



HARMONISATION OF EUROPEAN MILITARY CERTIFICATION PROCESSES FOR TIGER HELICOPTER

Presented by

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TIGER PROGRAMME DIVISION

Mid-life updates are managed as dedicated OCCAR programmes using already proven procedures
Priority : MIMIMISE OPERATIONAL DISRUPTION





Basic Helicopter

Weapons

12.7 mm wing gun pods
HOT/TRIGAT air-to-ground missiles
70 mm HYDRA air-to-ground rockets
STINGER air-to air missiles

Other Capabilities

OSIRIS Roof Mounted Sight

Main Mission

Force Protection
Air-To-Ground/Anti Tank



UHT



Weapons

Chin-mounted 30 mm gun
MISTRAL air-to-air missiles
68 mm air-to-ground rockets

Other Capabilities

STRIX Roof Mounted Sight

Main Mission

Force Protection
Air-to-Air



HAP



Weapons

Chin-mounted 30 mm gun
MISTRAL air-to-air missiles
68 & 70 mm air-to-ground rockets
SPIKE & HELLFIRE air-to-ground missile

Other Capabilities

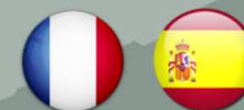
STRIX Roof Mounted Sight
Enhanced Engine
Additional Ballistic Protection

Main Mission

Force Protection / Recce
Air-to-Air / Air-to-Ground



HAD





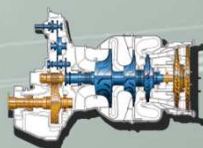
AH ESPAÑA



AH FRANCE



AH DEUTSCHLAND



ENGINES MTRI

TC HOLDERS

France = Airbus Helicopter TIGER

Germany = End-user

Spain = Airbus Helicopter España

TIGER PROGRAMME DIVISION



MILITARY & AIRWORTHINESS



EASA
European Aviation Safety Agency

Chicago convention 1944

Basic Regulation 216/2008

(EC) 748/2012: Airworthiness and environmental Certification

(EC) 2042/2003: Continuing Airworthiness



**EUROPEAN
DEFENCE
AGENCY**

EDA SB MoDs Nov 2008

Basic Framework Document (based 216/2008)

National Military Regulation





EDA SB MoDs Nov 2008

Basic Framework

EMAR 21

MDOA/MPOA
Initial
Certification

EMACC

European Military
AW certification
criteria

EMAR M

Continuing AW

EMAR 145

Maintenance

EMAR 66

Licencing

EMAR 147

Maintenance
Training
Organization

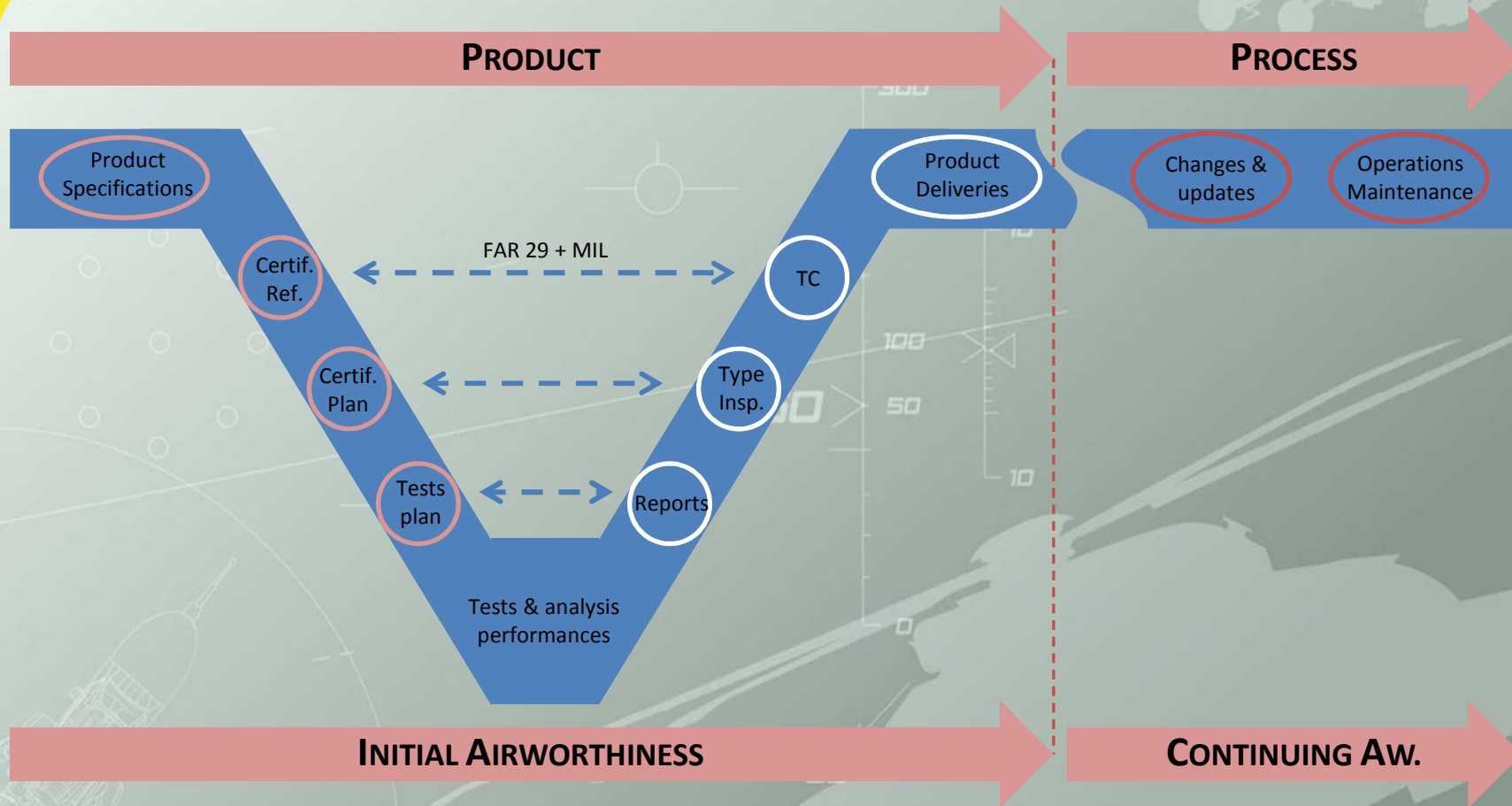
MILITARY NATIONAL AIRWORTHINESS AUTHORITY



PROGRAMME SETTINGS



TIGER IN EUROPEAN SKY



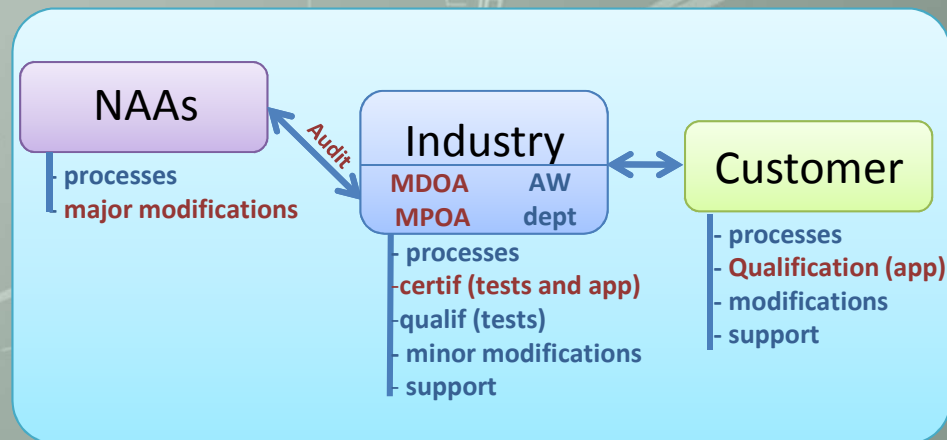
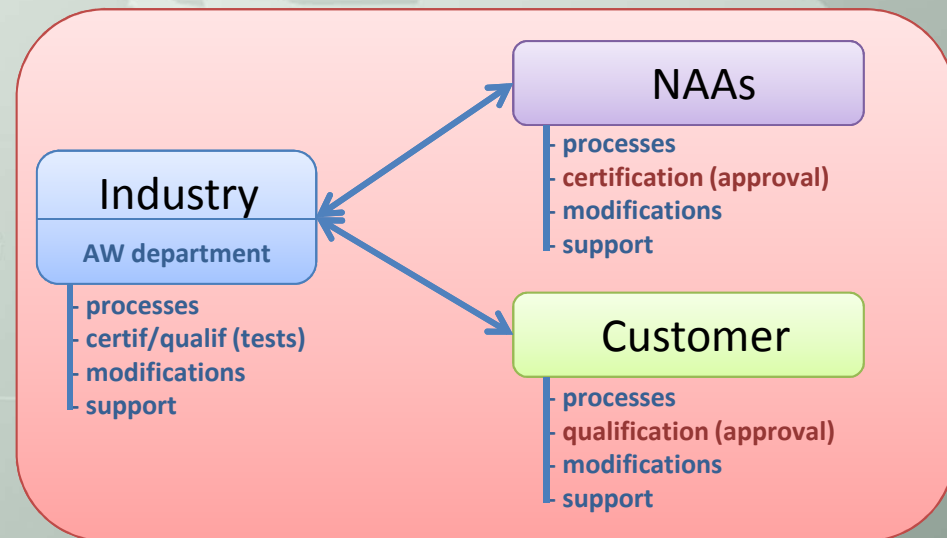


MDOA CONCEPT IMPLEMENTATION IN TIGER

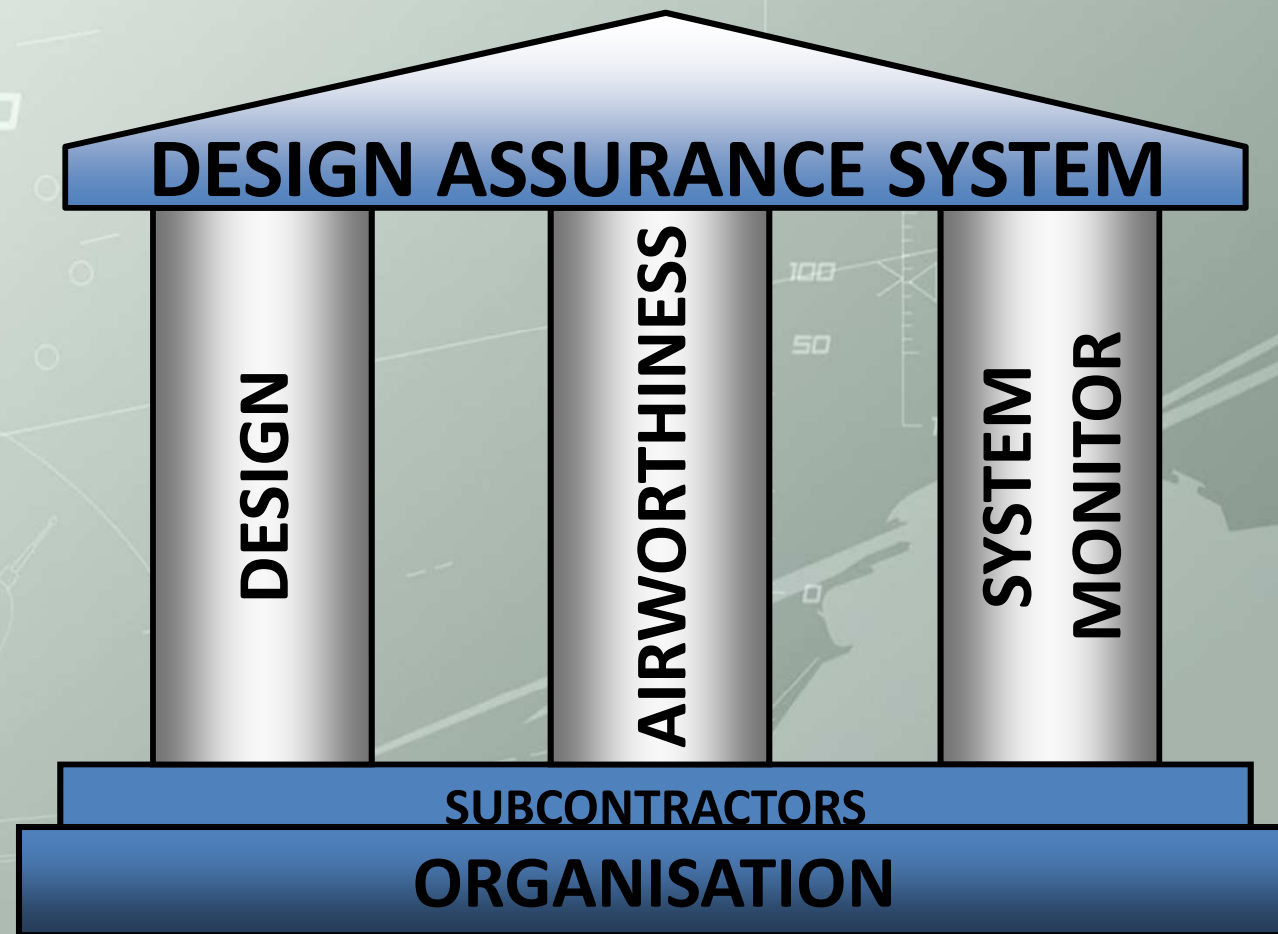


Current
approval
process

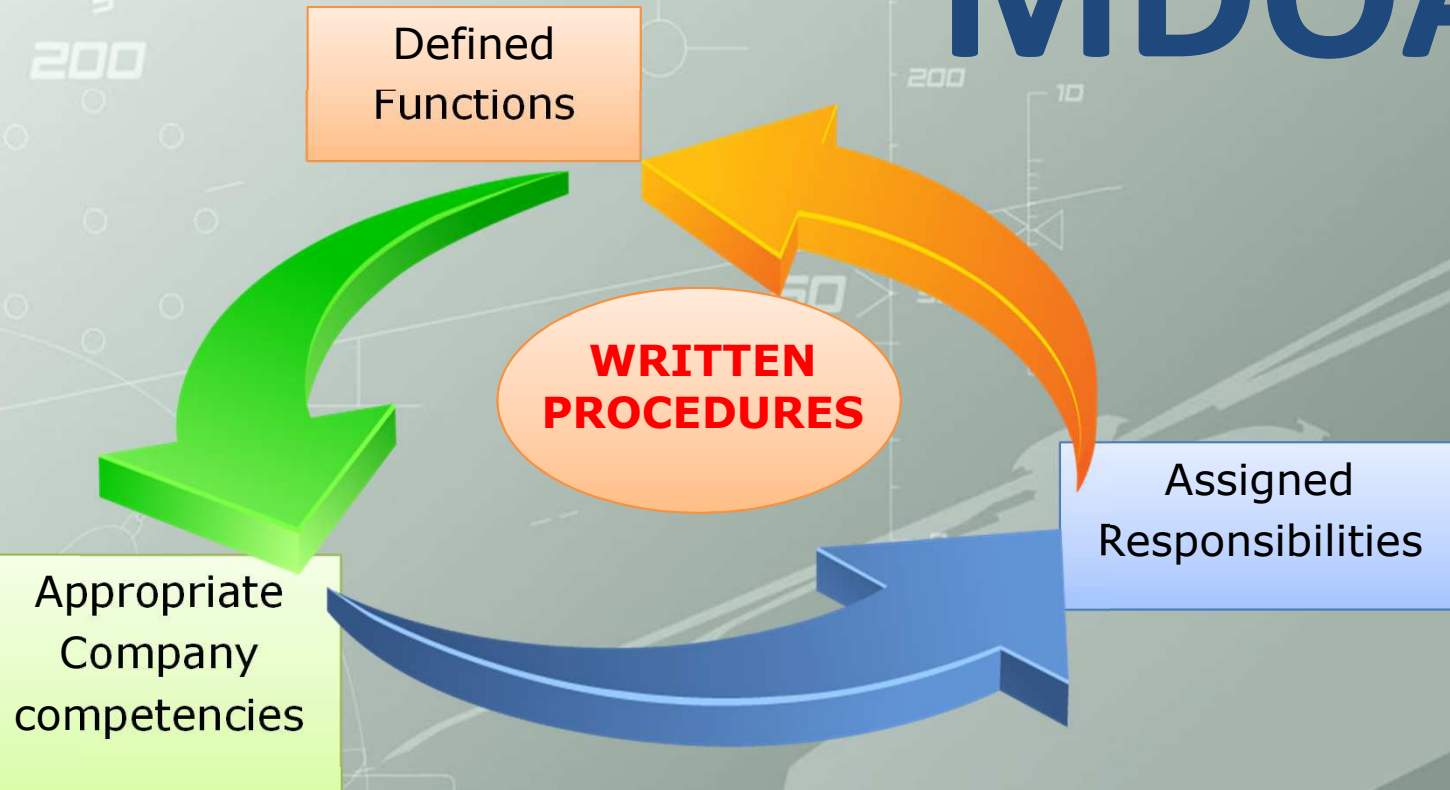
Expected
approval
process



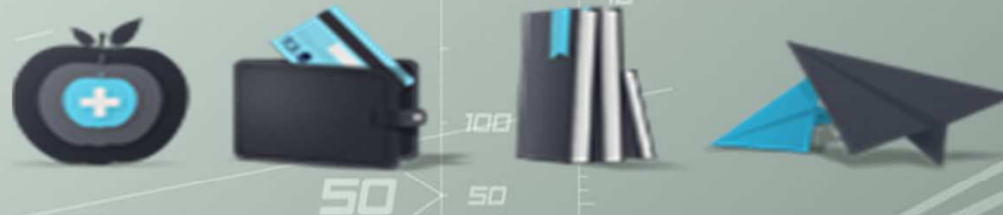
MDOA FUNDAMENTALS



IN A APPROVED MDOA



BENEFITS THAT MATTER



1. **Approved industry framework for certification activities**
2. **Common recognition of this framework by National Authorities**
3. **Efficiency on the overall approval process of design changes**
4. **Establishing the grounds for a future “European Military Joint Airworthiness Authorities Organisation”**



NEXT STEPS

1. **EASA / OCCAR** to defines a collaboration framework (1st meeting on 20/11/14)
2. **National Airworthiness Authorities** to establish mutual recognition agreement
3. **OCCAR** to define a basic certification framework for TIGER
4. **AIRBUS** to prepare Airbus Helicopter TIGER for the MDOA/MPOA implementation