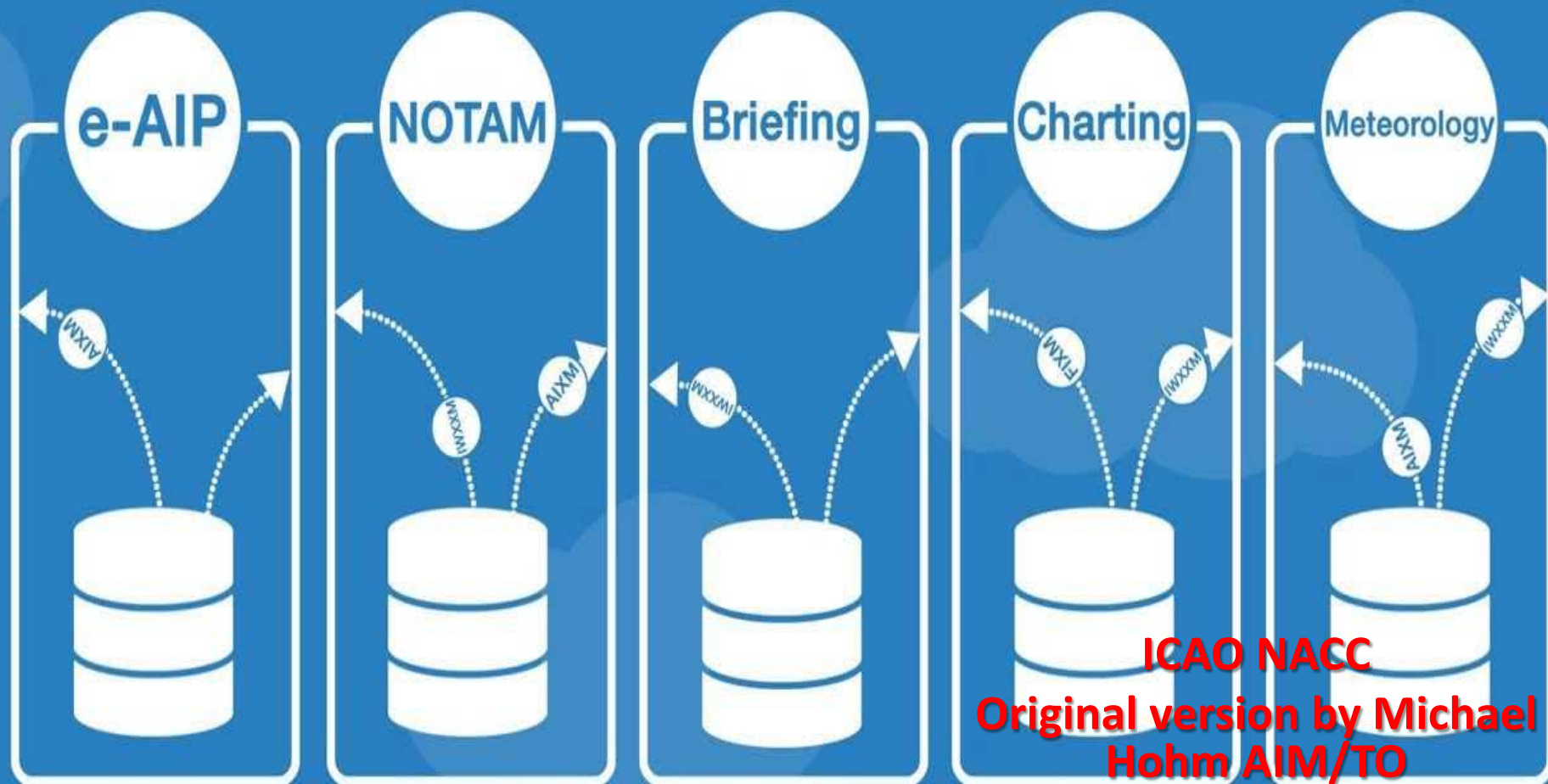




# Global AIM Training



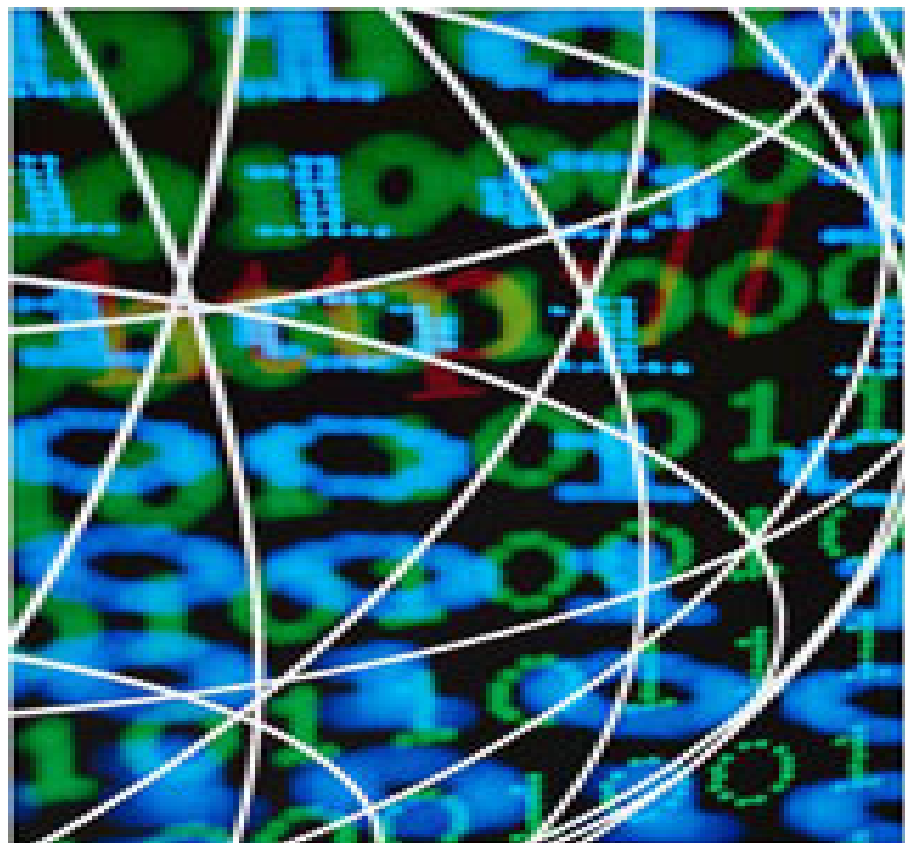
**ICAO NACC**  
**Original version by Michael**  
**Hohm AIM/TO**

**Tegucigalpa, Honduras, 2017**



# The Next Generation of Aviation Professionals

- Pilots
- Controllers
- Aircraft maintenance
- Other specialists
- AIM?





# ICAO Forecast - Pilots

## Most likely scenario

Pilot populations and associated training needs: 2010–2030

	Annual (Attrition: 4% per annum)			
	Pilots needed: 2030	Training needs	Training capacity	Shortage/surplus
Africa	55 932	3 814	1 010	-2 804
Asia/Pacific	229 676	13 983	4 935	-9 048
Europe	262 329	15 552	7 955	-7 597
Latin America	101 301	6 250	1 945	-4 305
Middle East	39 246	2 458	860	-1 598
North America	292 314	10 449	27 655	17 206
World	980 799	52 506	44 360	-8 146



# ICAO Forecast – Air Traffic Control

## Air traffic controller populations and associated training needs: 2010–2030

	Movements: 2030	ATCOs: 2030	Annual (Attrition: 5% per annum)		
			Training needs	Training capacity	Shortage/surplus
Africa	1 059 000	2 863	169	210	41
Asia/Pacific	16 379 000	44 282	2 931	1 865	-1 066
Europe	12 064 000	32 616	1 755	1 440	-315
Latin America	4 005 000	10 828	750	935	185
Middle East	1 507 000	4 074	253	90	-163
North America	16 694 000	45 133	2 860	2 200	-660
World	51 708 000	139 796	8 718	6 740	-1 978



# ICAO Forecast - Maintenance

## Maintenance personnel populations and associated training needs: 2010–2030

	Maintenance personnel needed: 2030	Annual (Attrition: 5% per annum)		
		Training needs	Training capacity	Shortage/surplus
Africa	58 635	3 769	600	-3 169
Asia/Pacific	289 510	19 010	4 265	-14 745
Europe	330 522	22 977	14 625	-8 352
Latin America	101 226	6 881	1 315	-5 566
Middle East	59 905	4 107	2 045	-2 062
North America	325 171	13 586	29 410	15 824
World	1 164 969	70 331	52 260	-18 071



# ICAO Forecast – AIM Specialists





## ***Recruitment Demographics – Example Profile Indicators***

- Median age
- Normal education levels
- Access to internet
- Digital skills

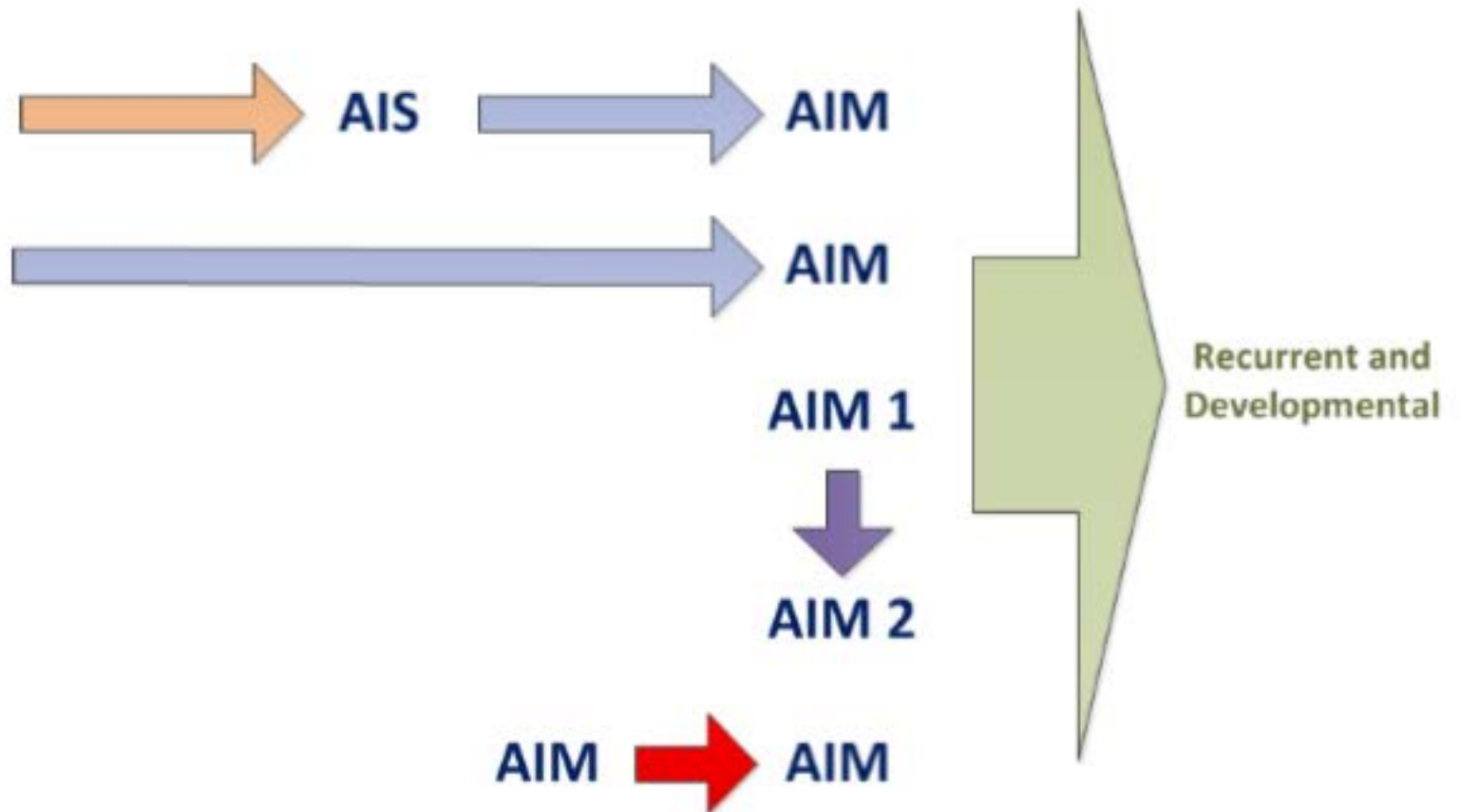
# Staff development model







# Training Scenarios





## ***Competency-based Training and Assessment***

Training and assessment that are characterized by a performance orientation, emphasis on standards of performance and their measurement, and the development of training to the specified performance standards



# ***Competency***

A combination of skills, knowledge and attitudes required to perform a task to the prescribed standard.

*ICAO Doc 9868 – PANS-Training*

# Differences in Training Approaches





## ***Advantages***

- Focus on the success of each learner
- Learner confidence grows as they master competencies
- Time is used efficiently



# ICAO Competency Frameworks

## *Developed*

- MPL (Doc 9868)
- Aircraft Maintenance Personnel (Doc 9868)
- Flight Procedure Designers (Doc 9906)
- Flight Validation Pilots (Doc 9906)
- Designated Medical Examiners (Doc 8984)

## *Under development*

- EBT (FSTD component of recurrent training )
- Flight Instructors
- Air Traffic Controllers
- Air Traffic Safety Electronics Personnel
- Airport Safety Personnel
- Cabin Crew
- DG State employees, shippers and freight forwarders
- AIM personnel



# ***Competency-based Training Requirements***

- Thorough job/task analysis
- A system-based approach to training programme design & development
- Performance assessment criteria
- Tools



## ***New elements in the manual***

- List of pre-requisites to the AIS Competencies
- Better definition of temporality of aeronautical information:
  - “static information” and “dynamic information” replaced by “base information” and “information messaging”
- Expanded details concerning AIS/AIM Competency





## ***New elements have been introduced in order to...***

- Better incorporate the concept of temporality of information
  - All aeronautical data and information change over time, but to varying degrees in terms of frequency or magnitude
- Identify the pre-requisites for performing specific competencies
- Assist organizations in assessing the AIS personnel and facilitate its effective integration within an AIS organization
- Help identify the initial requirements to ensure an effective performance within an AIS organization
- Better specify the functions associated to the AIS/AIM Competency Units

# Pre-requisites to the AIS Competencies

<b>NEW!</b> Pre-requisites to the AIS Competencies	AIS Competency Framework (main functional areas)
<ul style="list-style-type: none"><li>• Types and characteristics of aeronautical Information</li><li>• Geodesy and Cartography</li><li>• Air Traffic Management and Aeronautical Information Management Concepts</li><li>• ARO and Aeronautical Information functions</li><li>• Technological Requirements</li></ul>	<ul style="list-style-type: none"><li>• Data and Information Management</li><li>• Base Information</li><li>• Information Messaging</li><li>• Additional Products and Services</li><li>• Pre- and Post- Flight Information</li><li>• ARO</li><li>• Business Continuity</li></ul>



## Way forward

- Organizational Development
- Human resource planning
- Competency-based training implementation

