Session 1: Setting the Scene

Tehran, 20-23 February 2017
Preamble

Therefore, the undersigned governments having agreed on certain principles and arrangements in order that international civil aviation may be developed in a safe and orderly manner and that international air transport services may be established on the basis of equality of opportunity and operated soundly and economically;
State of the Air Transport Industry
State of Air Transport in the MID Region
Bahrain
Egypt
Iran, Islamic Republic of
Iraq
Jordan
Kuwait
Lebanon
Libya
Oman
Qatar
Saudi Arabia
Sudan
Syrian Arab Republic
United Arab Emirates
Yemen
Passenger traffic in MID region in 2015

- RPK growth of 10.3% in 2015 supported by the expansion of Emirates (+8.8%), Qatar Airways (+18.0%) and Etihad Airways (+21.3%)
- RPK growth is above the world average and the highest in the world

**Source:** ICAO Form A and ICAO estimates
Available Seat-Kilometres

Passenger traffic in MID region in 2015

- ASK growth of 12.8% in 2015, + 2.1 percentage point compared to 2014 growth (10.7%)
- ASK growth is above the world average

Source: ICAO Form A and ICAO estimates
### Passenger traffic in MID region in 2015

- The passenger load factor decreased in 2015. It reached 76.3% compared to 78.1% in 2014.
- Passenger load factor is below the world average

**Source:** ICAO Form A and ICAO estimates

**Diagram:**
- **Passenger Load Factor**
- **Middle East average LF**
- **World average LF**
- **Y-axis:** 65% to 85%
- **X-axis:** 2011 to 2015

- 2011: 76.0%
- 2012: 77.8%
- 2013: 77.5%
- 2014: 78.1%
- 2015: 76.3%
Freight traffic in MID region in 2015

- FTK growth of 12.4% in 2015, +2.2 percentage points compared to 2013 growth (10.2%)
- FTK growth is lead by Emirates, Qatar Airways and Etihad Airways
- The 3 mentioned airlines account for 86.4% of the freight traffic performed by airlines registered in the region.
- FTK growth is by far above the world average

Source: ICAO Form A and ICAO estimates

International and domestic scheduled services
LCC penetration in intra-MID traffic

- Seats offered by LCC was only 4% of the total seats offered in 2006
- The share of LCC seat grew from 4% in 2006 to 20% in 2015
- The share of seats offered by LCC is lower than the world average
- LCC offered about 20 million seat to travel within the MID region in 2015
- 92% of MID States have LCC traffic since 2006 (Only Libya does not have LCC traffic)

Source: ICAO, OAG
Aviation Data and Analysis
Preamble

THEREFORE, the undersigned governments having agreed on certain principles and arrangements in order that international civil aviation may be developed in a safe and orderly manner and that international air transport services may be established on the basis of equality of opportunity and operated soundly and economically;
**Growth of air transport**

- **Revenue Passenger-Kilometres (billion):**
  - 1945: 10
  - 1950: 50
  - 1955: 100
  - 1960: 150
  - 1965: 200
  - 1970: 250
  - 1975: 300
  - 1980: 350
  - 1985: 400
  - 1990: 450
  - 1995: 500
  - 2000: 550
  - 2005: 600
  - 2010: 650
  - 2015: 700

- **Freight Tonne-Kilometres (billion):**
  - 1945: 1
  - 1950: 10
  - 1955: 20
  - 1960: 30
  - 1965: 40
  - 1970: 50
  - 1975: 60
  - 1980: 70
  - 1985: 80
  - 1990: 90
  - 1995: 100
  - 2000: 110
  - 2005: 120
  - 2010: 130
  - 2015: 140

**Source:** ICAO Annual Report of the Council

- **Growth of air transport (billion):**
  - 198 billion FTK +1.7% growth rate vs. 2014 billion FTK

- **Scheduled commercial traffic:**
  - Total (international and domestic) services

- **Growth rate vs. 2014:**
  - +7.1%
3.5 billion passengers
34 million aircraft departures
51 million tonnes of freight
Over 1,400 scheduled airlines
More than 27,000 aircraft
More than 4,130 airports
173 air navigation centres
International and domestic passenger traffic

Domestic and International Revenue Passenger-Kilometres (RPK) (in billion)

- International RPK
- Domestic RPK

+7.0% in 2016 (ICAO projection)
+7.3% in 2016 (ICAO projection)

Source: ICAO Annual Report of the Council
The world economy recorded a real GDP growth of 2.4% in 2015 and total passenger-kilometres increased by 7.1%.

Growth despite constraining factors

- Brussels airport attacks (security concern)
- Zika outbreak (health concern)

Source: ICAO, World Bank

Global spread of Zika virus 2013-2016

Source: WHO
Economic benefits of aviation in 2015

Direct economic contribution of the aviation sector

10.0 million Direct jobs supported by aviation worldwide

$718 billion Direct Global economic impact

63.5 million Jobs supported by aviation worldwide

$2.7 trillion Direct, indirect, induced and tourism economic contribution of the aviation sector

Source: ICAO, ATAG
Share of Revenue Passenger-Kilometres by region in 2015

- North America: 24.7%
- Europe: 26.7%
- Asia and Pacific: 31.9%
- Middle East: 9.2%
- Africa: 2.2%
- Latin America and the Caribbean: 5.3%

Source: ICAO
Passenger traffic distribution

**2005**
- Domestic: 41%
- International: 59%

**2015**
- Domestic: 37%
- International: 63%

**Source:** ICAO Annual Report of the Council

**Scheduled commercial traffic measured in Revenue Tonnes-Kilometres**
## Traffic rankings in 2014-15

International Scheduled Revenue Tonne-Kilometres (RTK)

<table>
<thead>
<tr>
<th>Rank</th>
<th>State of AOC</th>
<th>RTK 2014</th>
<th>RTK share (%)</th>
<th>Cumulative (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>China (1)</td>
<td>62,661,657,151</td>
<td>11.76083%</td>
<td>11.76083%</td>
</tr>
<tr>
<td>2</td>
<td>United States</td>
<td>62,359,064,486</td>
<td>11.70404%</td>
<td>23.46480%</td>
</tr>
<tr>
<td>3</td>
<td>United Arab Emirates</td>
<td>46,892,720,885</td>
<td>8.80119%</td>
<td>32.26005%</td>
</tr>
<tr>
<td>4</td>
<td>United Kingdom</td>
<td>30,158,001,753</td>
<td>5.66029%</td>
<td>37.92634%</td>
</tr>
<tr>
<td>5</td>
<td>Germany</td>
<td>28,814,799,214</td>
<td>5.40819%</td>
<td>43.34533%</td>
</tr>
<tr>
<td>6</td>
<td>Republic of Korea</td>
<td>20,764,711,405</td>
<td>3.89728%</td>
<td>47.23181%</td>
</tr>
<tr>
<td>7</td>
<td>Singapore</td>
<td>18,511,391,369</td>
<td>3.47436%</td>
<td>50.70617%</td>
</tr>
<tr>
<td>8</td>
<td>France</td>
<td>17,732,411,000</td>
<td>3.32816%</td>
<td>54.03433%</td>
</tr>
<tr>
<td>9</td>
<td>Netherlands</td>
<td>15,962,395,348</td>
<td>2.99599%</td>
<td>57.03028%</td>
</tr>
<tr>
<td>10</td>
<td>Japan</td>
<td>14,581,032,148</td>
<td>2.73668%</td>
<td>59.76696%</td>
</tr>
<tr>
<td>11</td>
<td>Qatar</td>
<td>14,293,445,230</td>
<td>2.68271%</td>
<td>62.44967%</td>
</tr>
<tr>
<td>12</td>
<td>Turkey</td>
<td>13,771,403,581</td>
<td>2.58472%</td>
<td>65.03439%</td>
</tr>
<tr>
<td>13</td>
<td>Canada</td>
<td>11,983,608,812</td>
<td>2.45918%</td>
<td>67.28357%</td>
</tr>
<tr>
<td>14</td>
<td>Ireland</td>
<td>11,858,967,019</td>
<td>2.27666%</td>
<td>69.51123%</td>
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<tr>
<td>15</td>
<td>Russian Federation</td>
<td>11,802,890,390</td>
<td>2.21562%</td>
<td>71.72649%</td>
</tr>
<tr>
<td>16</td>
<td>Malaysia</td>
<td>9,593,485,831</td>
<td>1.80058%</td>
<td>73.52707%</td>
</tr>
<tr>
<td>17</td>
<td>Australia</td>
<td>8,855,781,434</td>
<td>1.66212%</td>
<td>75.18919%</td>
</tr>
<tr>
<td>18</td>
<td>Thailand</td>
<td>8,473,871,375</td>
<td>1.59044%</td>
<td>76.77963%</td>
</tr>
<tr>
<td>19</td>
<td>Spain</td>
<td>7,995,446,551</td>
<td>1.50065%</td>
<td>78.28028%</td>
</tr>
<tr>
<td>20</td>
<td>India</td>
<td>6,510,575,876</td>
<td>1.22196%</td>
<td>79.50223%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rank</th>
<th>State of AOC</th>
<th>RTK 2015</th>
<th>RTK share (%)</th>
<th>Cumulative (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>China (1)</td>
<td>70,403,245,196</td>
<td>12.42421%</td>
<td>12.42421%</td>
</tr>
<tr>
<td>2</td>
<td>United States</td>
<td>61,944,119,667</td>
<td>10.93141%</td>
<td>23.35562%</td>
</tr>
<tr>
<td>3</td>
<td>United Arab Emirates</td>
<td>52,100,507,516</td>
<td>9.19429%</td>
<td>32.54991%</td>
</tr>
<tr>
<td>4</td>
<td>United Kingdom</td>
<td>31,065,034,269</td>
<td>5.48211%</td>
<td>38.03203%</td>
</tr>
<tr>
<td>5</td>
<td>Germany</td>
<td>30,507,251,927</td>
<td>5.38368%</td>
<td>43.41571%</td>
</tr>
<tr>
<td>6</td>
<td>Republic of Korea</td>
<td>21,802,605,943</td>
<td>3.84755%</td>
<td>47.26326%</td>
</tr>
<tr>
<td>7</td>
<td>Singapore</td>
<td>18,615,753,428</td>
<td>3.28516%</td>
<td>50.54842%</td>
</tr>
<tr>
<td>8</td>
<td>France</td>
<td>18,295,414,100</td>
<td>3.22863%</td>
<td>53.77705%</td>
</tr>
<tr>
<td>9</td>
<td>Qatar</td>
<td>17,359,871,880</td>
<td>3.06353%</td>
<td>56.84059%</td>
</tr>
<tr>
<td>10</td>
<td>Netherlands</td>
<td>15,732,743,524</td>
<td>2.77639%</td>
<td>59.61698%</td>
</tr>
<tr>
<td>11</td>
<td>Turkey</td>
<td>15,587,345,360</td>
<td>2.75073%</td>
<td>62.36771%</td>
</tr>
<tr>
<td>12</td>
<td>Japan</td>
<td>15,527,311,664</td>
<td>2.74014%</td>
<td>65.10785%</td>
</tr>
<tr>
<td>13</td>
<td>Ireland</td>
<td>13,165,546,390</td>
<td>2.33235%</td>
<td>67.43120%</td>
</tr>
<tr>
<td>14</td>
<td>Canada</td>
<td>13,040,382,256</td>
<td>2.30126%</td>
<td>69.73246%</td>
</tr>
<tr>
<td>15</td>
<td>Russian Federation</td>
<td>11,635,009,200</td>
<td>2.05326%</td>
<td>71.78527%</td>
</tr>
<tr>
<td>16</td>
<td>Australia</td>
<td>9,368,848,020</td>
<td>1.65334%</td>
<td>73.43906%</td>
</tr>
<tr>
<td>17</td>
<td>Spain</td>
<td>9,215,837,003</td>
<td>1.62634%</td>
<td>75.06540%</td>
</tr>
<tr>
<td>18</td>
<td>Thailand</td>
<td>9,113,598,830</td>
<td>1.60830%</td>
<td>76.67370%</td>
</tr>
<tr>
<td>19</td>
<td>Malaysia</td>
<td>8,946,590,358</td>
<td>1.58235%</td>
<td>78.25505%</td>
</tr>
<tr>
<td>20</td>
<td>India</td>
<td>6,994,194,840</td>
<td>1.23428%</td>
<td>79.49033%</td>
</tr>
</tbody>
</table>

*Source: ACI*

(1) Including Hong Kong SAR, Macao SAR and Taiwan Province of China
**Capacity growth stimulating traffic**

**International capacity growth – Top 20 in terms of ASK**

<table>
<thead>
<tr>
<th>Rank</th>
<th>State</th>
<th>Percentage Increase in ASK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>China</td>
<td>17%</td>
</tr>
<tr>
<td>2</td>
<td>United Arab Emirates</td>
<td>15%</td>
</tr>
<tr>
<td>3</td>
<td>Turkey</td>
<td>17%</td>
</tr>
<tr>
<td>4</td>
<td>Qatar</td>
<td>19%</td>
</tr>
<tr>
<td>5</td>
<td>Canada</td>
<td>11%</td>
</tr>
<tr>
<td>6</td>
<td>Spain</td>
<td>12%</td>
</tr>
<tr>
<td>7</td>
<td>Ireland</td>
<td>8%</td>
</tr>
<tr>
<td>8</td>
<td>Germany</td>
<td>4%</td>
</tr>
<tr>
<td>9</td>
<td>United States</td>
<td>2%</td>
</tr>
<tr>
<td>10</td>
<td>Japan</td>
<td>8%</td>
</tr>
<tr>
<td>11</td>
<td>Republic of Korea</td>
<td>5%</td>
</tr>
<tr>
<td>12</td>
<td>Mexico</td>
<td>22%</td>
</tr>
<tr>
<td>13</td>
<td>United Kingdom</td>
<td>2%</td>
</tr>
<tr>
<td>14</td>
<td>India</td>
<td>8%</td>
</tr>
<tr>
<td>15</td>
<td>Oman</td>
<td>37%</td>
</tr>
<tr>
<td>16</td>
<td>Hungary</td>
<td>18%</td>
</tr>
<tr>
<td>17</td>
<td>Philippines</td>
<td>10%</td>
</tr>
<tr>
<td>18</td>
<td>Brazil</td>
<td>14%</td>
</tr>
<tr>
<td>19</td>
<td>Ethiopia</td>
<td>16%</td>
</tr>
<tr>
<td>20</td>
<td>France</td>
<td>3%</td>
</tr>
</tbody>
</table>

**Top 20 new routes in ASK in 2015**

<table>
<thead>
<tr>
<th>City Pair</th>
<th>Country Pair</th>
</tr>
</thead>
<tbody>
<tr>
<td>Istanbul - San Francisco</td>
<td>Turkey – United States</td>
</tr>
<tr>
<td>Abu Dhabi - Brisbane</td>
<td>United Arab Emirates - Australia</td>
</tr>
<tr>
<td>Taipei - Istanbul</td>
<td>China - Turkey</td>
</tr>
<tr>
<td>Istanbul - Jakarta</td>
<td>Turkey - Indonesia</td>
</tr>
<tr>
<td>Dubai - Denpasar-Bali</td>
<td>United Arab Emirates - Indonesia</td>
</tr>
<tr>
<td>Hong Kong - Boston</td>
<td>China - United States</td>
</tr>
<tr>
<td>Melbourne - Beijing</td>
<td>Australia - China</td>
</tr>
<tr>
<td>Houston - Taipei</td>
<td>United States - China</td>
</tr>
<tr>
<td>Edinburgh - Abu Dhabi</td>
<td>United Kingdom - United Arab Emirates</td>
</tr>
<tr>
<td>Orlando - Dubai</td>
<td>United States - United Arab Emirates</td>
</tr>
<tr>
<td>Dallas - Beijing</td>
<td>United States - China</td>
</tr>
<tr>
<td>Brisbane - Tokyo</td>
<td>Australia - Japan</td>
</tr>
<tr>
<td>Istanbul - Manila</td>
<td>Turkey - Philippines</td>
</tr>
<tr>
<td>Sao Paulo - Addis Ababa</td>
<td>Brazil - Ethiopia</td>
</tr>
<tr>
<td>Salt Lake City - Amsterdam</td>
<td>United States - Netherlands</td>
</tr>
<tr>
<td>Guangzhou - San Francisco</td>
<td>China - United States</td>
</tr>
<tr>
<td>Vancouver - Osaka</td>
<td>Canada - Japan</td>
</tr>
<tr>
<td>San Jose - Beijing</td>
<td>United States - China</td>
</tr>
<tr>
<td>Nairobi - Hanoi</td>
<td>Kenya - Vietnam</td>
</tr>
<tr>
<td>Osaka - Los Angeles</td>
<td>Japan - United States</td>
</tr>
</tbody>
</table>

**Source:** ICAO

ASK: Available Seat-Kilometres
More than half of international tourists arrive by air

- Tourism expansion relies heavily on air transport, providing substantial economic benefits for anyone involved in the value chain of tourism
- Separate sectorial policies on air transport and tourism result in a fundamental, and too often even conflicting disconnect which constitutes a severe constraint on the development of travel and tourism

Inbound tourism by mode of transport in 2014

Source: World Tourism Organization (UNWTO)
**International tourism**

**International tourists arrival - 2015**
- Asia and the Pacific, 279 mn, 24%
- Americas, 191 mn, 16%
- Africa, 53 mn, 5%
- Middle East, 53 mn, 4%
- Europe, 608 mn, 51%

**International tourism receipts – 2015 (USD)**
- Asia and the Pacific, 419 bn, 34%
- Americas, 277 bn, 23%
- Africa, 33 bn, 3%
- Middle East, 55 bn, 4%
- Europe, 448 bn, 36%

**Source:** World Tourism Organization (UNWTO)
Low-cost carriers (LCCs) stimulating traffic

Share of passengers carried by LCCs in 2015

Passenger number growth for LCCs and other carriers

<table>
<thead>
<tr>
<th></th>
<th>2014</th>
<th>2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCCs</td>
<td>9.8%</td>
<td>10.3%</td>
</tr>
<tr>
<td>Others</td>
<td>4.2%</td>
<td>5.5%</td>
</tr>
<tr>
<td>Total</td>
<td>5.7%</td>
<td>6.8%</td>
</tr>
</tbody>
</table>

LCCs growth has been consistently twice as much as other carriers’ growth

Source: ICAO
**Volume** of world international cargo shipment

- **Aviation**: 0.5%
- **Surface modes**: 99.5%

**Value** of world international cargo shipment

- **Aviation**: 34.6%
- **Surface modes**: 65.4%

One third of the value of world trade is shipped by air

*Source: Air Transport Action Group (ATAG), 2016*
Intermodal competition

Competitions from Other Modes of Transportation

- Air cargo carriers and liner shipping carriers transport similar commodities and the price gap between sea freight and air freight makes shippers switch from air to ocean.

- Railway transportation is gaining more market share. Rail freight makes a 17-day rail journey from China to Europe, at a lower fare than air freight.

Source: ICAO, UPU (Universal Postal Union)
Aggregated Tonnage of Postal Shipments (in million)

<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
<th>Letter-post</th>
<th>Parcel-post</th>
<th>EMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>458</td>
<td>163</td>
<td>168</td>
<td>126</td>
</tr>
<tr>
<td>2014</td>
<td>567</td>
<td>214</td>
<td>189</td>
<td>164</td>
</tr>
<tr>
<td>2015</td>
<td>656</td>
<td>218</td>
<td>220</td>
<td>218</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year/Year-1</th>
<th>Percent Change</th>
<th>Letter-post</th>
<th>Parcel-post</th>
<th>EMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015/14</td>
<td>15.8%</td>
<td>2.2%</td>
<td>16.6%</td>
<td>32.8%</td>
</tr>
<tr>
<td>2014/13</td>
<td>23.8%</td>
<td>31.0%</td>
<td>12.1%</td>
<td>30.3%</td>
</tr>
</tbody>
</table>

Source: UPU Data on Postal Shipments

E-Commerce stimulates air cargo

- 2/3 of international postal transportation is by air
- Global B2C e-commerce sales hit $1.5 trillion in 2015
- Double-digit annual growth in the e-commerce market
- High frequencies of E-commerce transactions may improve the load factors of air cargo carriers

Source: World Bank
Future of Air Cargo: Big Online Retailers? Drones?

**Amazon:**
E-commerce giant Amazon has signed up to lease 40 freighters, 20 from Atlas Air Worldwide Holdings and another 20 from ATSG. Amazon also registered a company in the U.S. as a non-vessel operating common carrier (NVOCC), which turned Amazon into a freight forwarder.

**Alibaba:**
Alibaba’s logistics arm, Cainiao Logistics, helped Alibaba rake in a staggering US$14.3 billion in a 24-hour period on 2015 “Singles Day”!

- **Amazon** announced its drone delivery program “Amazon Prime Air” since December 2013. Amazon has developed drones weighs less than 55 pounds and can carry up to a 5-pound payload.
- UAV (Unmanned Aerial Vehicle) manufacturer **Matternet**, announced its partnership with Swiss WorldCargo and Swiss Post on a project to test its drone aircraft as an automated cargo delivery system for small express packages.
- China’s **S.F. Express** has revealed it already has a fleet of aircraft flying 500 parcels a day to remote areas, and it is now looking to double the capacity.
- Chinese online retailer **JD.com** has also tested drone deliveries to the remote countryside.
Air carrier financial results in 2015

Airline **operating results** in 2015:
- US$ 58 billion operating profit
- 8.0% of operating revenues

With 23.1% of global traffic, airlines of North America generated more than half of global operating profits

ICAO is projecting the operating profit to be US$ 65 billion in 2016

*Source: ICAO*
Low oil prices support higher profits

Airline operating margin and jet fuel price

Jet fuel price declined by 43% in 2015

Airline operating margin continued to improve to reach 8% of operating revenues

Source: ICAO, EIA (Energy Information Administration)
Airline operating revenues

Analysis of difference in operating revenues (2015 over 2014)

<table>
<thead>
<tr>
<th></th>
<th>2015 (millions)</th>
<th>2014 (millions)</th>
<th>Difference (millions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating revenues</td>
<td>720,500</td>
<td>766,900</td>
<td>-46,400</td>
</tr>
<tr>
<td>Operating expenses</td>
<td>662,900</td>
<td>725,200</td>
<td>-62,300</td>
</tr>
<tr>
<td>Operating result</td>
<td>57,600</td>
<td>41,700</td>
<td>15,900</td>
</tr>
<tr>
<td>RTK</td>
<td>817,030</td>
<td>771,587</td>
<td>45,444</td>
</tr>
<tr>
<td>ATK</td>
<td>1,221,228</td>
<td>1,151,894</td>
<td>69,333</td>
</tr>
<tr>
<td>Yield, USD (cent)</td>
<td>88.2</td>
<td>99.4</td>
<td>-11.2</td>
</tr>
<tr>
<td>Cost/ATK, USD (cent)</td>
<td>54.3</td>
<td>63.0</td>
<td>-8.7</td>
</tr>
<tr>
<td>Weight load factor</td>
<td>67</td>
<td>67</td>
<td>-0.1</td>
</tr>
<tr>
<td>Break-even weight</td>
<td>62</td>
<td>63</td>
<td>-1.8</td>
</tr>
</tbody>
</table>

Net increase in operating result, USD (millions)

A record operating profit due to the traffic increase and lower fuel costs

Source: ICAO
For the 2 largest aircraft manufacturers (Airbus and Boeing) in 2015:

- 1397 new aircraft delivered
- Net orders for 1948 aircraft

Book to bill ratio = orders / deliveries

Book to bill ratio sharply declined from 2:1 in 2014 to 1.3:1 in 2015, reflecting slowing orders to deliveries.
• **Member States**
  – Australia, Brazil, China, Ethiopia, France (ENAC),
    India (CAA), Poland, Portugal, United Kingdom (CAA),
    United States (FAA, US DOT) etc.
• **United Nations Statistical Commission (UNSC)**
  – Aviation Satellite Account to measure the economic benefits of air transport, Global indicator for SDG Target 9.1
• **World Health Organization (WHO)**
  – Provision of traffic flows and intermediate stops of passengers originating from Zika affected regions
• **Universal Postal Union (UPU)**
  – Sharing with ICAO Big Data of e-commerce and mail transport, as well as joint research on e-commerce
• **United Nations Conference on Trade and Development (UNCTAD)**
  – Sharing with ICAO on global trade and other modal transportation, as well as global connectivity
• **World Tourism Organization (UNWTO)**
  – Sharing with ICAO on tourism statistics
• **World Bank**
  – Exchange of economic and aviation indicators
• **International Transport Forum (ITF at OECD)**
  – Traffic forecasts, competition analysis
• **ICM, University of Warsaw**
  – Competition analysis (direct vs indirect flights) by using MIDT, Air Transport Optimizer Tool by using ADS-B
• **Airports Council International (ACI)**
  – Joint collection of airport statistics, airport charge
• **AACO (Arab Air Carriers Organization)**
• **AFRAA (African Airlines Association)**
• **ALTA (Latin American and Caribbean Air Transport Association)**
  – Exchange of regional traffic statistics
Preliminary results of 2016
ICAO 2016 preliminary results

Number of passengers: +6.0% in 2016, 3.7 billion pax carried in 2016 (+6.8% in 2015)
Revenue Passenger-Kilometres: +6.3% in 2016 (+7.1% in 2015)
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https://www4.icao.int/newdataplus

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