



- ICAO Civil Aviation Training Policy
- GAT Office
- Training Assessment
- Training Development
- → TRAINAIR PLUS Programme
- Global Aviation Training Catalogue
- Agreements with Academic Institutions
- → Aviation Training Intelligence™



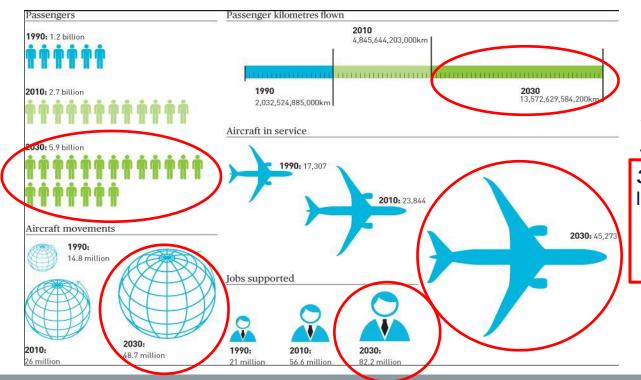


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Aviation industry forecast to 2030



Representing a growth of:

438,356 new passengers / day

3 new aircrafts in service / day

3,110 new aircraft movements/ day

3,507 new supporting jobs/ day Including:

- 103 new pilots / day
- 10 new ATC /day
- 80 new Main. Tech. /day

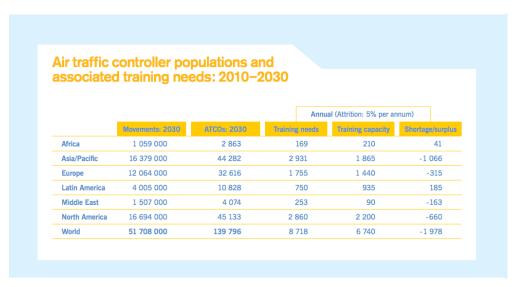






Regional Growth Forecast: 2010-2030

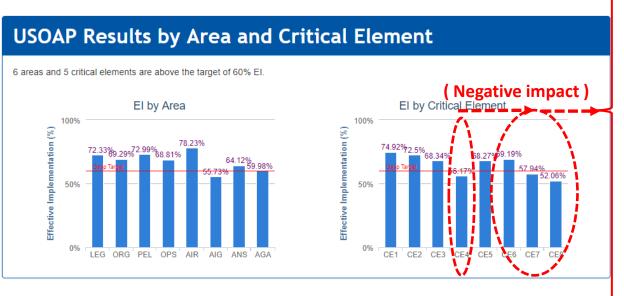
- → Pilots
- Maintenance Personnel
- Air Traffic Controllers



Source: *ICAO Doc 9956 - Global and Regional 20-year Forecasts, Pilots, Maintenance Personnel and Air Traffic Controllers.



Training Deficiencies in ICAO Member States



CE 4: "Technical personnel qualification and training" indicates **56** % of effective implementation

Critical elements that are key State performances for the implementation of a safety oversight system

CE 6: licensing, certification, authorization and approval obligations;

CE 7: surveillance obligations; and

CE 8: the resolution of safety concerns.



ICAO's Response

- ICAO Assembly A38 identifies the scope of ICAO training activities
- ICAO Civil Aviation Training Policy
- Establishment of the Global Aviation Training (GAT)
 Office (1 January 2014)
- → Improvement of the Critical Element (CE 4) "Technical Personnel Qualifications and Training" Results
- The 39th Assembly of ICAO unanimously supported the ICAO civil aviation training programme and capacity-building in aviation.



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Global Aviation Training (GAT) Office

Vision

Lead Human Resources Development in aviation.

Mission

Establish coordinated, effective and efficient mechanisms to support the development of human resources in aviation, appealing to Member States and the industry.

Objectives

- → Facilitate the global implementation of ICAO Provisions;
- → Set up acceptable training and qualifications standards and frameworks;
- → Provide guidance to States and industry in skills development;





















ICAO GAT Office

1 Training
Assessment

² Training Development

3 Training Implementation



Training Organization



ICAO TD Methodology

ICAO Training Catalogue



What do we do?

Training Assessments and Consulting (TAC):

- ✓ Conducts assessments of Training Organizations (TOs) in line with ICAO reference documents
- ✓ Provides support services in Training

Training Design and Development (TDD):

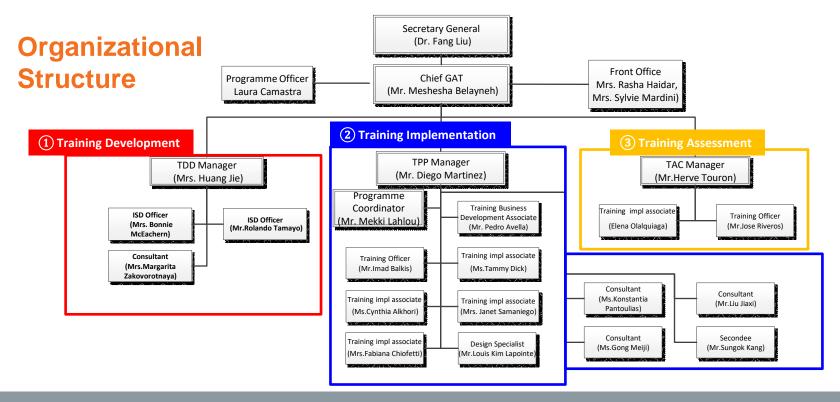
- ✓ Designs and produces ICAO courses
- √ Validates ICAO harmonized training packages

TRAINAIR PLUS (TPP):

- ✓ Manages the network of ICAO Training Partners (Training Centres, International Organizations, Universities)
- ✓ Conducts ICAO courses



ICAO GAT Office





ICAO GAT Office

Regional Focus in Training Implementation & Business Development





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Training Assessments

- → One of the pillars of the ICAO Civil Aviation Training Policy: Recognition of Training Organizations (TO)
- Baseline:
 - Appendix 2 of Annex 1
 - •Manual on the Approval of Training Organizations (ICAO Doc. 9841)
 - •TRAINAIR PLUS Training Development Guide Competency-based Training Methodology (ICAO Doc. 9941)
- Objectives:
 - •Identifying critical areas requiring improvements
 - •Helping TOs to justify additional funding to acquire additional resources and equipment
 - •TO meets ICAO requirements before joining TPP
 - •Providing a clear and independent evaluation to management of TOs, CAAs...



Training Re-Assessments

Review of the CAP from previous assessment

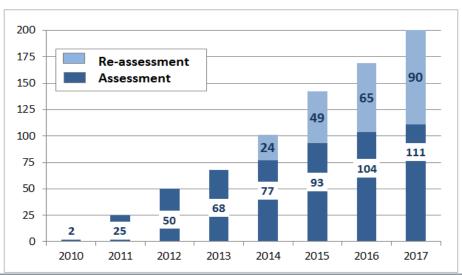
1. Organization	7. Records
2. Training and Procedures Manual	8. Quality System / Post Training Evaluation
3. Training Programmes and Training Delivery	9. Training Management System
4. Training Needs Assessment	10. Safety Management (if applicable)
5. Facilities	11. RTCE Criteria
6. Personnel	





Training Assessments Number of assessments by year

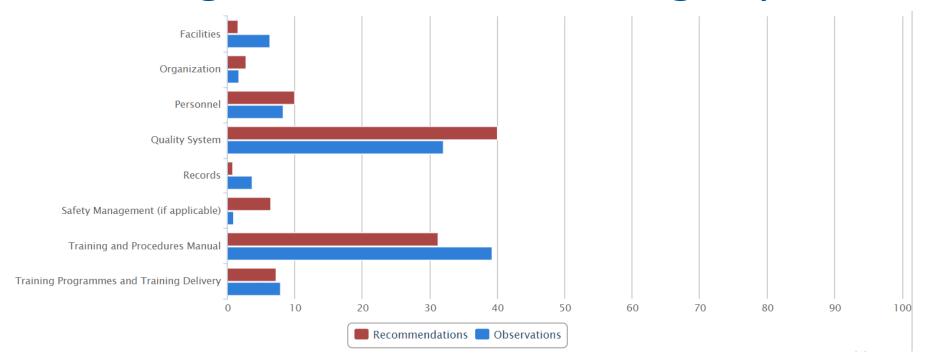
> 201 assessments/reassessments (cumulative) since 2010 (111 assessments and 90 reassessments)







Training Assessments, Findings by Area





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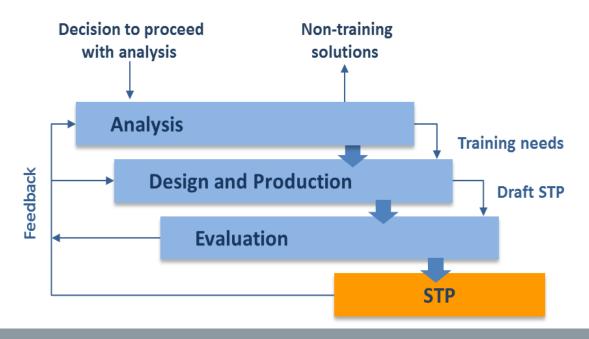
Training Development



- > Training Development Guide, ICAO Doc 9941
- Competency-based training methodology
- Design and develop ICAO Courses
- On-line Job Task Catalogue
- → Qualification of instructors and validators

Providing expertise and support to develop competency-based training

Training Development Competency-based training development methodology



GLOBAL AVIATION TRAINING







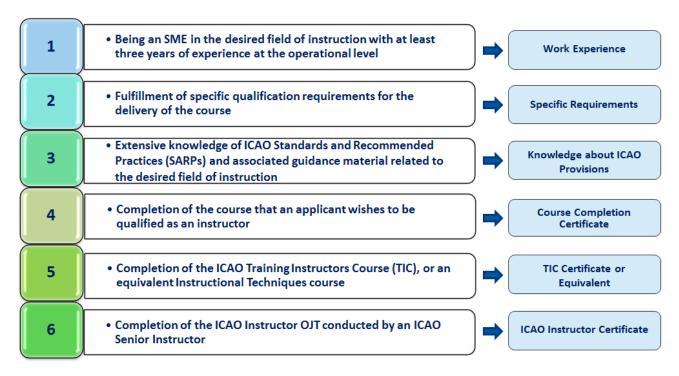


ICAO ISD Validator Qualification Process





ICAO Instructor Qualification Process







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What is the TRAINAIR PLUS Programme (TPP) A cooperative global network of training partners which:

- ✓ Implement a standardized methodology to develop competency-based training courses
- ✓ Share competency-based training packages

✓ Deliver ICAO
Recognized
Training
Packages

Who can join the programme:

- Training arms of CAAs, airlines, airports, and maintenance organizations;
- Private training organizations recognized by the State where they are located;
- Training centres involved in any specialized aviation-related safety training







TRAINAIR PLUS Membership benefits

Associate Members

- Full Members
- → Regional Training Centres of Excellence (RTCE)

Corporate Partners









- ICAO recognition
- Deliver ICAO courses

- All above
- Develop STPs and generate revenues from STP sales
- All above
- Develop and deliver RTCE ITPs
- Regional training implementation
- Develop and deliver Partnership Training Packages (PTPs)



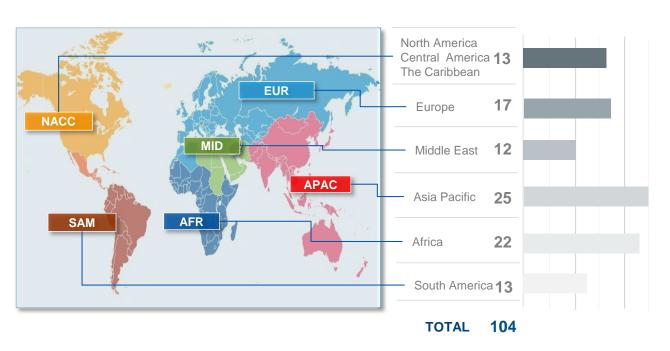
Associate 37

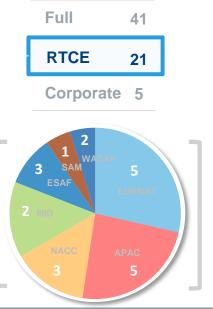


Membership Regional Distribution

ICAO

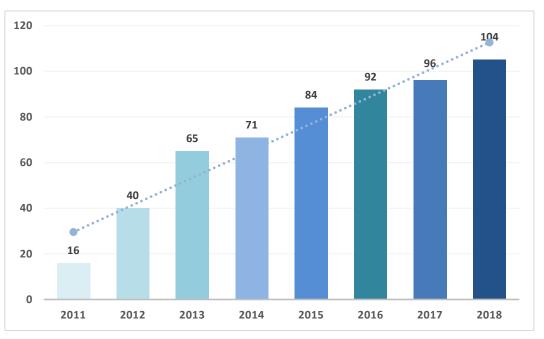
Membership Category







Cumulative TRAINAIR PLUS Members per year





TRAINAIR PLUS Electronic Management System (TPeMS)

Integrated processes and procedures for:

Membership application Process

Development of ICAO harmonized training packages

- Hosting of ICAO courses
- Training package library + exchange
- Production of certificates
- Rosters of qualified experts
- Trainee questionnaires
- Online registrations



Post Training Evaluation Process



Members exchanging STPs













K.....







GLOBAL AVIATION TRAINING

TRAINAIR PLUS™

- Electronic Bulletin
- Course Catalogue
- ICAO Website
- Newsletter
- Social Media
- Training Report

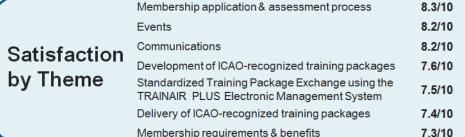




ICAO Training Implementation

Customer Satisfaction Survey on GAT Activities Results TPP Members









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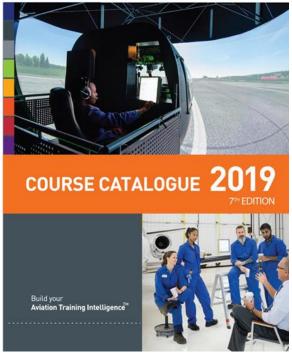


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Global Aviation Training Catalogue

- More than 200 ICAO recognized courses;
- → 54 of which were implemented in 2018;
- Classroom, online and blended formats;
- Technical, management and academic levels;



ICAO Training Portfolio (Searching)



https://www.icao.int/Training/Pages/default.aspx

raining Ar	ea Aerodromes	~	Language	Show All 🗸	
_evel	Show All	~	Delivery	Show All	
Keyword			Region	Show All	
☐ Show on	ly training courses with scheduled sessions.				
Show co	urses with group pricing structure for Civil Aviation regulatory		Search	Reset	
howing 1 t	o 48 of 48 entries				
Details	Course Title	▲ Lang	guage 🛊	Duration - week(s)	
0	Aerodrome Firefighters Breathing Apparatus Wearer	English		2	
0	Aerodrome Inspection	En	glish	1	
0	Aerodrome Safety Management Incorporating PANS- Aerodromes	En	glish	1	



ICAO Training Portfolio (1)

General

- 1. Fundamentals of the Air Transport

 System
- CAA Senior and Middle Managers
 Training Course: Managing Compliance
 with ICAO SARPs
- International Air Law Course

Safety Audit and Inspection

 Universal Safety Oversight Audit Programme Computer-based Training (USOAP CBT)



- 2. ICAO Government Safety Inspector Operations Air Operator Certification Course (GSI-OPS-18700)
- 3. ICAO Government Safety Inspector Personnel Licensing Course (GSI-PEL-18710)
- 4. ICAO Government Safety Inspector Airworthiness Air Operator and Approved Maintenance Organization Certification

Economics

- 1. Air Transport Forecasting Course
- 2. Air Transport Statistics Course
- 3. Air Transport Economics and Regulation course

Training Competency Development

- 1. Validating Competency-based Training (VCT) EN/SP
- 2. Post-Training Evaluation (PTE) Course EN/SP
- 3. Post-Training Evaluation (PTE) On site OJT
- 4. Managing Aviation Training Intelligence (MATI) EN
- 5. Training Developers Course (TDC) EN/ SP
- 6. Training Instructors Course (TIC) Part 1



- 7. Training Instructors Course (TIC) Part 2 EN/SP
- 8. Training Managers Course (TMC) EN/SP
- 9. Training Needs Analysis (TNA) OJT



ICAO Training Portfolio (2)

SMS

- 1. Safety Management for Practitioners (SMxP)
- 2. Aerodrome Safety Management **Incorporating PANS-Aerodromes**
- 3. Online Safety Management Training Course



Aerodrome

- 1. Management Certificate in Civil Aviation
- 2. Wildlife & Habitat Management at Aerodromes
 - Control & Reduction (Part One)
- 3. ICAO-ACI Management of Airport Security
- 4. ICAO-ACI Aerodrome Certification Course
- 5. ICAO-ACI Course in Airport User Charges

Personnel Licensing

Personnel Licensing (PEL) System (Part 1) (Flearning



Personnel Licensing (PEL) System (Part 2)

ANS-PBN

- 1. Performance-Based Navigation (PBN) Operations
- 2. Performance-Based Navigation (PBN) Airspace Design Performance-Based Navigation (PBN) Overview Course
- 3. Performance-Based Navigation (PBN) for Pilots Course

Others

- 1. Dangerous Goods Part 1 Using the Technical Instructions for the Safe Transport of Dangerous Goods by Air
- Control of the Authenticity and Validity of Travel Documents at Airport Borders - Level 1
- 3. ECCAIRS European Co-ordination Centre for Accident and Incident Reporting Systems (ECCAIRS) Technical Course
- 4. ECCAIRS European Co-ordination Centre for Accident and Incident Reporting Systems (ECCAIRS) End User Course

Training Competency Development Courses



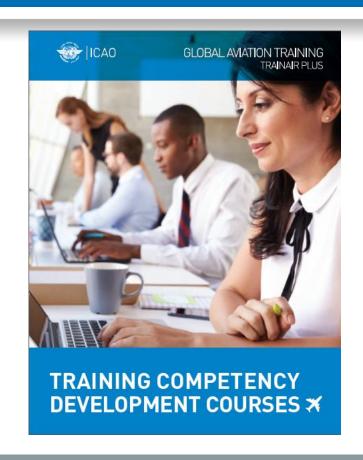
Training Developers Courses (TDC)



Training Instructors Course (TIC)

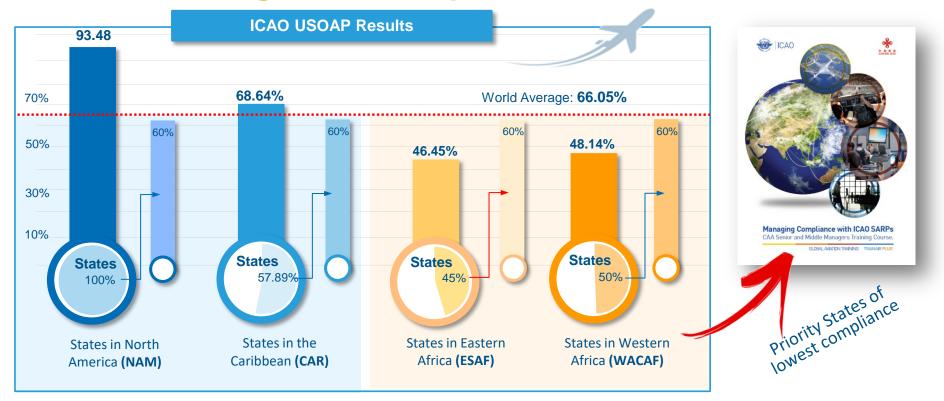


Training Managers Course (TMC)





Challenges in the Implementation of SARPs





CAA Senior and Middle Managers Training Course (CAA SMMTC)

Course goal

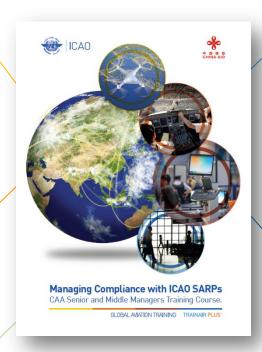
This course aims to enable CAA senior and middle managers to effectively plan, manage and assess the implementation of ICAO SARPs in their States.

Course objectives

- Developing the ICAO SARPs Implementation Plan
- 2. Managing the ICAO SARPs implementation
- 3. Assessing the ICAO SARPs implementation

Target Audiences

Senior and middle managers of State's CAA in charge of SARPs implementation



Course Format

- Mode: Blended (online + classroom)
- Duration: 1 week / 5days
- Language: Spanish, English, French

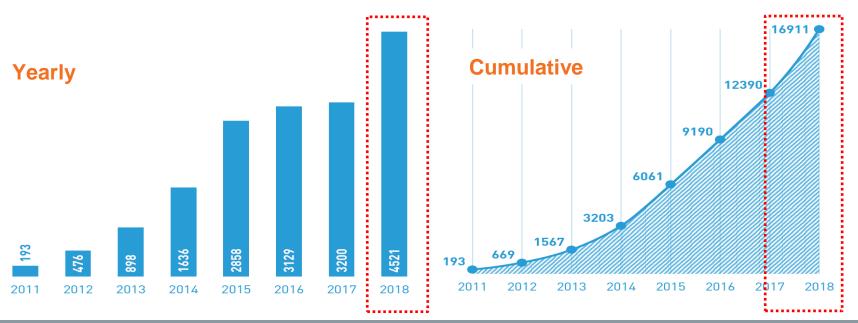
2018 Deliveries

- Deliveries : 21 sessions
- Trainees: 540 audiences from over 90 States and 4 regional safety organizations.

A total of 540 scholarships were awarded.

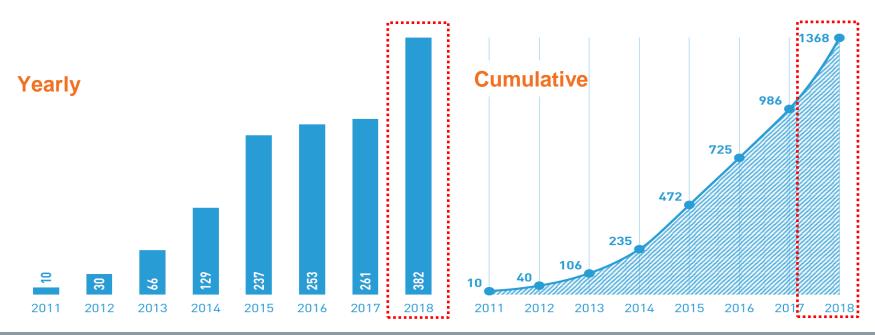


Number of Trainees participated by Year





Number of Courses delivered by Year





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Professional network



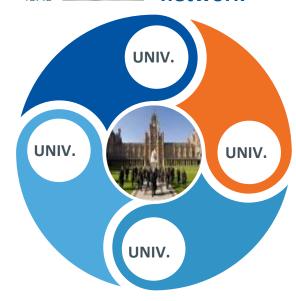


Learning Itineraries Host F-to-F Modules Franchise Model Credits Recognition





Academic network





Cooperation & Partnership





Universities in cooperation

- Concordia University (Canada):
 Management Certificate in Civil Aviation.
- École Nationale de l'Aviation Civile (ENAC France): Masters Degree in Safety Management
- Waterloo University (Canada): Fundamentals of the Air Transport System
- Nanyang Technological University (China):
 ICAO Aviation Data-driven Decision-Making (AD3M)

International Organizations in cooperation

- Airports Council International (ACI):
 Airport Management Professional Accreditation (AMPAP)
- International Federation of Freight Forwarders (FIATA): Dangerous Goods Training Programme
- European Organization for the Safety of Air Navigation (EUROCONTROL): Managing Security in ATM



A Pyour Gateway to Becoming an IAP



Airport Management Professional Accreditation Programme (AMPAP)

Graduate-level Credit



ESC Toulouse Aerospace MBA's "Airport Management"

- The Toulouse Business School provides academic recognition for AMPAP. The four mandatory AMPAP courses are recognized as equivalent to:
 - 20% of the MBA programme.
 - Represents a 28.5% reduction in the AeMBA's tuition fee.



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Aviation Training Intelligence (ATI)



An **integrated information structure** to **collect diverse data** required for conducting up-to-date, needs-based aviation training activities.

A set of tools and methodologies to connect decision-useful information for strategic and operational planning, business implementation, course development and delivery.

A **cooperative** network to **share intelligence** and close training gaps.



Aviation Training Intelligence sources

- Collaboration
- **Industry Events**
- Magazines
- Newspapers...



Data



Systems

- Management Systems
- **Applications**
 - Software....



- **ICAO Database**
- State's Database
- **Industry Database**

Customers Database

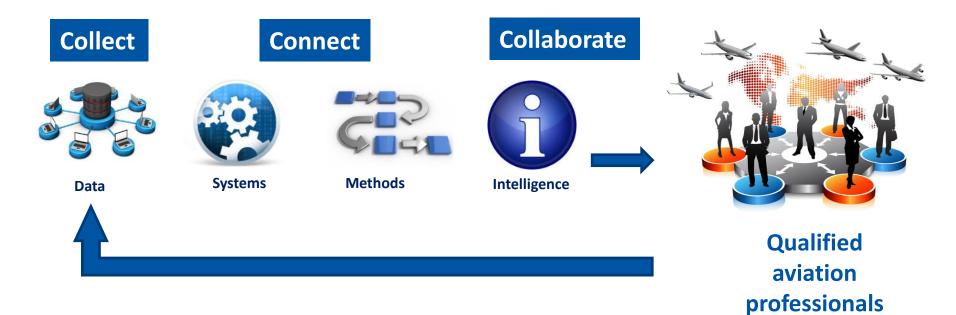


- ISD/TPP
- New training environment
- New technologies
- New training Methods ✓ strategies
 - Evaluation methods...

ICA0

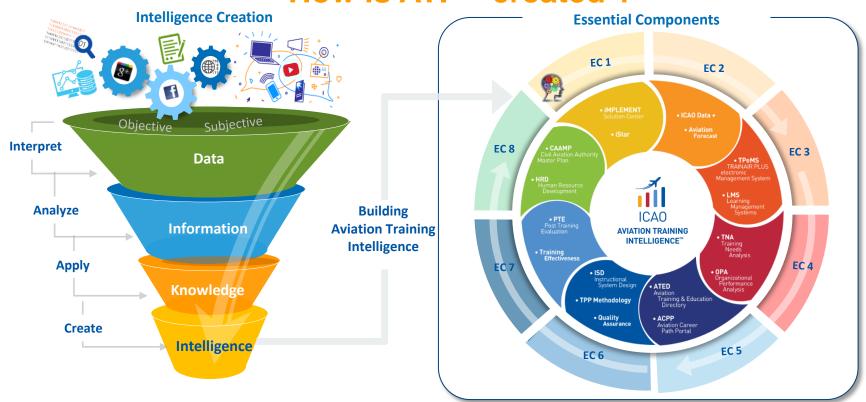


Aviation Training Intelligence sources

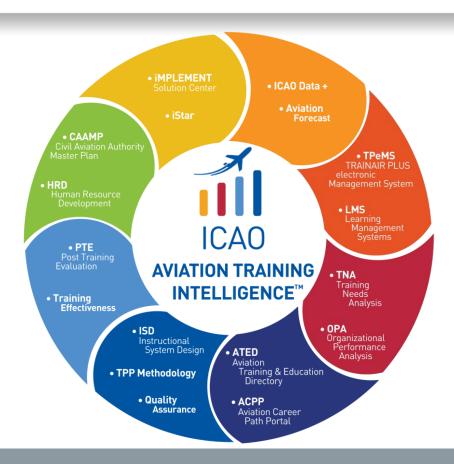




How is ATI ™ created?









Essential Component 1 (EC: 1)



Integrated Safety Trend Analysis and Reporting System (iSTARS)

Collection of **web applications** and data sets that facilitate and assist users in conducting aviation safety, efficiency and risk analyses

Provides a framework for data and intelligence needed for decision-making and the prioritization of ICAO programmes such as the Universal Safety Oversight Audit Programme (USOAP), the Aviation Safety Implementation Assistance Partnership (ASIAP) and Global Aviation Training (GAT).

Integrated Safety Trend Analysis and Reporting System (iSTARS)



Web applications are listed in a **catalogue** and grouped into different categories, depending on what aviation field they relate to.

Main categories:

- -Accident statistics
- -ACE
- -Airlines
- -CAA HR Toolkit
- -Documentation
- -Implement

- -Integrated Analysis
- -Natural Hazards
- -SSP / SMS
- -Traffic
- **-USOAP**



ICAO Training Implementation

ICAO Training Electronic Tools:

iStars Statistics

Each Member State's Records



Training Centre's Performance

Ecole Nationale de l'Aviation Civile (ENAC) RTCE
Governmental Training Organization, Member since August 2014

Courses delivered: 4 Courses developed: 1 Courses under development: 0

Courses Developed:

 Utilisation d'un appareil radioscopique conventionnel en vue de la détection de menaces (132/076/AVSEC X-RAY DET), delivered once en fr on ar es ru

Courses Delivered - Summary:

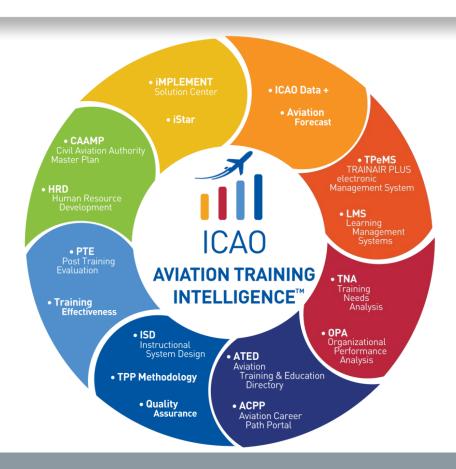
Training Developers Course (TDC), delivered 1 time with 10 participants total

en fr cn ar es ru

- Utilisation d'un appareil radioscopique conventionnel en vue de la détection de menaces, delivered 1 time with 10 participants total
 en fr cn ar es ru
- Cours de Formation Instructeurs, delivered 2 times with 20 participants total
 en fr cn ar es nu

+ Courses Delivered - Detailed (click to expand)







Essential Component 2 (EC: 2)

ICAO DATA +



Tool that presents in a dynamic and graphical environment the air transport statistic data collected from its 192 Member States.

Provide accurate, reliable and consistent aviation data so that States, international organizations, aviation industry, and other stakeholders can:

- make better projections;
- control costs and risks;
- improve business valuations; and
- benchmark performance.





ICAO DATA +

Includes the following apps:



Air Carrier Traffic



Covers monthly or annual traffic of aircraft movements, number of passengers embarked and disembarked and tons of freight and mail loaded and unloaded.

Traffic by Flight Stage



Covers annual traffic on-board aircraft of international scheduled services

Air Carrier Finances



Shows international scheduled airlines financial data, including revenues and expenditures for the year (calendar or fiscal) well as summary traffic data.

Airport Traffic



Covers monthly or annual traffic data for major international airports.

On Flight Origin and Destination



Shows on an aggregate basis the number of passengers, freight and mail tonnes carried between all international city-pairs on scheduled services

Air Carrier Personnel



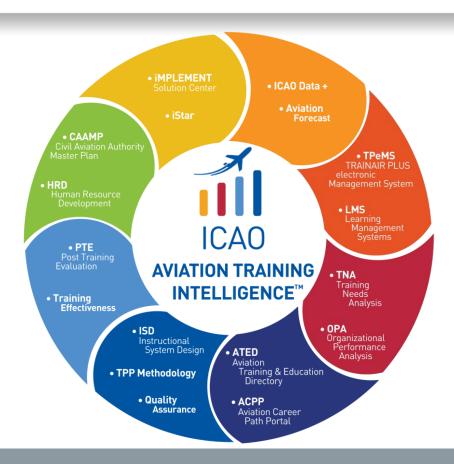
It deals with the personnel data of airlines. The data consist of statistics on the number of airline personnel by job category and the annual expenditures for these personnel.

Air Carrier Fleet



It covers the fleet data of airlines. The data consist of statistics on the number and types of aircraft operated, their capacity and their utilization







Essential Component 3 (EC: 3)

Trainee perspective

TRAINAIR PLUS electronic Management System (TPeMS)

- Learning Management
 - Virtual Classroom/Mobile Learning
 - Embedded e-learning and blended learning
 - Track On-the-Job Training

- Competency Management
 - Job Analysis
 - Job Catalogue
 - Training Management
 - Training Content
 - Training Delivery
 - Training Evaluation (Level 1, 2 and 3)

- Training Development Management
 - Methodology Validation
 - Content Validation



- HRD Expert Management
 - Instructional System Designer (ISD)
 - Training Validator
 - Instructor
 - Training Centre Assessor

- Informal Collaborative Learning
 - Communities of Practice (CoPs)
 - Testing (Level 2)
 - Social learning
 - Learning using "Serious games"

- Communication and Reporting
 - Networking
 - Statistics and Report
 - Surveys and Polls

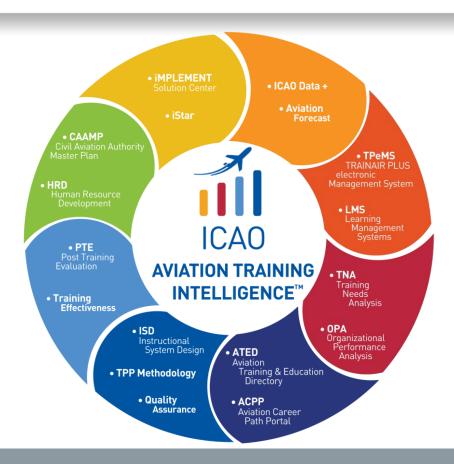
- Training Centre Management
 - Assessment
 - Membership (Associate/Full/RTCE)



Learning Management System (LMS)

Administrative perspective





GLOBAL AVIATION TRAINING

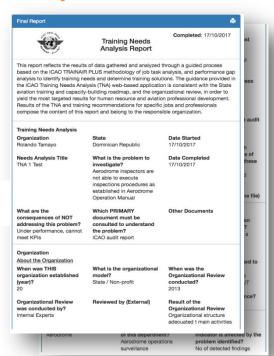


Essential Component 4 (EC: 4)





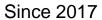


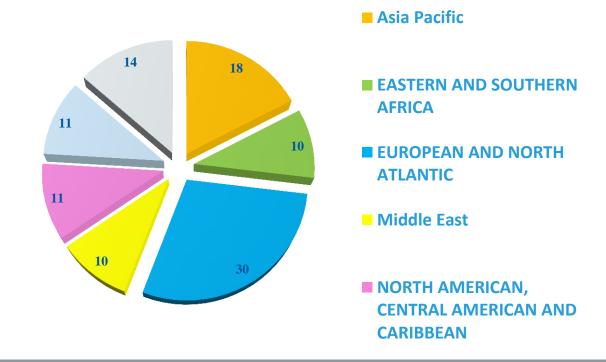


TNA



Regional TNA Accounts – PHASE 1







TNA - Phase 2 - 2019

- ✓ Dynamic data management
- ✓ Links to ICAO or external information systems hosting regional or national data on air transport growth and HR needs
- ✓ Links to data and results of Universal Security Audit Programme (USAP), USOAP Continuous Monitoring Approach (CMA), and the Monitoring and Assistance Review Board's (MARB) significant safety concerns (SSCs) and significant security concerns (SSeCs)
- ✓ Links to data on results of CE4, CE7, CE 8 majority of Sates are below 60%
- ✓ Dynamic link to available training solutions

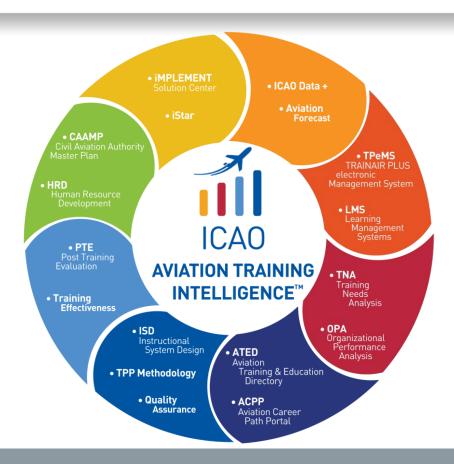


TNA Web-based Tool

◎ ICA	O GLOBAL AV	/IATION TRAININ	G Search	CONFLICT ZONE UPDATES	
About ICAO Globa	Priorities Meetings and events	Information Resources Careers		Subscribe	
ICAO / Global Aviation Train	ng / TNA	·			
Mome About TIA Step 1: Indian Continue a TiA Step 2: Prepare Step 3: Gather Cota Step 4: Analyze Report	Home	(TNA)! It provides aviation	human performance in te on conducting effect organizations working	tive Training Needs Analysis	
	Login			Request an Account	
	User name Password LOGIN Forgot your password? Administration	3 3			
		Share this pa			
Contact ICAO: Headquarters	Regional Offices Careers Terms an	nd Conditions Links Web Support Site Inde	c FAQ	© International Civil Aviation Organization	

About ICAO G	obal Priorities	Meetings and events	Information Resour	ces Careers				Subscribe
ICAO / Global Aviation	raining / TNA /	Account Request						
Home	Acc	ount Request						
About TNA		ount moquoot						
Step 1: Initiate/Conting TNA								
About Training Needs Analysis		ganization Inform panization Name*	ation					
Stating the Problem to Address								
Working with Documer	S Add	fress	City			Country		Postal Code
Step 2: Prepare							•	
Performance Indicator	Wh	at is the organization's purpo	ise?				Indus	stry segment
Employment Categorie	·	gakaaoon a parpe						vary segment
Job Task Analysis								
Step 3: Gather Data	Nur	mber of employees						
Methods for Data Gathering								
Data Analysis								
Step 4: Analyze	Co	ntact Information						
Report	Sal	utation First Name*	Mi	idle Name	L	ast Name *		
	[
	2	sition title						
	Pos	ation title						
	Tele	ephone	Email*					
	Pas	sword*	Confirm Password*					







Essential Component 5 (EC: 5)

Aviation Training & Education Directory (ATED) Aviation Career Path Portal (ACPP) Example: Airworthiness Civil Aviation Safety Inspector **○ Training Centres Education Institutions** CA-CASI (Entry Level) **Accelerated Career Path** 7 years 6 months Stage 2 ICAO **GLOBAL AVIATION TRAINING** 3 years 4 months ↓ TRAINAIR PLUS **CAA Recruitment** (recruitment: 3-6 months) **CA-CASI (Competent)** Stage 3 5years 11 months (1 year 6 months) Industry experience 4 years 2 months Stage 2 (5vears) **Previous CA-CASI Career Path** (Entry Level) (3 years) Expand your reach across the global community Stage 1 of aviation professionals **Aircraft Maintenance** Stage 1 **Training Courses ATO Training Programmes** (1 year 2months) (2years)

GLOBAL AVIATION TRAINING

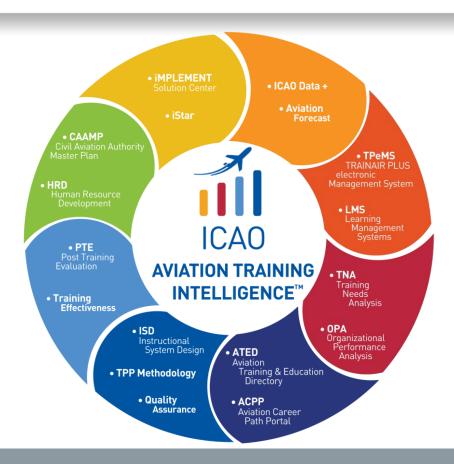
TRAINAIR PLUS™



Aviation Training and Educational Directory



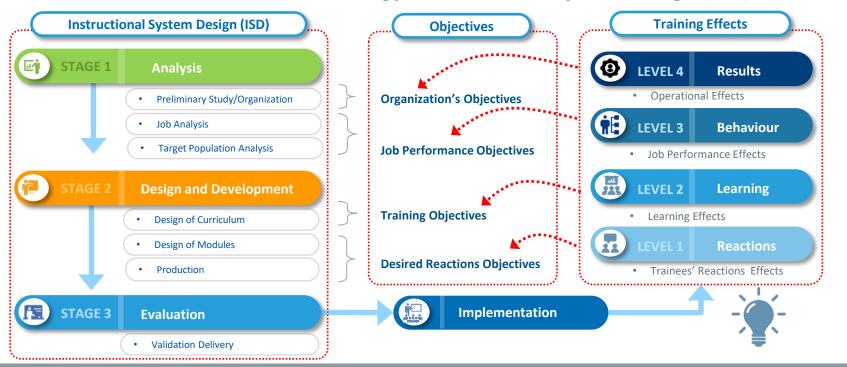




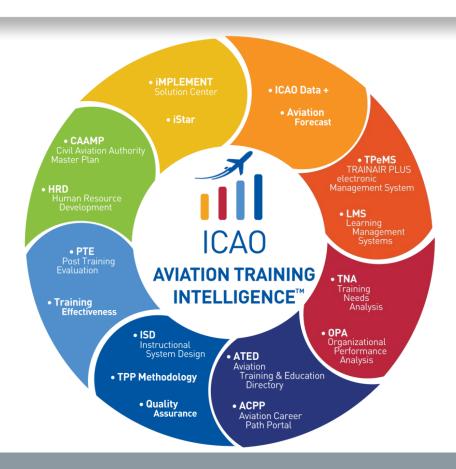


Essential Component 6 (EC: 6)

TRAINAIR PLUS Methodology - Instructional System Design (ISD)









Essential Component 7 (EC: 7) - L3 PTE





Post-training related questions in the workplace ...

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What happened after the course?

Did participants develop and apply the desired competencies?

Was the **trainee's** performance improved?

Was the Organization able to obtain **better results** due to this training?

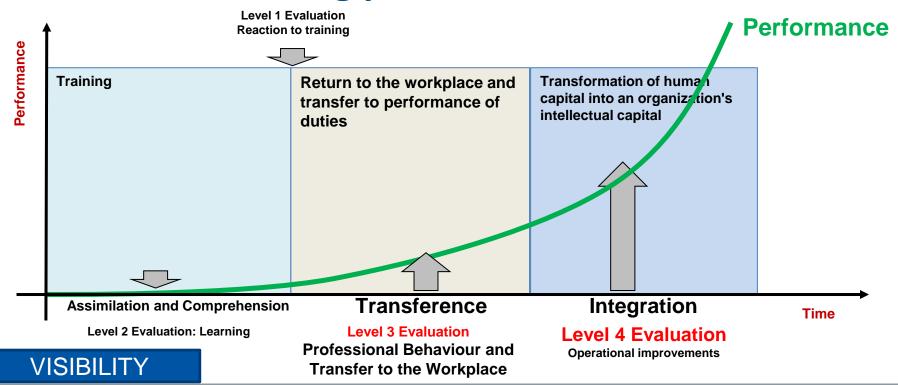


The fundamentals of training effectiveness

- ☐ Training has to provide expected results
- ☐ Evaluating training effectiveness sheds light on four aspects, as follows:
 - → How well the training program met the learner's needs and objectives
 - → What knowledge and skills it has provided to learners
 - → What desirable change has it brought to the learners' performance
 - → What organizational benefits has it yielded



Training performance curve



Automated Training Course Evaluation

Jie (Annie) Huang

Validator | Course Developer | Instructor | Admin Assessor



TRAINAIR

Profile | Feedback | Log Out



Validating Competency-based Training (VCT) 1 Oct - 5 Oct, 2018



- Session Info
- Participants
- Attendance
- Grades
- Evaluation Questionnaires
- Instructor's Remarks
- eReport



VALIDATING COMPETENCY-BASED **TRAINING** ITP/TCD/VCT/004E

Validating Competency-based Training (VCT)

ITP/TCD/VCT/004F

Training Center: Turkish Aviation Academy

Dates: 1 Oct - 5 Oct, 2018 **Total Participants:** 6 Status: Completed

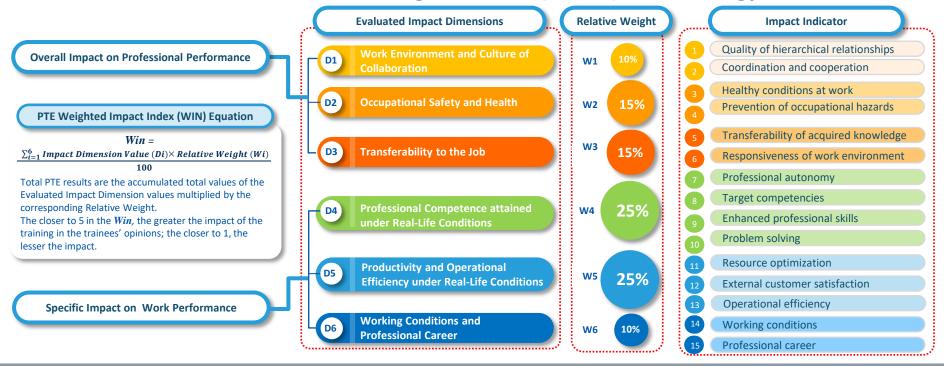
Session Details

The Validating Competency-based Training course will provide training centres with internal validation capabilities for the development and evaluation of competency-based training



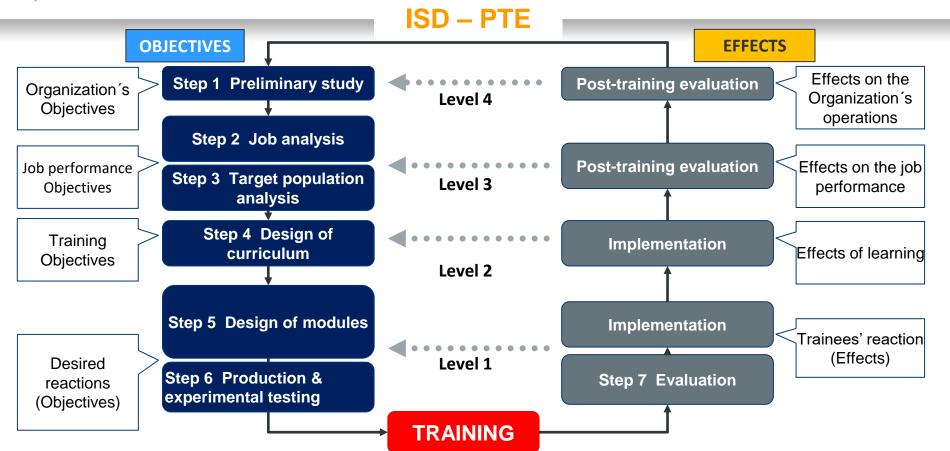
Essential Component 7 (EC: 7)

Level 3 Post Training Evaluation (L3 PTE) Methodology

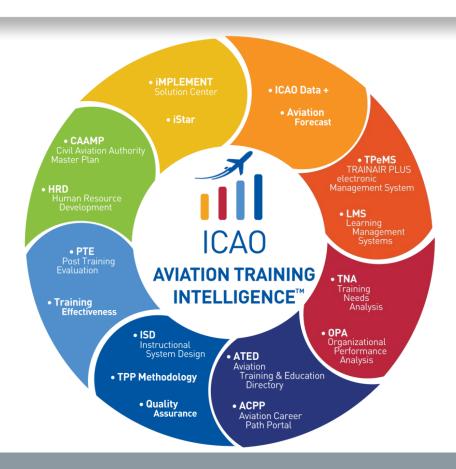




GLOBAL AVIATION TRAINING TRAINAIR PLUS methodological cycle









Essential Component 8 (EC: 8)

Civil Aviation Authority

Strategic document that include the fundamental information about aviation in the State upon which the Roadmap will be developed, such as:



Master Plan (CAAMP)

- a list of existing aviation activities in the State;
- a list of planned activities in short; mid-/long-term;
- existing aviation infrastructure;
- existing aviation service providers;
- planned changes in aviation infrastructure;
- planned changes in the aviation market;
- the institutional system of the State;
- expected changes affecting the institutional system of the State;
- State's aviation strategies;
- State's aviation development plans; and
- State's performance targets (safety, security, environment, state's objectives, etc.).

Aviation Plans (Examples)

ICAO Global Air Navigation Plan 2016-2030 (GANP)

ICAO Doc 10004, Global Aviation Safety Plan 2017-2019 (GASP)

ICAO Global Aviation Security Plan (GASeP)

Regional Air Navigation Plans

National Air Navigation Plans



Human Resources Development

- □ Objectives and challenges:
 - Develop more people to meet specific performance effectively and efficiently
 - Build new competencies for specific performance continuously
 - → Align the HR development strategy with the State's Aviation Master Plan
- ☐ HR strategies and techniques:
 - Competency-based recruitment and training
 - → Training development strategy based on TNA
 - Career development plan

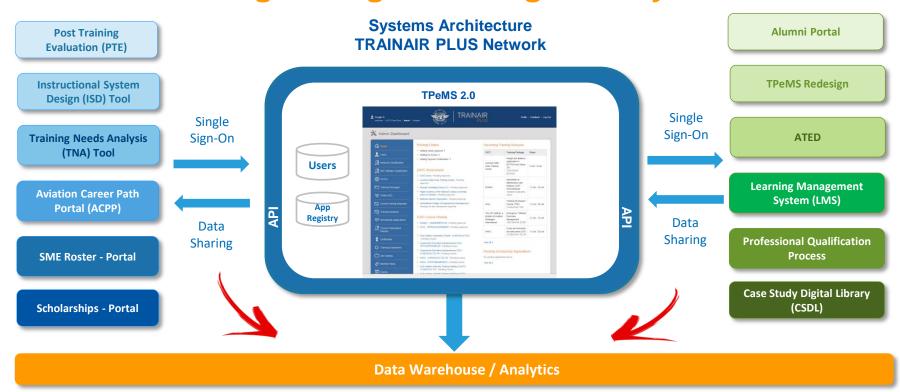


Aviation Training Intelligence™– Benefits

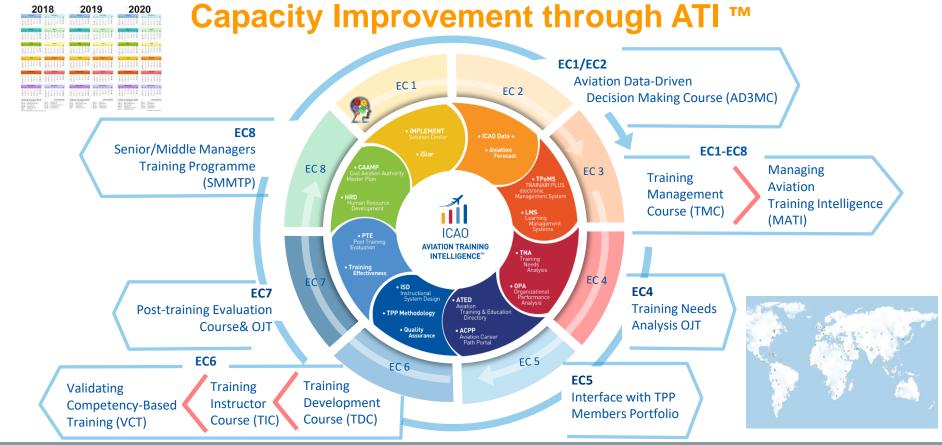
- → Assists executives, managers and other corporate end users to make informed business decisions.
- Improves efficiency.
- → Assists in turning data into actionable information.
- → Allows successful strategical planning, having access to key trends and patterns in data.
- Focuses on areas of training requirements from the aviation industry.
- Reports regarding effectiveness of training solutions.
- → Saves money, leading to a sound ROI.
- → Ensures compliance is aligned in accordance with international requirements and best practices.



Training Intelligence Integrated System









GLOBAL AVIATION TRAINING



