AFI Implementation Plan:

Turkey's Efforts with ICAO for enhancing Africa's Aviation Safety

Haydar YALÇIN

Deputy Director General - Turkish DGCA

President,

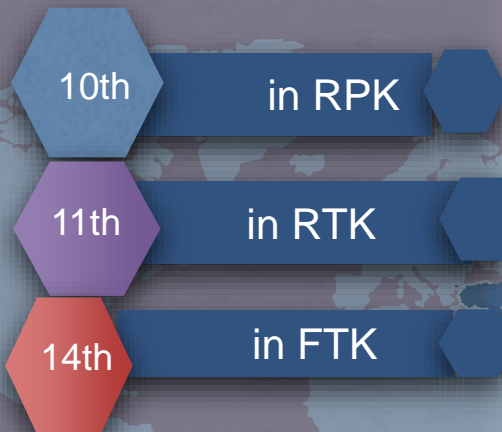**EUROCONTROL Provisional Council**

GREETINGS FROM TURKEY

Turkey
Discover
the potential

CIVIL AVIATION CAPACITIES-LAST DECADE

10th in RPK

11th in RTK

14th in FTK

302% Increase in passenger carried
181,356,000

162% Increase in cargo carried
3,060,951

183% Increase in airplane
using Turkish Airspace
1,815,095

211% Increase in aircraft fleet 511

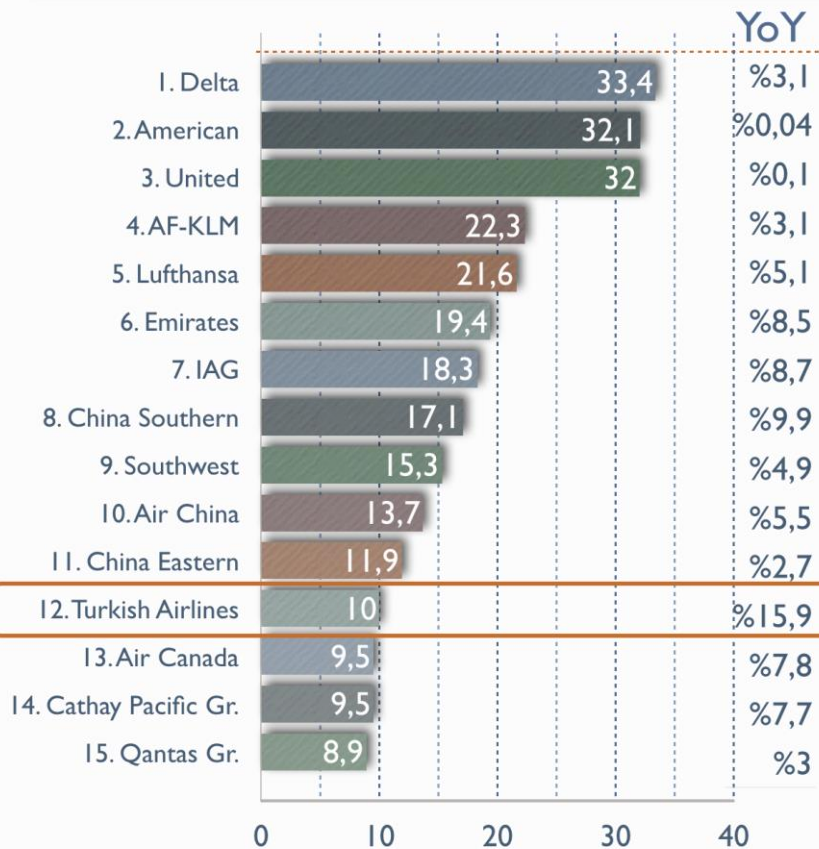**254%** Aviation Employees
195,000

**27** Industry Revenue
27 Billion USD

FACTS AND FIGURES

RPK (Billion)

	RPK	YoY
1. Delta	33,4	%3,1
2. American	32,1	%0,04
3. United	32	%0,1
4. AF-KLM	22,3	%3,1
5. Lufthansa	21,6	%5,1
6. Emirates	19,4	%8,5
7. IAG	18,3	%8,7
8. China Southern	17,1	%9,9
9. Southwest	15,3	%4,9
10. Air China	13,7	%5,5
11. China Eastern	11,9	%2,7
12. Turkish Airlines	10	%15,9
13. Air Canada	9,5	%7,8
14. Cathay Pacific Gr.	9,5	%7,7
15. Qantas Gr.	8,9	%3

S/N	Airport	Total Passengers	Rank Change	% Change
1.	Hartsfield–Jackson Atlanta International Airport	101,491,106		5.5%
2.	Beijing Capital International Airport	89,938,628		4.4%
3.	Dubai International Airport	78,014,841	3	10.7%
4.	O'Hare International Airport	76,942,493	3	9.8%
5.	Tokyo Haneda Airport	75,316,718	1	3.4%
6.	London Heathrow Airport	74,989,795	3	2.2%
7.	Los Angeles International Airport	74,937,004	2	6.1%
8.	Hong Kong International Airport	68,283,407	2	8.2%
9.	Paris-Charles de Gaulle Airport	65,766,986	1	3.1%
10.	Dallas/Fort Worth International Airport	64,072,468	1	0.9%
11.	**İstanbul Atatürk Airport**	**61,836,781**	**2**	**9.2%**
12.	Frankfurt Airport	61,032,022	1	2.5%
13.	Shanghai Pudong International Airport	60,053,387	6	16.3%
14.	Amsterdam Airport Schiphol	58,284,864		6.0%
15.	John F. Kennedy International Airport	56,827,154	3	6.8%

Turkish Civil Aviation – Facts & Figures

TOTAL NO of BASA: 165
(Direct flights to 115 Countries)
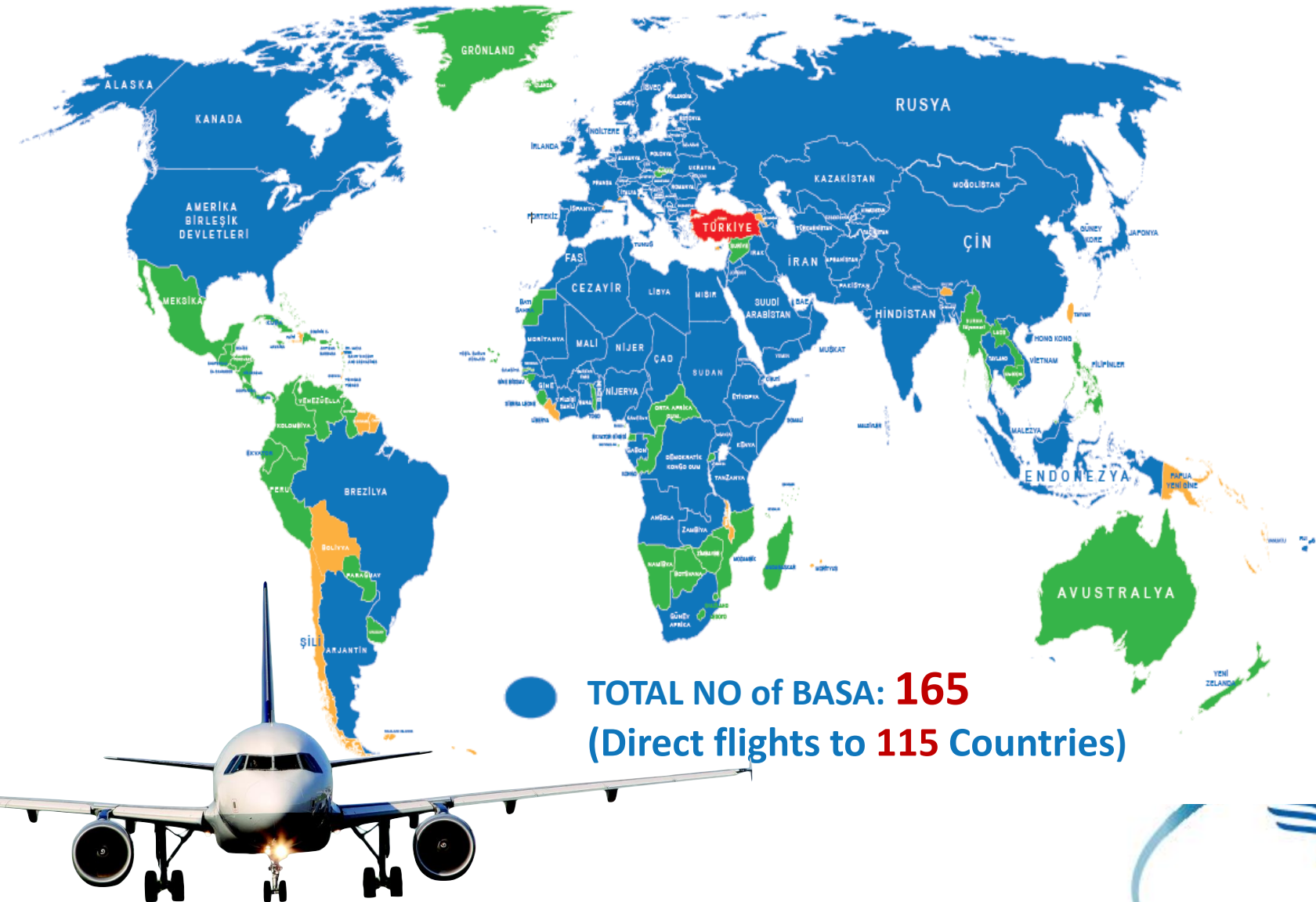
North America
2 Countries
10 Destinations

Europe
42 Countries
110 Destinations

South America
4 Countries
4 Destinations

Far East
22 Countries
34 Destinations

Middle East
13 Countries
34 Destinations

Africa
31 Countries
48 Destinations

115 COUNTRIES

291 DESTINATIONS

MONTREAL
BOSTON
SAN FRANCISCO
CHICAGO
WASHINGTON
LOS ANGELES HOUSTON ATLANTA
MIAMI
HAVANA
MEXICO CITY
CARACAS
PANAMA
BOGOTA

SAO PAULO
BUENOS AIRES

OSLO HELSINKI
MANCHESTER
EKATERINBURG
MOSCOW UFA
ASTANA
ULAAN BAATAR
LISBON
BEIJING
SEOUL
ORAN MASHAD
OSAKA
CASABLANCA
SHANGHAI
NOUAKCHOTT SEBHA
ASMARA DHAKA HANOI
DAKAR MUSCAT MUMBAI HONG KONG

HO CHI MINH CITY
ABIDJAN
SINGAPORE
KIGALI
JAKARTA DENPASAR
LUANDA DAR ES SALAAM

ANTANANARIVO
MAURITIUS
MAPUTO
JOHANNESBURG DURBAN
CAPE TOWN

2002 TK Network

Destinations opened between 2003 - Now

Planned

SHGM
DGCA
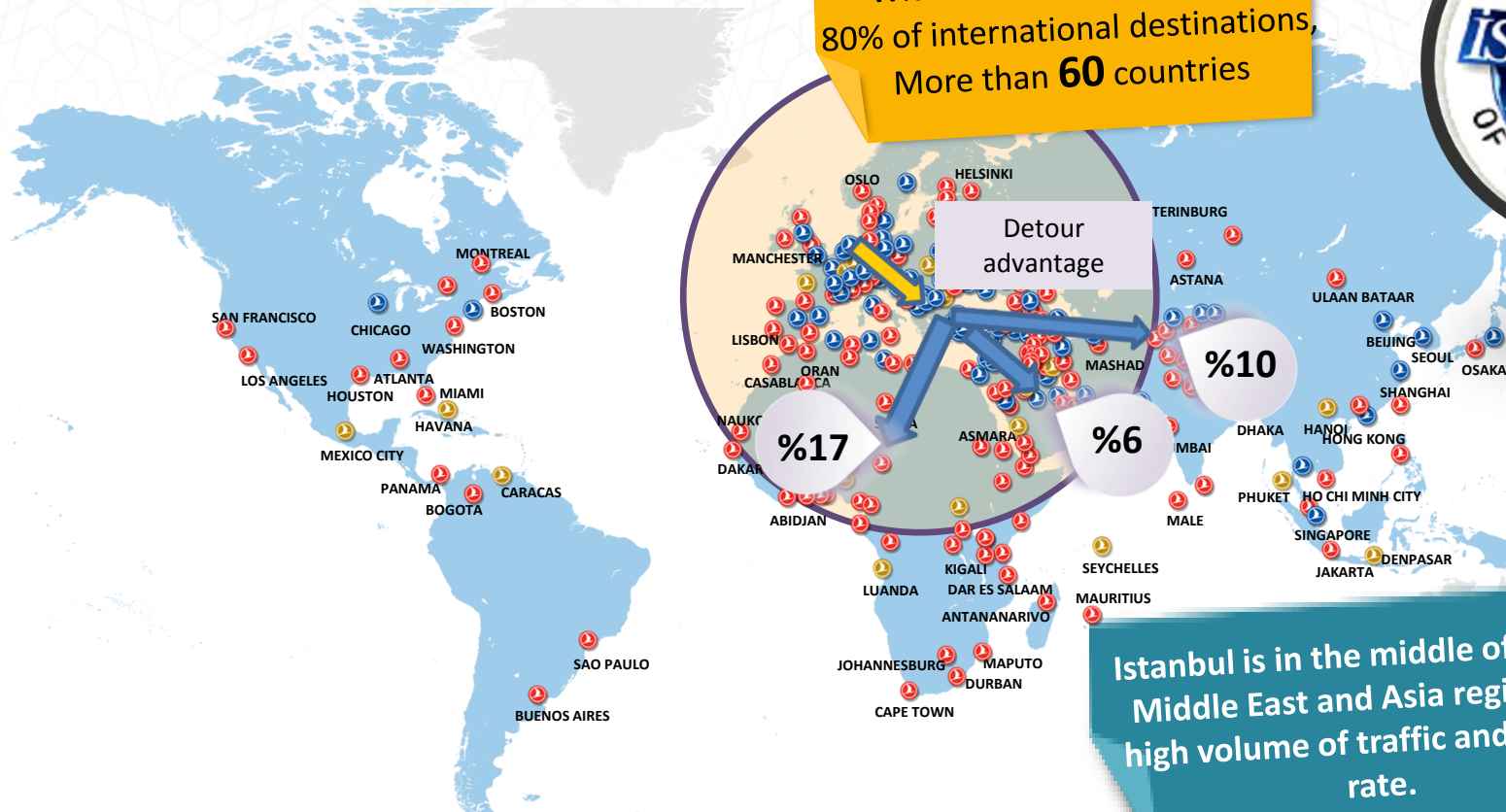
Geographical Advantage

Within narrow body range:
80% of international destinations,
More than **60** countries

NATURAL HUB
ISTANBUL
OF THE WORLD

Detour advantage

%17

%6

%10

OSLO HELSINKI
MANCHESTER
LISBON
CASABLANCA ORAN
NAUKC
DAKAR
ABIDJAN
TERINBURG
ASTANA
ULAAN BATAAR
BEIJING SEOUL
OSAKA
SHANGHAI
MASHAD
DHAKA HANOI
HONG KONG
MBAI
ASMARA
MALE
PHUKET HO CHI MINH CITY
SINGAPORE DENPASAR
JAKARTA
SEYCHELLES
MAURITIUS
KIGALI
LUANDA DAR ES SALAAM
ANTANANARIVO
MAPUTO
JOHANNESBURG DURBAN
CAPE TOWN

MONTREAL
SAN FRANCISCO BOSTON
CHICAGO
WASHINGTON
LOS ANGELES ATLANTA
HOUSTON MIAMI
HAVANA
MEXICO CITY
PANAMA CARACAS
BOGOTA

SAO PAULO
BUENOS AIRES

Istanbul is in the middle of Europe,
Middle East and Asia regions with
high volume of traffic and growth
rate.

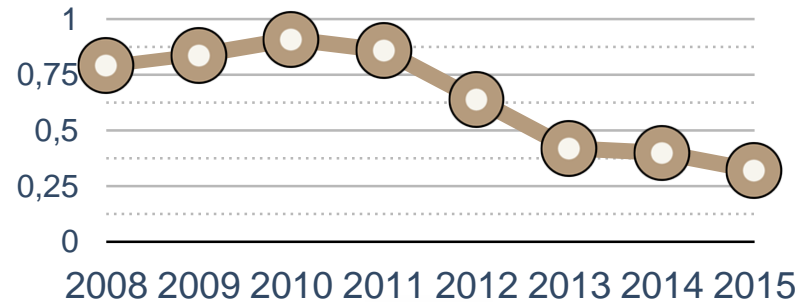| Range	Destinations	Countries
3 hours	101	41
5 hours	179	66
7 hours	203	82
9 hours	212	89

SHGM
DGCA

SAFETY

❏ **Good Safety Records:**

- USOAP
- EASA Standards
- SAFA - **2016, First Quarter 0,36**
- GASP & GANP
- NCLB
- ATM & Aerodrome
- Manufacturing Industry & Certification
- UAV / RPAS Operations
- Records / Registration
- Web-based Operations

SAFETY FIRST

Design and Manufacturing

- ❑ State of Manufacturer (SoM) and State of Design (SoD)
    - ▪ Regulation
    - ▪ Organisation
    - ▪ Personnel
    - ▪ Trainings
- ❑ Type Certification, DOA, POA, Change/Repair Approvals
- ❑ Hürkuş Project (CS-23 Category)
    - ▪ DGCA-TR and EASA work closely
    - ▪ Panel Meetings
    - ▪ Compliance Verification
    - ▪ Test Witnessing
    - ▪ TC will be issued by DGCA-TR and EASA 11th July 2016
- ❑ CS-29 Category Rotorcraft Project has been started
- ❑ TSO Articles (Seat, Avionic Instruments, Trolley)

RPAS – Remotely Piloted Aircraft Systems

Turkish DGCA is the second authority worldwilde for online registration of RPAS (DGCA, SHT- IHA)

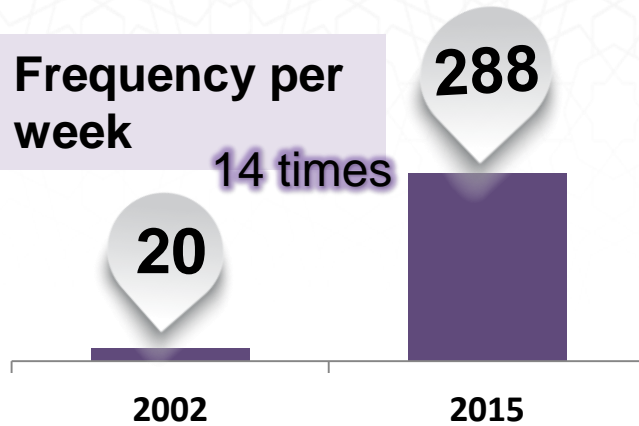Get Registered, Fly safe!

7650
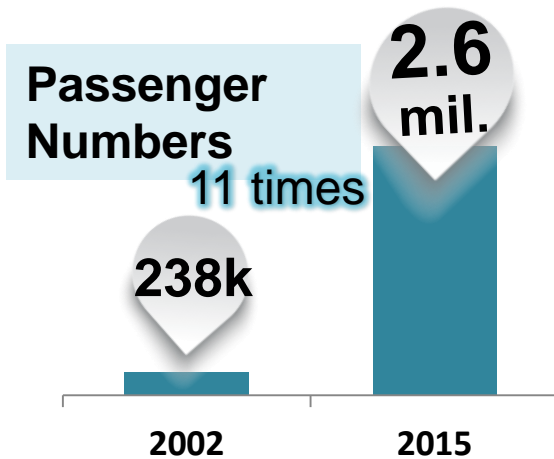Registered Users

Registered RPA
5667

Turkey – Africa Relations
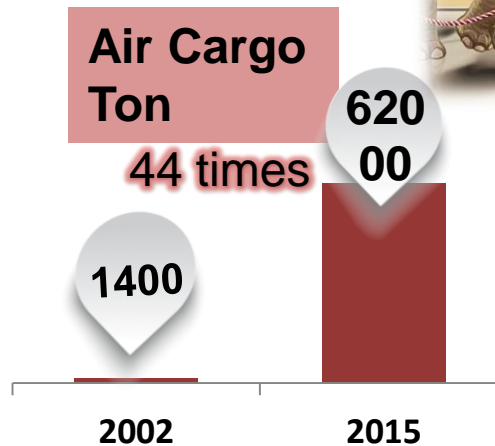
Turkish Airlines In Africa

Frequency per week

288

14 times

20

2002   2015

Passenger Numbers

2.6 mil.

11 times

238k

2002   2015

Air Cargo Ton

620 00

44 times

1400

2002   2015

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Africa Network

Largest network in Africa among foreign carriers

1st

31 Countries

48 Destinations

6 new destinations

Conakry
Luanda
Juba
Aswan
Luxor
Seychelles

Map labels:
ORAN, ALGIERS, TUNIS, TLEMCEN, BATNA, CONSTANTINE, ALEXANDRIA, CASABLANCA, TRIPOLI, BENGHAZI, MISURATA, SHARMEL-SHEIKH, CAIRO, LUXOR, HURGHADA, SEBHA, ASWAN, NOUAKCHOTT, KHARTOUM, ASMARA, DAKAR, NAMEY, BAMAKO, DJIBOUTI, CONAKRY, OUGADOUGOU, KANO, NDJAMENIA, ABUJA, ADDIS ABABA, ABIDJAN, LAGOS, JUBA, ACCRA, COTONOU, DOUAI, MOGADISHU, YAOUNDE, ENTEBBE, NAIROBI, LIBREVILLE, KIGALI, KILIMANJARO, MOMBASA, KINSHASA, DAR ES SALAAM, SEYCHELLES, LUANDA, ANTANANARIVO, MAURITIUS, MAPUTO, JOHANNESBURG, DURBAN, CAPE TOWN

Legend:
- 2002 THY Network (4 Destinations)
- 2003 - Current (44 New Destinations)
- Planned (6 Destinations)

SHGM DGCA

Growth Of Air Traffic From Africa

Traffic flow from Africa to each region will be growing fast

Still Europe will be the most important region.

North America

Europe

Middle East

Asia Pacific

2034

2014

Latin America

Africa

6.2%

4.7%

7.3%

7.1%

8.1%

6.7%

Regions' Traffic Share

Asia 8%
America 5%
Middle East 18%
Africa 19%
Europe 50%

Regions' Traffic Share

Asia 9%
America 6%
Middle East 24%
Africa 22%
Europe 39%

Source: Boeing Current Market Outlook 2015

Turkish-ICAO Joint Efforts For Africa

- ❑ Aviation Safety in Africa is critical importance for Turkey
- ❑ NCLB Initiative, supported by Turkey
- ❑ Qualified personnel is key & training demands of African States
- ❑ Either bilaterally or together with ICAO
- ❑ Turkish DGCA is always ready to contribute to ICAO efforts
- ❑ Turkish Airlines' contribution:
  - ▪ 40 RT Tickets (50% off) !!!
  - ▪ Use of ICAO AFI experts/personnel
  - ▪ THY network
- ❑ Africa's effort, Turkey will continue to cooperate

Turkish-ICAO Joint Efforts for Africa

❑ **On February 19ᵗʰ, 2015, Turkish government and ICAO signed a corporation MOU for the purpose of:**

▪ **Augmenting the capabilities of the Developing Countries,**

▪ **Promoting the safety and sustainable development of civil aviation.**

❑ **Financial Contribution:**

▪ **Human Resources Development Fund**

▪ **AFI**

▪ **Voluntary Basis**

❑ **The implementation of MOU includes:**

▪ **Training of 20 participants annually**

▪ **3 years period**

▪ **Except transport all costs will be covered**

20 participants per year

MOU

3 Years

Share of experience and know-how
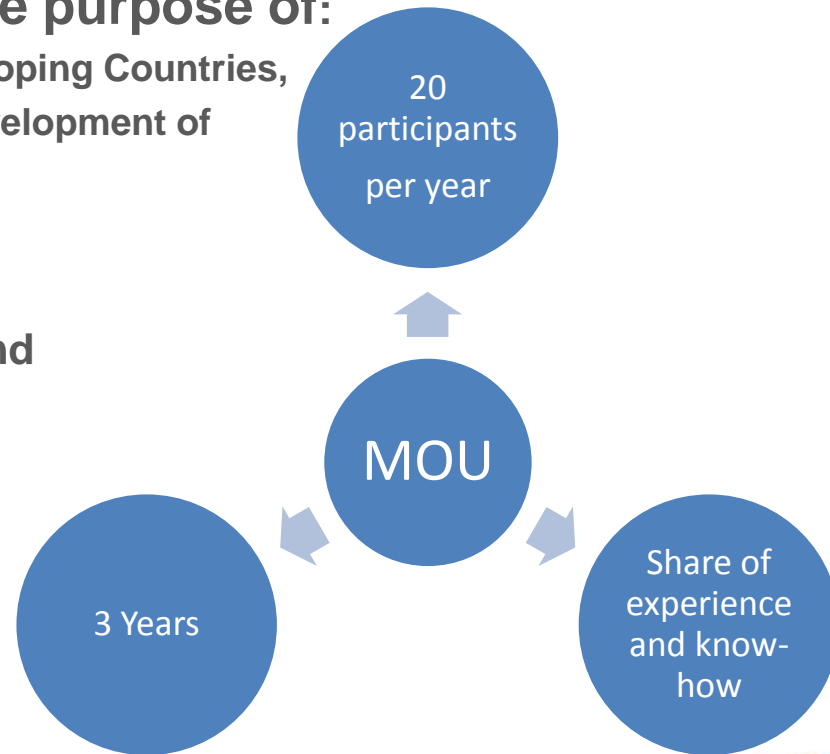
CAPACITY BUILDING AND TRAININGS EFFORTS

Year / Location	Content	Country	Participants
2016 - Ankara	Safety and Security	Djibouti	7
2016 - Ankara	Safety Management System & Risk Management, Minimum Equipment List Approval Process, Aoc Certification Process	Kyrgyzstan / **SSC on PEL Removed**	9
2016 – Ankara	ICAO USOAP	Azerbaijan	1
2016 – Ankara	Experience Share Study	IRAN	6
2016 – Ankara	DGR – OJT	Kazakhstan	3
2014-2015 Ankara	Emerging Countries Training Program	Chad, Dem. Congo, Somalia, Djibouti, Sudan, Senegal	18

We are ready for further cooperation efforts

SHGM DGCA

Turkish DGCA Cooperation Efforts

- ❑ Provide following trainings including OJT in 2016 & 2017;
  - ▪ Security
  - ▪ SAFA
  - ▪ Aerodrome Certification
  - ▪ SSP – SMS
  - ▪ Part 145 – AMO
  - ▪ Part M – Maintenance Responsibilities
  - ▪ ICAO State Letter
  - ▪ Training requests from Africa
  - ▪ Especially OJT
- ❑ MOU with ACAC
- ❑ Looking forward to cooperate with AFCAC

Turkish Civil Aviation Academy

- ✓ **Construction Phase**
  - ✓ **Started February 2016**
- ✓ **Planned to be finished 2018**
- ✓ **New opportunity in Europe**
- ✓ **Istanbul is the most appropriate location**

❑ **Close cooperation with AFCAC Secretariat**

❑ **First Contact in Dakar (May 2014)**
- Committed to provide training/workshop on AIS

❑ **In 2014, 2 AIS trainings took place**
- DR Congo, 28-31 July, 40 Participants (CAA/ANSP)
- Angola, 24-28 November, 35 Participants (ANSP AIS)

❑ **AIS/AIM Training in Nigeria**
- NAMA, **Lagos**
- **23 – 27 November 2015**
- 5 days
- 53 participants from NAMA & CAA

Some feedback…

"Very profitable; very good training, well structured, with good workbooks that can be used during our daily work; this refresher training was really helpful, (…)"

"The course was good and increased remarkably the knowledge of AIS among the students…"

❑ **Agreement between EUROCONTROL and IATA**

- EUROCONTROL committed to assist IATA in its endeavour for African States to improve their capability to provide AIS/AIM

- Provision of expert workshops to support African States and their ANSPs in improving their AIS, including transition from AIS to AIM Roadmap

- A series of three workshops per State / ANSP over a two-year period, facilitated by EUROCONTROL and IATA

- IATA, in coordination with EUROCONTROL, decides to prepare workshops based on identified discrepancies and airlines' information

- Coordinated with ICAO to obtain direct feedback
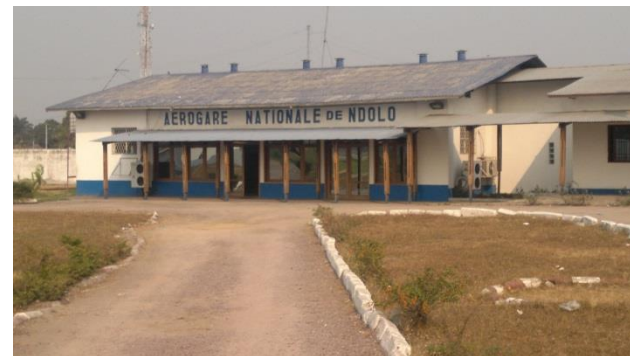
- Extension of Agreement with IATA

EUROCONTROL – IATA (*Next Steps*)

Implementation of AIS/AIM action plans in…

- **DR Congo**
    - AIS Office N'Dolo, Kinshasa
    - When: 26 – 30 September 2016

- **Angola**
    - ENANA, Luanda
    - When: October 2016

- **Nigeria**
    - NAMA, Lagos
    - When: November 2016

Duration: Minimum 5 days / State

Participants: Common session: 25 – 40 / State

                      OJT session: 2 – 5 / State

New Ideas

❑ EUROCONTROL – AFI Region Cooperation
(Exploring some ideas)

- **Cooperation on RASG and PIRG activities**
- **Establishment of ATM Standardisation Programme**
  - Technical support to assess States' aviation ecosystem
  - Develop a regulatory / technical aviation infrastructure
  - Harmonise the regional aviation environment
  - In direct support of ICAO's NCLB Initiative
- **Transposition of ESSIP / LSSIP methodology**
  - Monitoring tool for GANP ASBU implementation modules
  - Reporting tool to address corrective measures
- **E-learning activities on AICM/AIXM**
- **Civil / Military ATM coordination**
- **Human Performance in ATM**

Candidature

❑ Turkey is candidate for ICAO Council at 2016 Elections.

❑ Seeking your support to TR and ECAC candidates

❑ As a Council Member, Turkey will be able to;

   - play a more active role in the development of African Civil Aviation

   - provide more support and contribution to Africa

❑ **Stronger Africa, Stronger Turkey…**

TURKEY
CANDIDATE FOR 2016 ICAO COUNCIL ELECTIONS

THANK YOU

For further inquires;
E-mail: haydar.yalcin@shgm.gov.tr