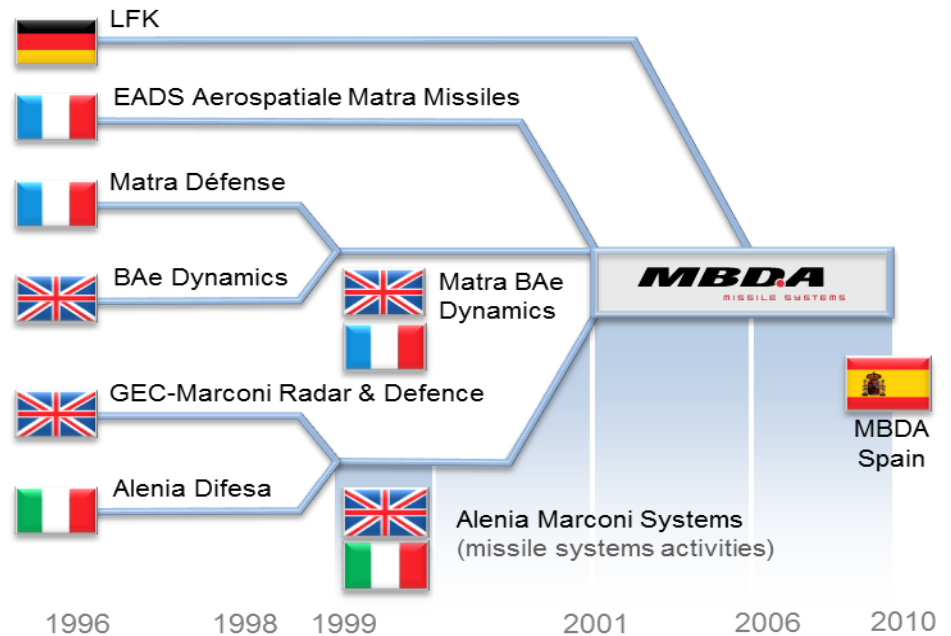


**MBDA Italy  
@  
1 Year 1 Day**

Università di Genova,  
25 Novembre 2019

# MBDA's heritage mirrors the history of tactical missiles in Europe

- Created in 2001
- The largest European company in the missile systems sector
- The only European company able to meet the whole range of complex weapons needs of the three armed forces



**AIRBUS**

**BAE SYSTEMS**

**LEONARDO**

37.5%

37.5%

25%

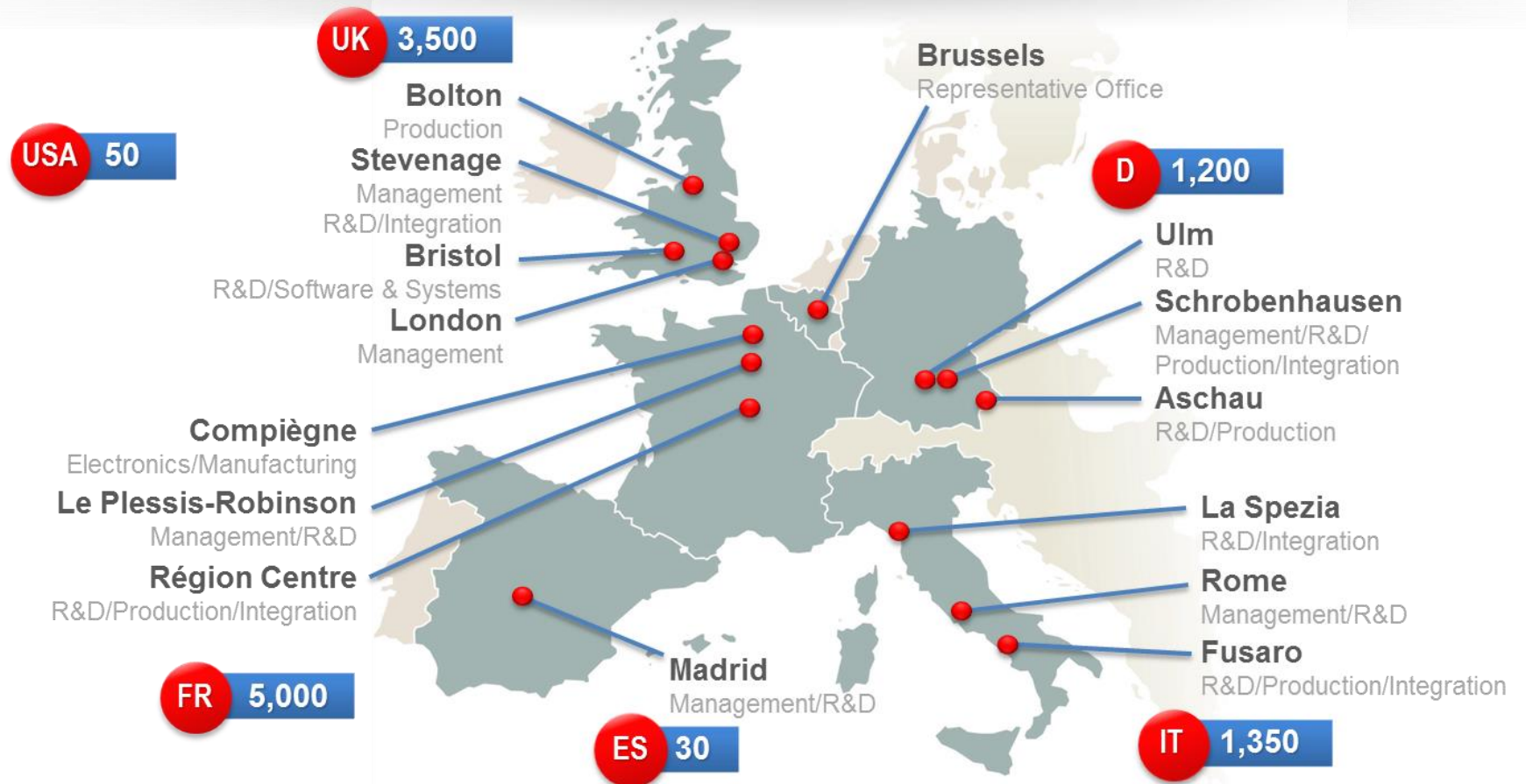
**MBDA**

MISSILE SYSTEMS

**MBDA**

MISSILE SYSTEMS

**More than 11,000 people worldwide, 60% in Technical/Engineering functions**



## MBDA Italy: 1350 employees over three sites



3 200

La Spezia  
R&D/Integration

1 750

Rome  
Management/R&D

2 400

Fusaro Production  
Integration/RF R&D

## Four market sectors, for all missions, for all services

### MARITIME SUPERIORITY



### AIR DOMINANCE



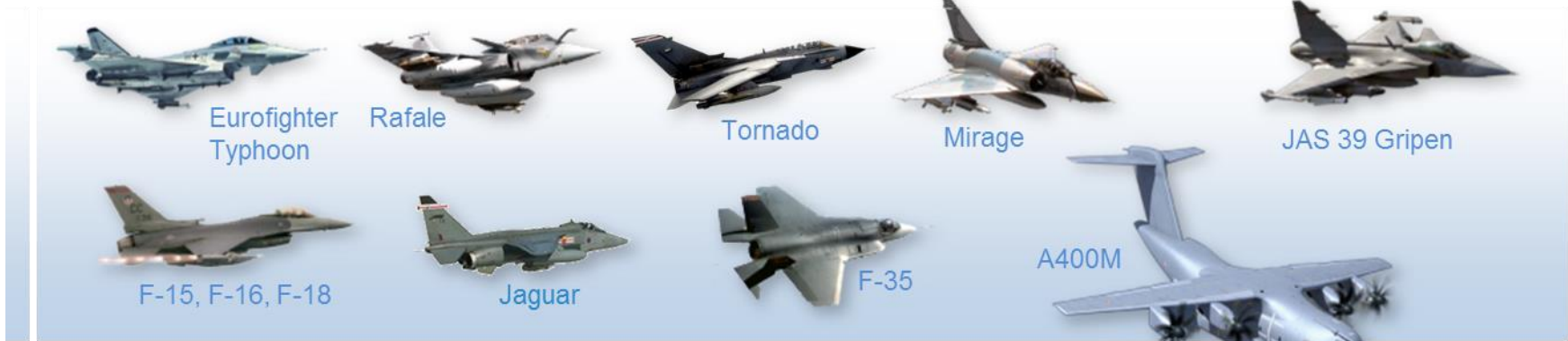
### GROUND BASED AIR DEFENCE



### BATTLEFIELD ENGAGEMENT



**Access to all platforms**



## Our Vision

To be the European missile systems champion and a global player.

## Our Mission

To operate as a trusted part of the defence community in our home nations and with their allies: providing decisive military capability to protect national security and enable strategic independence.

## Our Values



### INNOVATION

Ensuring operational and strategic advantage.



### COMMITMENT

Always delivering on our promises.



### INTEGRITY

A reliable and trusted partner with the highest professional and ethical standards.



### PASSION

Applying all our energy and focus to every task, recognising our role in providing mission critical capabilities.



### TEAM SPIRIT

Harnessing our diversity and collective purpose to deliver competitive advantage to all of our stakeholders.

## Our Strategy

1

Developing a partnering relationship and securing access to sovereign capabilities for our home nations.

2

Promoting programme cooperation and industrial consolidation in Europe.

3

Growing export sales and building up strategic partnerships outside Europe with our home nations' allies.

4

Continuing development of a competitive and high performance offering across all missile and missile systems domains.

5

Delivering operational excellence and maintaining industry leadership.

## Focus on La Spezia site



MARTE ER FIRST FIRING TRIAL  
ITALIAN TEST RANGE  
9<sup>TH</sup> NOVEMBER 2018

SHORT VERSION VIDEO ( 3 MIN.)

Source: "Successful first launch for Marte ER missile"

<https://youtu.be/KpMC3dfwcNM>

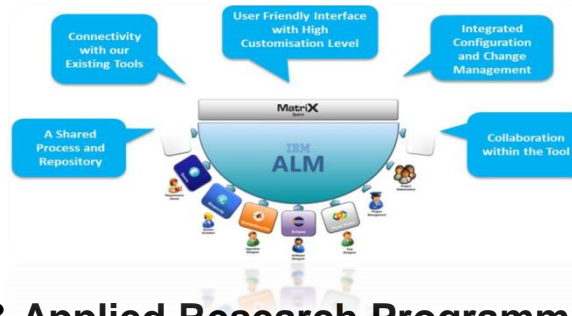
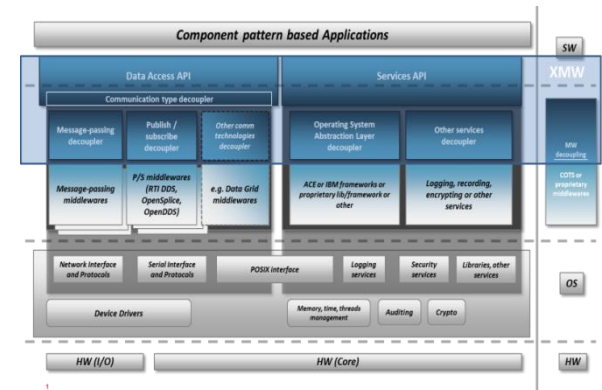


## Field of application:

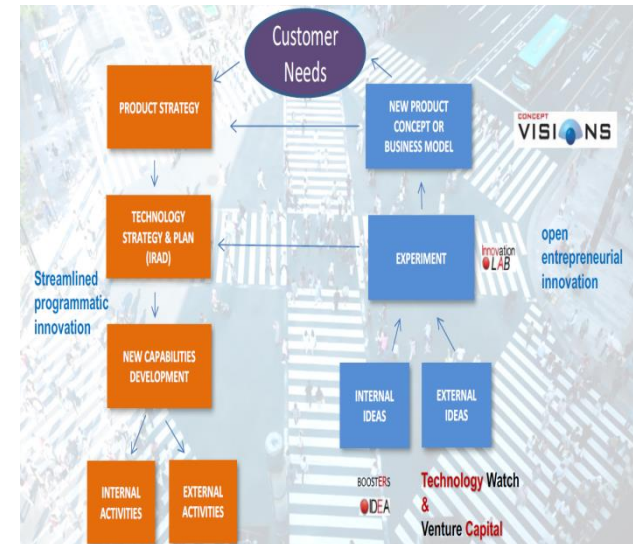
- Navigation & Guidance
- Tracking
- Image processing
- Threat Assessment
- Seeker/Sensor/Actuator interfacing
- Data Fusion
- System Management
- Command & Control
- Human-Computer Interface
- Fault Detection/Diagnosis
- Test Equipment



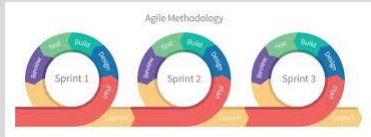
- **Managed Industrial Engineering Process**
  - Company assets covering any aspect of Software Design
  - Improvement process
- **Mature Architecture principles**
  - Design Guide related to System Domain
  - International Standard, Modularity and reuse
  - Layered architecture for portability and obsolescence
- **Integrated MBDA Tool chain based on company Infrastructure**
  - Fully availability & team cooperation



- **Technology innovation & Applied Research Programmes**
  - Technology Watch
  - Academic Network and active collaborations with Universities
  - Host several people for degree thesis and research doctorate
  - Dedicated unclassified laboratories



Agile Development  
Joint Algorithm SW Architecture  
Team Working



Continuous Integration  
Component Reuse  
Product Line



Big Data C/C++

Innovation



Modular Architectures



Modelling and Design Tools

Frameworks Middleware



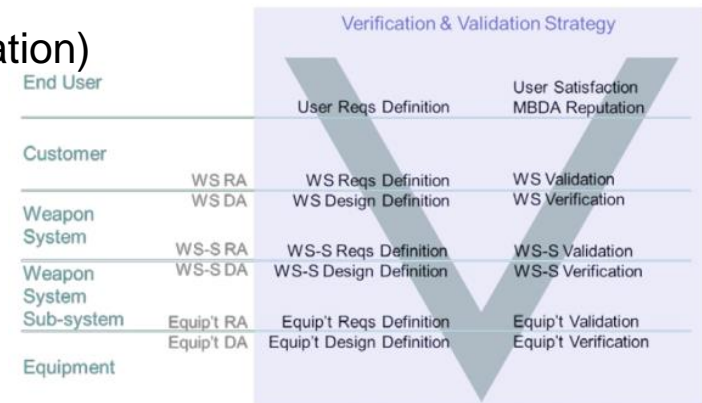
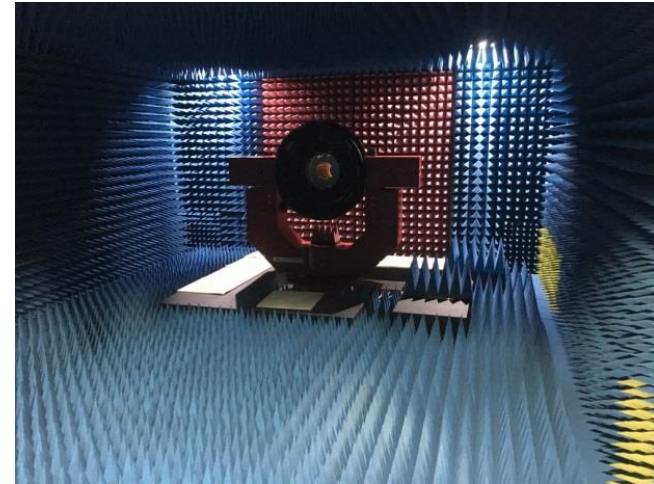
Safety Critical ucontrollers



RTOS PikeOS



- **Missile architecture and development**
- **Simulation and performance assessment**
- **Main Lab activities**
  - Equipment Integration, environmental Screening
  - Functional Validation
  - HWIL test
- **Main Field activities**
  - Weapon System installation on the Platform
  - Acceptance test with the Customer
  - Firing Execution (Development and Qualification)



## • Health and Usage Monitoring System based services

- Reduction of lifecycle cost
- Life extension
- Failure Mitigation

## • Photonics

- Atmospheric modelling and turbulence mitigation
- Improvement of vision through atmosphere

## • Detonation

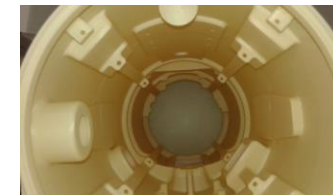
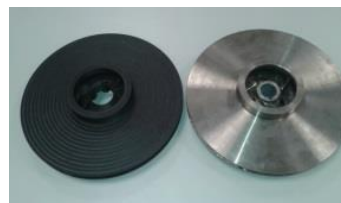
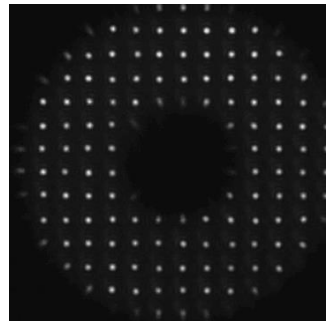
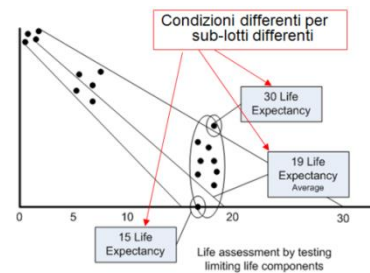
- Reactive materials

## • Materials & New Materials

- Ageing
- Synthesis

## • 3D scan & print

- Obsolescence mitigation
- Improving supply chain
- Risk reduction through mockups
- Reverse engineering



- **MBDA expectations**

- Attitude to innovation and technical excellence
- Passion
- Team spirit

- **MBDA offer to newcomers**

- Exciting environment
- Strong collaboration and growth paths
- Induction programmes (Induction and Technical Foundation Course)
- Continuous learning
- International environment (joint programmes, mobility)

- **Why apply for a job position in MBDA**

- Technical challenges, state of art on different domains
- Dynamic environment open to innovation
- International programmes (EDA, MBDA Group)



*Thanks for your attention*

<https://www.mbdacareers.it/>



CHI SIAMO

POSIZIONI LAVORATIVE

STAGE

CANDIDATURA SPONTANEA

I NOSTRI VALORI

GOVERNANCE

DOVE SIAMO

ACCEDI

**FOCALIZZATI  
VERSO L'INNOVAZIONE**

Innovazione ed eccellenza sono i valori che ci guidano verso le sfide del futuro.

POSIZIONI  
APERTE

OPPORTUNITÀ  
DI STAGE

CANDIDATURE  
SPONTANEE