

SAFRAN / Turbomeca

EASA Cologne

04 & 05 Dec 2013



Safety

Reliability

Proximity

Innovation

WE KEEP YOU FLYING

Christian Rossi - Jean-Louis Mostajo

SAFRAN: THREE DIVISIONS

Aeronautical and spatial propulsion

- Snecma
- Snecma Propulsion Solide
- Techspace Aero
- **Turbomeca**
 - Microturbo

Aeronautical equipment

- Aircelle
- Hispano-Suiza
- Labinal
- Messier-Bugatti-Dowty

Defense Security

- Sagem
- Morpho

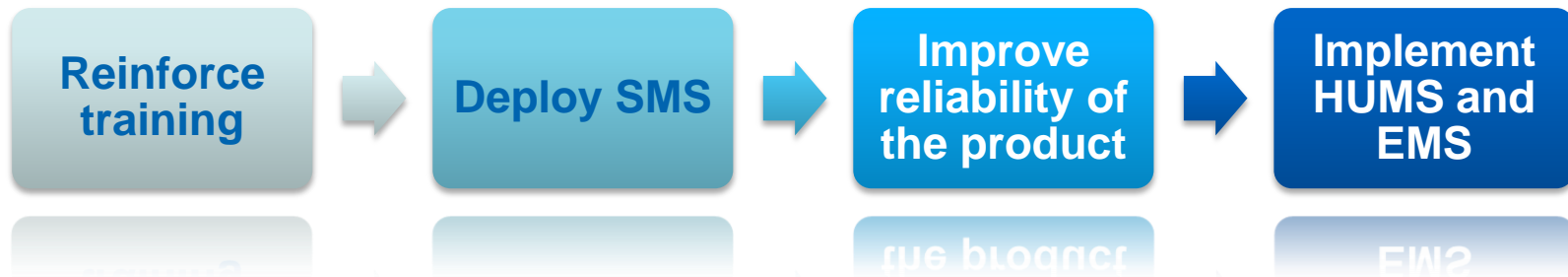
2 500 customers in 155 countries
1,126 millions € of sales
18,200 turbines in operation
1,100 engines produced
1,600 engines repaired
6,360 worldwide staff

2012



Turbomeca Safety Commitment

- ✓ The target is to succeed in IHST commitment:
 - 80 % of helicopter accidents in ten years
- In accordance with, IHST major recommendation to improve helicopter flight safety are:



- Today, Turbomeca will present its approach on 2 of them:



EMS



Training

BOOST by Turbomeca

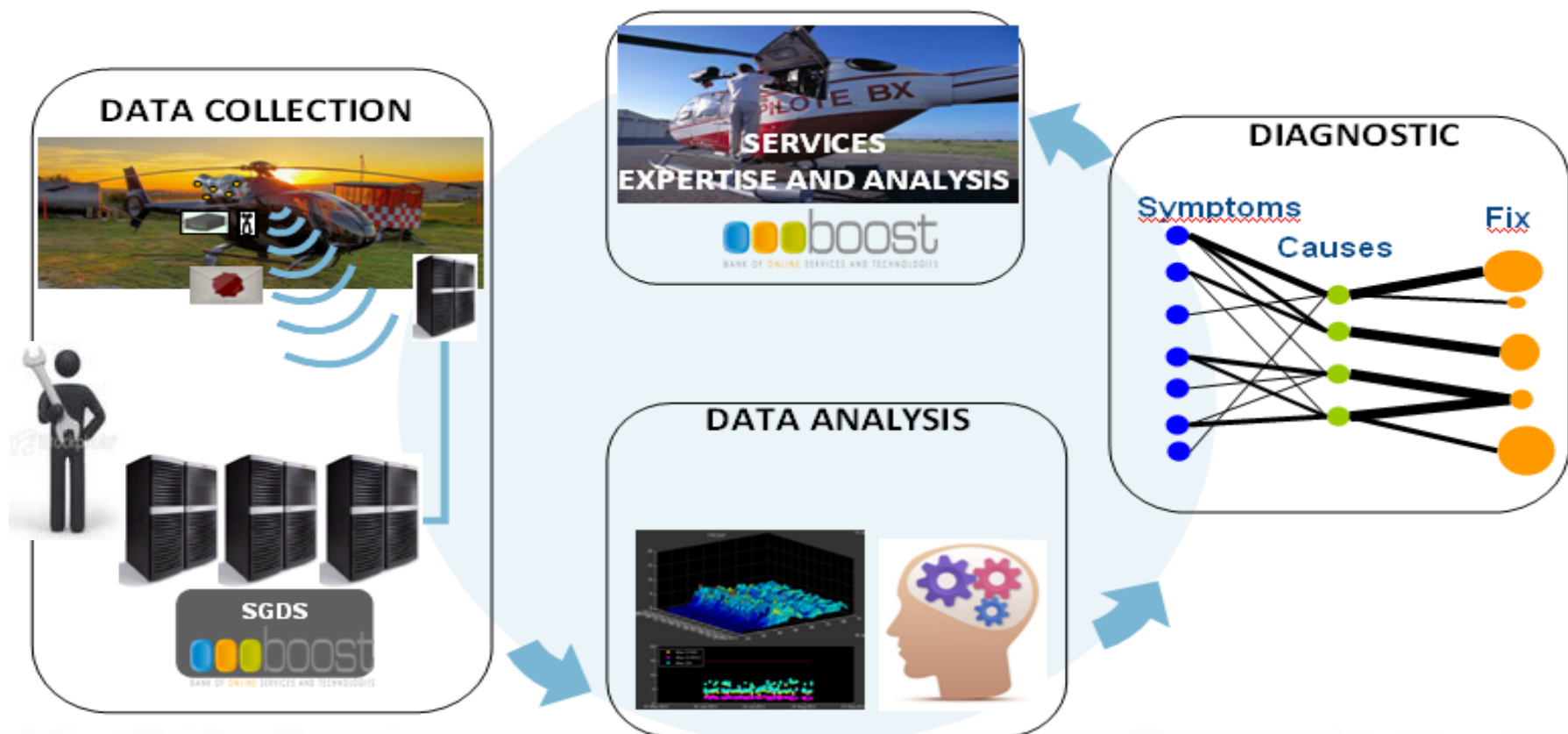
Christian Rossi
Head of Research & Technology services



BOOST – Powering Turbomeca Services



How will BOOST transform data into safety & services ?



BOOST Concept

BOOST - Bank Of Online Services and Technologies

a totally new range of integrated online services for streamlining your operations

Engine management advanced services

that add on to and interface with your existing systems

Highly secured, compatible and web-based

services currently being developed by IBM





Safety

A system that works for you

- Alerts
- Airworthiness
- Configuration



Efficiency

Proactive engine management

- Expertise & analysis of your data
- Accessible 24/7
- Sharing information in real-time with OEM



Compatibility

Interfaces with existing IT systems

- Your system - your interface
- Send alerts to your IT system



Revolutionary world class services that will broaden and develop into real proactive actions and practices

BOOST improves the reliability of engine configuration



Thanks to BOOST, engine configuration will be validated by OEM

Configuration is mandatory to make relevant the health monitoring process

The health monitoring loop remains open without preliminary reliable configuration management

► BOOST will close the a.m. loop

Added Values

Improve
Safety & Security

Optimise
Maintenance costs
& Availability

Create a
paperless
environment

Answer authorities
requirements
& regulations

**Limit the
risk of
human
error**

**Be alerted
about
engine
events and
new
documents**

**Secure
environment
for your
data**

Added Values

Improve
Safety & Security

**Constant visibility of your
fleet, wherever they
operate**

**View, manage and plan
your maintenance**

Optimise
Maintenance costs
& Availability

**View, manage and control
the configuration of your
engines**

**Troubleshooting and
Trend Monitoring services**

Create a
paperless
environment

Answer authorities
requirements
& regulations

**The health monitoring loop remains open without
preliminary reliable configuration management => BOOST
will close the loop**

Added Values

Improve
Safety & Security

Optimise
Maintenance costs
& Availability

Create a
paperless
environment

Answer authorities
requirements
& regulations

**Specialised
environment
that requires
no installations
or in-class
training**

**Reduce the
workload for
your team**

**Compatibility
solutions for
existing IT
systems**



Added Values

Improve
Safety & Security

Optimise
Maintenance costs
& Availability

Create a
paperless
environment

Answer authorities
requirements
& regulations

**Increased
traceability
of the data:**
proof of who
wrote what
and when

**Easy follow-
up and
constant
access to
up-to-date
Technical
Publications**

**A clean and
clear
electronic
logbook,
guaranteed
by the OEM**

An important 2-steps test phase

**6 customers
(Operators and Maintenance
Centres) will test BOOST in
parallel to their own activities**

**Test the application and
Turbomeca customer
processes**

First customer tests

**The test phase will then
extend to include 20
more customers**



**A successful test phase for a successful launch –
BOOST will already have satisfied customers**



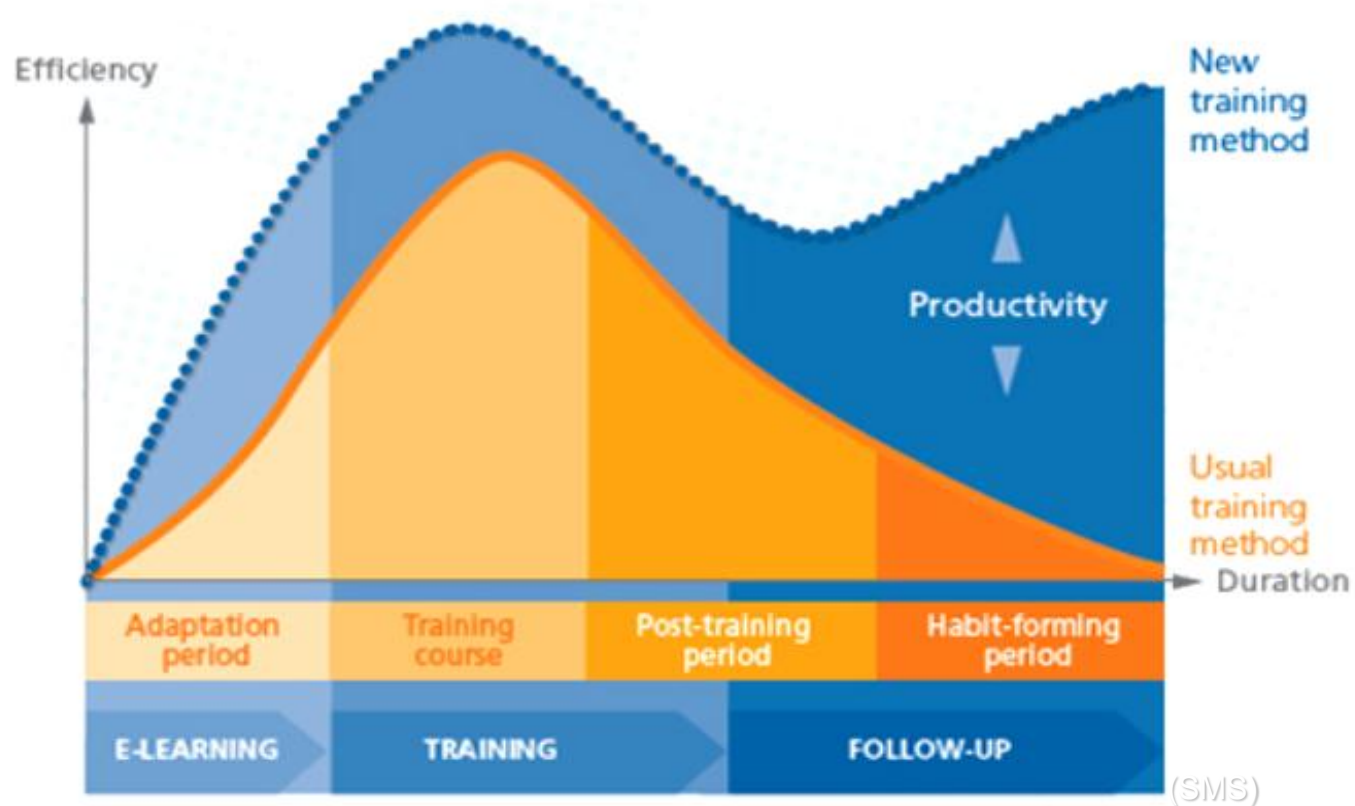
Safety: How can Training approach help?

Jean-Louis Mostajo
Corporate Training Manager

SAFETY: professionals and students involved



PROFESSIONAL TRAINING PHILOSOPHY

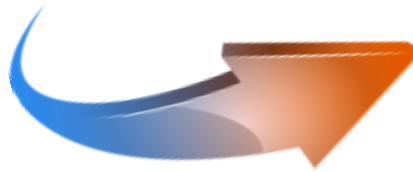


LONG LIFE LEARNING

PROFESSIONALS: From philosophy to Operations



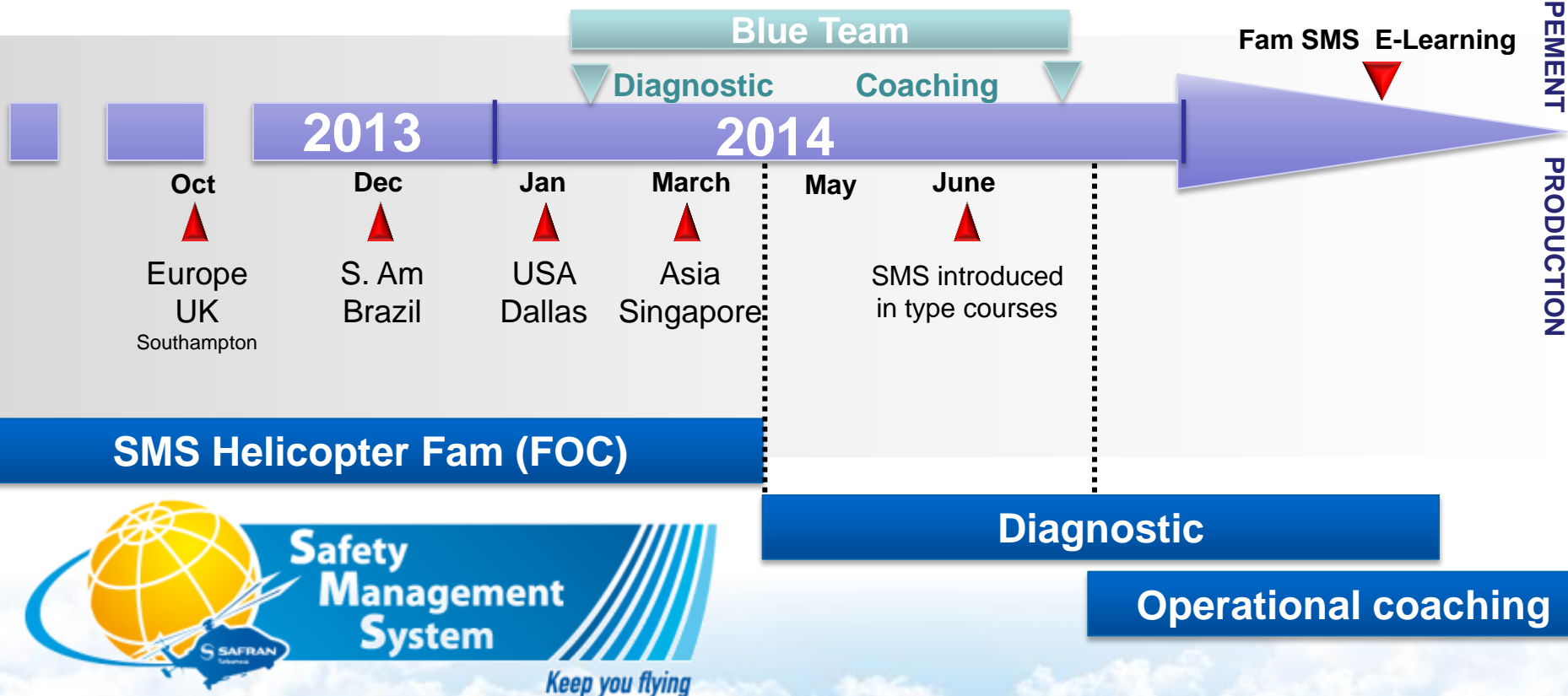
Learning Management System



PROFESSIONALS: SMS Training offer

TURBOMECA INITIATIVE

Global action plan for small customers



PILOTS: Safety approach

TURBOMECA INITIATIVE

- Duration:
2 days
- Participants
7 maximum
- Public
Pilot
- Price:
Contact us

FLY
YOUR
ENGINE
TOO

Objectives



Training program
contents

- e-learning
- Classroom training
- Follow up at Turbomeca site

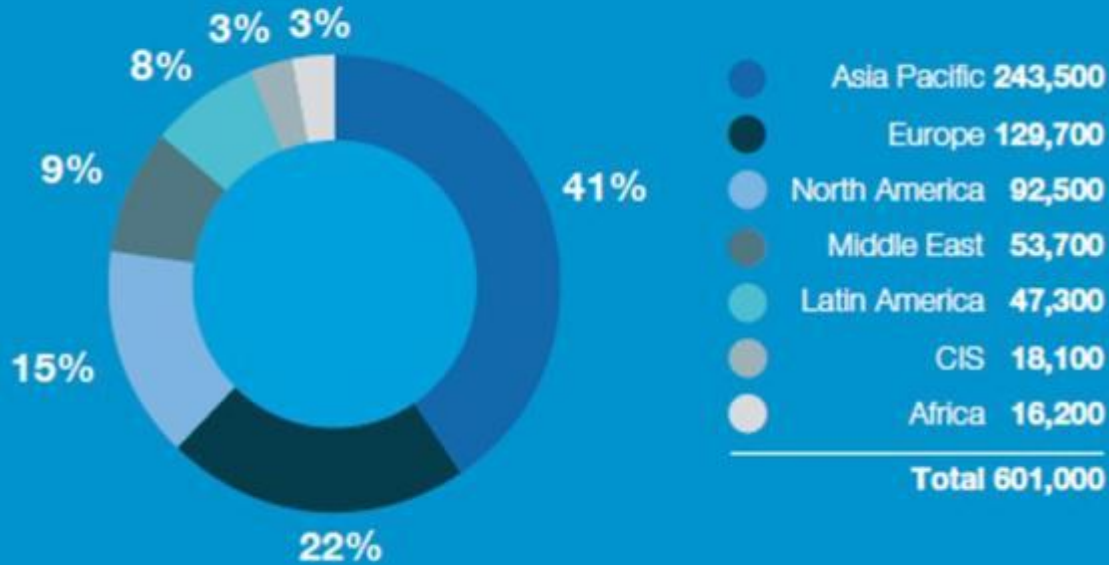
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STUDENTS: “Helicopter Mechanics shortage...”

New Technicians by Region 2012-2031



Source: 2012 Boeing Pilot & Technician Outlook Report

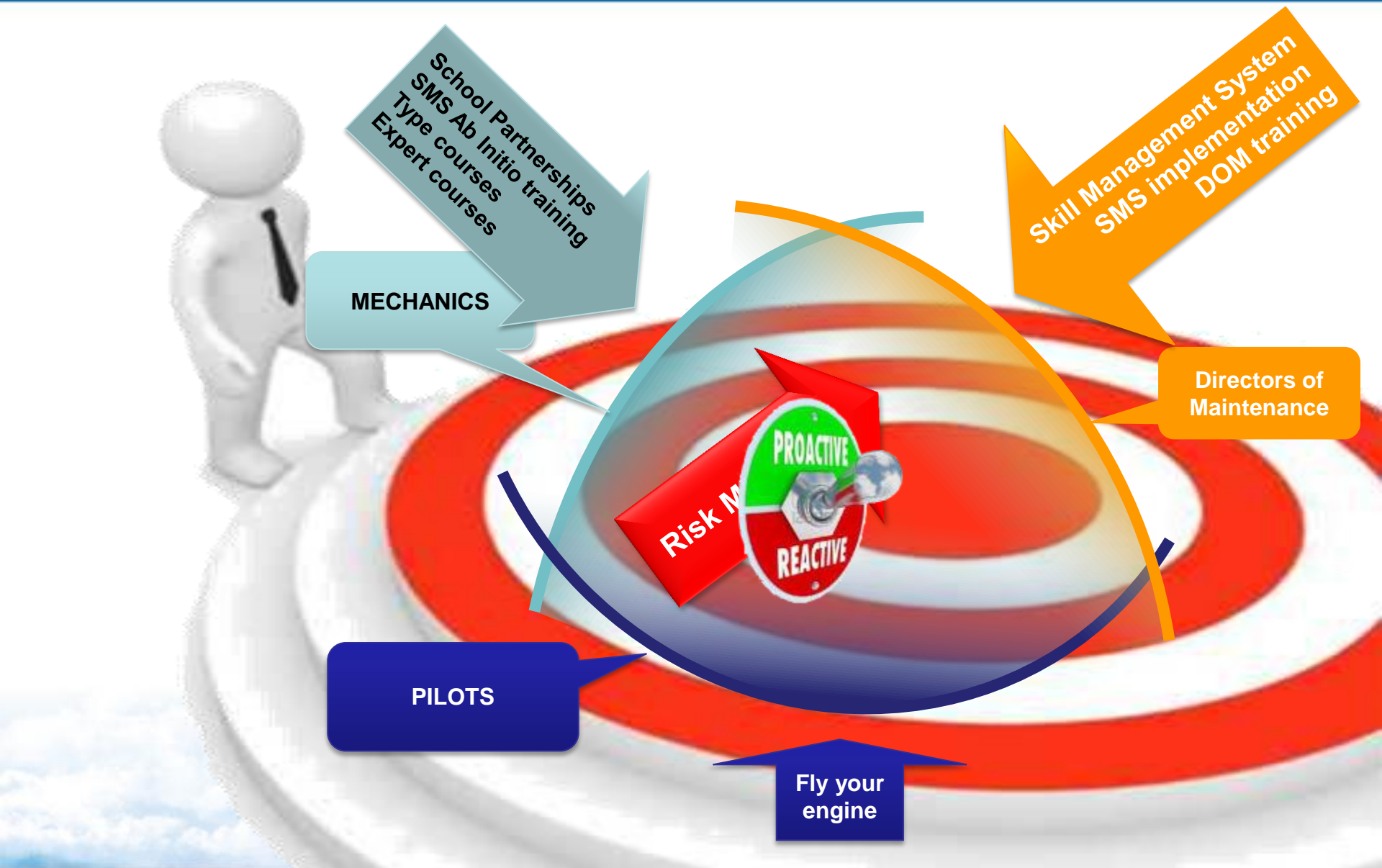
TURBOMECA INITIATIVES

- Mobilize Helicopter corporations to promote this job and attract young people
- Harmonize level of skills through educational local resources

TODAY FOR TOMORROW



SAFETY: REDUCING RISK AREA BY TRAINING APPROACH



TURBOMECA SAFETY GLOBAL APPROACH

