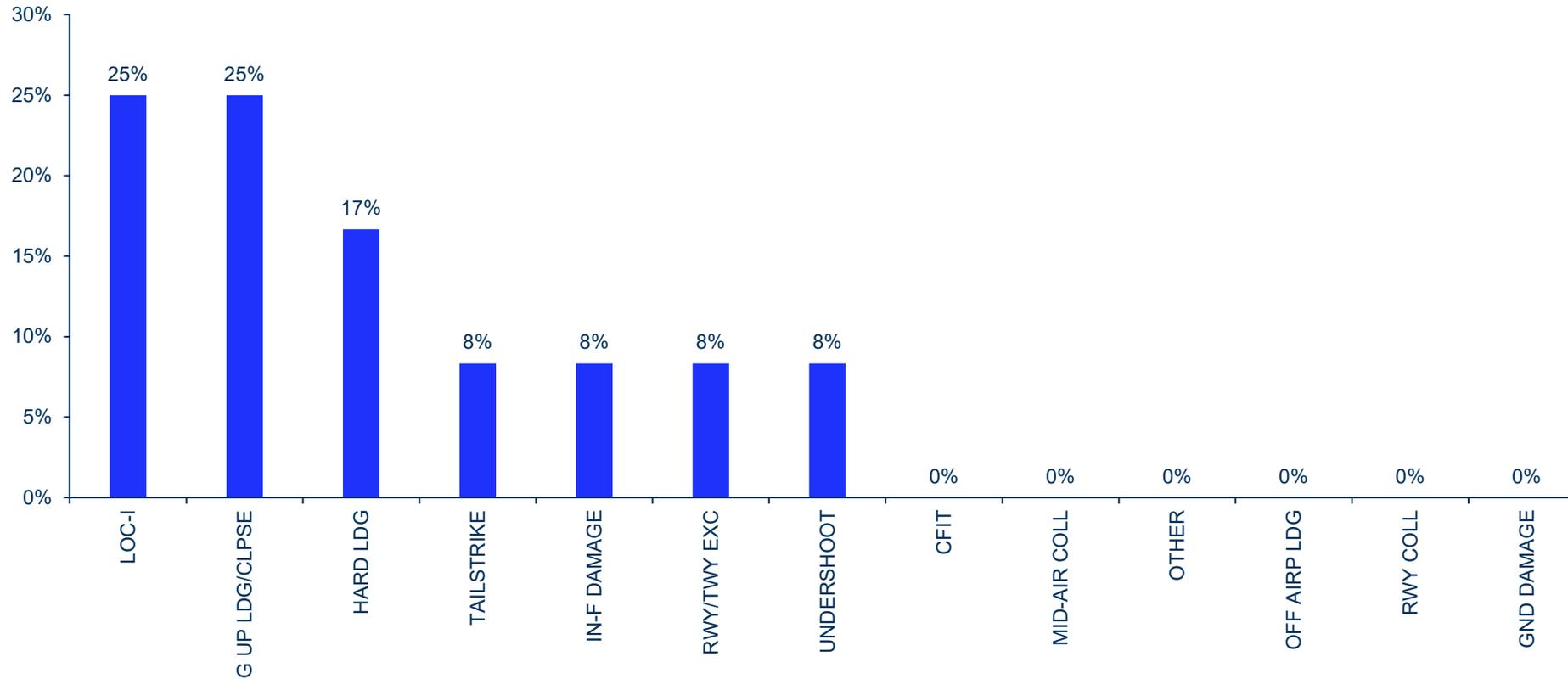
- Note:
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Source: IATA GADM



Accident Category: Percentage

Accident Category 2021



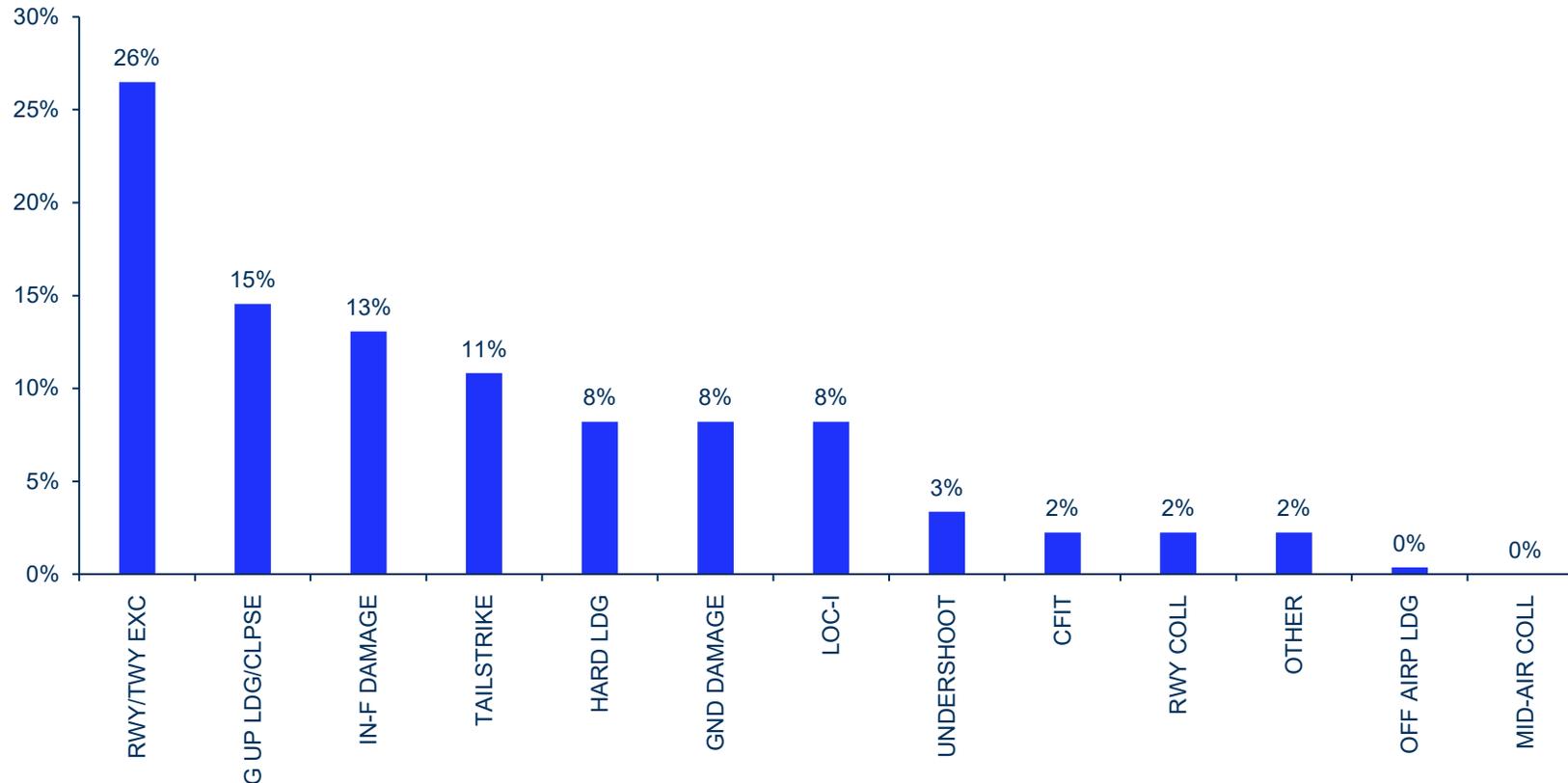
Source: IATA GADM



Accident Category: Percentage

Accident Category from 2016 – 2021 HY

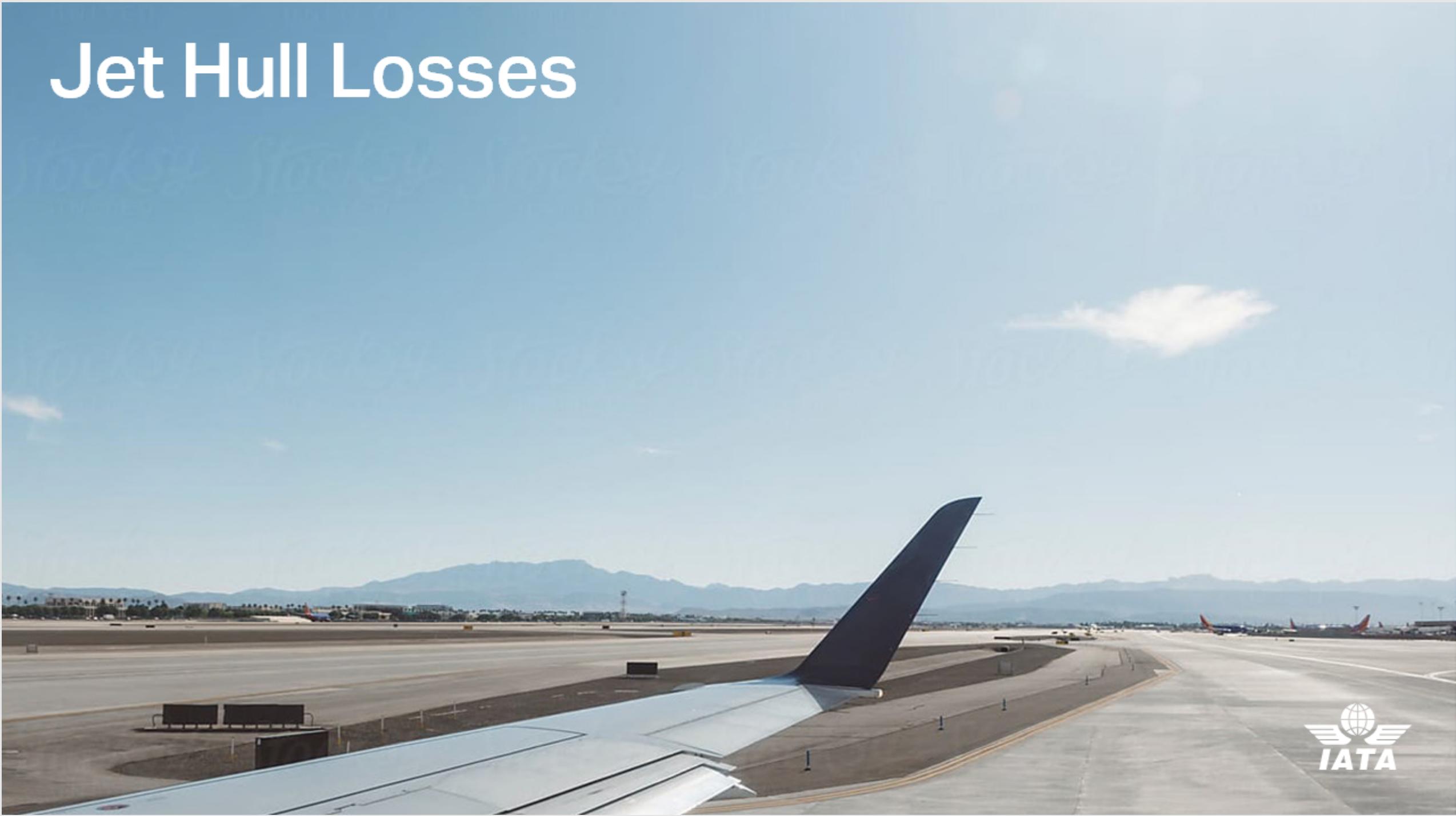
Three accidents could not be classified due to insufficient information



Source: IATA GADM

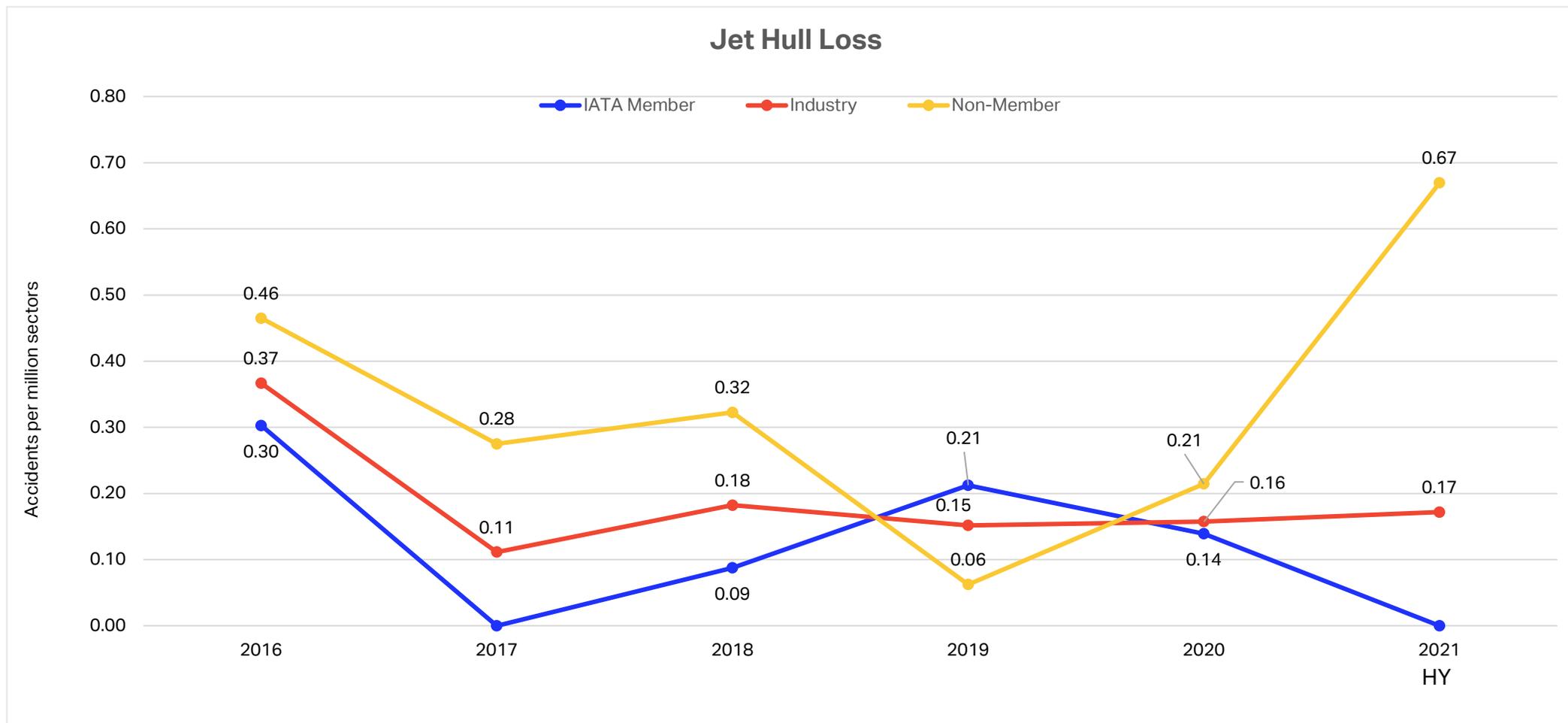


Jet Hull Losses



Jet Hull Loss

Jet Hull Loss Rate per Million Sectors

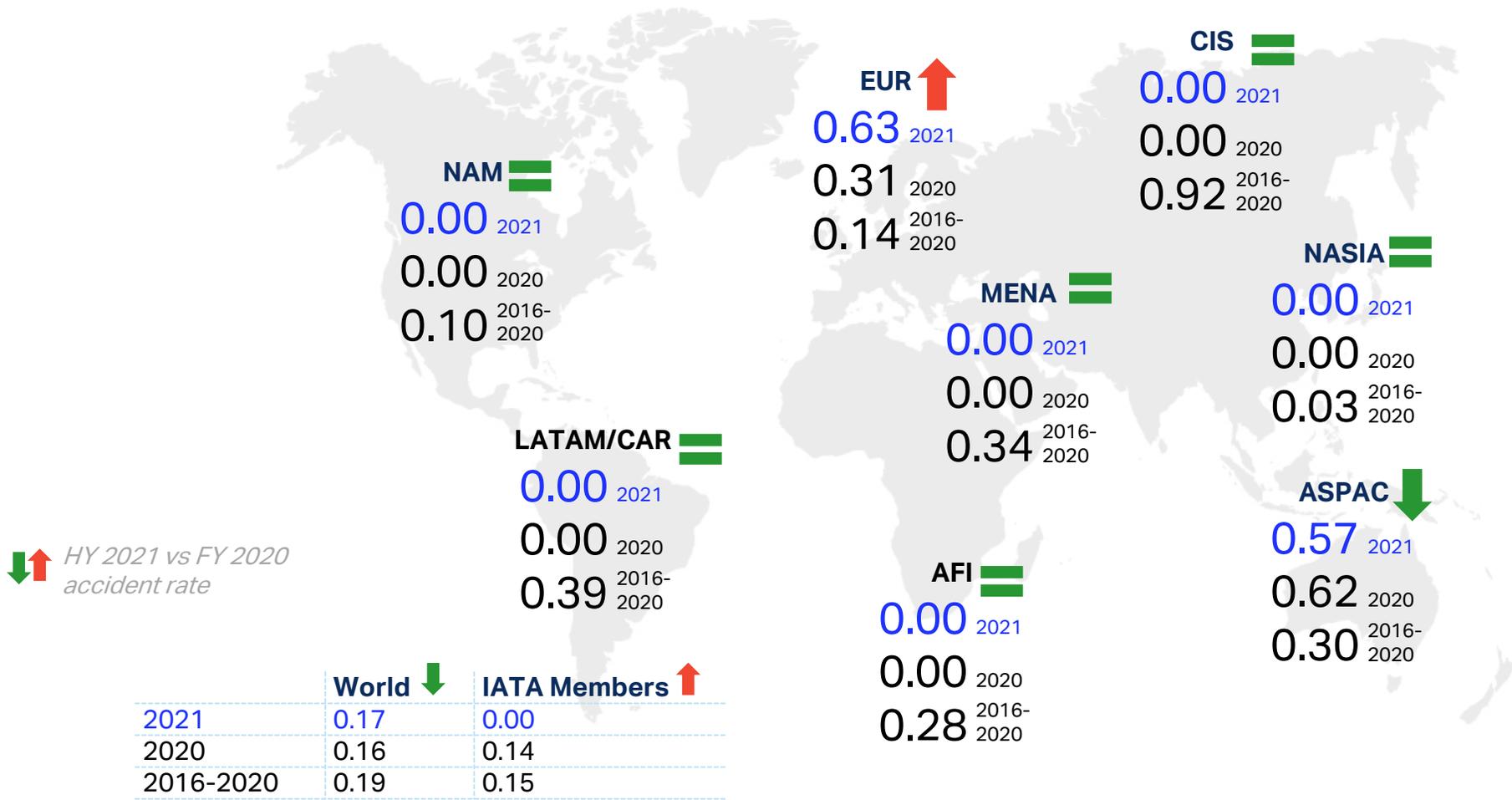


Source: IATA GADM



Jet Hull Loss Accident Rate per Region of Operators

Jet Hull Loss Rate per Region of Operator as at 30th June 2020



	World ↓	IATA Members ↑
2021	0.17	0.00
2020	0.16	0.14
2016-2020	0.19	0.15

Source: IATA GADM

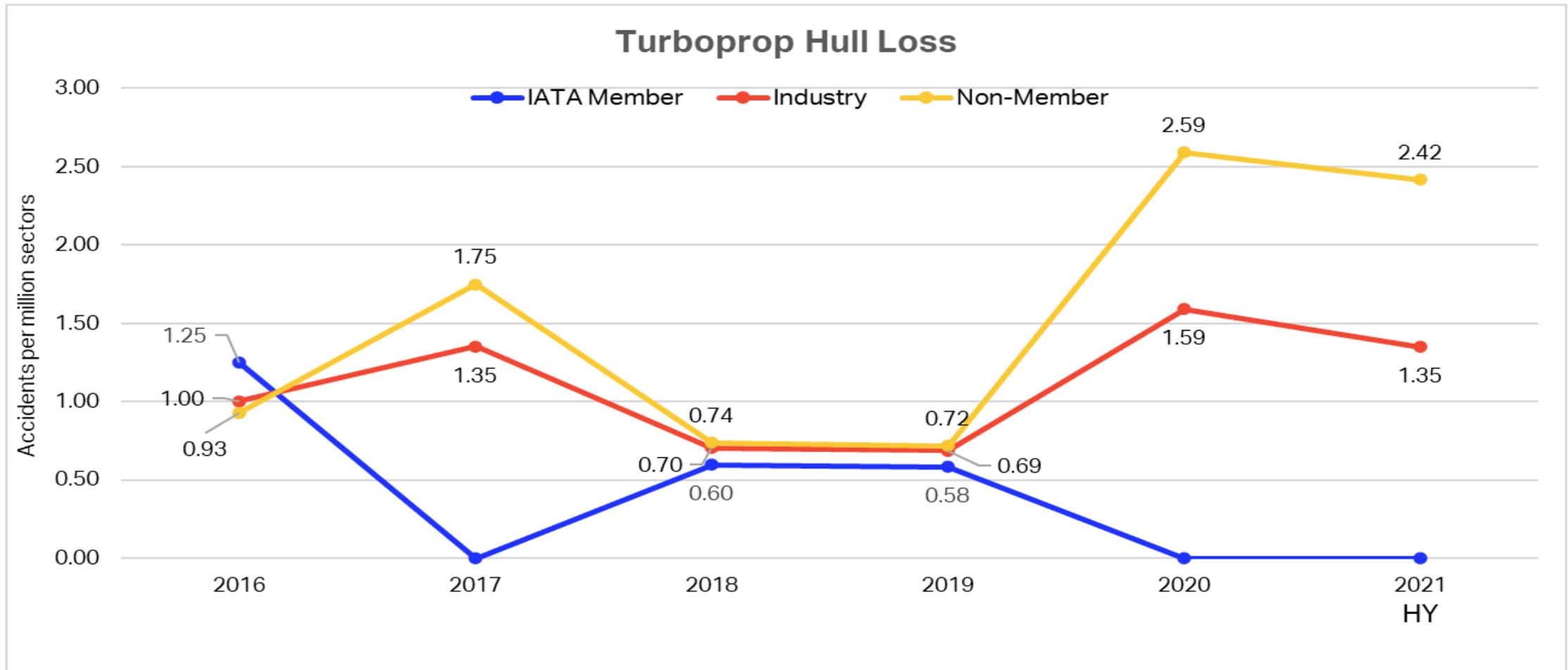


Turboprop Hull Losses



Turboprop Hull Losses

Turbo-Prop Hull Losses per Million Sectors

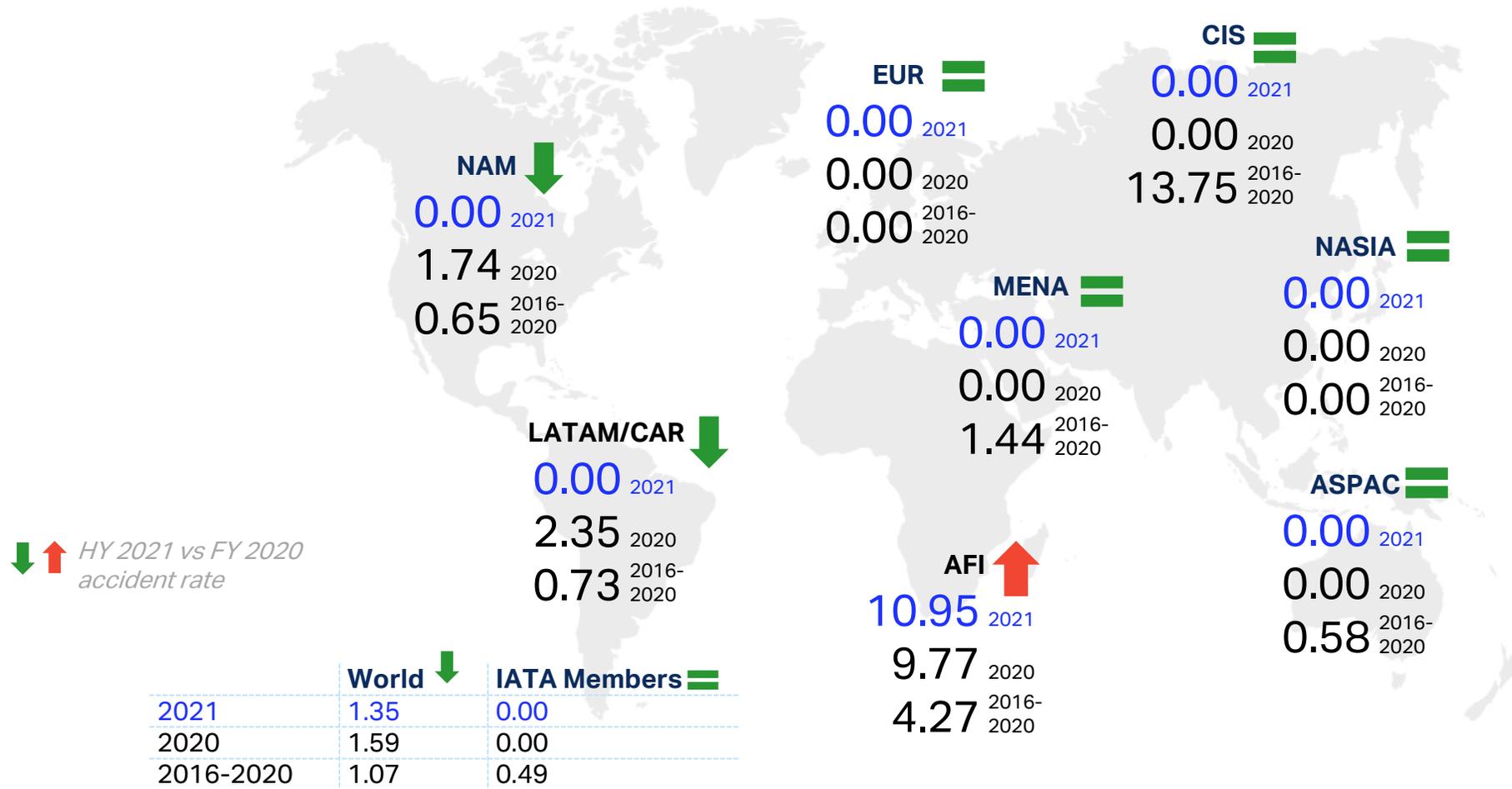


Source: IATA GADM



Turboprop Hull Loss Rate by Region of Operator

Turboprop Hull Loss Rate per Region of Operator as at 30th June 2021

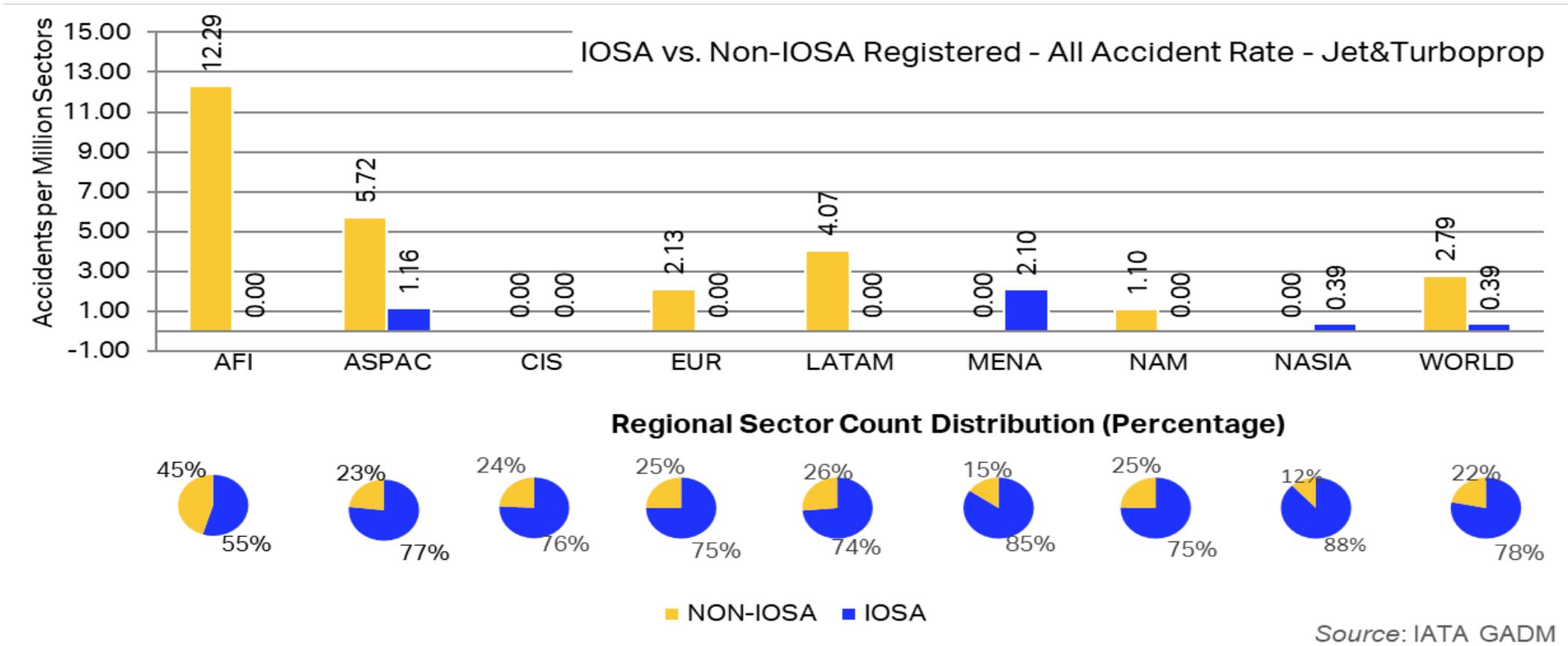


IOSA Vs. Non-IOSA Accidents



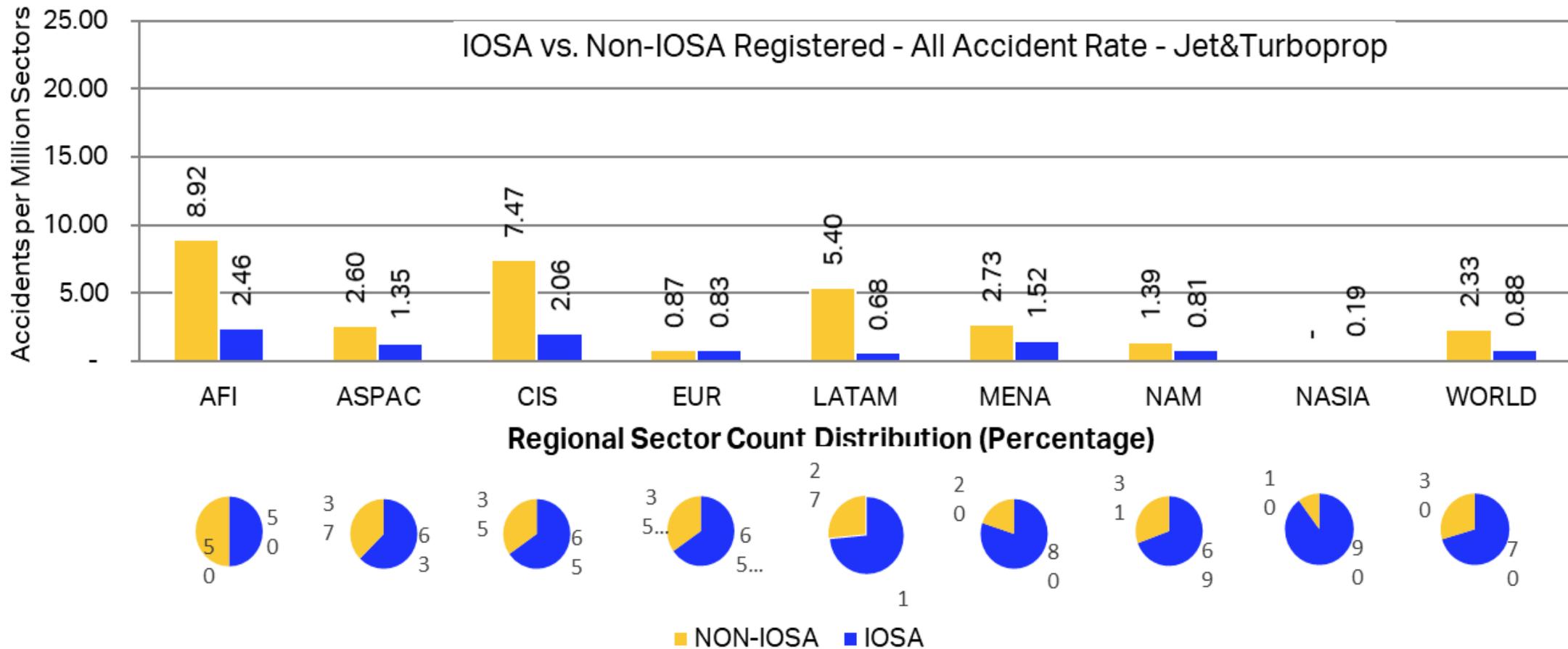
IOSA Vs. Non-IOSA Carriers

All Accident Rate (Jet & Turboprop) for IOSA Operators vs. Non-IOSA, HY 2021



IOSA Vs. Non-IOSA Carriers

All Accident Rate (Jet & Turboprop) for IOSA Operators vs. Non-IOSA, 2016- 2021 HY



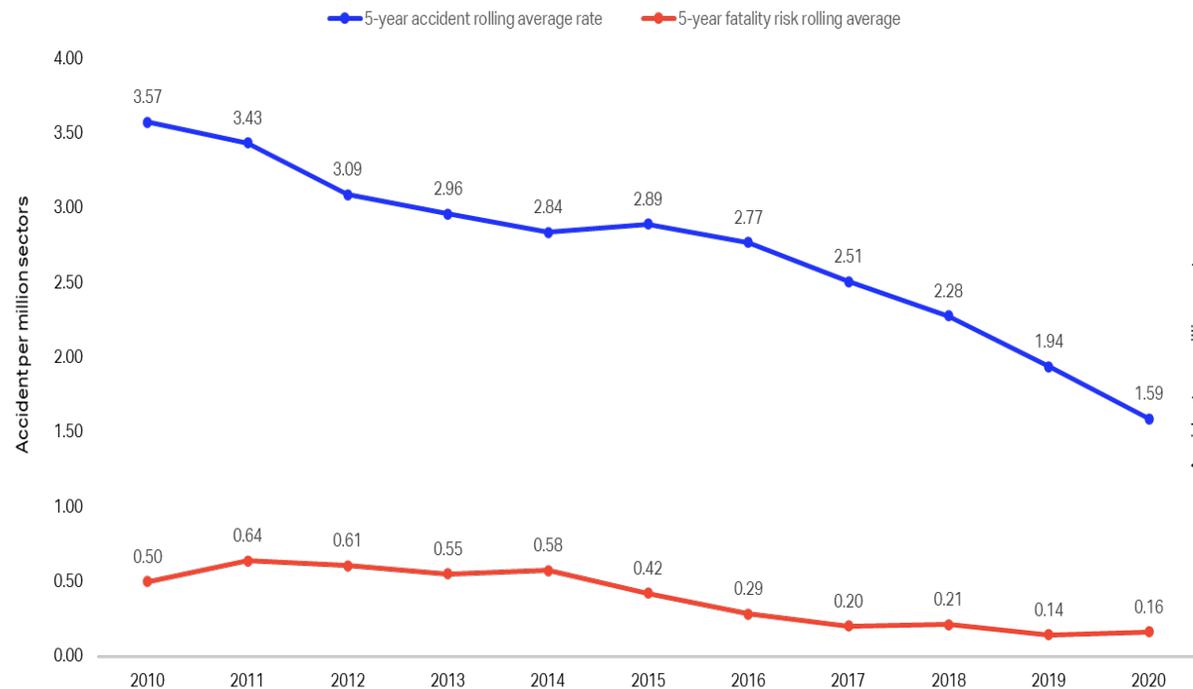
10-year Regional Accident Overview



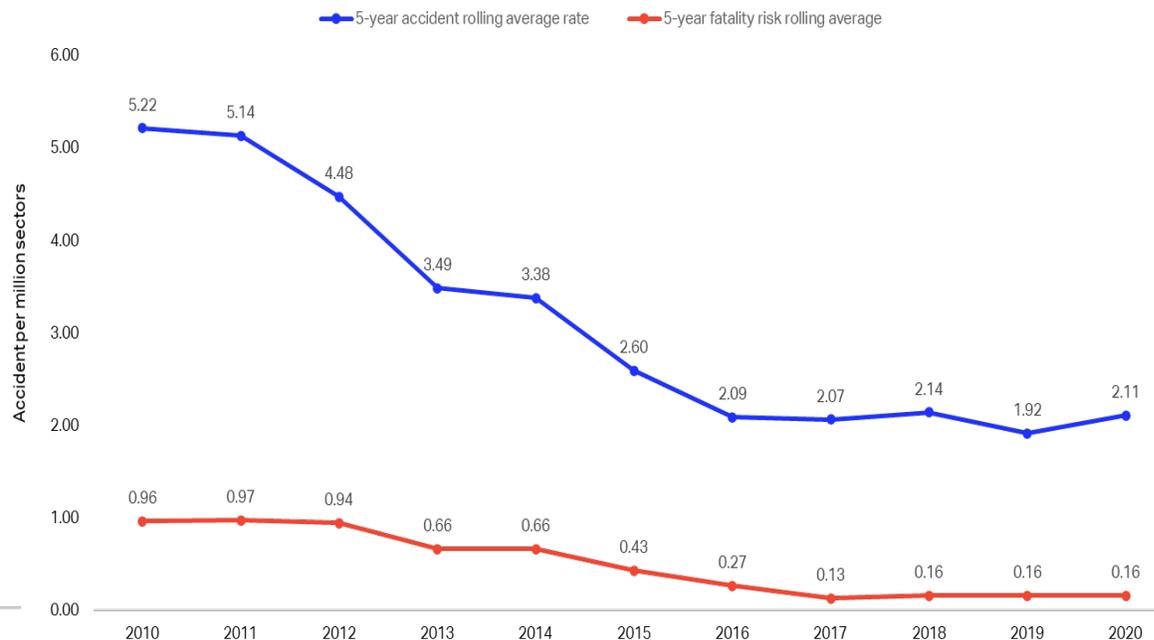


10-year Accident Overview by Region of Operators

ASPAC



LATAM



List of Accidents in HY 2021



Accident List in HY 2021

Date	Month	Operator Region	Operator	Aircraft Type	Propulsion	Severity	Fatalities on Board	IATA	IOSA	Accident Category
2021-01-09	January	ASPAC	Sriwijaya Air	B737-500	Jet	Hull Loss	62	No	No	Loss of Control In-flight
2021-01-19	January	EUR	West Atlantic	B737-400	Jet	Hull loss	-	No	No	Hard Landing
2021-02-01	February	ASPAC	Nippon Cargo Airlines	B747-8	Jet	Substantial Damage	-	Yes	Yes	Tailstrike
2021-03-01	March	MENA	Air Algerie	ATR 72	Turboprop	Substantial Damage	-	Yes	Yes	Gear-up Landing / Gear Collapse
2021-03-02	March	AFI	South Sudan Supreme Airlines	Let L-410	Turboprop	Hull Loss	10	No	No	Loss of Control In-flight
2021-03-18	March	LATAM	VivaAerobus	A320	Jet	Substantial Damage	-	No	No	Gear-up Landing / Gear Collapse
2021-03-20	March	ASPAC	Trigana Air	B737-400	Jet	Substantial Damage	-	No	No	RWY Excursion Lateral
2021-04-25	April	ASPAC	Air Falcon	B737-300	Jet	Substantial Damage	-	No	No	In-flight Damage
2021-05-10	May	NASIA	UNI Air	ATR 72	Turboprop	Substantial Damage	-	Yes	Yes	Undershoot
2021-06-02	June	NAM	Alpine Aviation	B1900	Turboprop	Substantial Damage	-	No	No	Gear-up Landing / Gear Collapse
2021-06-14	June	ASPAC	IndiGo	ATR 72	Turboprop	Substantial Damage	-	Yes	Yes	Hard Landing
2021-06-16	June	AFI	Kin Avia	Let L-410	Turboprop	Hull Loss	3	No	No	Loss of Control In-flight