



# MILITARY AIRWORTHINESS CONFERENCE

## **A view on the organisation of Military Oversight over foreign companies**



**MGen Rafael Martins, NAA Head of Office**

Lisbon, 5<sup>th</sup> October 2016

Describe the strategic plan implementation  
of the Portuguese National Aviation  
Authority, regarding the military  
airworthiness oversight over companies.

## Airworthiness

As defined in EMAD 1, is:

“The ability of an aircraft, or other airborne equipment or system, to operate in flight and on ground without significant hazard to aircrew, ground-crew, passengers (where relevant) or to other third parties.”



1. National Aviation Authority.
2. Airworthiness Strategic Plan.
3. Airworthiness Oversight Methodology:
  1. National companies.
  2. Foreign companies.

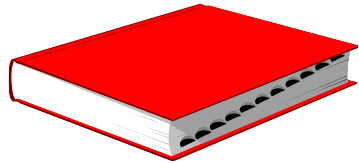


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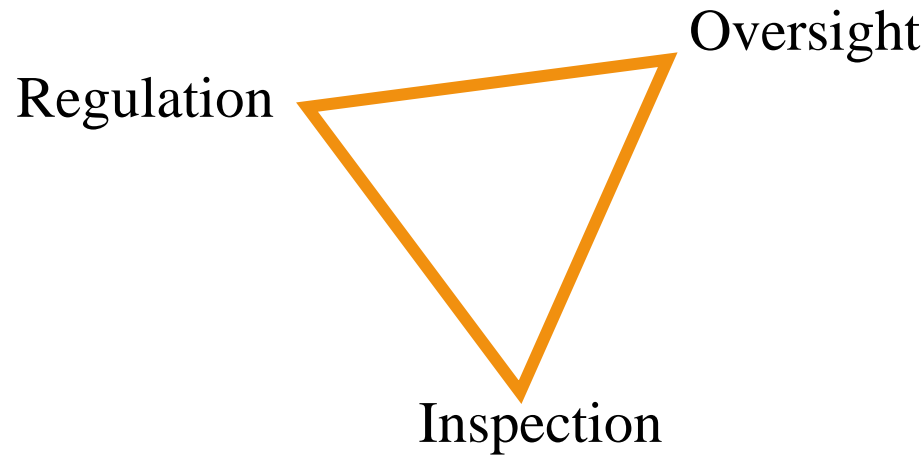


# National Aviation Authority

**Law n.º  
28/2013**



Regulates the scope of the National Aviation Authority (NAA), its competences, structure and method of operation;



# National Aviation Authority



Organizational structure



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# Airworthiness Strategic Plan

## Legal Framework

### Law No 28/2013

#### Regulation No 539/2014 - Airworthiness Basic Regulation for Defence

#### Regulations

PMAR 145 - Regulation No 431/16  
AMC & GM for PMAR 145  
Circular No 1/13 – RPAS Permits  
to Fly

To be published

PMAR 21 + AMC & GM  
PMAR 66 + AMC & GM  
PMAR 147 + AMC & GM  
PMAR M + AMC & GM

#### Internal Procedures

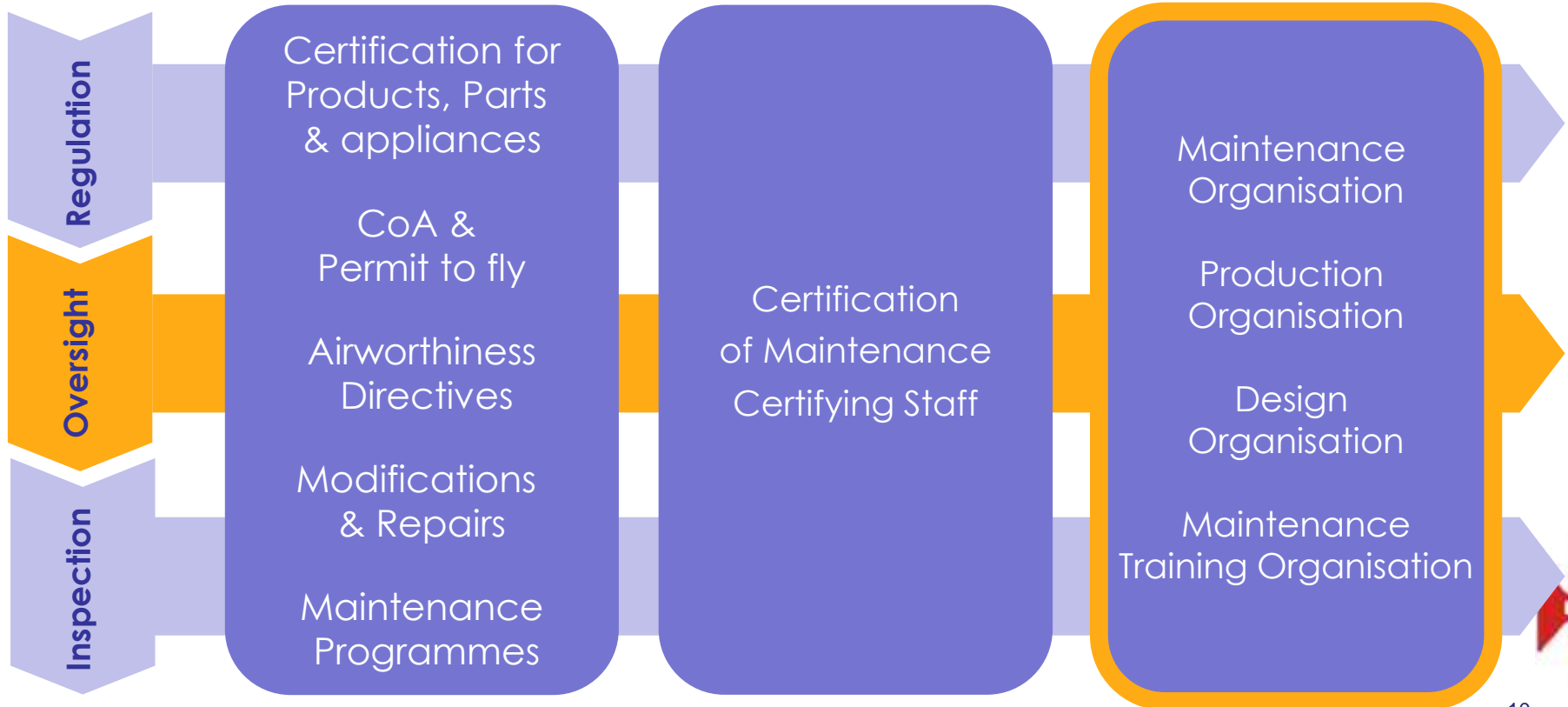
**Directive No 1/13** – PtAF resources  
supports the NAA activities

NAA Office Functional Model  
for Airworthiness Department

**Circular** “Certification of maintenance  
organisation on PMAR 145”  
(in development)

# Airworthiness Strategic Plan

## Activities



# Airworthiness Strategic Plan

## Strategic Plan



**Need**  
Safety  
Interoperability  
Legal aspects  
Assumed Commitments  
Cost-efficiency  
Opportunity to improve  
Competitiveness of national industry  
Regulation  
Sovereignty



# Airworthiness Strategic Plan

## Mission

Improve National Defence Air Operational Capability, through the continuing optimisation of the Airworthiness certification processes and **recognition processes with other authorities.**

## Vision

Develop and sustain the Airworthiness Cell to be a credible reference, at national and **international level**, to ensure high levels of safety in the military aviation in a proactive, innovative and efficient manner.

## Values

Leadership | Independence  
People | Efficiency  
Innovation | Communication  
Simplicity | Flexibility  
Competence

## Strategic objectives

**Develop** an efficient, effective, updated and **harmonised Regulation, Inspection and Oversight System** to ensure high level of safety of the Air Operation Capability.

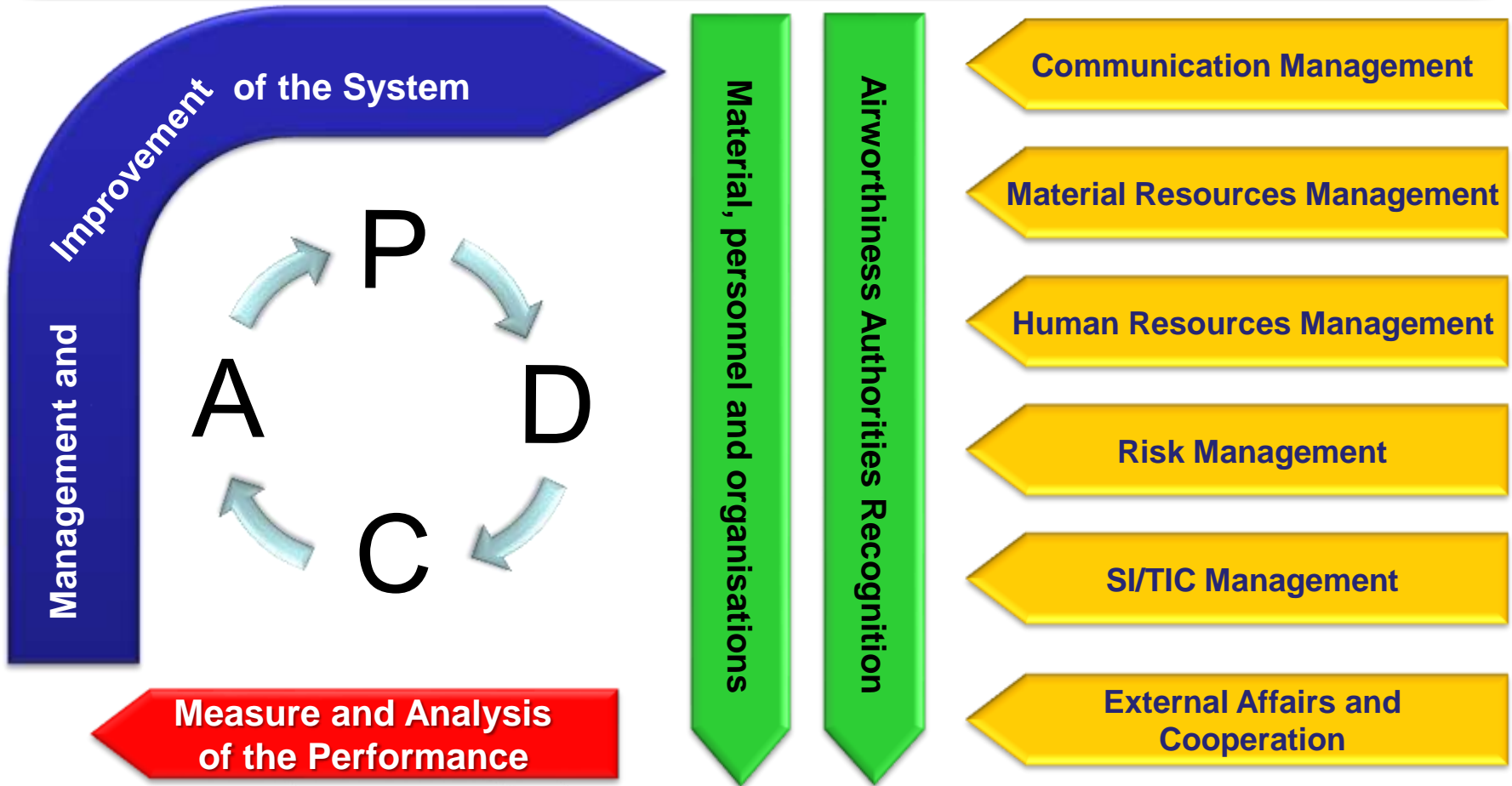
**Cooperate with other military airworthiness authorities** and, national and international **organisations for civil-military cooperation**, regarding the harmonisation of rules, **recognition of approvals and technical cooperation.**

Contribute to **enhance the national industry competitiveness through certification processes and recognition** of others authorities.

# Airworthiness Strategic Plan

## Core Process

**Clients:** Navy, Army, Air Force, National Industry, Foreign Military Authorities



**Final Products:** Certified products, parts, appliances, personnel and organisations, and Recognised Airworthiness Authorities

# Airworthiness Strategic Plan

## Implementation Strategy

HOW

Recognition of military airworthiness certification approvals

Acceptance of civil airworthiness certification approvals

Tailored resources according with regulation implementation needs

in a case by case base, for certification of products, parts and appliances, major repairs and

Air Force provides Suitably Qualified and Experienced Personnel

## Strategic Results

WHAT

Military Aviation **Safety**

**Harmonisation** of Requirements and adoption of good practices

**Recognition of the Authority**

**Consolidation** of the National Defence and National Industry

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## Law No 28/2013

Regulation No 539/2014 - Airworthiness Basic Regulation for Defence

**Limited by Law to oversight national organisations**

**Possible to accept foreign approvals issued by a recognised Authority**

**“Military Airworthiness is a national responsibility”** [EMAD R]





# Oversight methodology



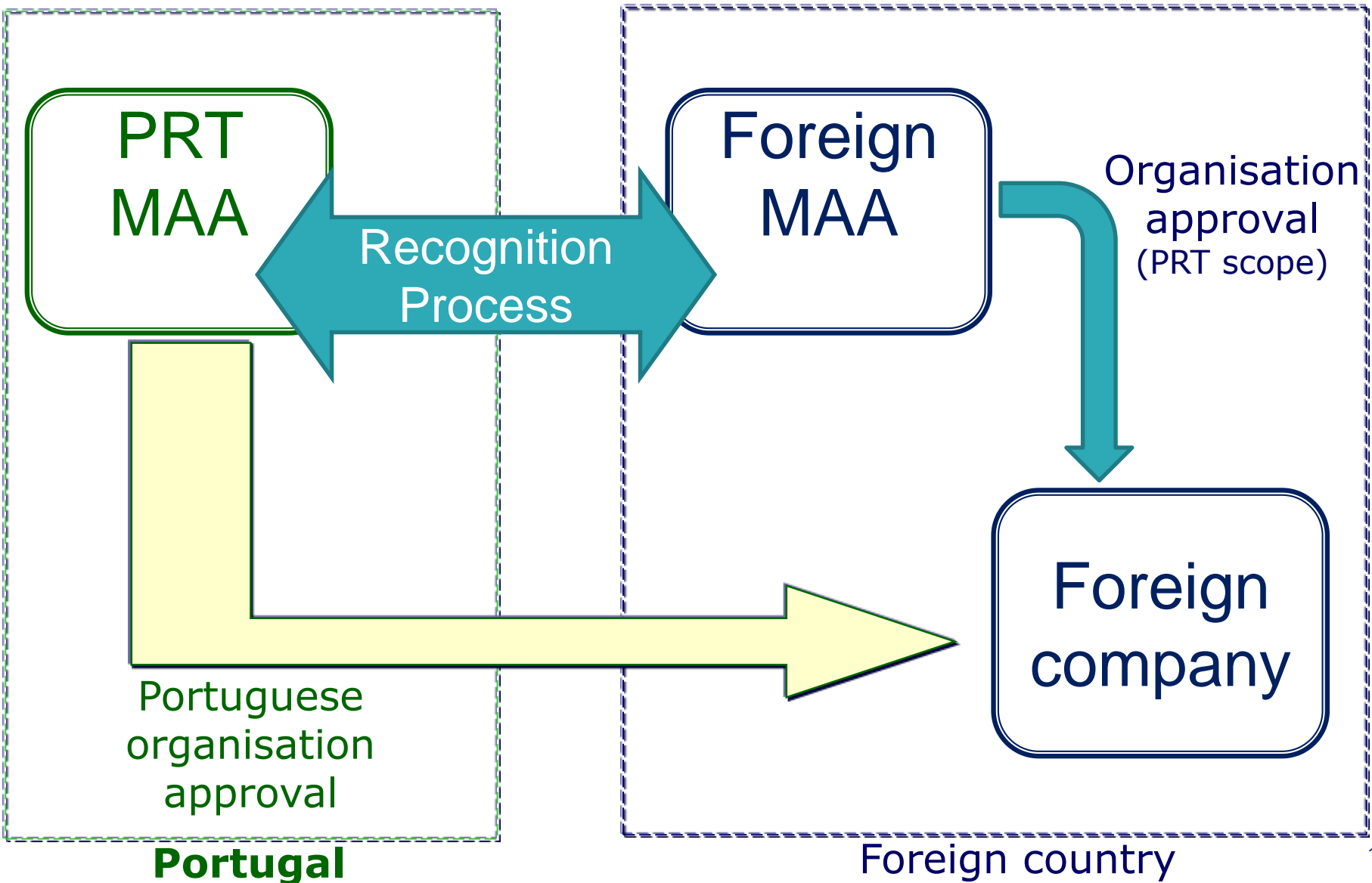
PMAR  
Organisations  
Approval



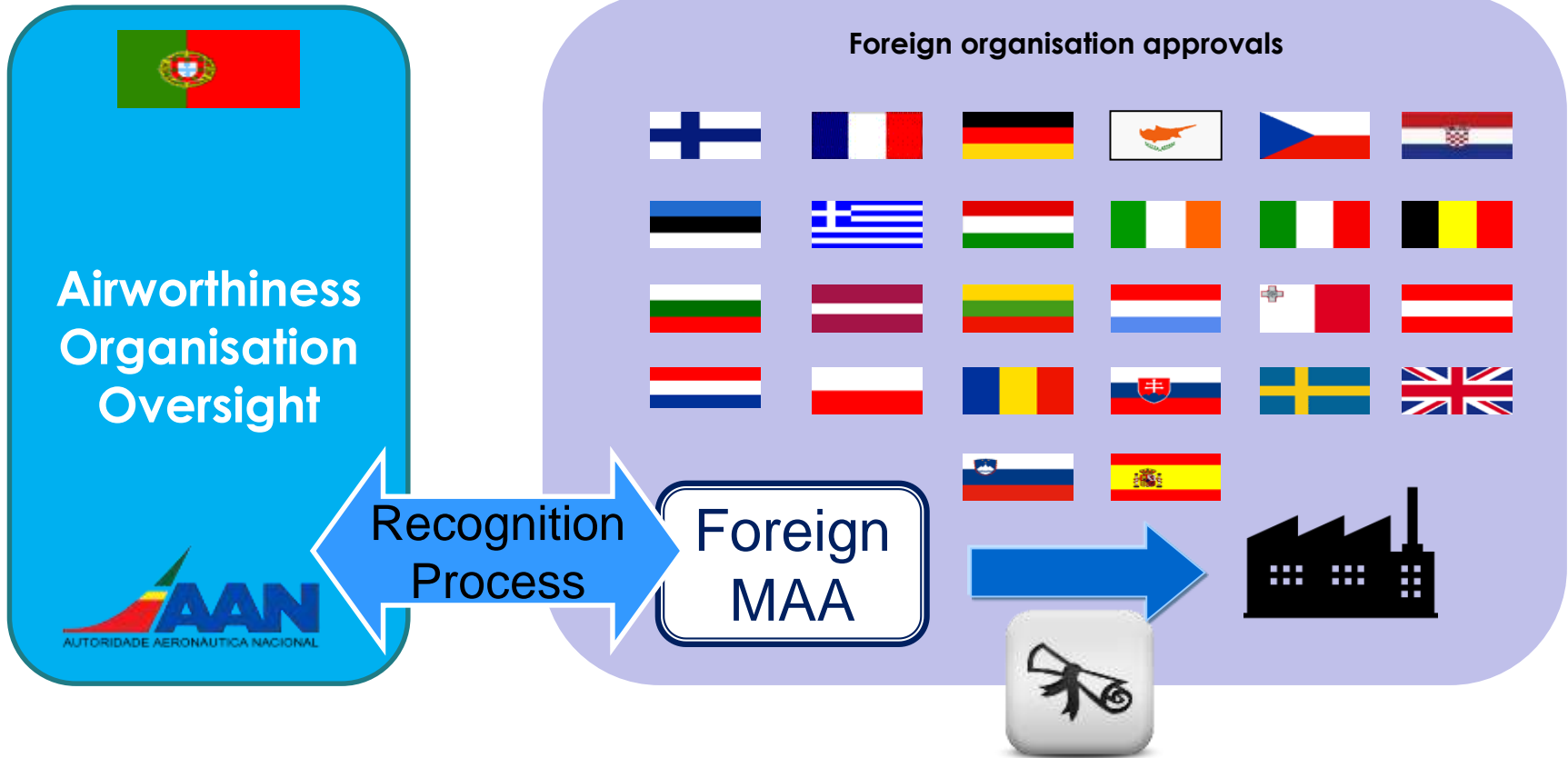
AAN  
AUTORIDADE AERONÁUTICA NACIONAL



# Oversight methodology



# Oversight methodology



The NAA may issue a certificate on the basis of a foreign certificate issued by the competent Foreign MAA, if supported by a recognition process.

## Benefits of recognition process:

- ✓ Reduce time and costs and optimise SQEP.
- ✓ Achieve national and international credibility.
- ✓ Boost the National and European DTIB competitiveness.
- ✓ Promote economies of scale in multinational programs.
- ✓ Strengthen international cooperation and interoperability.

## Challenges of recognition process:

- ✓ Provide the necessary resources to reach and maintain recognition processes.
- ✓ Ensure legal competence and capacity to certify and oversight, within the national and foreign military scope.
- ✓ Pursue an harmonised national and international perspective.



# Oversight methodology



**PMAR**  
Organisation  
Approvals




AAN  
AUTORIDADE AERONÁUTICA NACIONAL

### National organisation approvals

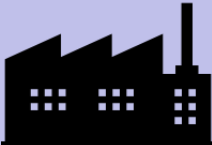


### Foreign organisation approvals

Recognition Process

Foreign MAA



# Conclusions

- ✓ **Harmonised European Military Airworthiness requirements** are a tool to develop synergies and optimising processes amongst the Military Airworthiness Community.
- ✓ Oversight of national and foreign companies requires a safe and **cost-efficient strategy** for a small Authority.
- ✓ **Recognition** is a cooperative, open, transparency and resources saving process, that will permit the Portuguese MAA to achieve its responsibilities over foreign companies.



# Conclusions

- ✓ Recognition enhances the **competitiveness** of European Industries.
- ✓ This is a Cost-efficient methodology among MAAs, based on credibility and cooperation principles.
- ✓ The end-state is the recognition leading to the desired interoperability and efficiency in military joint operations.





# Summary

1. National Aviation Authority.
2. Airworthiness strategic plan.
3. Airworthiness oversight methodology:
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