

## Air Traffic Statistics Report

March 2023



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## 1 Baku FIR Air Traffic Statistics Data (IFR movements)

#### **1.2 Traffic Segments**

1.2.1 The number of IFR movements within Baku FIR recorded in March is **18054 ACFT**, where **12821 ACFT** are overflight traffic and **5233 ACFT** are aerodrome movements.

#### 1.1 General Air Traffic Statistics Data



The number of IFR movements within Baku recorded in March



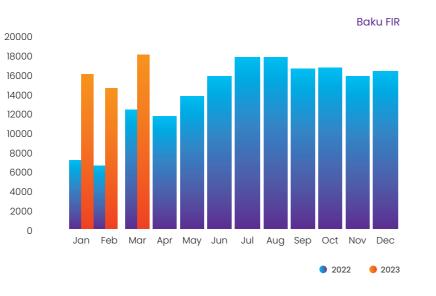
582<sub>acft</sub> Average number of IFR movements per day



The number of IFR movements within Baku FIR recorded in March is **18054 ACFT.** 

Average number of IFR movements per day is **582 ACFT** (Peak day, March 25, 2023 – **642 ACFT**; low day, March 27, 2023 – **521 ACFT**).

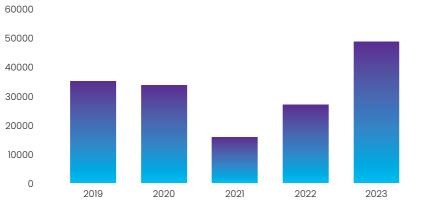
Comparison with March 2022 - +45.9%.

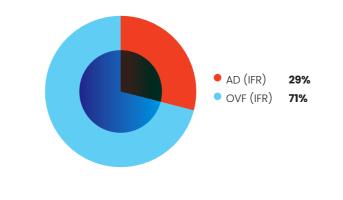


The number of IFR movements within Baku FIR recorded for three months 2023 is **48595 ACFT.** 

Average number of IFR movements per day is **540 ACFT.** Comparison with the same period of 2022 – **+83.9%.** 

Baku FIR - Comparative chart 2019-2023

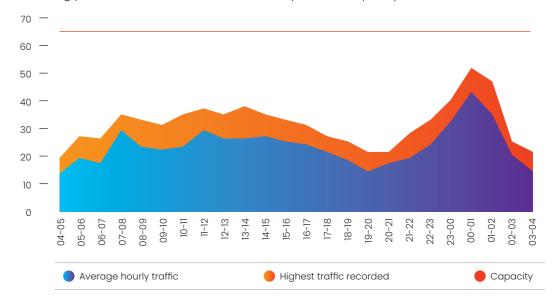




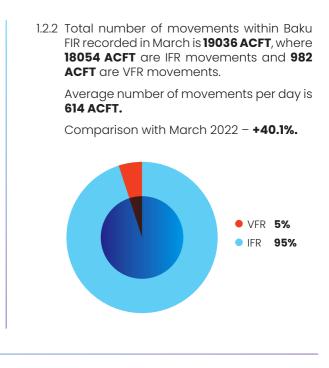
#### 1.3 Capacity vs traffic demand

Highest traffic recorded	53 ACFT (Mai	rch 2
Peak hour (March average data):	00:00-01:00	44
	01:00-02:00 23:00-00:00	36 33
	7:00-8:00	30
	11:00-12:00	30

The following picture reflects the traffic demand by hour vs capacity of Baku FIR.





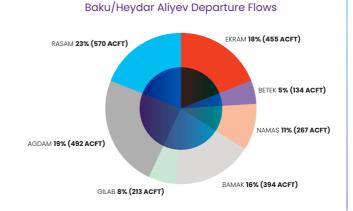


25, 2023 00:00-01:00)

4 ACFT 6 ACFT 3 ACFT 0 ACFT 80 ACFT

## 2 Aerodrome Movements Statistics Data

#### 2.1.3 Air traffic flows – Load of SIDs.



#### 2.1 Heydar Aliyev International airport



The number of IFR movements within Baku recorded in March



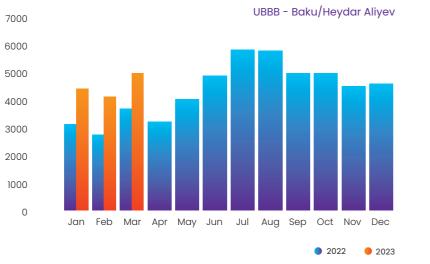
**163** acft Average number of IFR movements per day



Total number of movements at Baku/Heydar Intl' Aliyev airport recorded in March is **5051 ACFT.** 

Average number of movements per day is **163 ACFT** (Peak day, March 25, 2023 – **180 ACFT**; low day, March 06, 2023 – **142 ACFT**).

Comparison with March 2022 – +35.6%.

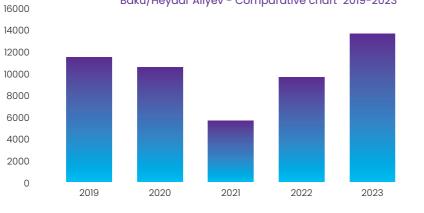


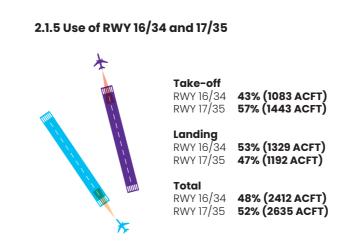
#### 2.1.2 Comparative chart 2019 - 2023

The number of movements at Baku/Heydar Intl' Aliyev airport recorded for three months 2023 is **13563 ACFT.** 

Average number of movements per day is **151 ACFT.** Comparison with the same period of 2022 – **+41.1%.** 

Baku/Heydar Aliyev - Comparative chart 2019-2023



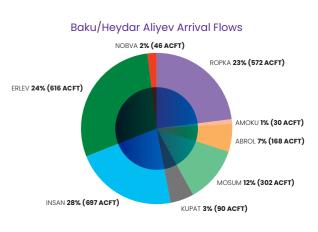


2.1.7 Passenger flights (Budget/low-cost vs classic)

Budget/low-cost airlines: **Buta Airways, Fly Dubai**, **Air Arabia, Air Arabia Abu Dhabi**, Jazeera Airways, **Pegasus Airlines, Flynas, Fly Arystan, WizzAir and WizzAir Abu Dhabi**.

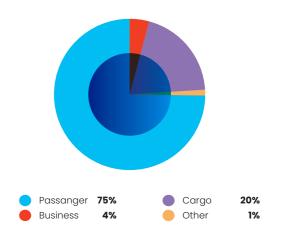
4

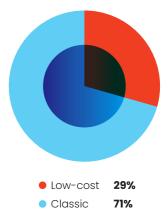




#### 2.1.4 Air traffic flows – Load of STARs

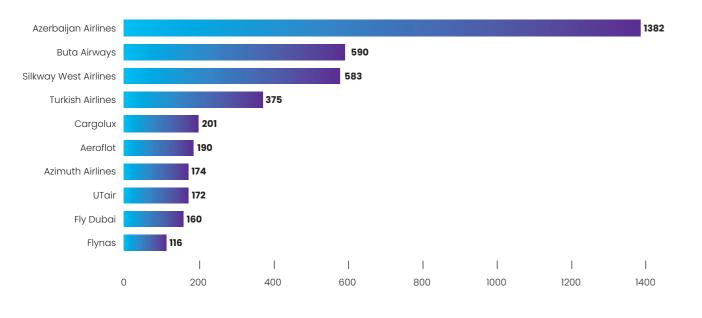
2.1.6 Types of flights





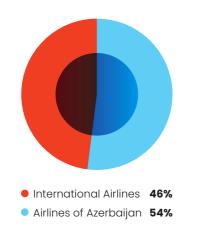
#### Air Traffic Statistics Report March 2023

#### 2.1.8 Aircraft Operators – Top 10 Airspace Users

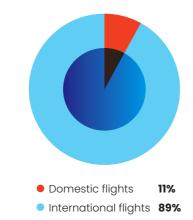


Note: This chart shows the number of flights in March 2023.



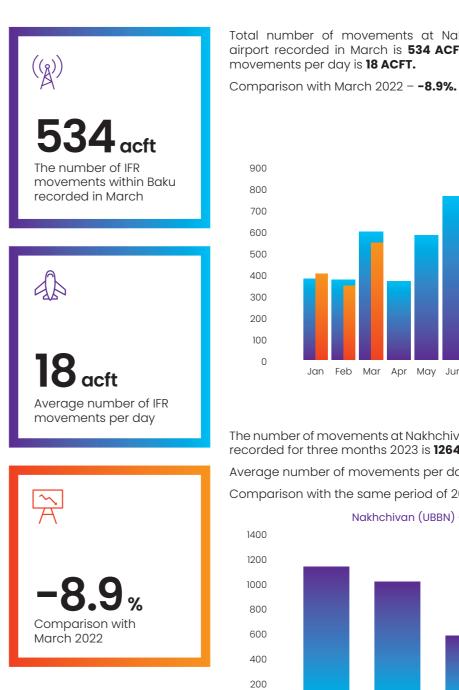


2.1.10 Traffic segments – Domestic vs International



5

#### 2.2 Nakhchivan International airport

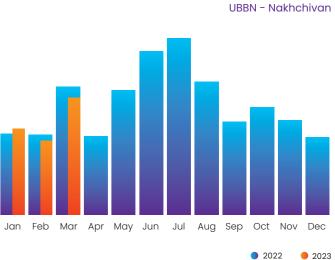


2019

0



### Total number of movements at Nakhchivan International airport recorded in March is 534 ACFT. Average number of

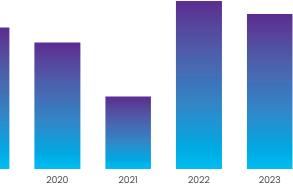


The number of movements at Nakhchivan International airport recorded for three months 2023 is **1264 ACFT.** 

#### Average number of movements per day is 14 ACFT.

#### Comparison with the same period of 2022 – -4.5%.

#### Nakhchivan (UBBN) - Comparative chart 2019 - 2023



#### 2.3 Ganja International airport

## $(\binom{(a)}{A})$ 161 acft The number of IFR movements within Baku recorded in March

d b
<b>6</b> acft
Average number of IFR movements per day



UBBG - Ganja 250 200 150 100 50 0 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2022

The number of movements at Ganja International airport recorded for three months 2023 is 430 ACFT.

Total number of movements at Ganja International airport

Average number of movements per day is 6 ACFT.

Comparison with March 2022 - +198.1%.

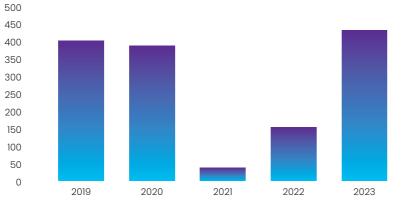
recorded in March is 161 ACFT.

Average number of movements per day is 5 ACFT.

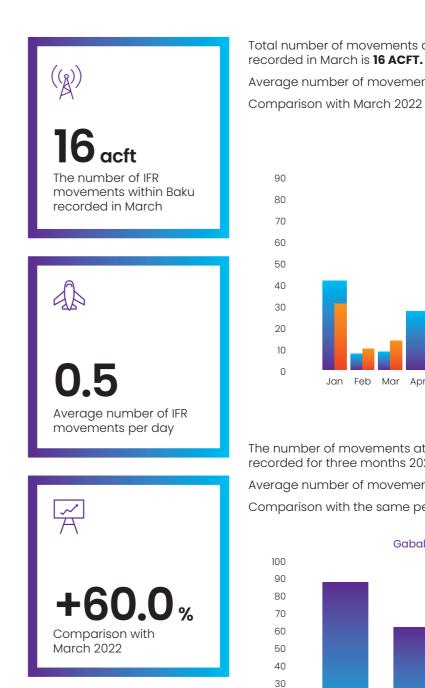
Comparison with the same period of 2022 - +167.1%.

Ganja (UBBG) - Comparative chart 2019-2023

6







2019

20

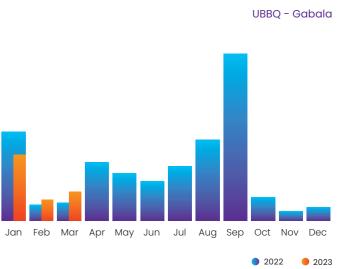
10

0



## Total number of movements at Gabala International airport

Average number of movements per day is **0.5.** Comparison with March 2022 - +60.0%.

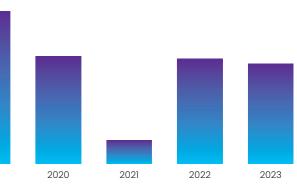


The number of movements at Gabala International airport recorded for three months 2023 is 58 ACFT.

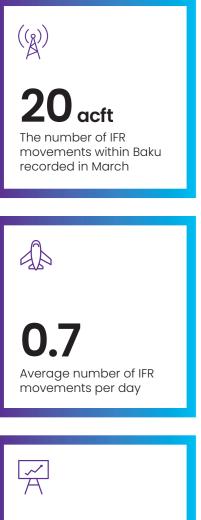
Average number of movements per day is **0.6.** 

Comparison with the same period of 2022 - -3.3%.

#### Gabala (UBBQ) - Comparative chart 2019 - 2023



#### 2.5 Lenkoran International airport

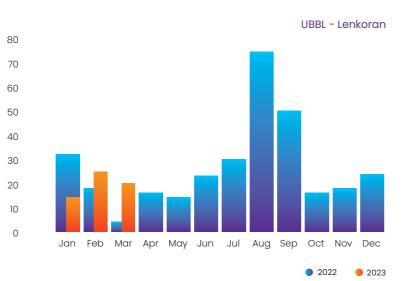


+400.0% Comparison with March 2022

Total number of movements at Lenkoran International airport recorded in March is 20 ACFT.

Average number of movements per day is 0.7.

Comparison with March 2022 - +400.0%.



The number of movements at Lenkoran International airport recorded for three months 2023 is 58 ACFT.

Average number of movements per day is 0.6.

90

80

70

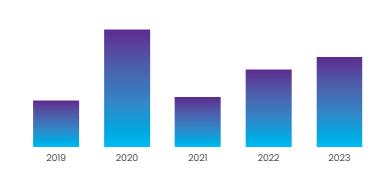
60

50

40

Comparison with the same period of 2022 - +7.4%.

Lenkoran (UBBL) - Comparative chart 2019 - 2023



#### 2.6 Fuzuli International airport.

Total number of movements - 6 ACFT Average number of movements per day – **0.2** 

#### 2.7 Zagatala International airport.

No movements were recorded

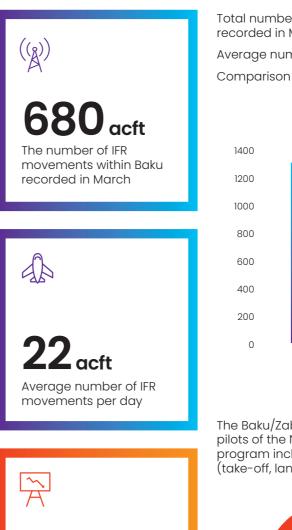
#### 2.8 Zangilan International airport. No movements were recorded

#### 2.9Yevlakh airport.

Total number of movements - 2 ACFT Average number of movements per day - 0.1

#### **VFR Movements** 3 **Statistics data**

#### 3.1 Baku/Zabrat airport





7



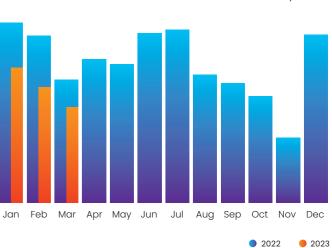




Total number of VFR movements at Baku/Zabrat airport recorded in March is 680 ACFT.

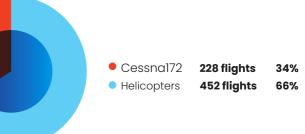
Average number of movements per day is 22 ACFT

Comparison with March 2022 - -24.4%.



UBTT - Baku/Zabrat

The Baku/Zabrat aerodrome is the base of training flights for student pilots of the National Aviation Academy. The student pilot training program includes en-route flight training and training maneuvers (take-off, landing, go-around) on the Cessna-172 aircraft



((a))368 acft The number of IFR movements within Baku recorded in March

AA 2 acft

Average number of IFR movements per day

Ã

no change Comparison with

March 2022



movements within Baku recorded in March

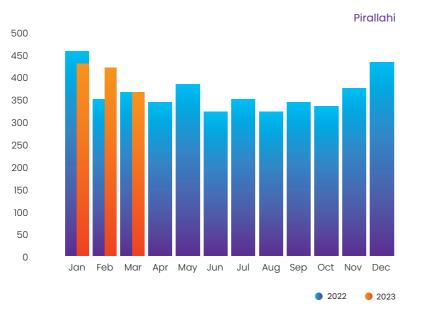




#### 3.2 Pirallahi heliport

Total number of VFR movements at Pirallahi heliport recorded in March is **368 ACFT.** 

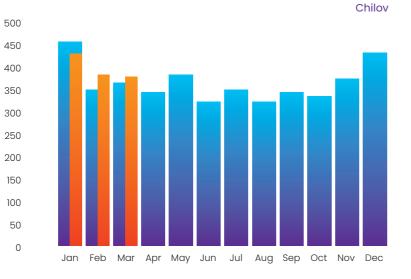
Average number of movements per day is 12 ACFT Comparison with March 2022 – **no change.** 



#### 3.3 Chilov heliport

Total number of VFR movements at Chilov heliport recorded in March is 292 ACFT.

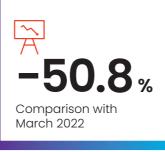
Average number of movements per day is 10 ACFT Comparison with March 2022 - +29.5%.

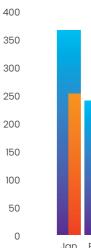


• 2022 • 2023

 $\left( \begin{pmatrix} & \\ & \end{pmatrix} \right)$ 30 acft The number of IFR movements within Baku recorded in March AA







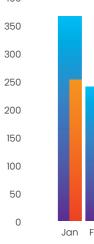






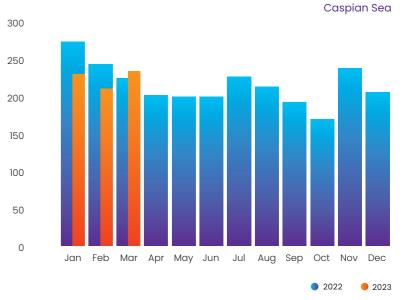
#### 3.4 Neft Dashlari heliport

March is 130 ACFT.



#### 3.5 Helipads on the ships and offshore drilling rigs in the Caspian Sea

Total number of VFR movements at helipads on the ships and offshore drilling rigs in the Caspian Sea recorded in March is 232 ACFT. Average number of movements per day is 8 ACFT Comparison with March 2022 - +5.0%.

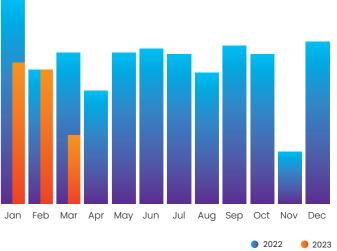




Neft Dashlari

Total number of VFR movements at Neft Dashlari heliport recorded in

Average number of movements per day is **5 ACFT** Comparison with March 2022 - -50.8%.



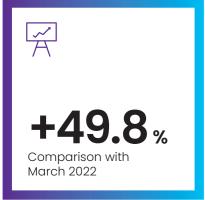
4

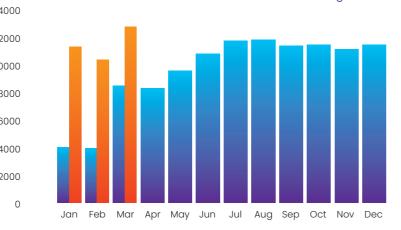
 $(\binom{n}{2})$ 

2A

#### **Overflight Air Traffic 4.2 Traffic segments** 4.3 Aircraft Operators - Top 20 Airspace Users **Statistics Data** Turkish Airlines 706 Fly Dubai Korean Air 571 Cathay Pasific 540 428 Air Astana 404 Finnair **4.1 General Air Traffic Statistics Data** Air Arabia 341 Lufthansa 330 The number of overflights via Baku FIR recorded in March is 12821 ACFT. Uzbekistan Airways 315 Average number of overflights per day is 414 ACFT (Peak day, March 25, 312 KLM 2023 - 451 ACFT; low day, March 27, 2023 - 362 ACFT). 12774 ACFT 307 Civil Aslana Airlines Comparison with March 2022 - +49.8%. NATO 6 ACFT 291 Aeroflot Russian Air Force 36 ACFT Overflight traffic Emirates 288 2821 14000 British Airways 272 Air France 268 12000 The number of IFR AeroLogic 250 movements within Baku 10000 recorded in March Pegasus Airlines 234 8000 Lufthansa Cargo 222 Qatar Airways 206 6000 Red Wings 189 4000 2000 0 Note: This chart shows the number of flights in March 2023.

Δ Average number of IFR movements per day



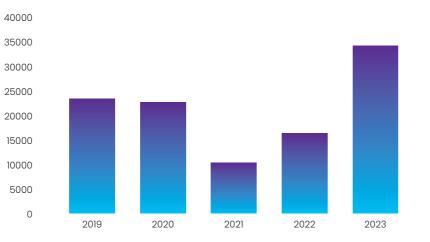


2022

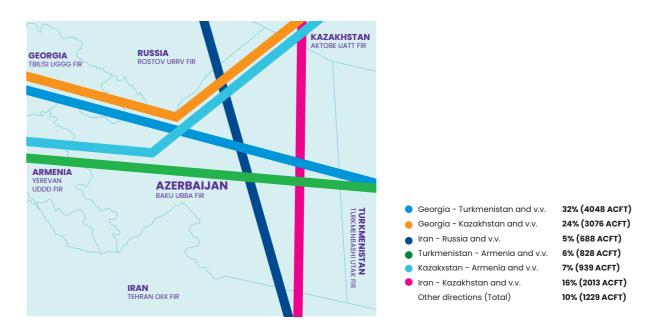
The number of overflights via Baku FIR recorded for three months 2023 is 34549 ACFT.

Average number of overflights per day is 384 ACFT. Comparison with the same period of 2022 - +108.9%.

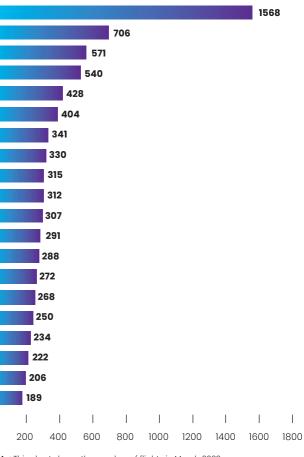
Overflight traffic - Comparative chart 2019-2023



#### 4.4 Air traffic flows - main overflight flows.







## Key Performance Indicators (KPIs) 5

This report presents Key Performance Indicators (KPIs) to assess the operational efficiency of the "Azeraeronavigation" ATD in terms of provision of air traffic services. All the calculations are done for "Bakuaeronavigation" due to low traffic at the regional airports.

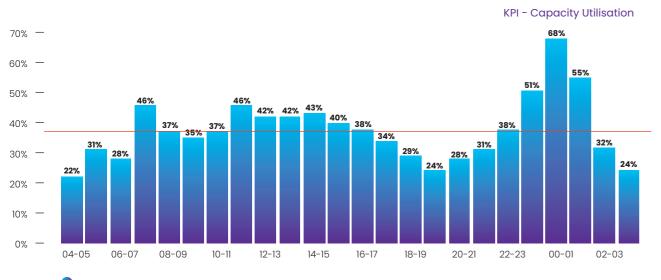
#### 5.1 KPI – Capacity Utilization.

Capacity utilization assesses how effectively capacity is managed. It is a measure of accommodated demand, compared to the available capacity of Baku FIR.

KPI - Capacity Utilization is calculated by the formula: the value of "accommodated demand" is divided by the value of "capacity" and is multiplied by 100%.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2022	16	16	26	25	29	34	37	37	36	35	34	34
2023	33	33	37									

Capacity Utilization March 2023 37%



Capacity utilization

Average capacity utilization

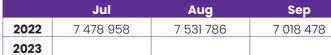
#### 5.2 KPI – Total Distance flown.

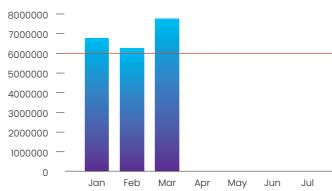
KPI-Flown distance is a total flown distance. KPI is km.

#### 5.2.1 KPI – Total Distance flown - Baku FIR. (Combined en-route traffic and aerodrome movements).

All the traffic data of Baku FIR (overflight and aerodrome movements) is used for calculation of KPI - Total flown distance (FIR).

Jan		Feb	Mar	Apr	May	Jun				
2022	3 017 241	2 828 769	5 247 488	5 021 980	5 855 889	6 700 779				
2023	6 826 061	6 226 183	7 721 660							
	Jul	Aug	Sep	Oct	Nov	Dec				
2022	7 478 958	7 531 786 7 018 478		7 081 076	6 805 131	7 019 174				
2023										
8000000 — Total flown distance (km) - FIR										
7000000										
6000000										
5000000	-									
4000000	-					Monthly KPI 2023				
3000000	_				(	Average KPI 2022				

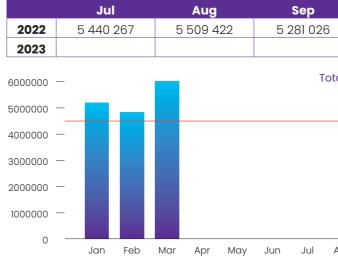




#### 5.2.2 KPI - Total Distance flown - En-route traffic.

Only overflight traffic data is used for calculation of Total flown distance (ENR).

	Jan	Feb	Mar	Apr	May	Jun
2022	1929 590	1 875 524	3 950 238	3 876 366	4 429 406	4 988 482
2023	5 296 353	4 803 864	5 979 971			
-						

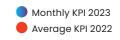




Aug	Sep	Oct	Nov	Dec	

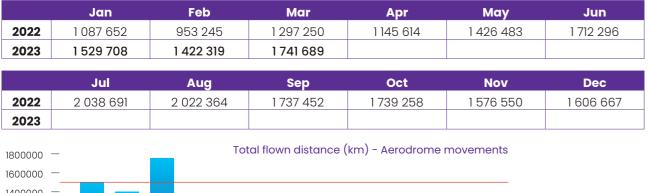
Oct	Nov	Dec
5 341 818	5228581	5412507

#### Total flown distance (km) - En-route



#### 5.2.3 KPI - Total Distance flown - Aerodrome movements.

Only aerodrome movements data is used for calculation of Total flown distance (AD).





#### 5.3 KPI-Average flown distance per ACFT

KPI- Average flown distance is calculation of average distance flown by ACFT by the following formula: the value of "total flown distance in kilometers" is divided by the value of "number of ACFT". KPI is km/ACFT.

#### 5.3.1 KPI - Average flown distance (FIR)

All the traffic data of Baku FIR (overflight and aerodrome movements) is used for calculation of average flown distance (FIR).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2022	413	419	424	429	424	422	420	422	421	423	427	429
2023	428	427	428									

KPI - Average flown distance (FIR) March 2023

428 km/ACFT



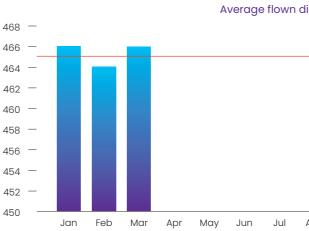


#### 5.3.2 KPI - Average flown distance (ENR)

Only overflight traffic data is used for calculation of KPI - Average flown distance (ENR).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2022	475	478	462	462	459	460	461	462	461	464	467	468
2023	466	464	466									

KPI - Average flown distance (ENR) March 2023



#### 5.3.3 KPI- Average flown distance (AD)

Only aerodrome movements data is used for calculation of Average flown distance (AD).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2022	335	337	340	345	342	340	339	340	334	333	334	335
2023	334	336	333									

KPI - Average flown distance (AD) March 2023

11

340 335 330 325 — 320 315 310 — 305 — 300 Jan Feb Mar Apr Мау Jun Jul



#### 466 km/ACFT

istan	ce per	ACFT	(km) -	En-route	
					<ul> <li>Monthly KPI 2023</li> <li>Average KPI 2022</li> </ul>
Aug	Sep	Oct	Nov	Dec	

#### 333 km/ACFT

Average flown distance per ACFT (km) - Aerodrome movements



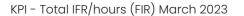
#### 5.4 KPI – Total IFR/hours

KPI- IFR/hours is a total flown IFR/hours. KPI is IFR/hours.

#### 5.4.1 Total IFR/hours -FIR Baku

All the traffic data of Baku FIR (overflight and aerodrome movements) is used for calculation of KPI - IFR/ hours (FIR).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2022	3863	3610	6510	6153	7216	8287	9204	9218	8609	8728	8343	8616
2023	8388	7665	9484									



9484 IFR/hours



#### 5.4.2 Total IFR/hours -Enroute

Only overflight traffic data is used for calculation of KPI - IFR/hours (ENR).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2022	2257	2183	4569	4477	5098	5727	6192	6272	6061	6157	6035	6271
2023	6147	5579	6908									

KPI - Total IFR/hours (ENR) March 2023

6908 IFR/hours



#### 5.4.3 Total IFR/hours -Aerodrome movements

Only aerodrome movements data is used for calculation of KPI - IFR/hours (AD).

	Jan	Feb	Mar	Apr	May	Jur
2022	1607	1427	1941	1676	2118	256
2023	2241	2086	2576			

KPI - Total IFR/hours (AD) March 2023



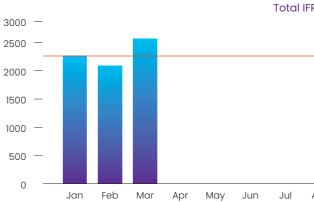
Jul

Aug

Sep

Oct

Nov



#### 5.5 KPI – Average IFR/min per ACFT

KPI - IFR/min per ACFT is an average flown IFR/min per ACFT. KPI is IFR/hours.

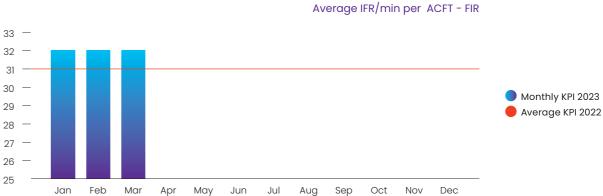
KPI - Average flown IFR/min per ACFT is calculation of average time flown by ACFT by the following formula: the value of "total flown time in minutes" is divided by the value of "number of ACFT". KPI is min/ACFT.

#### 5.5.1 Average IFR/min per ACFT - FIR Baku

All the traffic data of Baku FIR (overflight and aerodrome movements) is used for calculation of KPI -Average IFR/min per ACFT (FIR).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2022	32	32	32	32	31	31	31	31	31	31	31	32
2023	32	32	32									

KPI - Average IFR/min per ACFT (FIR) March 2023 32 min/ACFT





Dec

3	2560	3012	2947	2548	2572	2308	2346
,	2000	0012	2047	2040	2012	2000	2040
	576 IFR/I		rodrome r	novemer	nts	1	<u> </u>
					•	Monthly K Average H	
,	Jul Aug	Sep	Oct No	v Dec			

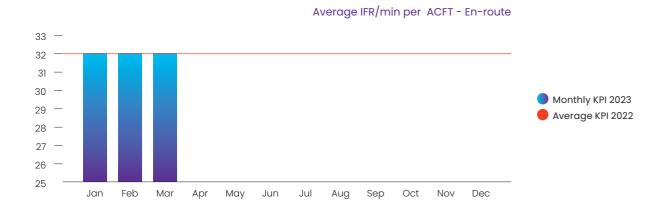
#### 5.5.2 Average IFR/min per ACFT – En-route

Only overflight traffic data is used for calculation of KPI - Average IFR/min per ACFT (ENR).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2022	33	33	32	32	32	32	32	32	32	32	32	33
2023	32	32	32									

KPI - Average IFR/min per ACFT (ENR) March 2023

32 min/ACFT



#### 5.5.3 Average IFR/min per ACFT – Aerodrome movements

Only aerodrome movements data is used for calculation of KPI - Average IFR/min per ACFT (AD).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2022	30	30	31	30	31	30	30	30	29	30	29	29
2023	29	30	30									

KPI - Average IFR/min per ACFT (AD) March 2023 30 min/ACFT



#### **5.6 CANSO Productivity KPIs**

The key indicator of ANS productivity is IFR flight hours per ATCO in OPS hour, often described as "ATCO in OPS productivity".

Although generally reflective of ANSPs' performance, factors beyond the control of the ANSP can cause low levels of productivity-for example a geopolitical event that alter traffic demand.

ATCO in OPS productivity is driven by traffic levels and an ANSP's ability to utilize its ATCOs in operations (OPS) resources. Although they cannot affect traffic demand, ANSPs may improve productivity by utilizing flexible rostering and adapting airspace configuration to open and close sectors according to evolving traffic patterns.

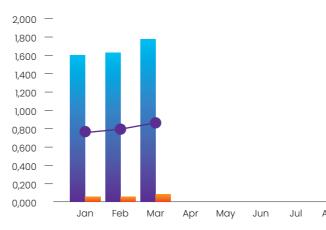
Furthermore, advances in technology are now focusing more than ever on reducing the workload of ATCOSs in OPS to enable them to safely manage higher levels of traffic in a given volume of airspace. Training associated with the introduction of technology, however, can lead to short-term reductions in productivity.

Airspace complexity also affects ATCO in OPS productivity. Lower airspace will typically have lower levels of ATCO in OPS productivity than upper airspace where aircraft are flying at more consistent altitudes and on non-crossing routes. Therefore, an ANSP operating a high proportion of sectors in lower airspace, or with numerous busy airports with complex approach sectors, is likely to have lower ATCO in OPS productivity than an ANSP with more overflights at higher altitude.

#### 5.6.1 ATCO in OPS hour productivity (CANSO KPI 2B)

KPI "ATCO in OPS hour productivity" is calculated by formula "IFR flight hours" divided by "ATCOs in OPS hours"

ATCO in OPS hour productivity (AZANS) March 2023 ATCO in OPS hour productivity (Baku ATCC) March 2023 ATCO in OPS hour productivity (Regional ATCCs) March 2





	0.859
	1.785
2023	0.071

ATCO in OPS hour productivity

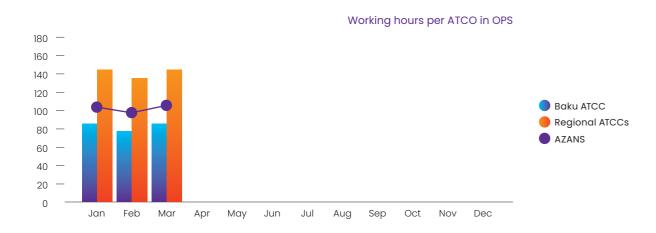


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#### 5.6.2 Working hours per ATCO in OPS (CANSO KPI 3B)

KPI "Working hours per ATCO in OPS" is calculated by formula "ATCO in OPS hours" divided "No of ATCO in OPS"

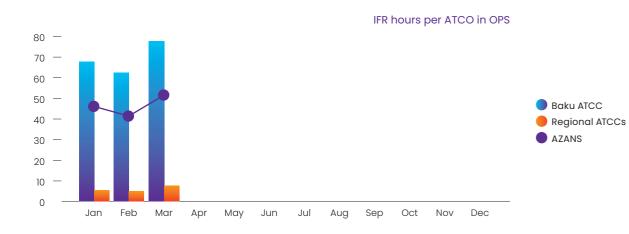
Working hours per ATCO in OPS (AZANS) March 2023	105.9
Working hours per ATCO in OPS (Baku ATCC) March 2023	85.4
Working hours per ATCO in OPS (Regional ATCCs) March 2023	142.2



#### 5.6.3 IFR hours per ATCO in OPS (CANSO KPI 3C)

KPI "IFR hours per ATCO in OPS" is calculated by formula "IFR flight hours" divided by "No of ATCO in OPS"

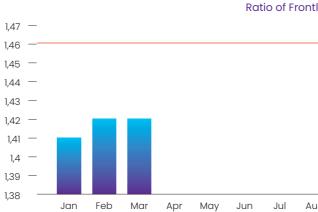
IFR hour per ATCO in OPS (AZANS) March 2023	52.4
IFR hour per ATCO in OPS (Baku ATCC) March 2023	77.1
IFR hour per ATCO in OPS (Regional ATCCs) March 2023	6.9



#### 5.6.4 Ratio of Frontline Service Staff to ATCO in OPS (CANSO KPI 3D)

KPI "Ratio of Frontline Service Staff to ATCO in OPS" is calculated by formula "No. Frontline Service Support Staff" divided by "No of ATCO in OPS"

Ratio of Frontline Service Staff to ATCO in OPS March 2023



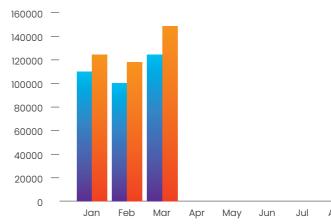
#### 5.7 CO2 emissions

#### 5.7.1 Total CO2 emissions

14

All the KPI's for CO2 emissions are calculated for FIR, En-route (ENR) and Landing-take-off Operations (LTO).

Total CO2 emissions (FIR) March 2023 Total CO2 emissions (ENR) March 2023 Total CO2 emissions (LTO) March 2023





#### 3 **1.42**

Ratio of Frontline Service Staff to ATCO in OPS



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148 358 tons 125 945 tons 22 414 tons

Total CO2 emissions

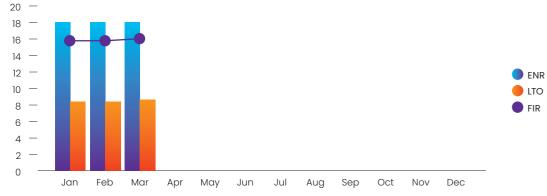


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#### 5.7.2 CO2 emissions per a flight hour

CO2 emissions per a flight hour (FIR) March 2023 CO2 emissions per a flight hour (ENR) March 2023 CO2 emissions per a flight hour (LTO) March 2023 15.6 ton/hour 18.0 ton/hour 8.7 ton/hour

#### Average CO2 emissions per a flight hour



#### 5.7.3 CO2 emissions per a kilometer flight distance

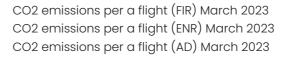
CO2 emissions per a kilometer flight distance (FIR) March 2023 CO2 emissions per a kilometer flight distance (ENR) March 2023 CO2 emissions per a kilometer flight distance (LTO) March 2023

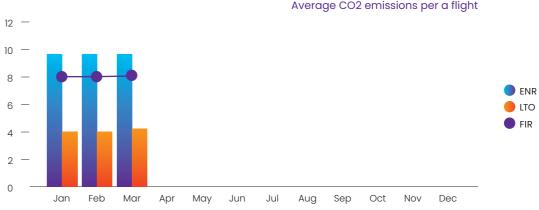
19	kg/km
21	kg/km
13	kg/km

#### Average CO2 emissions per a kilometer flight distance



#### 5.7.4 CO2 emissions per a flight





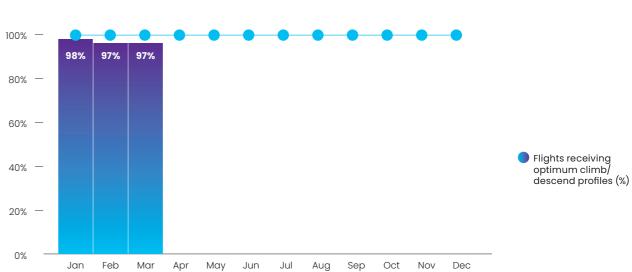
#### 5.8 KPI – CCO/CDO operations

15

Introducing of CCO (Continues Climb Operations) and CDO (Continues Descend Operations) is an initiative to improve ATM efficiency, decrease fuel use and CO2 reduction.

«KPI – CCO/CDO operations » measures percentage of ACFT flown as CCO/CDO at airport Baku/Heydar Aliyev.

KPI - CCO/CDO operations March 2023 97%





#### 8.2 ton/flight 9.8 ton/flight 4.3 ton/flight

#### Average CO2 emissions per a flight

#### 5.9 KPI – Number of airspace users

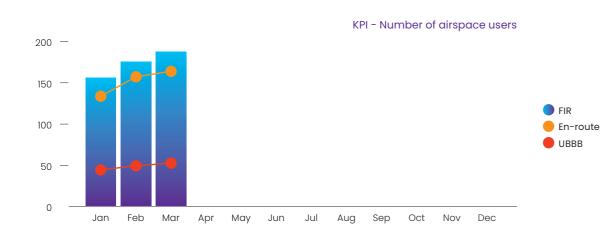
The main goal of AZANS, as an air navigation services provider, is to ensure flight safety and provide high-quality air navigation services. One of the indicators is the preservation and increase in the number of the service users - airlines.

Only commercial airlines operating cargo and passenger transportation were used to measure KPI – Number of airspace users. State and general aviation were not taken into account.

KPI - Number of airspace users (FIR) March 2023 191 Airlines

KPI - Number of airspace users (ENR) March 2023 171 Airlines

KPI - Number of airspace users (AD) March 2023 57 Airlines







#### AIR TRAFFIC DEPARTMENT AZERAERONAVIGATION

Heydar Aliyev International Airport AZ1044–Baku | Azerbaijan

