

Briefing 11 th GHAC

Competency based training and assessment (CBTA)

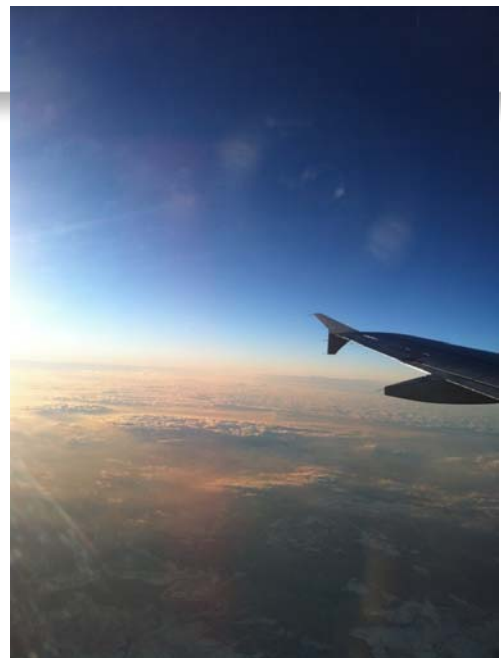
Gerda Pardatscher
Technical Officer
Personnel Licensing

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- **Introduction**
- **What is CBTA ?**
- **Why now ?**
- **What has ICAO done so far ?**
- **Future plans**



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CBTA - Introduction

- **CBTA Challenges in flight crew training**
- **PANS Training**
- **ICAO has implemented the CBTA method for flight crew training**
- **Initial and recurrent training**
- **Challenges of this training and assessment method,**
- **Advantages**
- **Future outlook**

What is CBTA ?

- **Competency based training and assessment**
- versus**
- **Task based training and assessment**



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Why now ?

- New technologies
- New generations of future aviation professionals
- Call for new training methods



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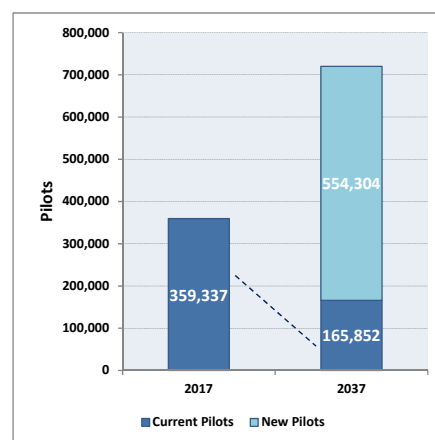
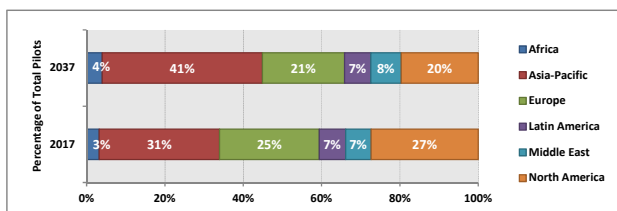
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Commercial Pilot Demand Forecasts

Region	2017 Total	2037 Total	2037 New*
Africa	11,610	28,915	23,457
Asia/Pacific	110,461	294,362	244,975
Europe	91,393	150,926	111,236
Latin America/Caribbean	24,189	48,454	36,374
Middle East	23,374	55,755	44,692
North America	98,310	141,744	93,570
World	359,337	720,156	554,304



New pilots are expected to begin a 3% attrition rate

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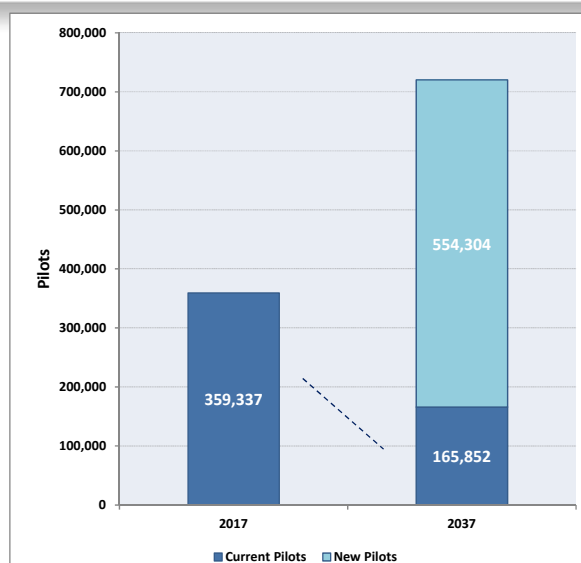
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Commercial Pilot Demand Forecasts



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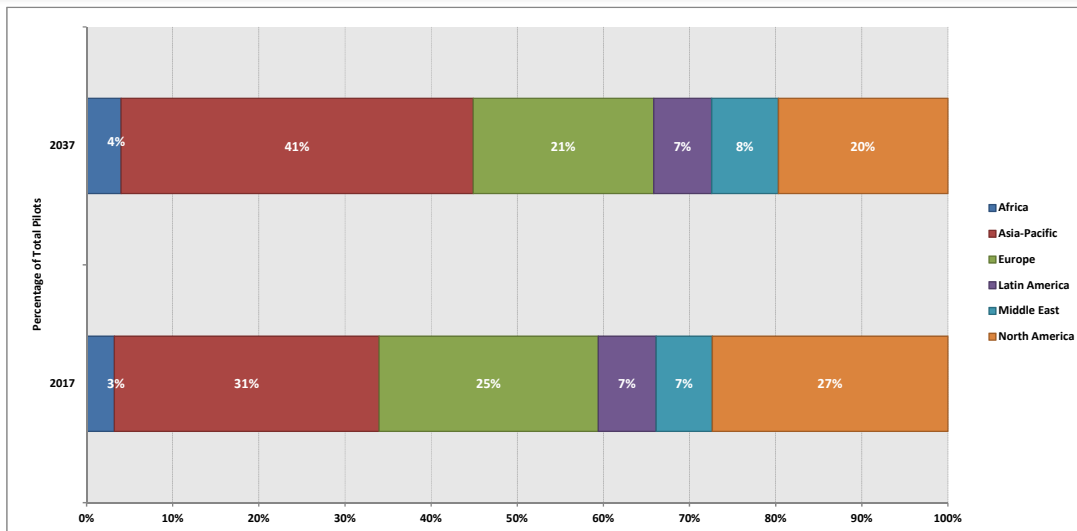
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Commercial Pilot Demand Forecasts



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Commercial Pilot Demand Forecasts

Top 10 Countries Driving the Growth in Demand for new Pilots

Country	Flag	Rank 2017	Pilots 2017	% of World 2017	Rank 2037	Pilots 2037	% of World 2037	Demand for new Pilots* 2037
China		2	41,979	12.2%	1	115,876	16.7%	98,005
United States		1	81,366	23.6%	2	115,023	16.5%	74,811
India		8	9,346	2.7%	3	35,701	5.1%	31,849
United Kingdom		3	12,387	3.6%	4	22,600	3.2%	17,058
United Arab Emirates		9	9,330	2.7%	5	20,467	2.9%	16,031
Australia		13	7,711	2.2%	6	18,552	2.7%	14,827
Canada		5	10,285	3%	7	18,234	2.6%	13,176
Japan		4	10,745	3.1%	8	17,558	2.5%	12,403
France		10	9,329	2.7%	9	15,708	2.3%	11,445
Germany		7	9,485	2.8%	10	14,944	2.1%	10,635

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CBTA – What has ICAO done so far ?

- These figures did not appear from one day to another
- What to do?
- Where is the



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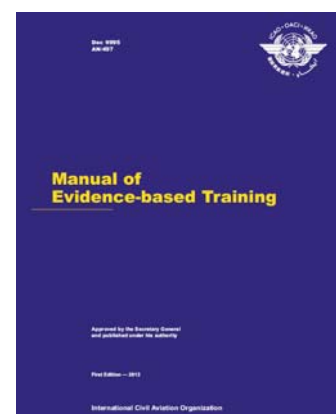


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CBTA – What has ICAO done so far ?

- MPL
- EBT
- RPAS



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Total system approach

- Performance based regulation
- Approved training
- Safety Management System
 - Organization
 - State

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How to make SMS a success:



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CBTA – ICAO FUTURE PLANS

- **CBTA TF**
- **Extension to all licences**



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Questions / Comments:

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The other speakers of the panel

- Roger Crosthwaite, CASA
- Carl Haslem, IATA
- Wayne Morgan, FTE Jerez
- Ole Fisker, Voyageur







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Mexico City
- South American (SAM) Office
Lima
- ICAO Headquarters
Montréal
- Western and Central African (WACAF) Office
Dakar
- European and North Atlantic (EUR/NAT) Office
Paris
- Middle East (MID) Office
Cairo
- Eastern and Southern African (ESAF) Office
Nairobi
- Asia and Pacific (APAC) Sub-office
Beijing
- Asia and Pacific (APAC) Office
Bangkok

THANK YOU

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