Challenges and Opportunities for Aviation Training

RASG-PA Aviation Safety Seminar/Workshop St. Johns', Antigua, 10-12 September 2013

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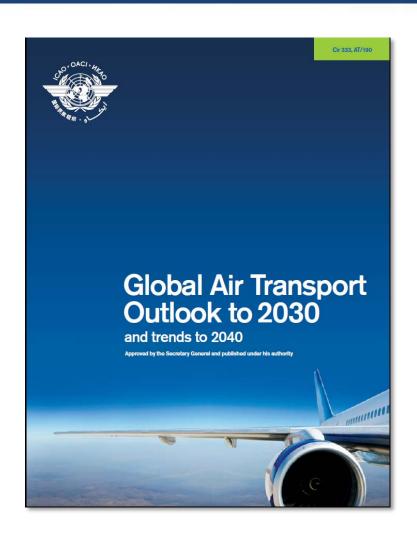
Regional Officer, Flight Safety
ICAO NACC Regional Office

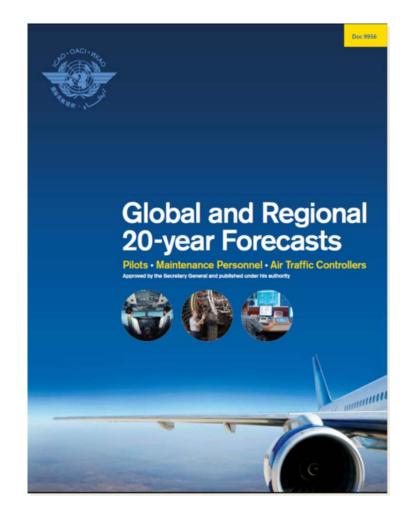
International Civil Aviation Organization Role

- 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



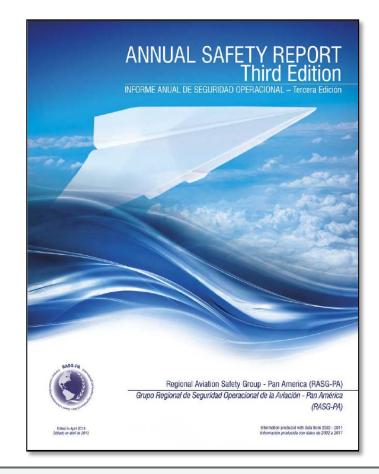




Data-driven Organization cont.

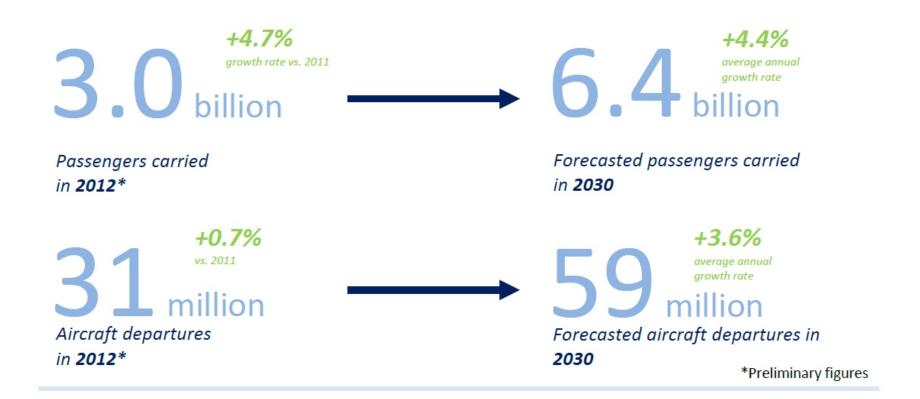






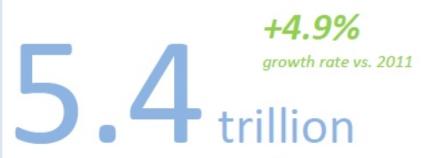
Air Transport Facts & Figures (ICAO)





Traffic Statistics for Revenue Schedule Services

Air Transport Facts & Figures (ICAO) cont



Revenue Passenger-Kilometres in **2012***

-1.1% growth rate vs. 2011 billion

Freight Tonne-Kilometres in **2012***

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)



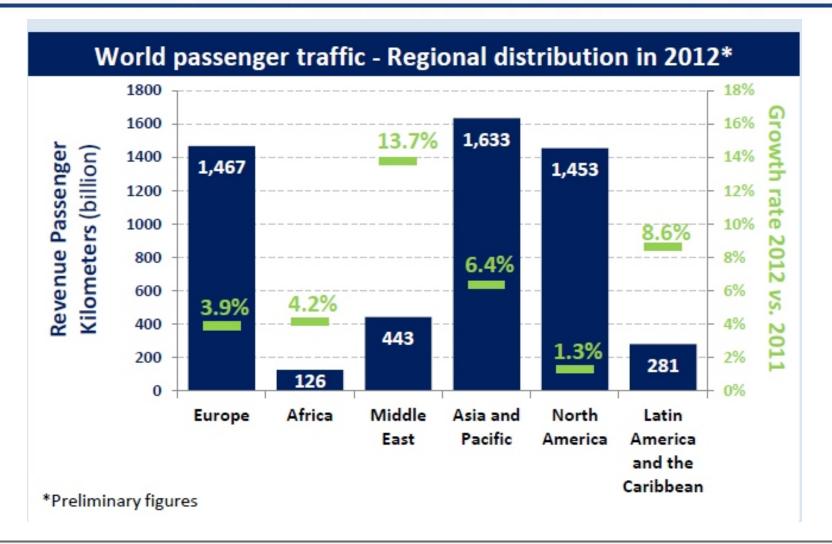
World economic growth vs. air traffic growth (passenger and cargo)

Source: IHS Global Insight, ICAO



Facts & Figures (ICAO) cont.

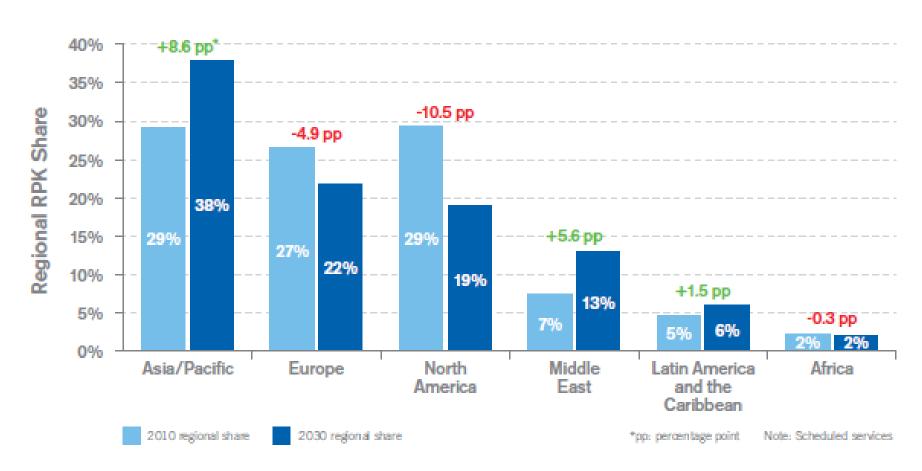




Facts & Figures (ICAO) cont.



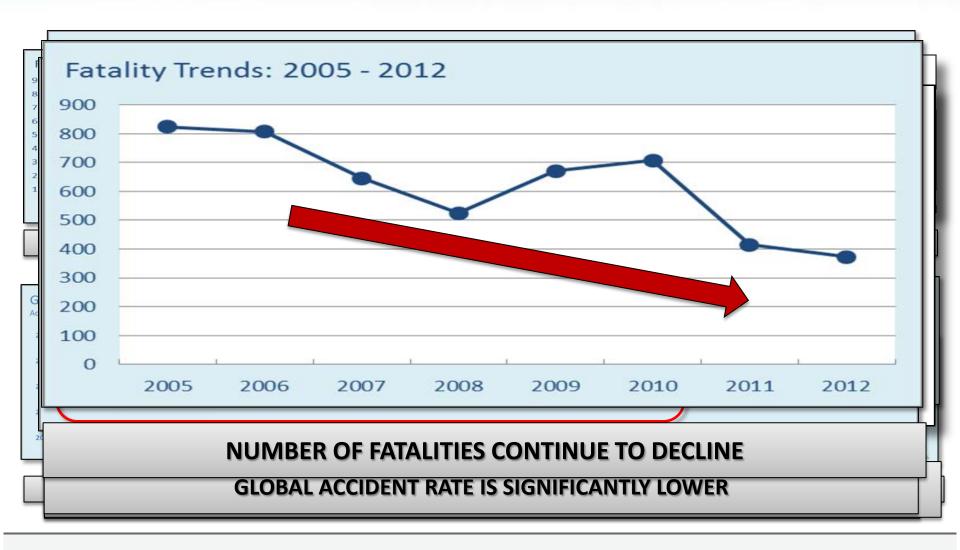
Regional share of passenger traffic by airline of registration: 2030 vs. 2010



Status of Global Aviation Safety



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



Civil Aviation Activities







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

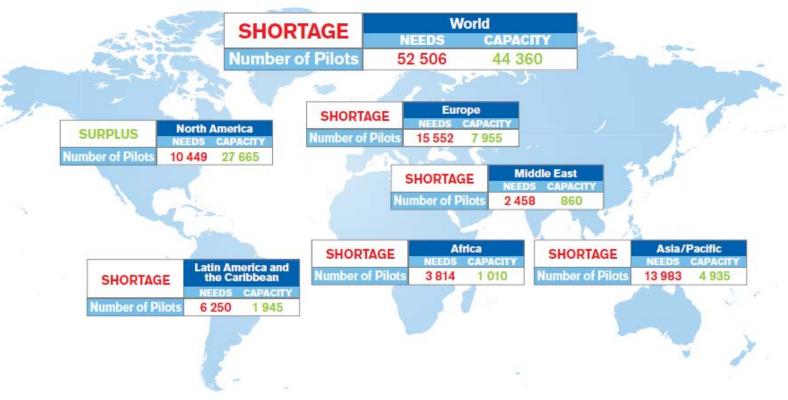


Shortage of skilled aviation personnel



Future pilot needs vs. air training capacities

Source: ICAO Doc 9956



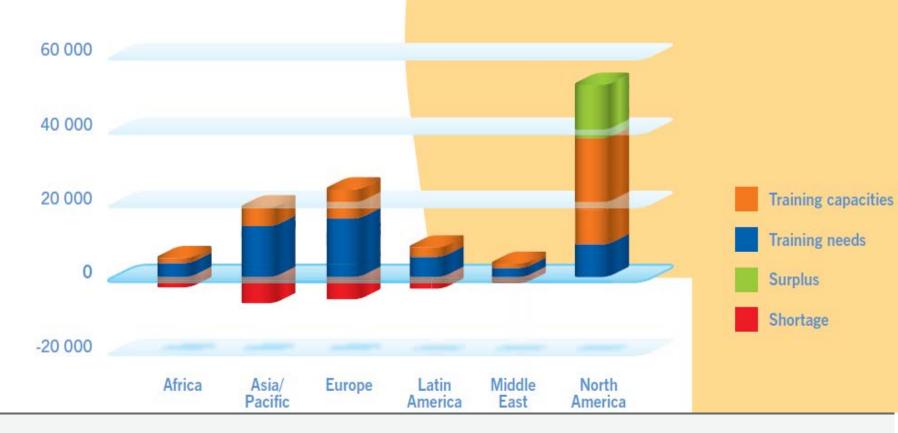
^{*} Estimate of average annual needs for the 2010–2030 period based on various world fleet categories: Regional and business jets, turboprops, single-aisle, twin-aisle and all-cargo aircraft.

Pilots



Most likely scenario

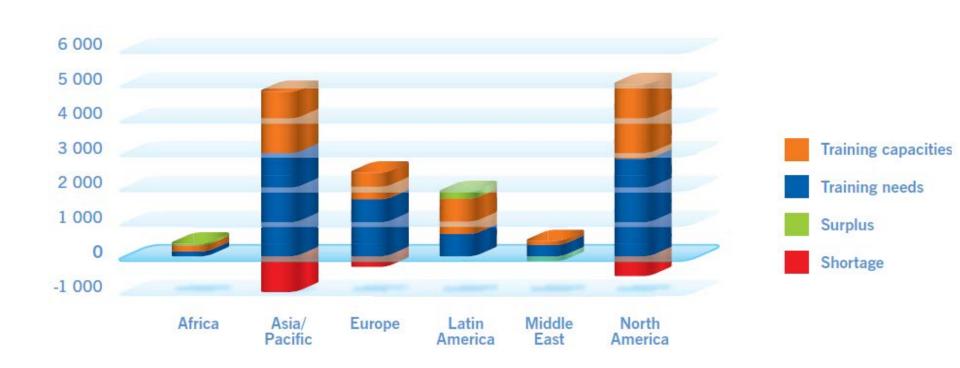
Pilot comparison: 2010-2030



Air Traffic Controllers



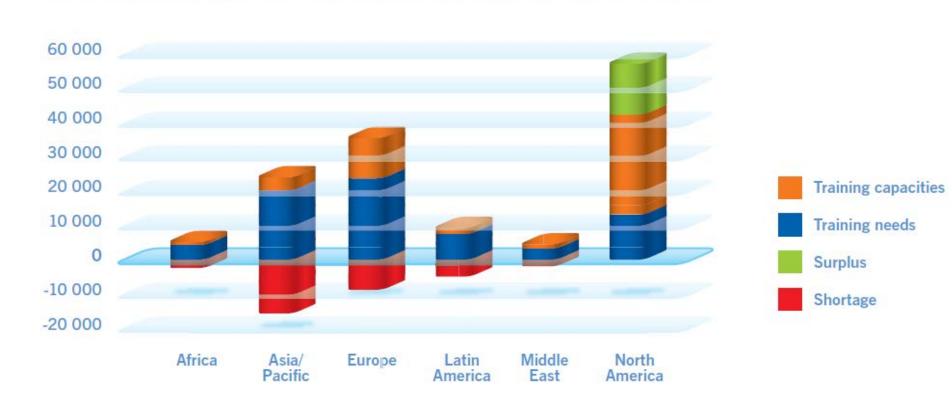
ATCO comparison: 2010-2030



Maintenance Personnel



Maintenance personnel comparison: 2010-2030



ICAO Initiatives









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 competencybased 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



Safety | Security | Environment

Thank you!

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