

20.10.2010@ICAO WORLD STATISTICS DAY



AVIATION STATISTICS & DATA: A VITAL TOOL FOR THE DECISION MAKING PROCESS

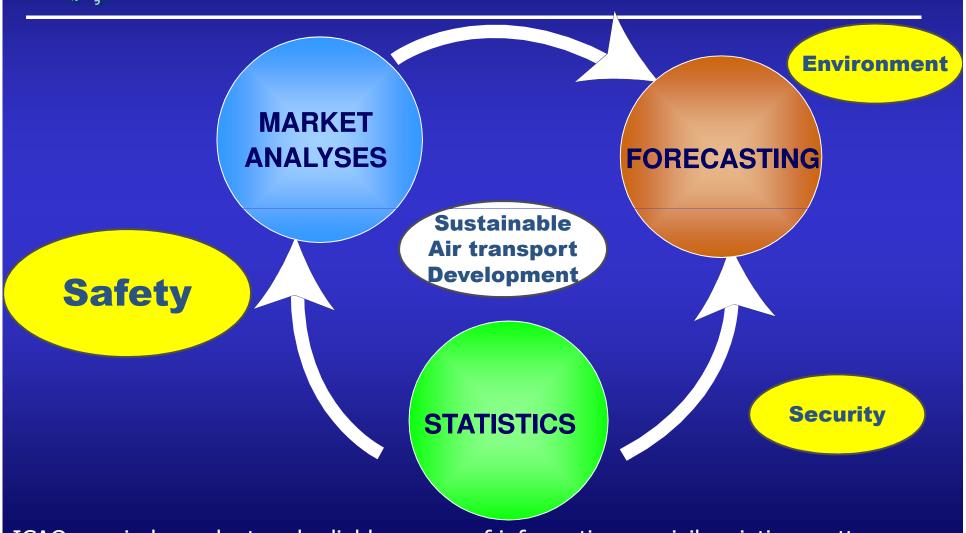
Narjess Teyssier ICAO

Chief Economic Analysis & Policy Section

Montréal 20 October 2010



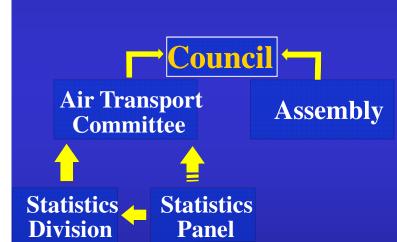
Monitoring air transport development: Statistics, analysis and forecasts



ICAO: an independent and reliable source of information on civil aviation matters



ICAO Statistics Programme foundations



Chicago Convention (Art. 54, 55, and 67)

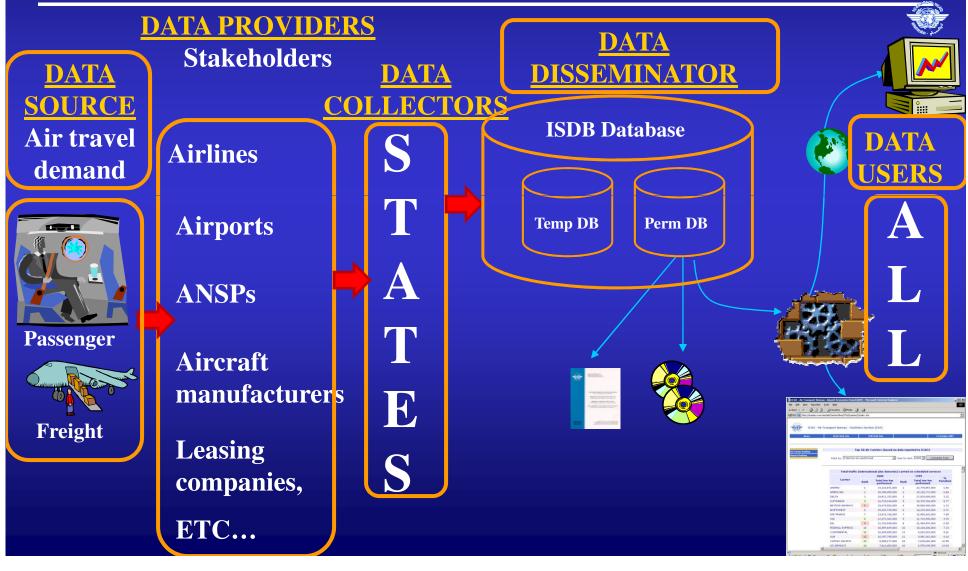
Each contracting State undertakes that its international airlines shall, in accordance with requirements laid down by the Council, file with the Council traffic reports, cost statistics and financial statements showing among other things all receipts and the sources thereof.

Assembly Resolutions (A37-20, App. B):

- Whereas the development of ICAO's validation and storage Integrated Statistical Database provides Contracting States and other users with an efficient online system for the retrieval of statistical data;
- Requests the Council, calling on national experts in the relevant disciplines as required, to examine on a regular basis the statistical data collected by ICAO and etc...



Aviation statistics collection, dissemination and use: a value chain





12 existing reporting forms for the States

COMMERCIAL AIR CARRIERS STATISTICS

- A Commercial air carrier traffic by carrier
- A-S Total traffic of all commercial air carriers of a State
- B On-Flight Origin and Destination
- C Traffic by Flight Stage
- D Fleet and Personnel
- EF Financial Data

AIRPORTS

- Airport traffic by airport
- I-S Total traffic of all the airports in the territory of a State
- J Financial data

AIR NAVIGATION SERVICES PROVIDERS

- K Financial data
- L Traffic

CIVIL AIRCRAFT ON REGISTER

H Number of aircraft in the register



ICAO Statistics Programme

Why do we need Statistics?



1 - Monitor ICAO Strategic Objectives

- Air travel safety rates
- The environmental impact on air transport
- The sustainability of air transport development



Traffic recovery started in 2010, despite the volcanic ash impact

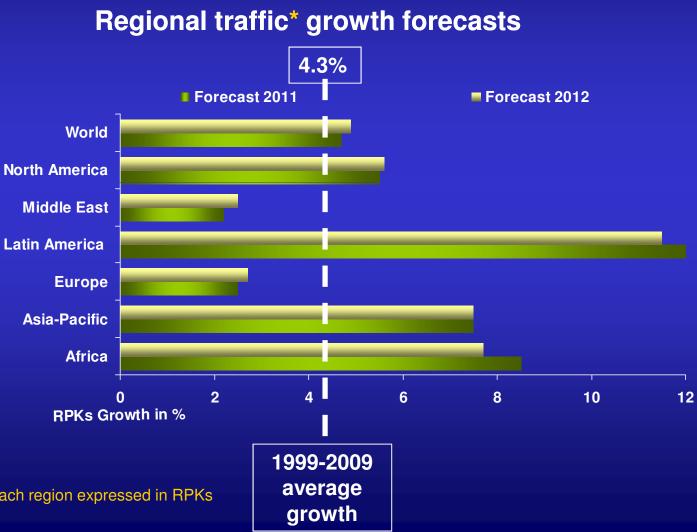
VOLCANIC ASH IMPACT ON AIR TRAFFIC

101,600 flights cancelled; 80% in Intra-European market.

Revenue Losses

Global Air Transport Industry: \$2.8 bn Tourism Industry: \$2.3 bn

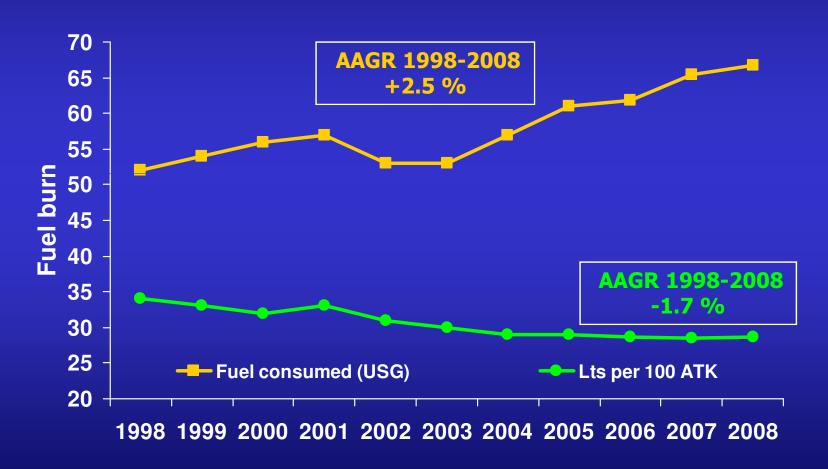
9 MILLION PASSENGERS AFFECTED



*Traffic of airlines registered in each region expressed in RPKs

Source: ICAO

Fuel consumption and efficiency evolution





ICAO Statistics Programme

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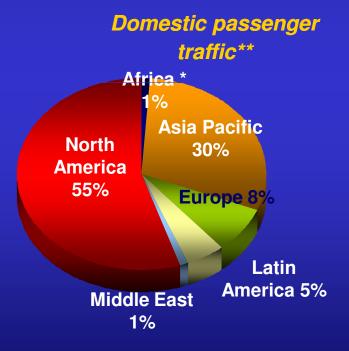
2- Analyse the air transport market



Market shares* achieved

International traffic represents 60% of the total passenger traffic







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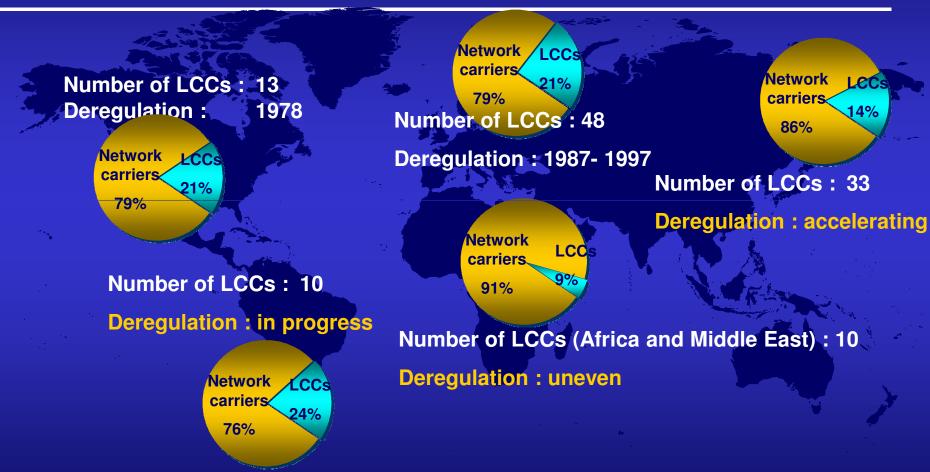
3 Assess the impact of new regulations

Main drivers for air travel demand





Low Cost Carriers development



Source: ICAO

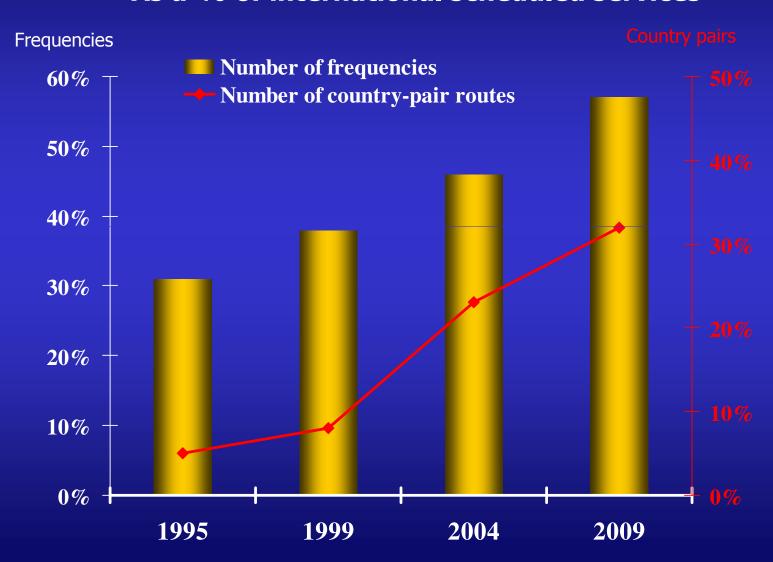


ICAN: ICAO forum for liberalization



ir transport conducted under liberal arrangements

As a % of international scheduled services



Source: ICAO



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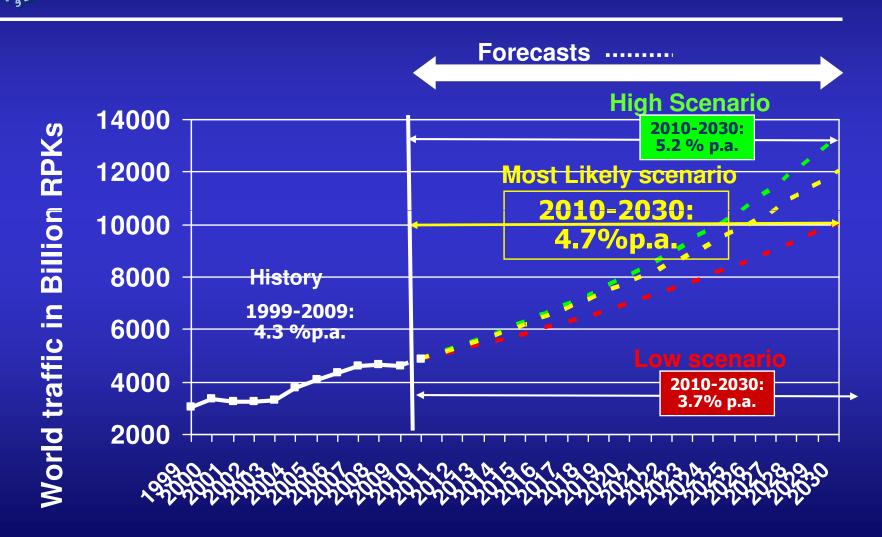
Why do we need Statistics?

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Forecasting

Long-term traffic forecast results





ICAO Statistics Programme

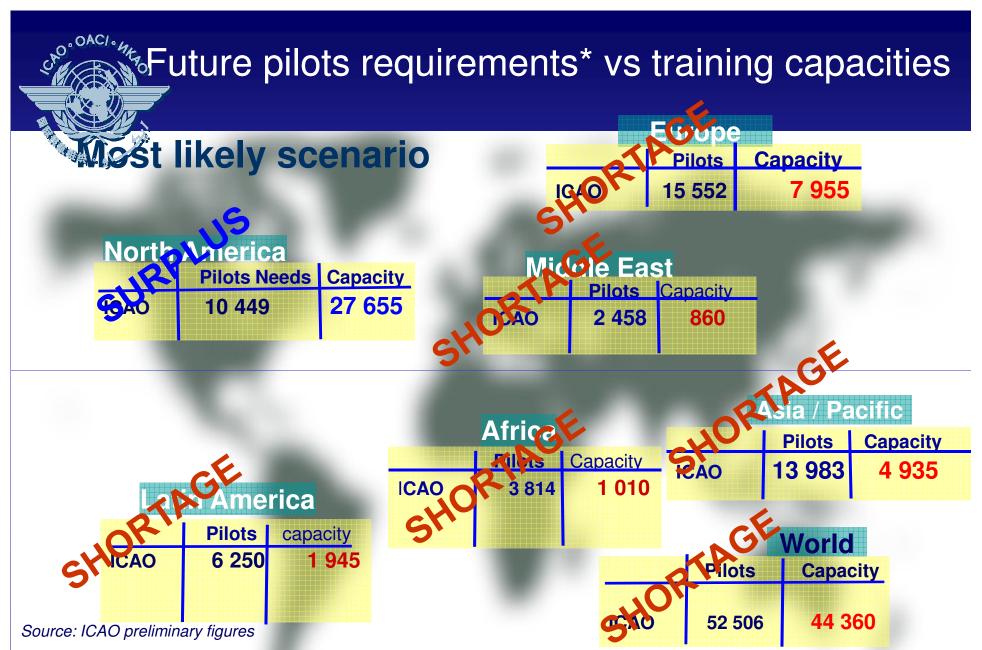
Why do we need Statistics?

1 – Monitor ICAO Strategic Objectives

- Air travel safety rates
- The environmental impact on air transport
- The sustainable air transport development
- 2 Analyse the air transport market
- 3 Assess the impact of new regulations
- 4 Forecasting
- **5** Plan the development of airport and ANS facilities
- **6** Negotiate bilateral agreements
- 7 Calculate the individual financial contribution of States



8 - Implement future strategies

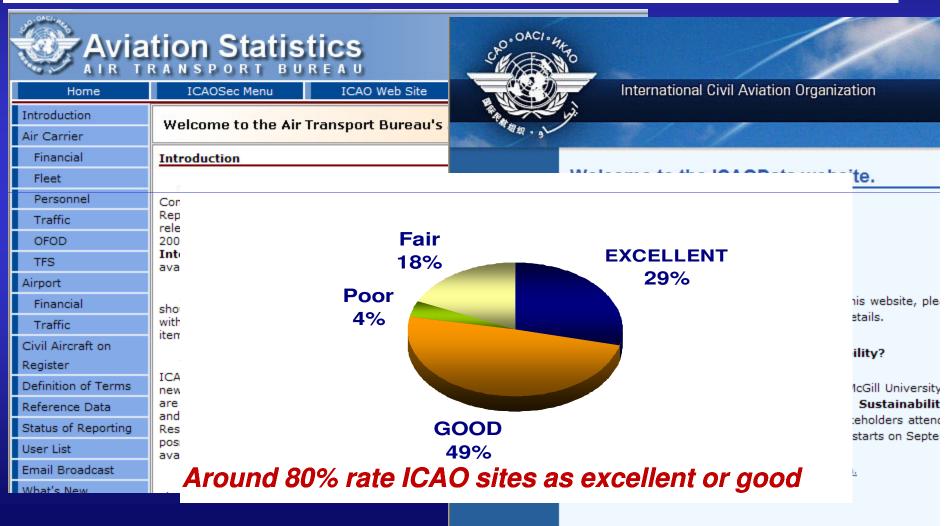


^{*}Estimate of average annual needs for 2010 to 2030 period based on various world fleet categories;: Regional and business jets, Turboprops, Single aisle, Twin aisles and Freighters

Training capacity is based on current figures without any incremental effect due to planned additional capacities



Users' opinion on internal & external ICAO data sites





Some general comments

"ICAO secure site is very important for ICAO membership countries...there they can find many important and useful information"

"The content is quite useful. The reason it doesn't score higher is the confusing layout and difficulty finding what you want.

"Very frustrating when trying to access data at an aggregated level."

"Data has proven not to be particularly helpful as at times quite unreliable"

"Great source of air transport information, very useful for data analyses."

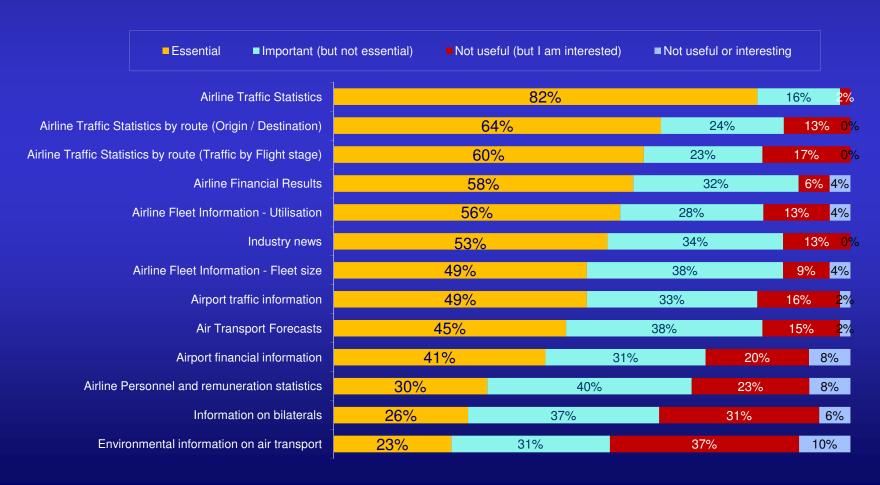
"I find in invaluable for my research so I am sure my peers would find it equally useful"

"Very useful information...the data collected and disseminated by ICAO are very useful to the Aviation Statistics Centre of Canada as they complement our own aviation programme"



Rating of different types of information according to importance to users

Airlines and airports traffic statistics are essential for most respondents





Suggested Improvements

New data collection:

- Up-to-date Bilateral AirServices Agreements (ASAs)
- ■Fuel consumption by a/c type
- CO2 emissions by air carrier
- Country breakdown on incidents and accidents
- Traffic statistics for General Aviation

∆General comments referred to improving the quality of data already available by:

- •.Completing and updating the missing data for airlines and airports (for consistency purposes)
- Providing the recent years for airlines data

Data processing:

- Improve set up and layout of the websites, seen as old-fashioned and not user friendly
- ■Include pictures, graphs, etc..
- Send emails to users every time new data are available
- Install an online application that make calculation easier"

Additional information requested:

- ICAO training programmes schedule
- •List of focal points in each DGCA



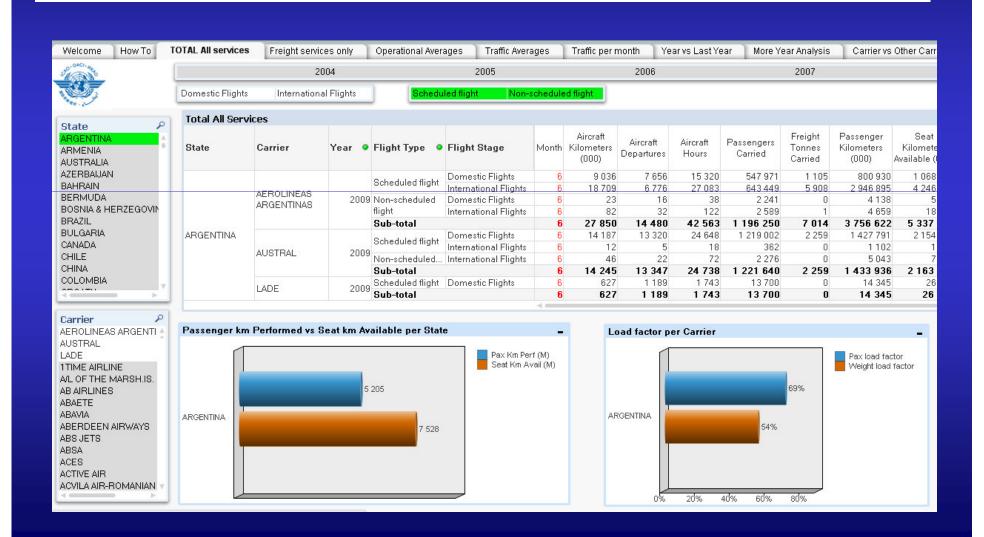
Layout and data processing

Current layout of the statistics site

ICAOSec Menu ICAO	Web Site	ATB Web Site		Tuesday, 5 October 2010								
Traffic Summary - Commercial Air Carriers (All Services including All Freight) Based on data reported to ICAO												
	Aircraft Kilometres (000)	Aircraft Departures	Aircraft Hours	Passangers Carried	Freigth Tonnes Carried	Passenger Kilometres Performed (000)	Seat Kilometers Available (000)	Pass Load Factor (%)	Tonne-Kilometres		tres	Weight Load Factor
State Air Carrier									Performed			
	(000)								Freight & Mail (000)	Total (000)	Available	(%)
ARGENTINA AEROLINEAS ARGENTINAS AII Services 2009 (Months reported: 6)												
International Scheduled	18,709	6,776	27,083	643,449	5,908	2,946,895	4,246,067	69	39,261	304,481	583,665	52
Domestic Scheduled	9,036	7,656	15,320	547,971	1,105	800,930	1,068,390	75	1,518	73,600	128,360	57
International Non-Scheduled	82	32	122	2,589	1	4,659	18,095	26	8	427	2,307	19
Domestic Non-Scheduled	23	16	38	2,241	0	4,138	5,261	79	0	373	699	53
Total 2009	27,850	14,480	42,563	1,196,250	7,014	3,756,622	5,337,813	70	40,787	378,881	715,031	53
	Aircraft Kilometres (000)	Aircraft Departures	Aircraft Hours	Passangers Carried	Freigth Tonnes Carried	Passenger Kilometres Performed (000)	Seat Kilometers Available (000)	Pass Load Factor (%)	Tonne-Kilometres		tres	2
State Air Carrier									Performed			Weight Load Factor
									Freight & Mail (000)	Total (000)	Available	(%)
ARGENTINA AUSTRAL AII Services 2009 (Months reported: 6)												
International Scheduled	12	5	18	362	0	1,102	1,803	61	0	99	204	49
Domestic Scheduled	14,187	13,320	24,648	1,219,002	2,259	1,427,791	2,154,827	66	2,616	131,117	235,050	56
International Non-Scheduled	46	22	72	2,276	0	5,043	7,267	69	0	455	770	59
Total 2009	14,245	13,347	24,738	1,221,640	2,259	1,433,936	2,163,897	66	2,616	131,671	236,024	56

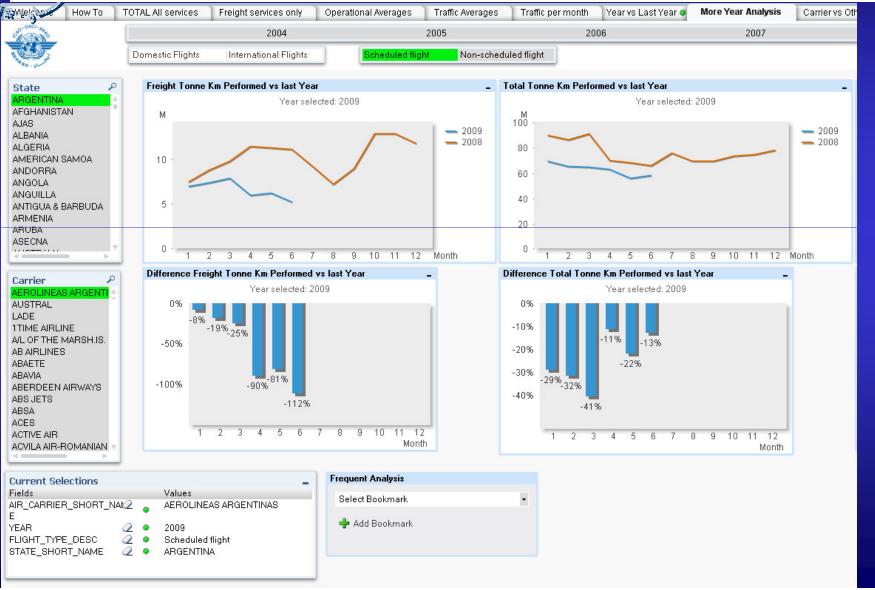
The projected new ICAO data website

O. OACI.





Interactive and more user friendly





Statistics derived products

Indicators for monitoring purposes such as Liberalization pace



Enhanced transparency of aviation policies

Forecasts & economic analyses and studies



World Air Services Agreements DB





Original text of over 2000 bilateral agreements



90 distinct provisions covered

Summary of the routes exchanged

A built-in search engine





Unique Source of Information and Analysis of Air Service Agreements



Statistics ALL-IN-ONE

CAO AIR TRANSPORT STATISTICS

THE WORLD'S MOST TRUSTED SINGLE SOURCE OF AIR TRANSPORT DATA

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ICAO AIR TRANSPORT STATISTICS (ALL-IN-ONE)

World Air Traffic Statistics

Commercial Air Carriers Profile Statistics

International Airports Profile Statistics

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Data are verified against other sources of air statistics

Are formatted to serve the needs of government and industry users

Are the only single source of complete air transport statistics

- Are available now as electronic files only

Order any of these products online at: www.logo.int/store



Aeronautical charges on-line

NEW PRODUCT

ICAO Aero List of Airports and ANS charges in 187 States



Landing charges
Fuel charges
Environmental charges, etc...

A competitive intelligence tool

A built-in search engine



Monthly updates

LET'S CELEBRATE TOGETHER THE FIRST WORLD STATISTICS DAY!



20.10.2010 WORLD STATISTICS DAY

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