

SERVICES

# Airbus Flight Training: **The Importance of Monitoring**



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**AIRBUS**

# What Was I Taught?

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# What Was I Taught?

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“Stay ahead...  
...of your aircraft”

...training golden rule

# Figures

3 main categories of accident

**22%** of 15000 LOSA records show monitoring as medium to poor leading to an **UAS**

Lack of effective monitoring leads to of all accidents

**3** primary causes of accidents are due to weak monitoring



Common denominator



Line Operations Safety Assessments  
Undesired Aircraft State

\*Loss of Control  
\*Controlled Flight Into Terrain  
\*Runway Safety

# Monitoring...

... is a combination of multiple aspects

The SHEL(L) Model



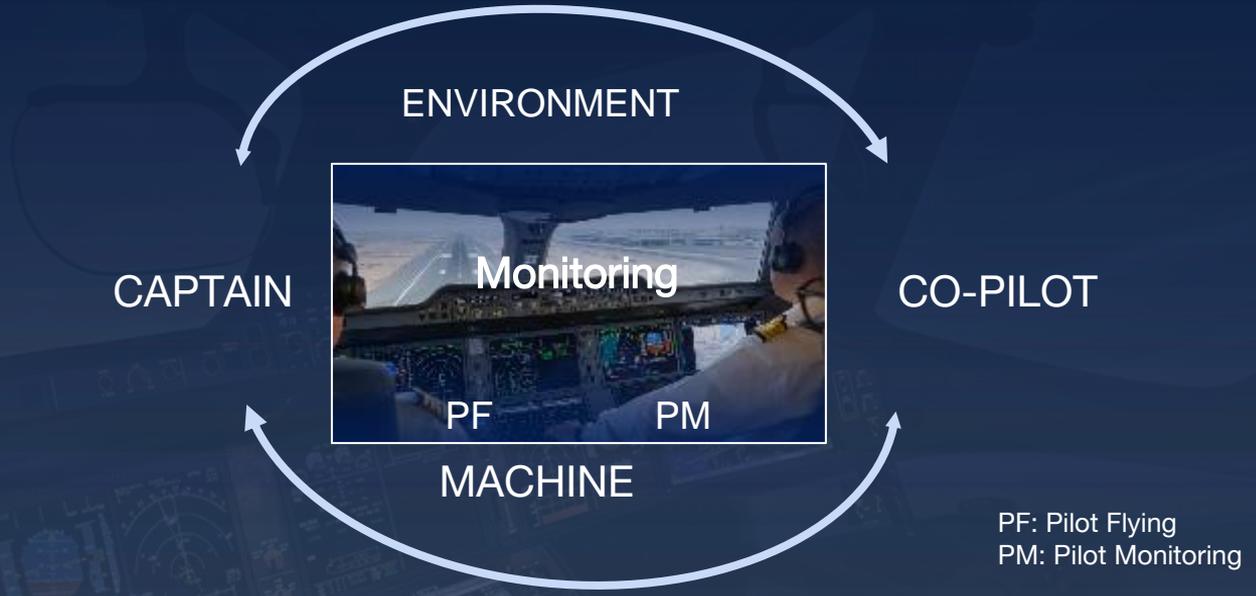
Software  
Hardware  
Environment  
Liveware

Source:  
Edwards/Hawkins

■ Error  
■ Threat

# How... do we monitor?

**HOW?**  
**WHAT?**  
**CHALLENGES & BARRIERS...**



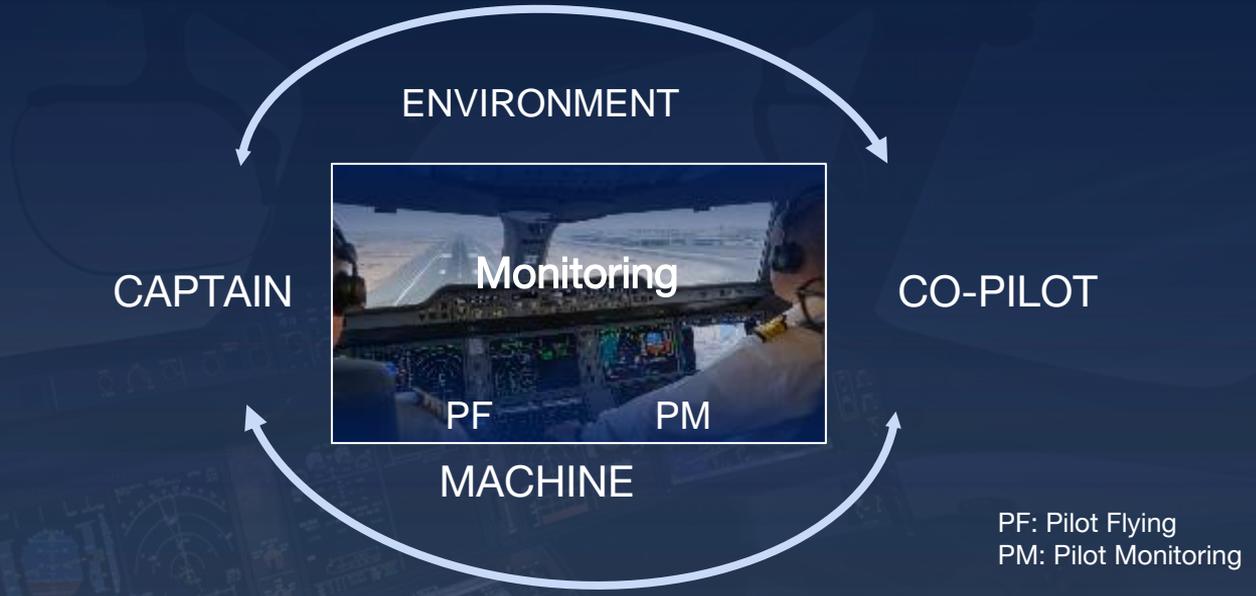
ATTENTION MANAGEMENT

CROSS-CHECKING/  
DELIBERATE CHECKING

KNOW YOUR ROLE

# What... do we monitor?

HOW?  
WHAT?  
CHALLENGES &  
BARRIERS...



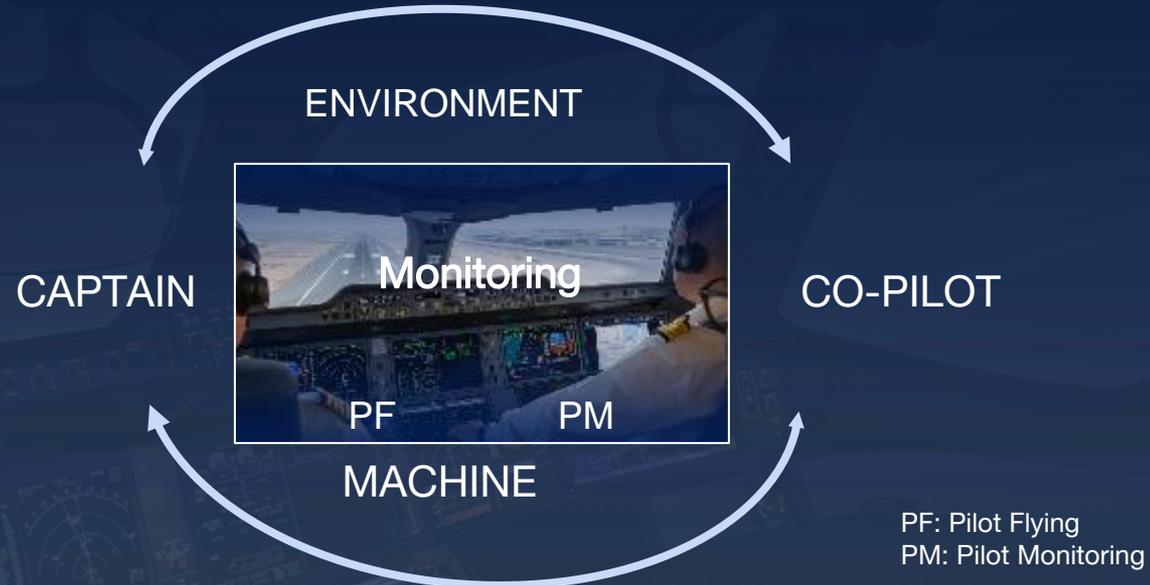
OPERATIONAL FACTORS

FLIGHT PATH FACTORS

AIRCRAFT SYSTEMS

# Challenges & Barriers?

HOW?  
WHAT?  
CHALLENGES &  
BARRIERS...

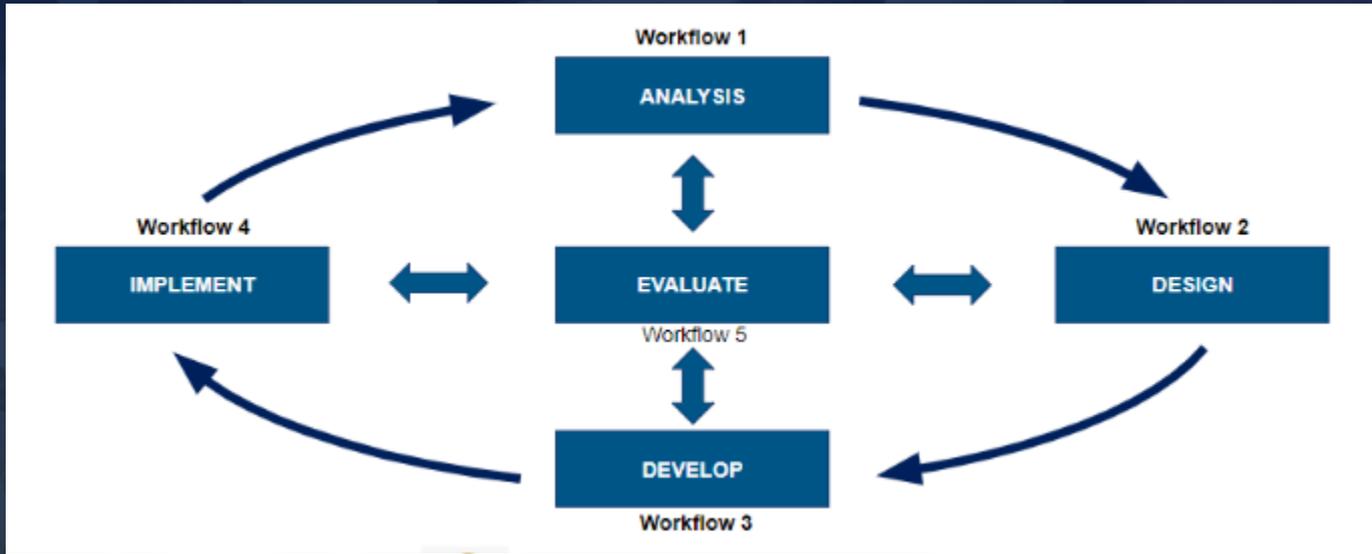


HUMAN FACTOR

TIME PRESSURE

MENTAL MODEL OF AUTOFLIGHT SYSTEM

# ISD - ADDIE Model



# Improve Monitoring performance



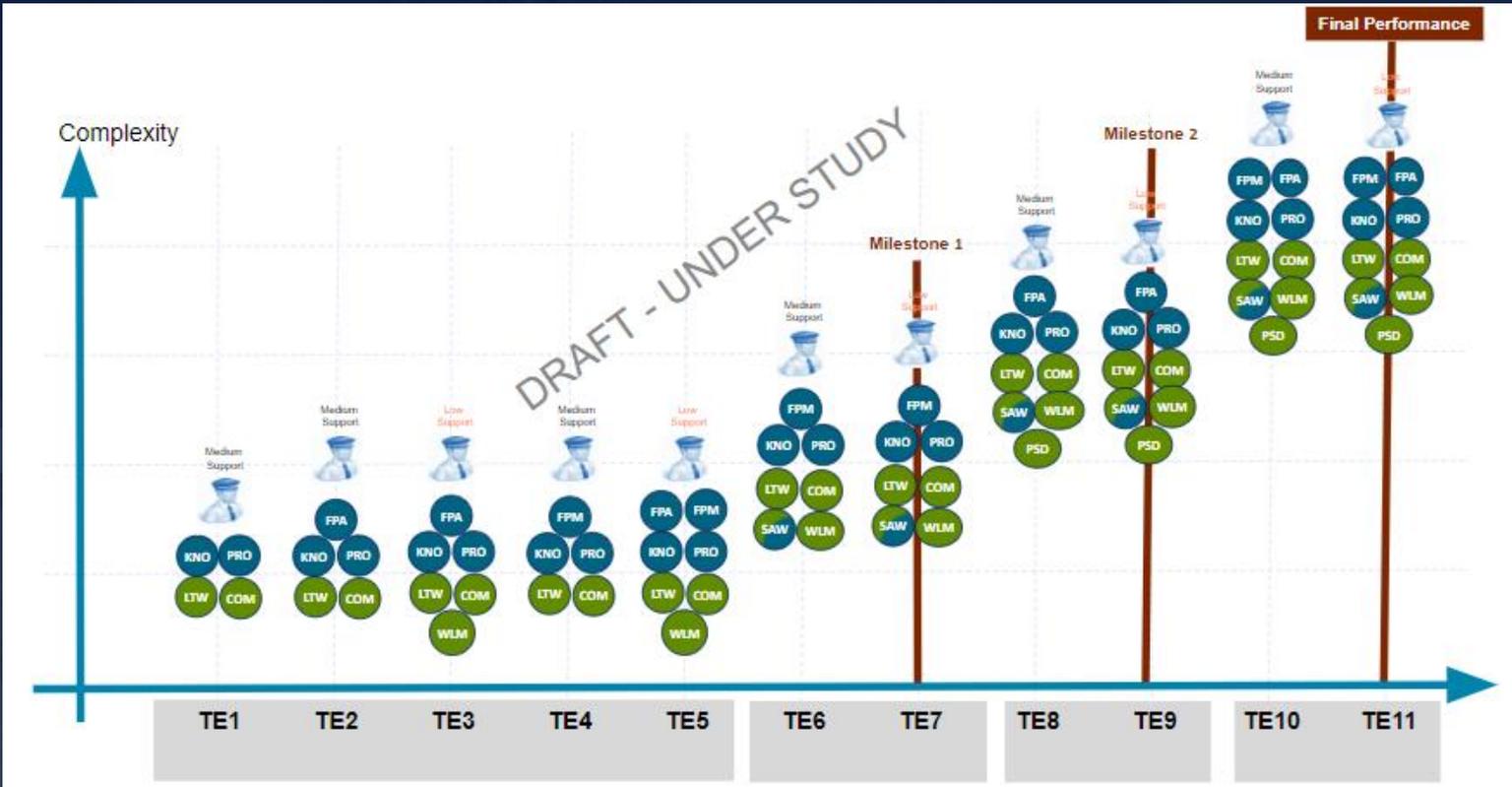
3 main categories of accident

# Competency Development: Type Rating

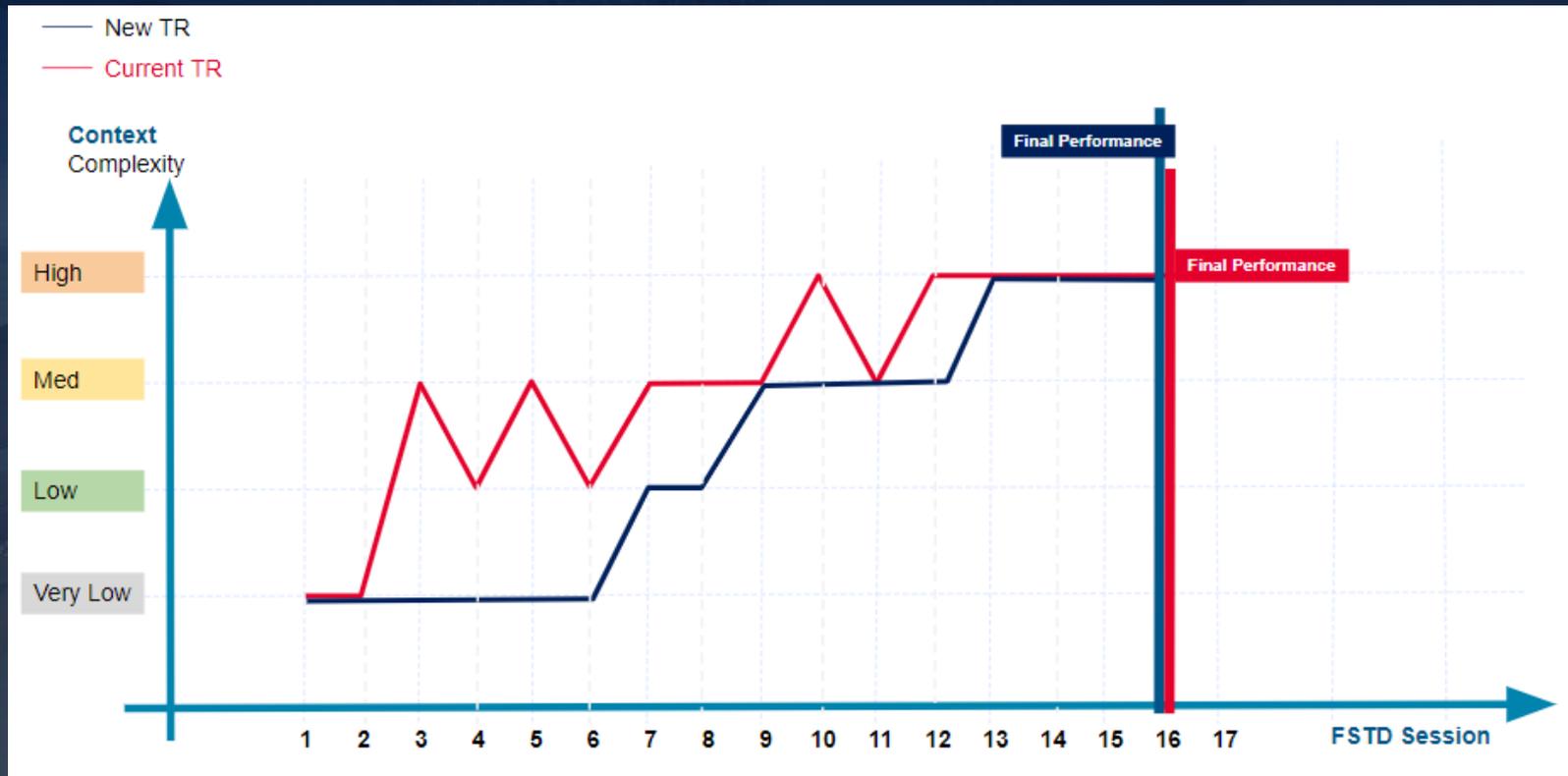
TE Training Event

Cpy TA-SE

Cpy TA



# Expected Training Progress



# Airbus Total System Approach



**CBTA  
TEM  
Monitoring**

Competency-Based Training & Assessment  
Threat and Error Management

## E2E Flight Training CBTA curriculum



**Selection**

**Ab Initio Training**

**Airbus Modular Training**

**Ops Training**

- Golden rules
- Competency-Based CBTA
- Learning by doing
- Startle effect
- EBT Service



# Prepare our Pilots & Next Generation

## Comprehension of Monitoring

Monitoring  
Training content  
evolution



LOOK  
UNDERSTAND  
TRAIN

## Training Philosophy

Training concept  
& philosophy  
evolution



CBTA

## Evolution of Technology

Technological  
aircraft  
evolutions



Every Aviation Stakeholder's  
responsibility to encourage, *reinforce*  
& *instill*, the Importance of Monitoring

# Thank you

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