



INTERNATIONAL CIVIL AVIATION ORGANIZATION

A United Nations Specialized Agency

Challenges and Opportunities for Aviation Training

**First Meeting of Directors of Civil Aviation Training Centres in the NAM/CAR Regions
(NAM/CAR/CATC/1)**

ICAO NACC Regional Office, Mexico City, Mexico, 27 to 30 August 2013

Eduardo Chacin

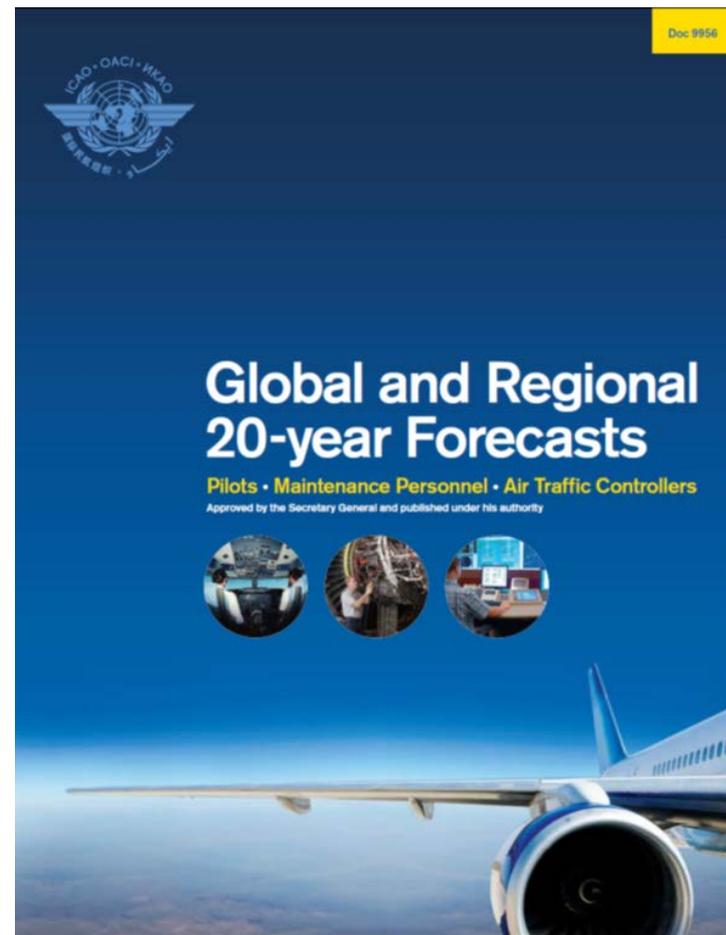
ICAO

International Civil Aviation Organization Role

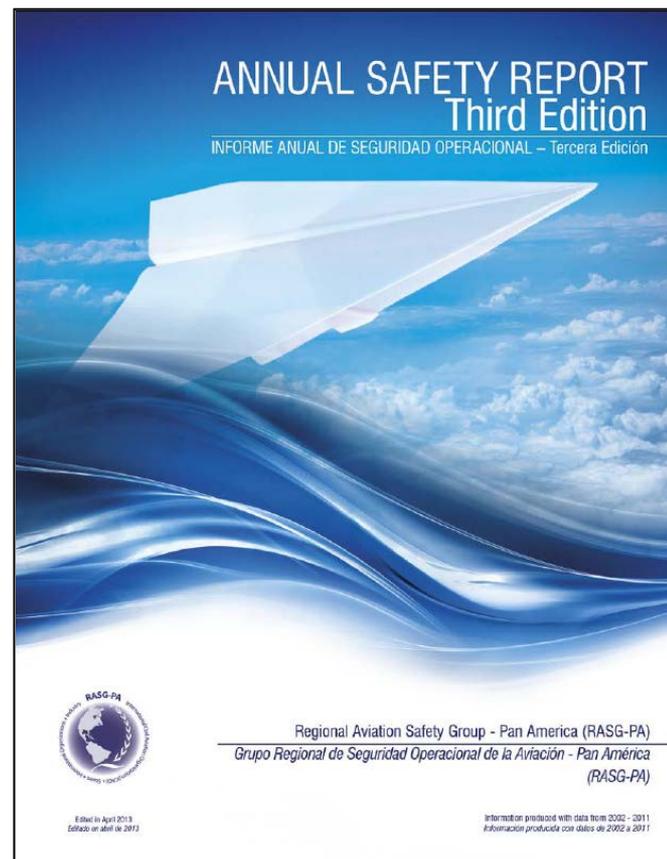
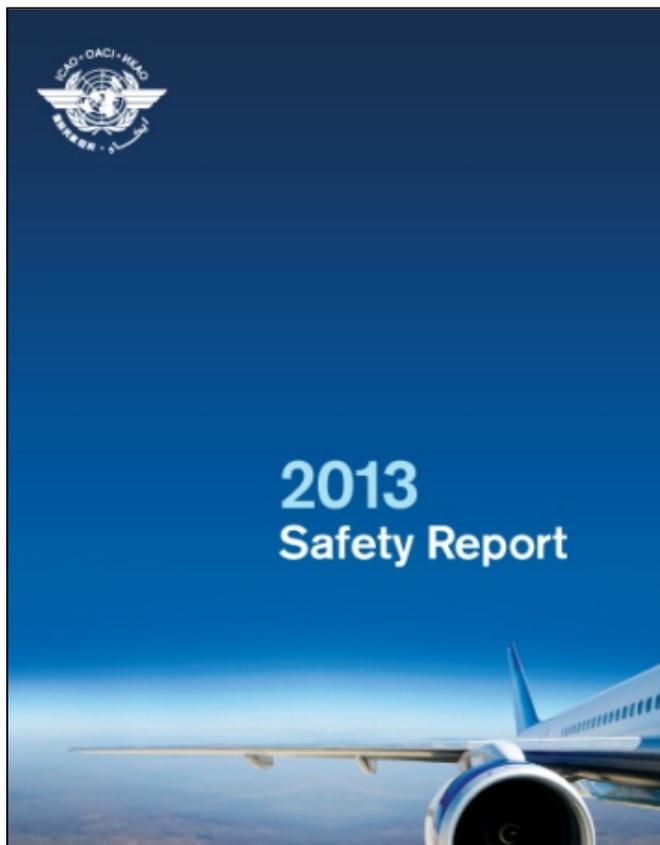


- Specialized agency of the United Nations
- Created in 1944 to promote the safe and orderly development of international civil aviation throughout the world
- Sets standards and regulations necessary for aviation safety, security, efficiency and regularity, and aviation environmental protection
- Serves as the forum for cooperation in all fields of civil aviation among its 191 Member States

Data-driven Organization



Data-driven Organization cont.



Air Transport Facts & Figures (ICAO)



3.0 billion
+4.7%
growth rate vs. 2011

*Passengers carried
in 2012**



6.4 billion
+4.4%
*average annual
growth rate*

*Forecasted passengers carried
in 2030*

31 million
+0.7%
vs. 2011

*Aircraft departures
in 2012**



59 million
+3.6%
*average annual
growth rate*

*Forecasted aircraft departures in
2030*

**Preliminary figures*

Traffic Statistics for Revenue Schedule Services



Air Transport Facts & Figures (ICAO) cont

5.4 trillion
Revenue Passenger-Kilometres
in **2012***

+4.9%
growth rate vs. 2011

182 billion
Freight Tonne-Kilometres
in **2012***

-1.1%
growth rate vs. 2011

Traffic Statistics for Revenue Schedule Services



Economic & Social Benefits

Air Transport Facts

**SOCIAL
BENEFITS**

60 million jobs → Worldwide
Directly and supporting sectors

**ECONOMIC
BENEFIT**

2 trillion USD = 3.5% GDP
global

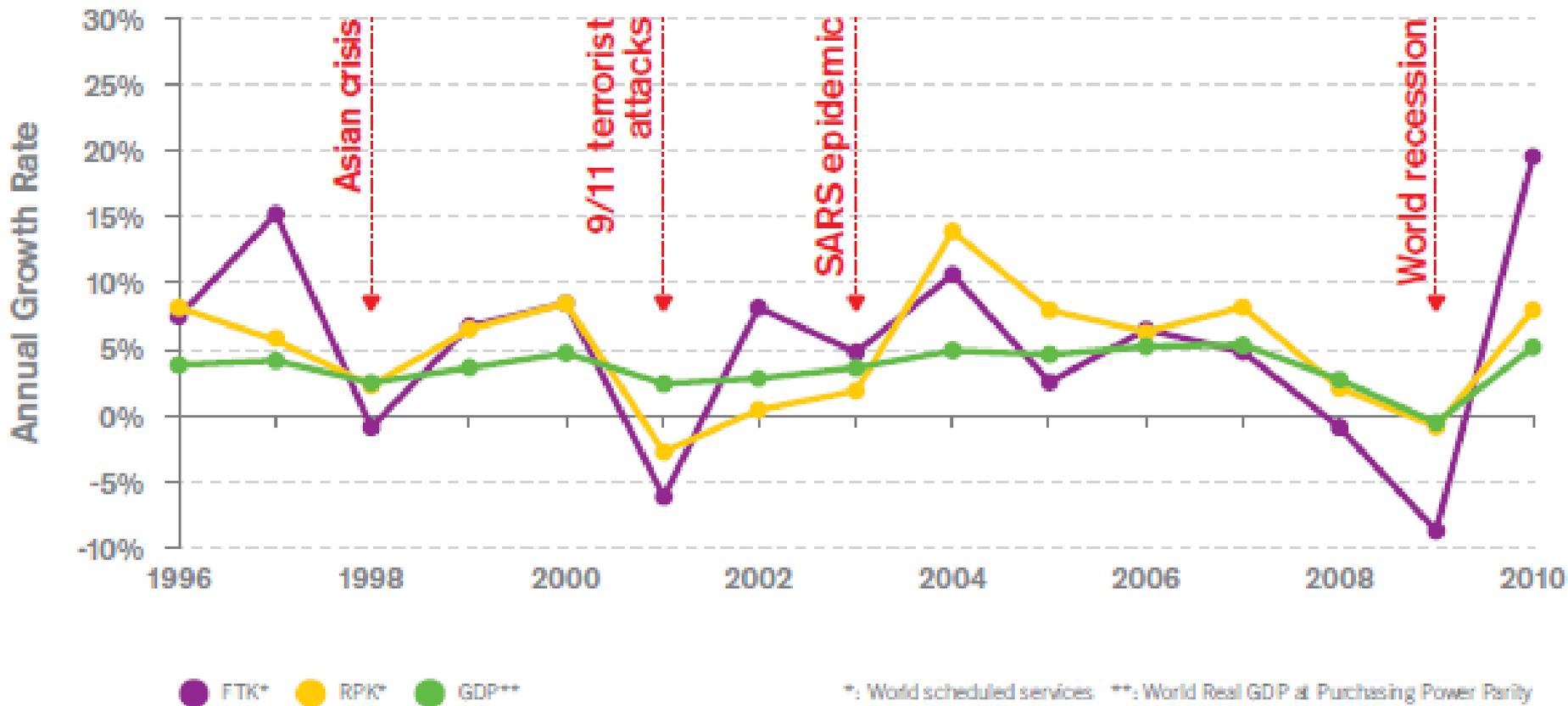
**Aviation annually carries more than half of the
1 billion international tourists**

Facts & Figures (ICAO)



World economic growth vs. air traffic growth (passenger and cargo)

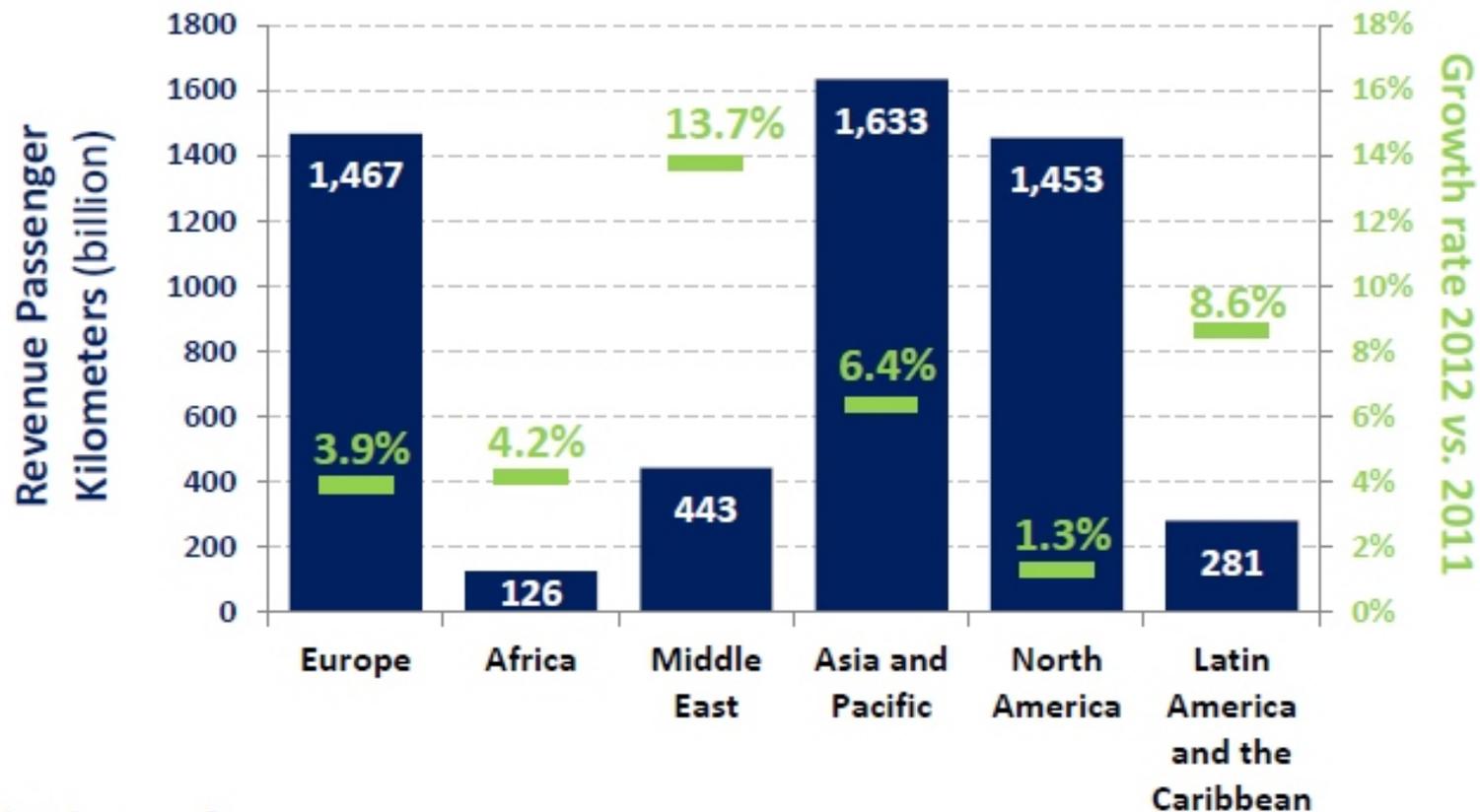
Source: IHS Global Insight, ICAO



Facts & Figures (ICAO) cont.



World passenger traffic - Regional distribution in 2012*

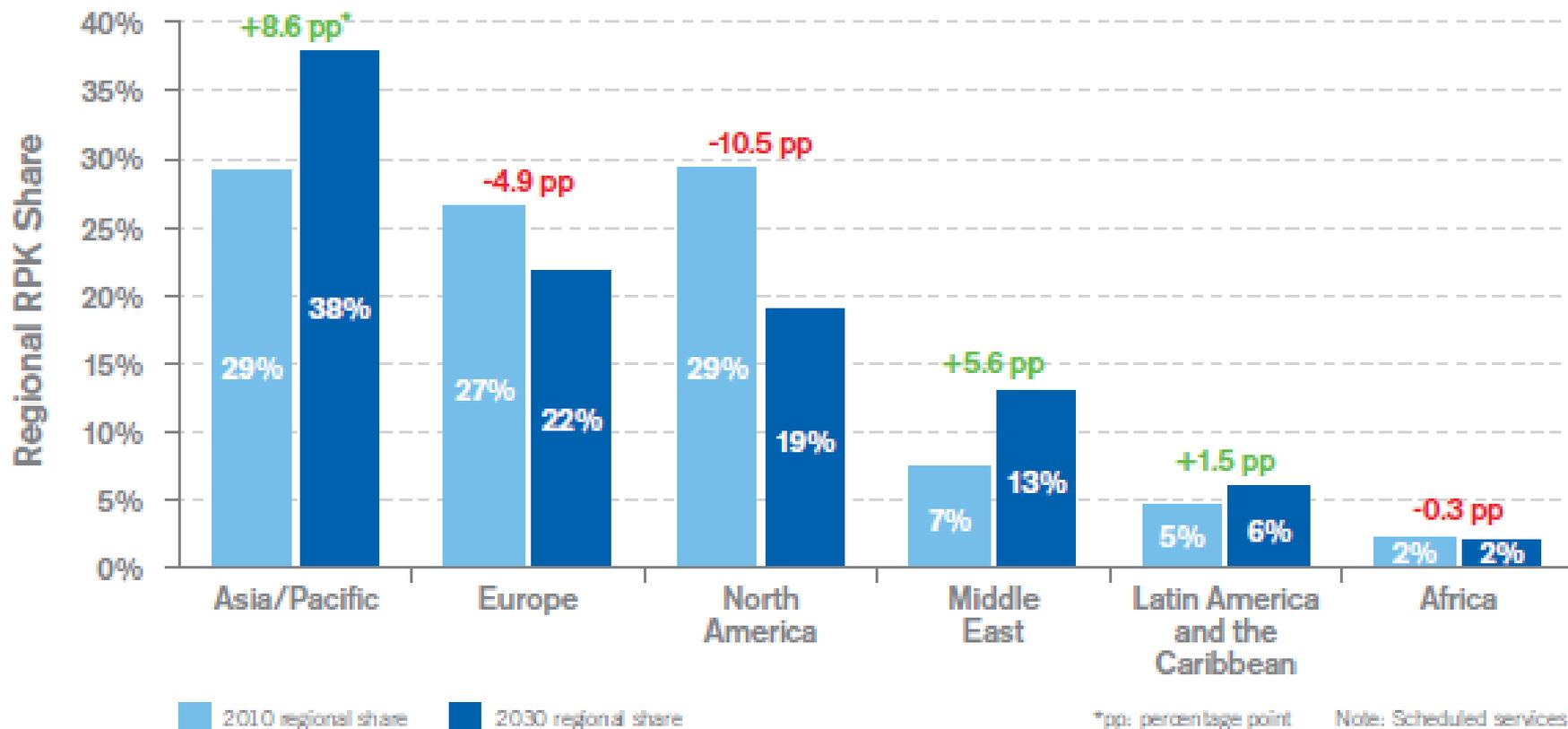


*Preliminary figures

Facts & Figures (ICAO) cont.



Regional share of passenger traffic by airline of registration: 2030 vs. 2010

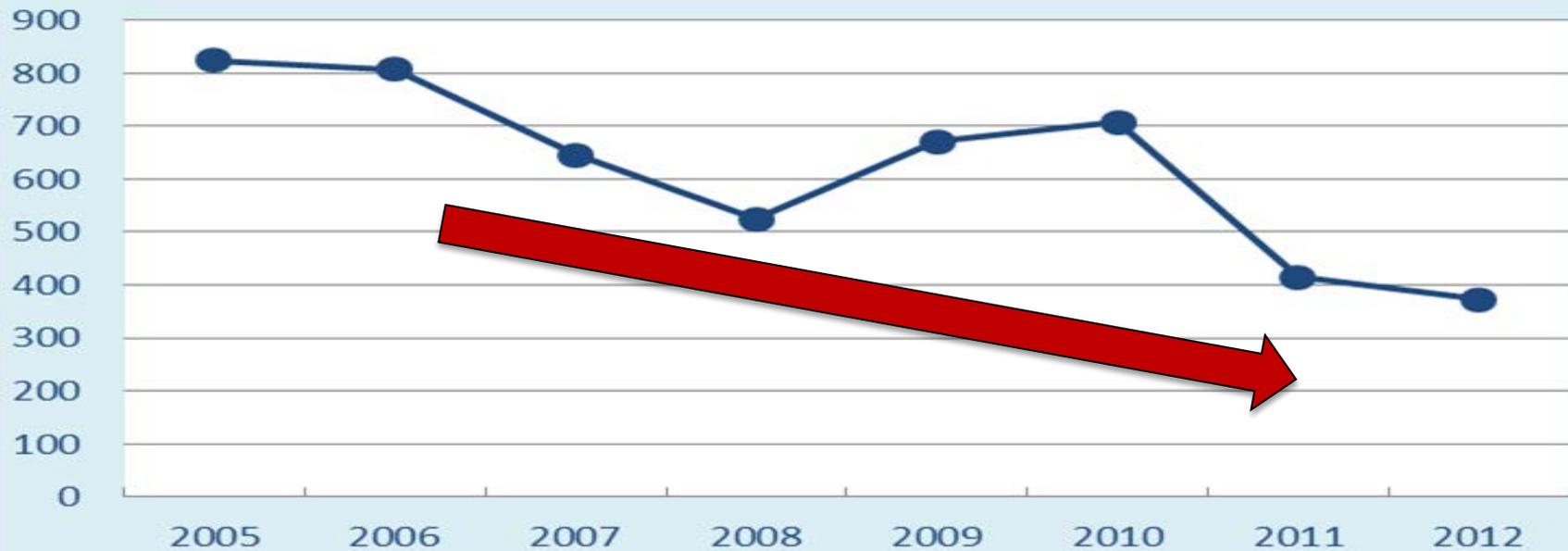


Status of Global Aviation Safety

Based on scheduled commercial operations involving aircraft having a maximum take-off weight (MTOW) above 2250 kg.

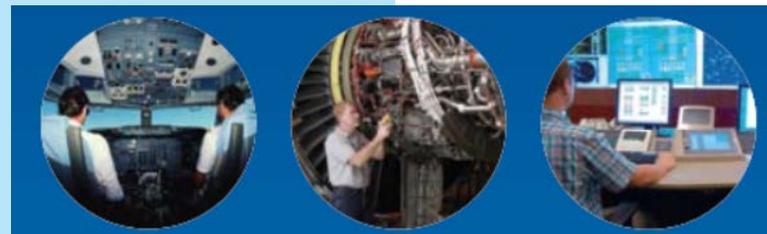
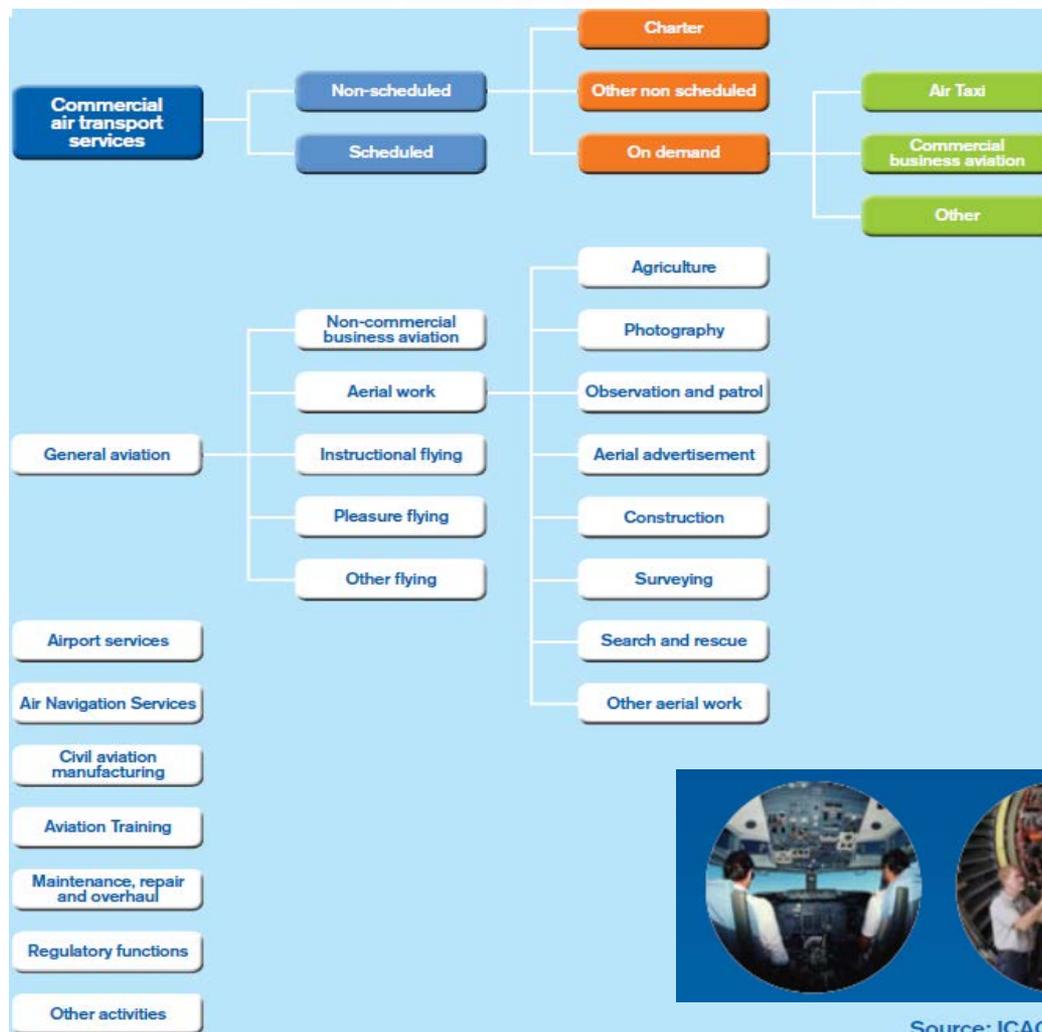


Fatality Trends: 2005 - 2012



NUMBER OF FATALITIES CONTINUE TO DECLINE
GLOBAL ACCIDENT RATE IS SIGNIFICANTLY LOWER

Civil Aviation Activities



Source: ICAO

Training of Aviation Personnel



- National Strategy
- Regional Strategy
- Global Strategy
- Short, Medium and Long Term



Challenges for Air Transport



- Commercial air transport has shown a strong traffic growth pattern
- Many new commercial air transport operators
- Highest number of aircraft orders ever registered
- Over the next twenty years, the demand for qualified aviation personnel pilots will need to be correlated to aircraft delivery plans

Challenges for Air Transport cont.

Global Challenges:

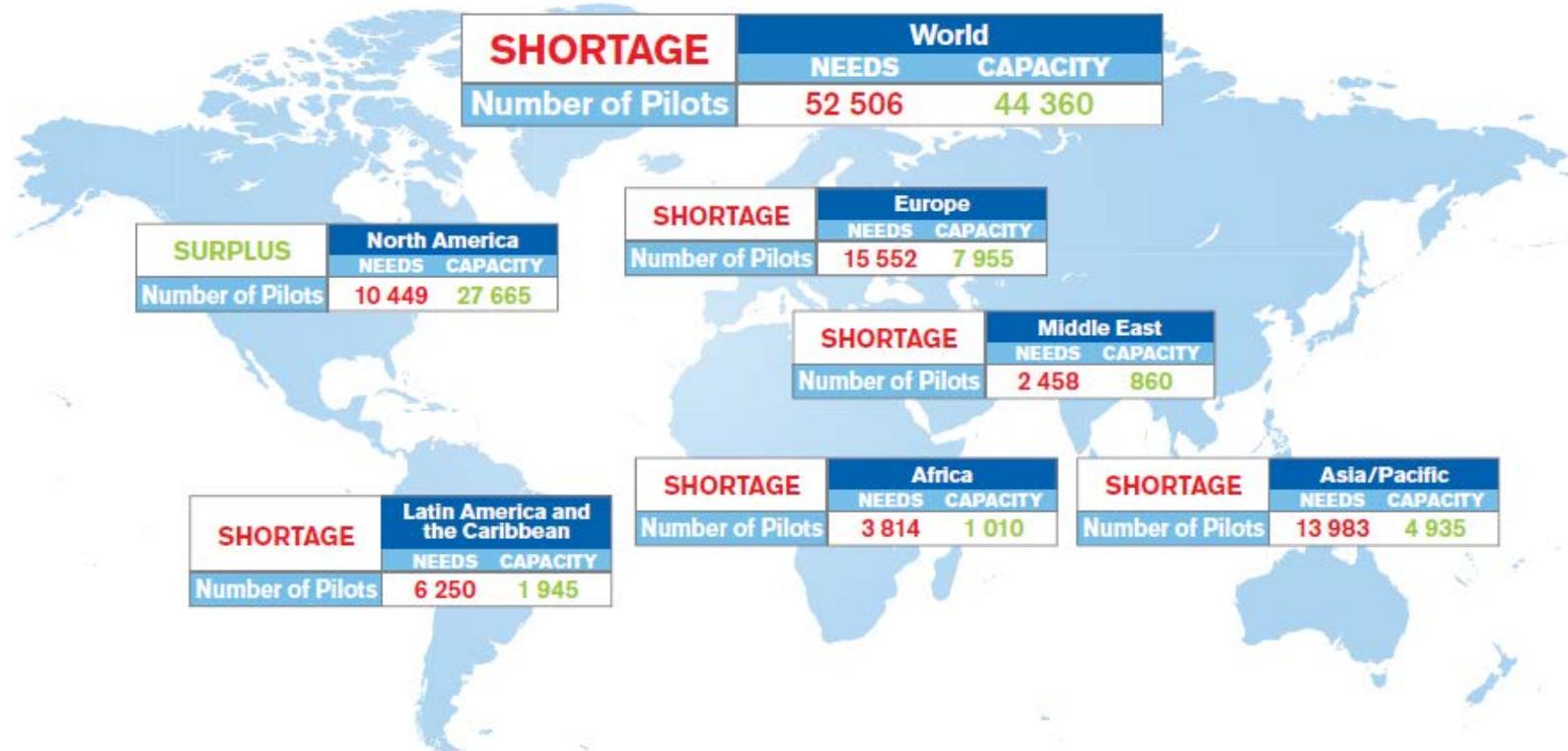
- Demand for skilled aviation personnel
- Training capacity
- Attractiveness of aviation
- Improvement of aviation safety
- Attrition related impact
- Others



Shortage of skilled aviation personnel

Future pilot needs vs. air training capacities

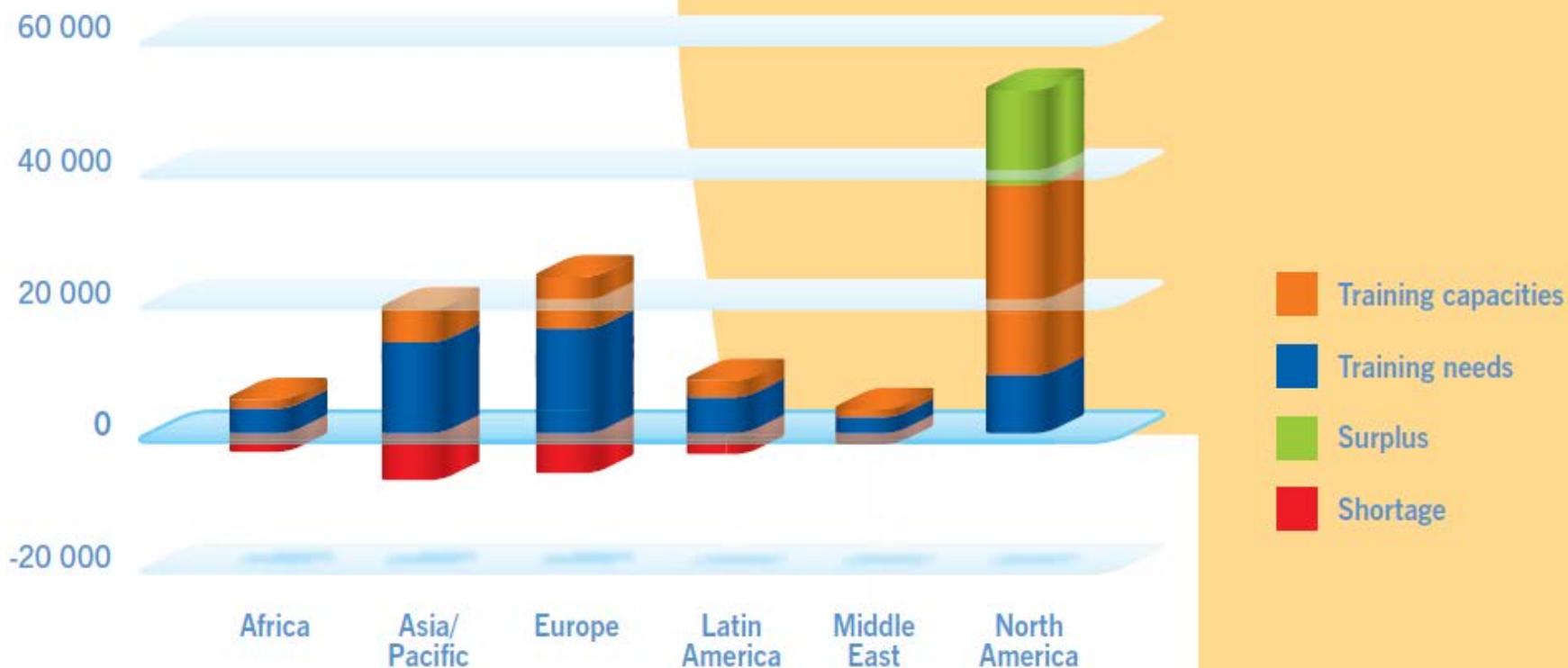
Source: ICAO Doc 9956



* Estimate of average annual needs for the 2010–2030 period based on various world fleet categories: Regional and business jets, turboprops, single-aisle, twin-aisle and all-cargo aircraft.

Most likely scenario

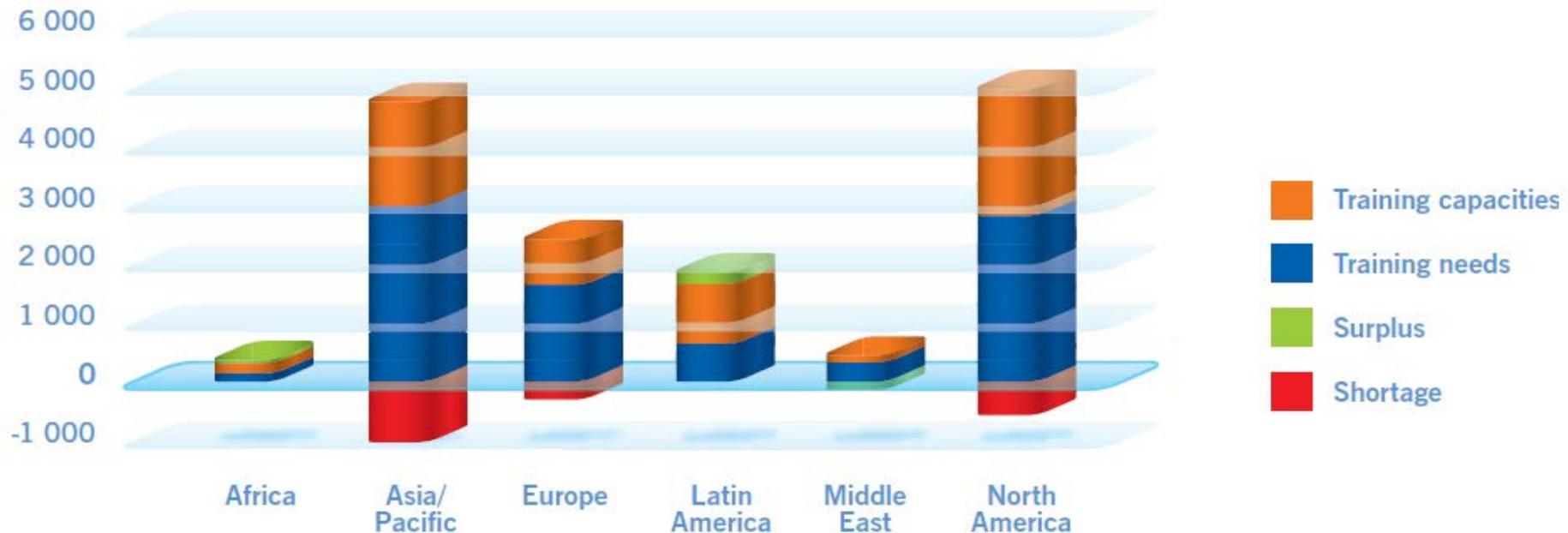
Pilot comparison: 2010–2030



Air Traffic Controllers



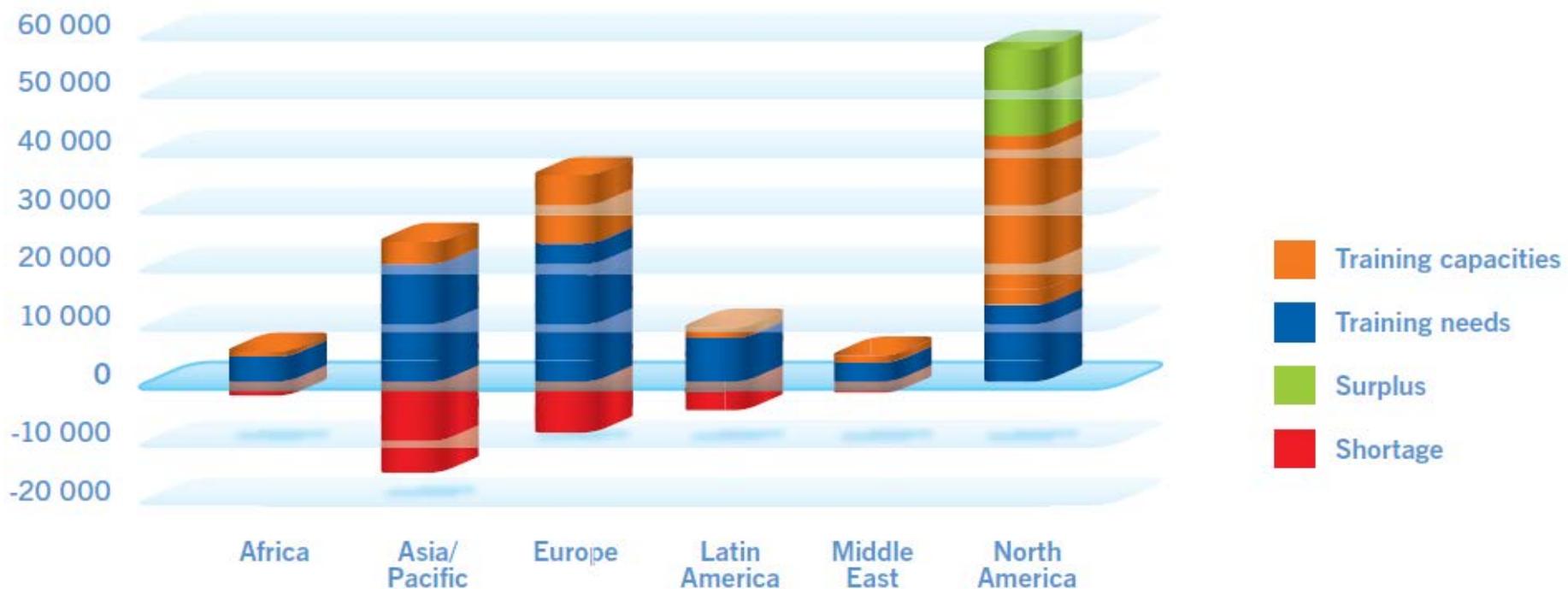
ATCO comparison: 2010–2030



Maintenance Personnel



Maintenance personnel comparison: 2010–2030



ICAO Initiatives



ICAO NEXT GENERATION OF AVIATION PROFESSIONALS (NGAP)
AND TRAINAIR *PLUS* REGIONAL SYMPOSIA



JAMAICA
TURKEY
SOUTH AFRICA
INDONESIA



For more information: www.icao.int/trainairplus



Opportunities



- Business
- Positioning
- Partnering
- Visibility
- Development
- Jobs
- Alignment
- Standardization



Summary



- Need for reliable statistics
- Attraction and retention of personnel
- Access to affordable quality aviation education and training
- Facilitating the use of competency-based approaches
- Removing regulatory obstacles
- Need for a coordinating mechanism

Conclusion



- Orderly and safe development of the air transportation system depends on the availability of the required human resources
- International aviation community should recognize this as a strategic issue
- Mission of ICAO is to lead efforts to ensure that enough competent personnel are available to manage, operate and maintain the global air transportation system of the future



ICAO

Uniting Aviation on

Safety | Security | Environment

Thank you!

Contact: echacin@icao.int

Visit: www.icao.int/NACC/Pages/default.aspx