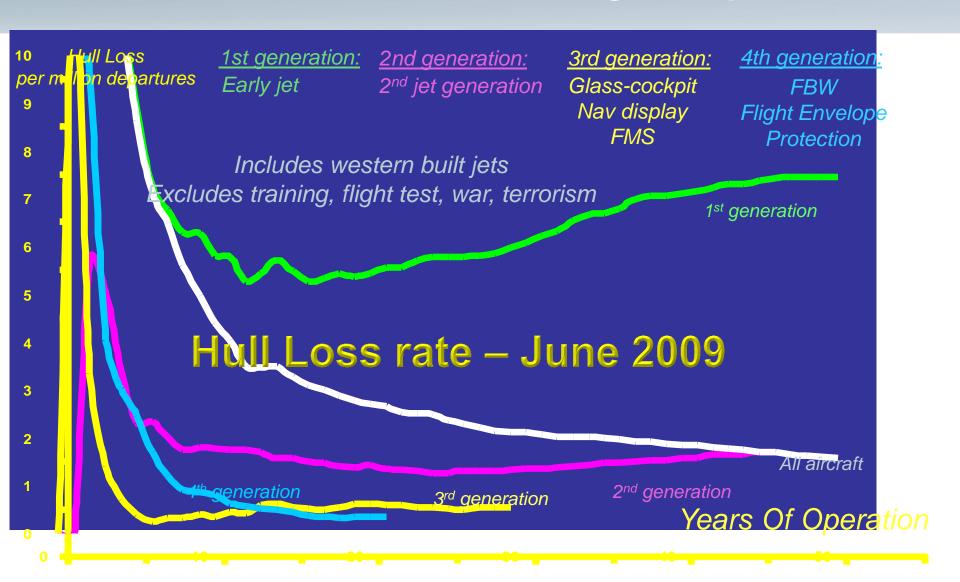
Air France "FORMER UTILE" - ATQP implementation Opportunities and challenges

Michel Lacombe
AF 777 CPT
Training Data Analysis





The generic problem...



ATQP Options



The benefits of ATQP

If adequate - Develop then...
Enhance
CDT, Role Play etc

If inadequate – Train to proficiency
Then Develop..

24/10/2014

Capt D Mason - Emirates CFE

Trainers:

"The ability to fix issue check"

"The ability to

Trainees:

"I felt it was mu partnership"

"For the first time in I I think this will help me on the line, re svant training, the instructor was outstanding"

More heed how of the limbs of t

doing less routine checking and more

The pilots and trainers all like it

- Training proficiency and safety will be improved
- · We're saving money!

ATQP

BRITISH AIRWAYS

Lessons learnt about ATQP

Lessons learnt about ATQP

- Talk to the regulator at a Tarly.
 Keep the programme Using simple objective
 If it needs a February service too complete the programme of the programm

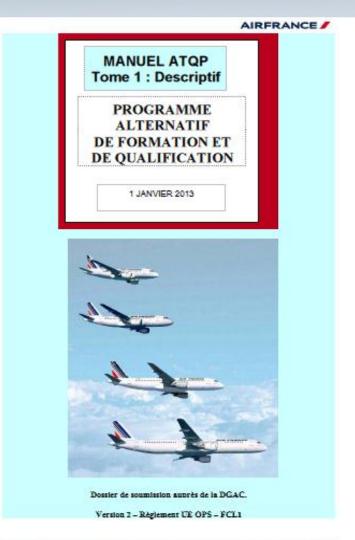
 - rly as they will be
 - ystem changes you'll g the new validity periods

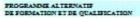




Components of an ATQP

- Task Analysis including Knowledge, Skills and Attitude
- 2. Training need Analysis
- 3. Competencies, method of assessment and Line Oriented Evaluation
- 4. Program for each fleet and instructors
- 5. Data monitoring/analysis program
- 6. Process if proficiency standards are not maintained

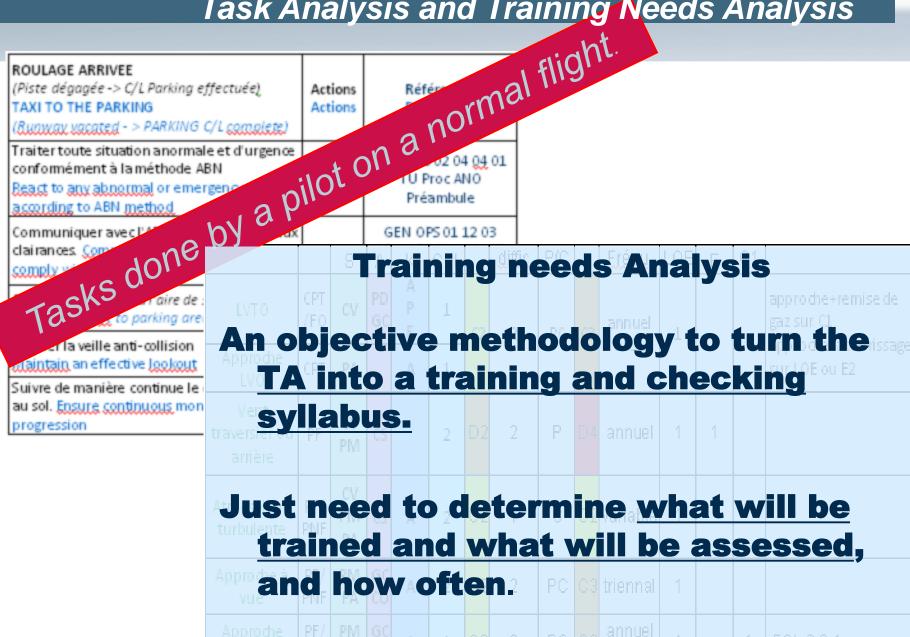






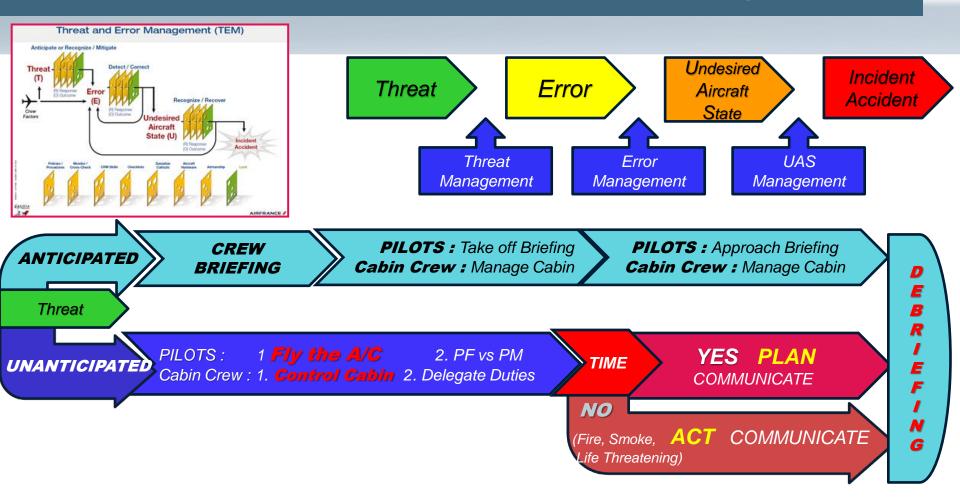


Task Analysis and Training Needs Analysis



DGAC - Symposium-Dece

What do we have to evaluate - Situations



Threats, errors and UAS are every day normal events and crews need to know how to manage them in order to assure aircraft safety.

We can evaluate how our crew manage situations



What do we have to evaluate - Competencies

Characteristics	Competenci	es			R	ema	rks	General viev	W	
		NA	Α	S	S+			Comments		
 Leadership and Work Team Building 				x		1920	호	Good participation	Cruise)	X
Situation Awareness					x	340	바	Always optimum	Х	
Work Load Management				X		Table?	호			
Decision Making				x		320	호			
Communication				X		300	土			
Manual Aircraft Control				x		3000	中			
Automation Aircraft Control				x		340	中			of fl
Application of procedures					x	340	<u>+</u>	Good monitoring of trac (PF and PM) calls out C		
• Knowledge				X		1,000	3		Take-off Climb	
								Cruise		
Competency : A combination of skills,						1		Phases of flight	Арргоасп	
knowledge and a					-				Landing	



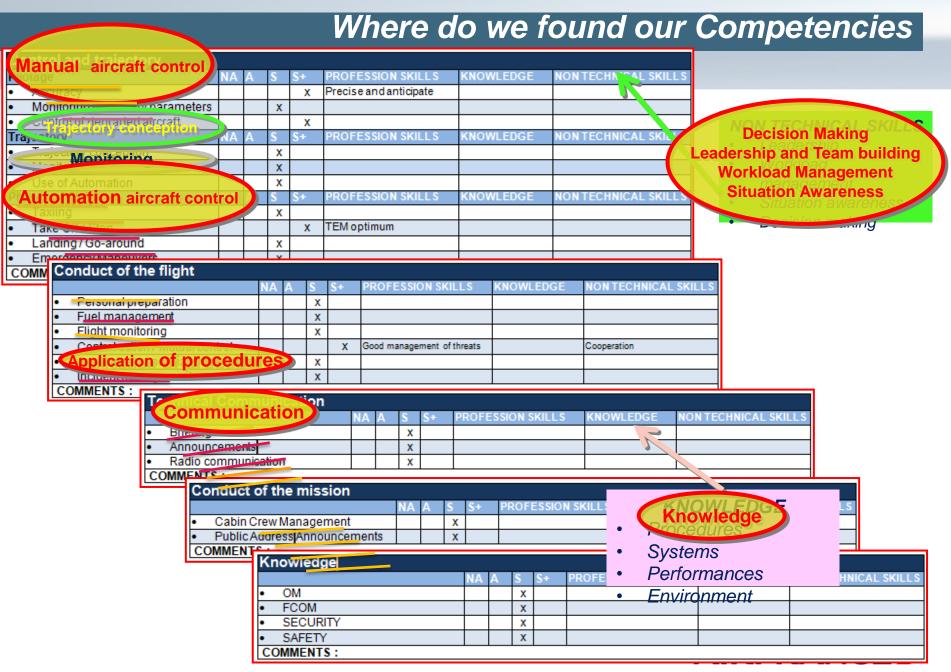
Apron and post flight

Taxi in

Go around

knowledge and attitudes required to perform

a task to a prescribed standard



AF Level of requirement – Grading system

LEVELS OF REQUIREMENTS

UNACCEPTABLE

Flight Safety is engaged

ACCEPTABLE

Flight Safety is ensured

STANDARD

Safety margins are maintained

STANDARD +

Safety margins are enhanced by good practices

SITUATION

Major UAS

- Ignored or abused threat
- Ignored or abused error
- Intentional error
- Minor UAS

- Threat anticipated or recognized and mitigated
- Error detected and corrected
- TEM outstanding performance

COMPETENCIES

- One UNACCEPTABLE
- Too many ACCEPTABLE
- One or more significant ACCEPTABLE
- Occasional ACCEPTABLE or STANDARD + are not significant
- Performance observed always STANDARD or STANDARD +

Adjournment, treatment before return to flight Must take into consideration recommendations to improve the performance

Performance expected and to be maintained

Performance can serve as an example



Implementing a new training system - Trainers

you need to train and standardize the instructors using these techniques



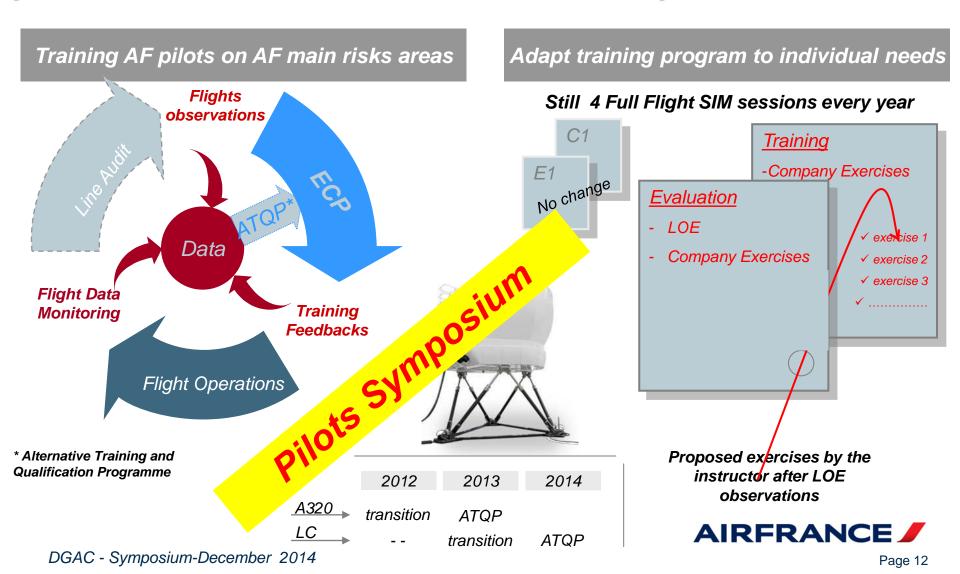




Barbara Holder (Boeing)

Implementing a new training system - Trainees

you need to inform the Line Pilots about this new system



How to measure Pilots proficiency?

From the operational standards using the Flight Data Monitoring and the SMS.

From the ASR - feedbacks - interviews - surveys of trainers and trainees.

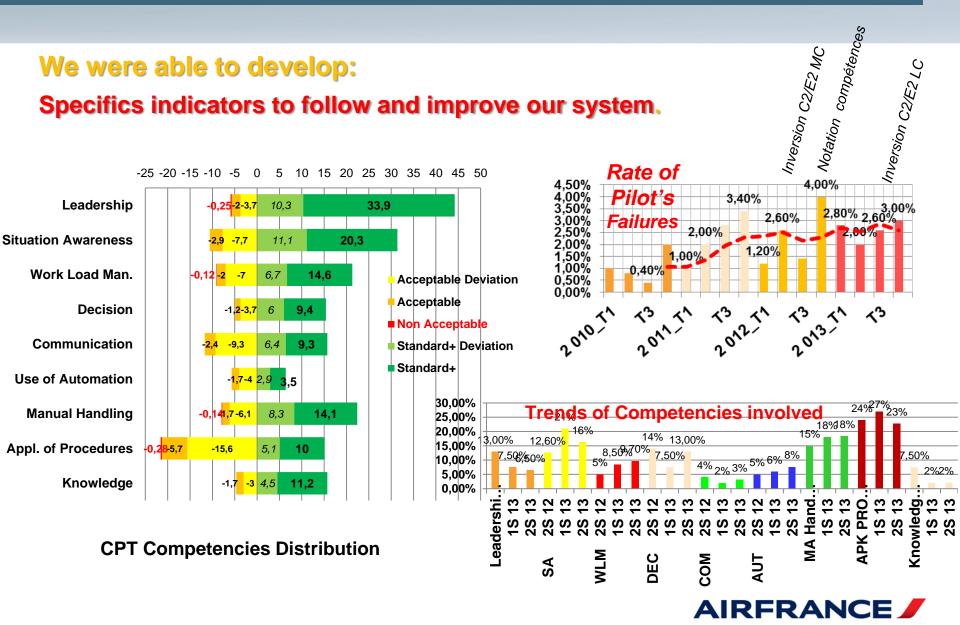
From the training standards using the existing training records.

From the way events are managed.

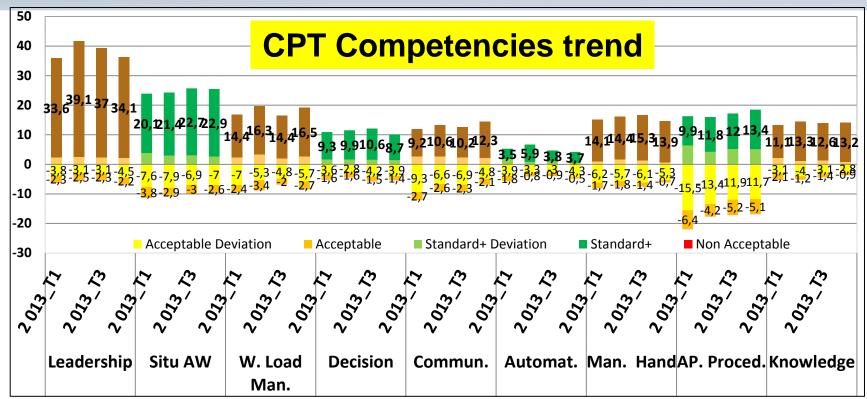
From the way competencies are used to manage events.

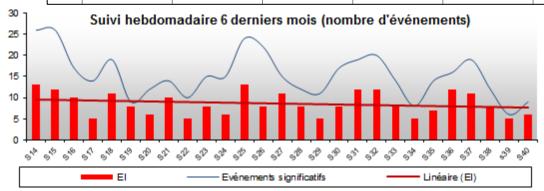


How to measure Pilots proficiency? - Indicators



How to measure Pilots proficiency? - Indicators



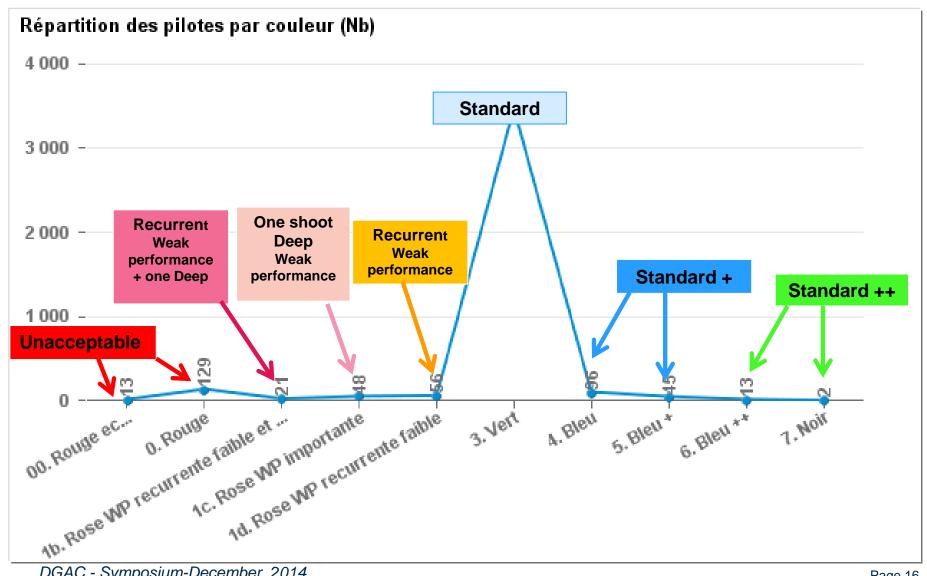


Adverse Events
Monitoring
(SMS/FDM)



Pilots proficiency-Opportunities-Manage Weak Performance

Distribution of pilots on competencies on 2013



To build the LOE



LOE Design

Several scenarios
Evidence Based Training
More focus on normal operations
Working as a crew

AF topics

 LOE scenarios of 4 events created by the trainer on the day from a multi-choice menu.

Preflight / Start Up / Taxi out : Event 1

Take Off / SID / Climb: Event 2

Cruse: Event 3

Descent / Holding

STAR, Approach / Landing: Event 4

Taxi in / Shut down/ Secure

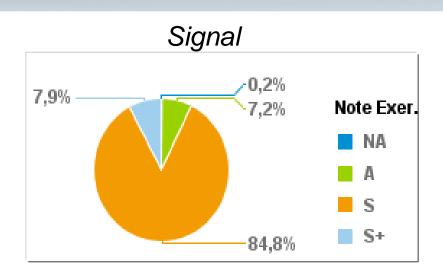
LOE EVENT SAMPLE

DOD DYDING ONE DE							
Event Number 1D							
Event	Electrical Bus Isolation Fault						
Application Fleet	B777						
Event Trigger	After Engineer dispatched						
Event End Point	AC taxies						
Distracters	Heathrow GND (121.90) "Emirates 2, confirm						
	you are pushing back now?"						
Supporting Script/Details	EKIB-8R1 and MEL						
How was the event handled?							
Problem Solving & Decision Making	Did the crew understand the problem?						
Situational Awareness	Were the crew cognisant of environmental						
	influences while dealing with problem?						
Workload Management	Did the crews demonstrate efficient workload						
	management and prioritisation while dealing						
	with the problem?						
Leadership, Teamwork & Support	Did CM2 provide appropriate support to CM1						
	while managing event?						
Communications	Did the crew liaise adequately with Ground						
	Crew, ATC and Cabin Crew?						
Knowledge	Was crew aware of EKIB-8R1?						
Application of <u>Procedures</u>	Did the crew consult the relevant bulletin and						
	carry out the relevant procedures including						
	ECL correctly?						
Use and Management of Autoflight	Not Applicable						
Systems							
Handling	Not Applicable						

ATQP ideas used by other operators:

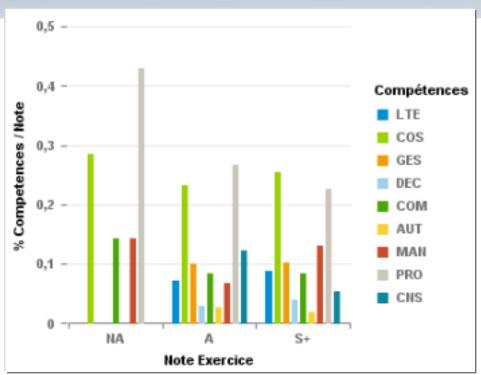
- LOE combined with LPC.
- LOE event defined by SMS/FDM trends.
- Pilots divided into three « tiers » based on training performance.

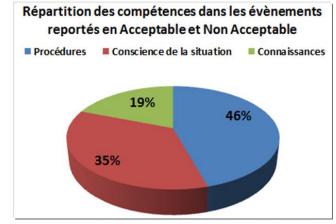
Indicators – F/O contribution in A320 LOE management



Exercices avec le + d'« Acceptable »

Exercice	Тх
ENG STALL en fin de montée	0,31
FCU 1 + 2 FAULT	0,26
SEC 1 FAULT (SEC 3 en tolérance au	0,22
Erroneous RADIO ALT height indicatio	0,18





LOQE



LOQE

Partie 6

iNote Pilot

LOQE

A Goal

 To target an area of the operation underrepresented in the data

A Process

- Structured
- Focused
- Standardized

Management

- How initiated? Who controls?

AIR FRANCE CARGO

- Training

Utilisation du radar :

Les échelles et le tilt sont-ils correctement

AIRFRANCE /

utilisés? A320 :



Croisière

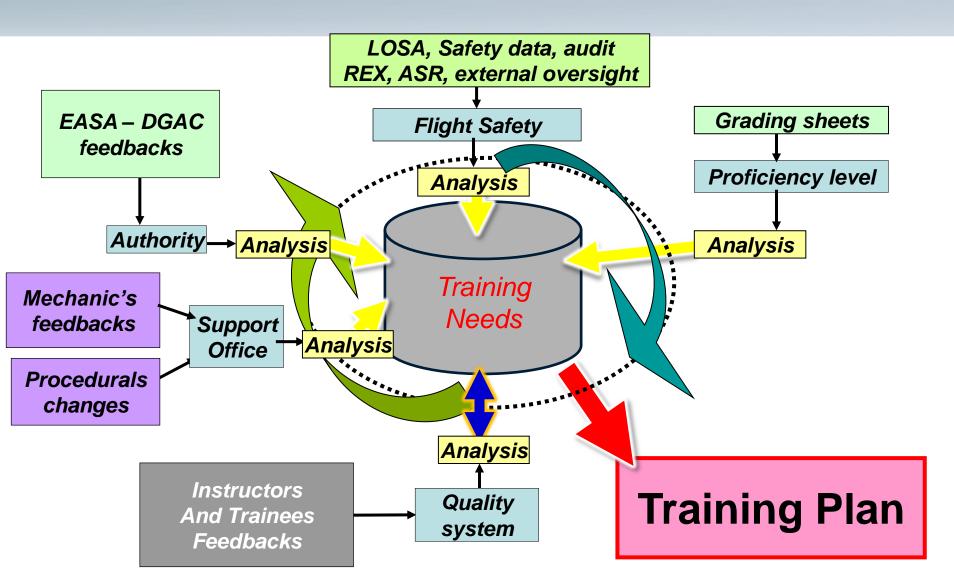
Non Fait
Fait

6.1A
Les radars sont sélectionnés sur les deux ND

Oul
Non

6.1B
Echelles et TILTs sont conformes à la doctrine

ATQP Management System - Training Plan Definition



ATQP Management System – Deficiency management

