

MADES



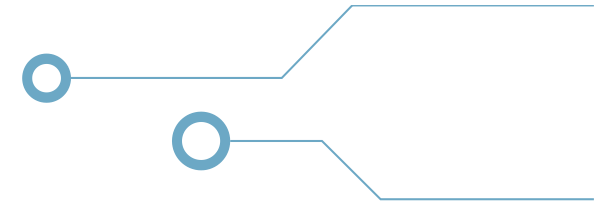
Integrated Electronic Manufacturing Services

25 Right Team
Right Tools
years Right the First Time
Inspiring, Discovering and Creating
Together for over 25 years

www.mades.es

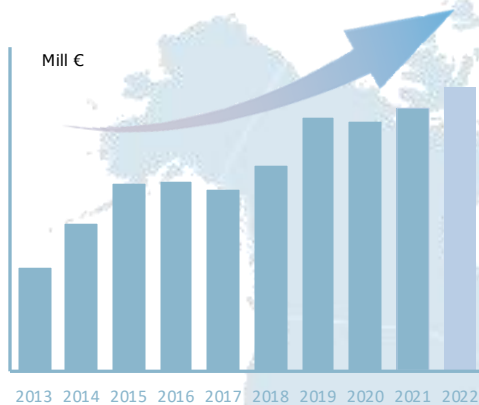
Introducing MADES

- MADES at a glance
- Applications
- Our Services
- Building Customer Trust & Operational Excellence
- Why MADES ?



MADES at a glance

- > 12 % Compound Annual Growth Rate (CAGR)



- > MADES Six Sigma: a process and culture of continuous improvement

How

Where

- > Located at Malaga TechPark, major hub of Technology companies (Malaga, Spain)

When

What

- > Major supplier of system level electronic assemblies
- > Electronic Manufacturing Services
 - > Design From Specs
 - > Industrialization
 - > Manufacturing
 - > Testing & Integration
 - > Lifecycle Support

Who

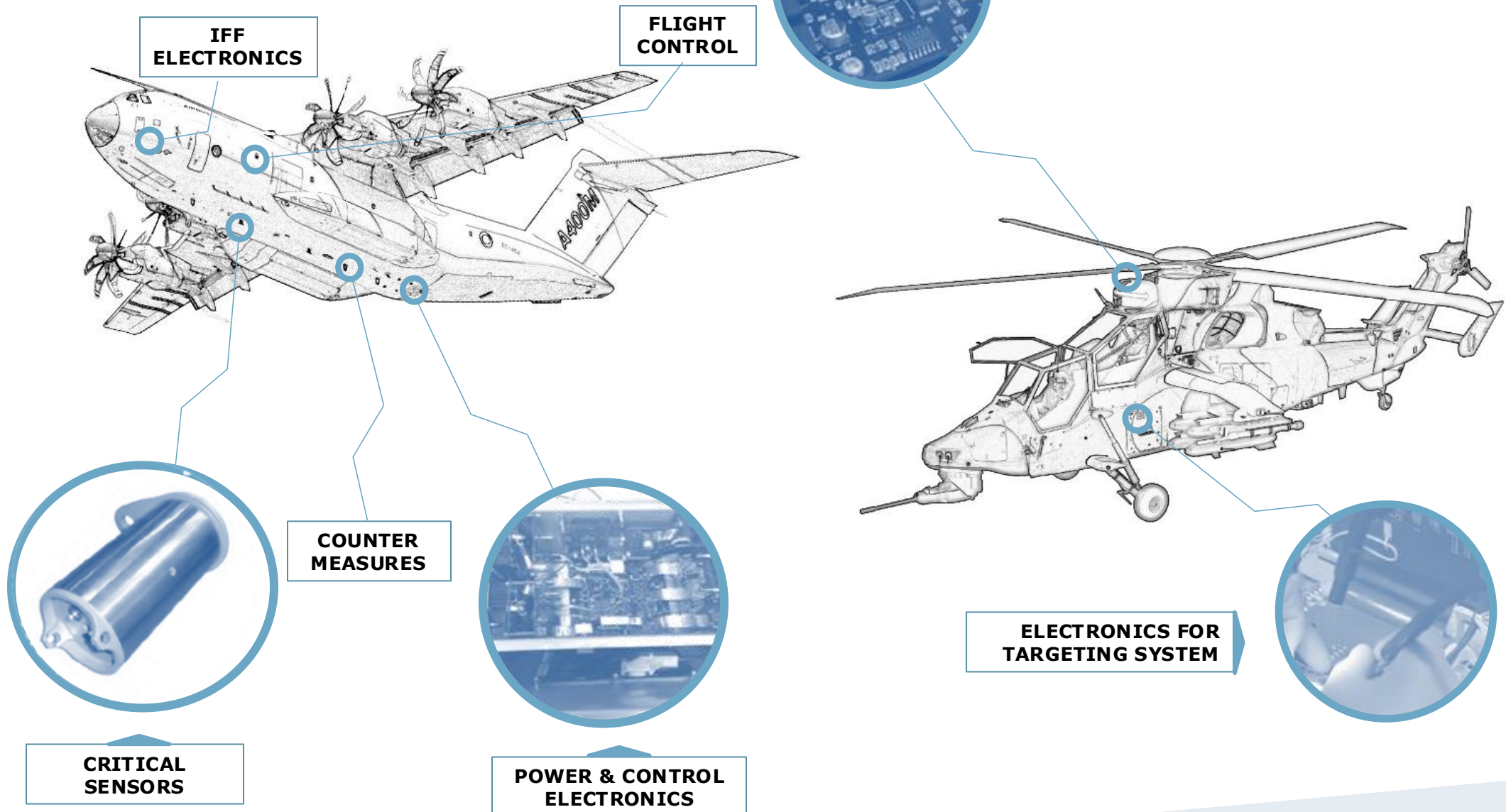
- > Subsidiary of **CICOR Group**
- > More than 120 highly skilled professionals: engineers, technicians and operators

- > 35 years of experience delivering customer solutions
- > Legacy Hughes Aircraft & Raytheon

"Nearly 30 years delivering high reliability electronics"

Applications

Air & Heli-borne electronics

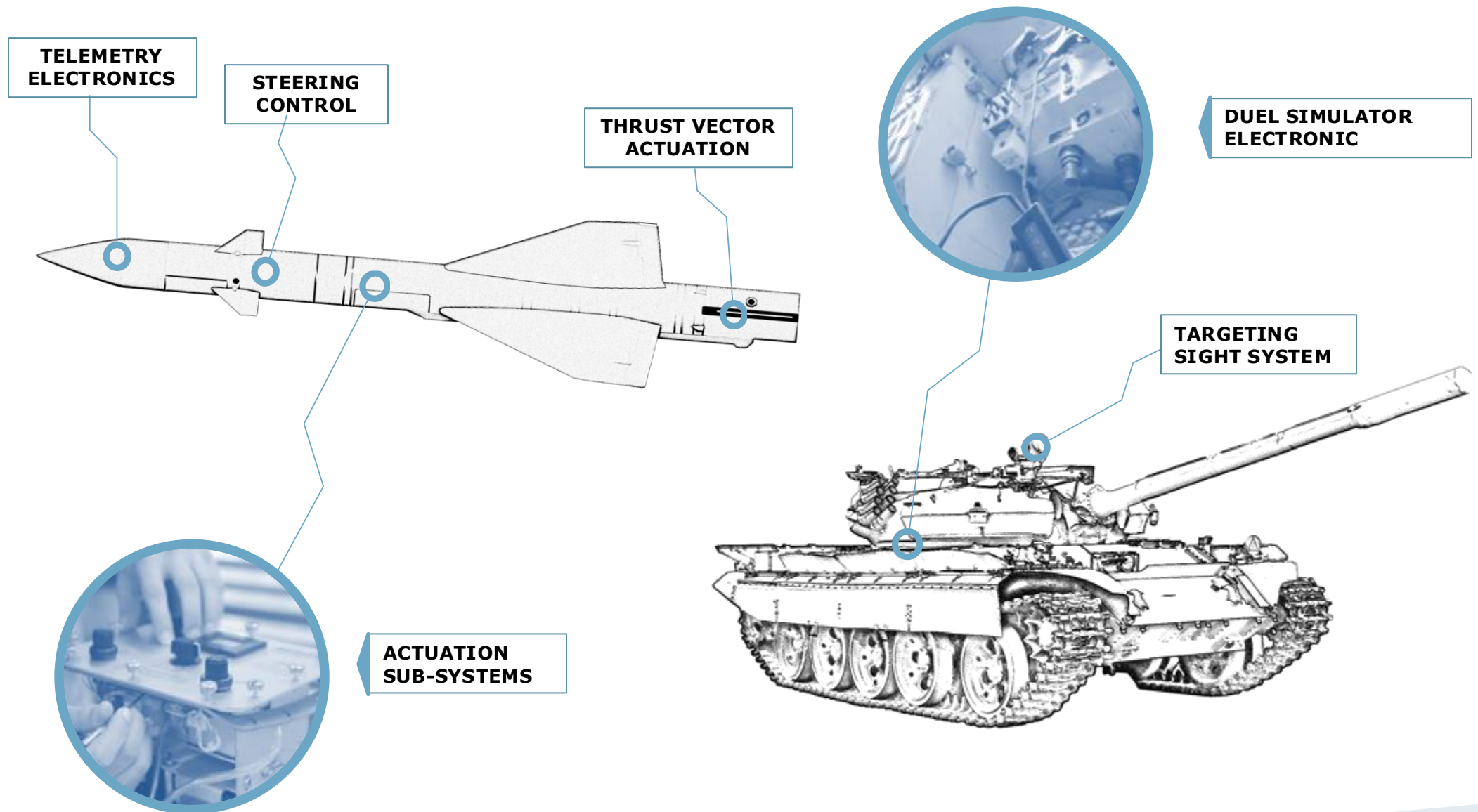


* Actual platforms are examples for explanation purposes.

"Nearly 30 years delivering high reliability electronics"

Applications

Missile & Tactical Surveillance Systems

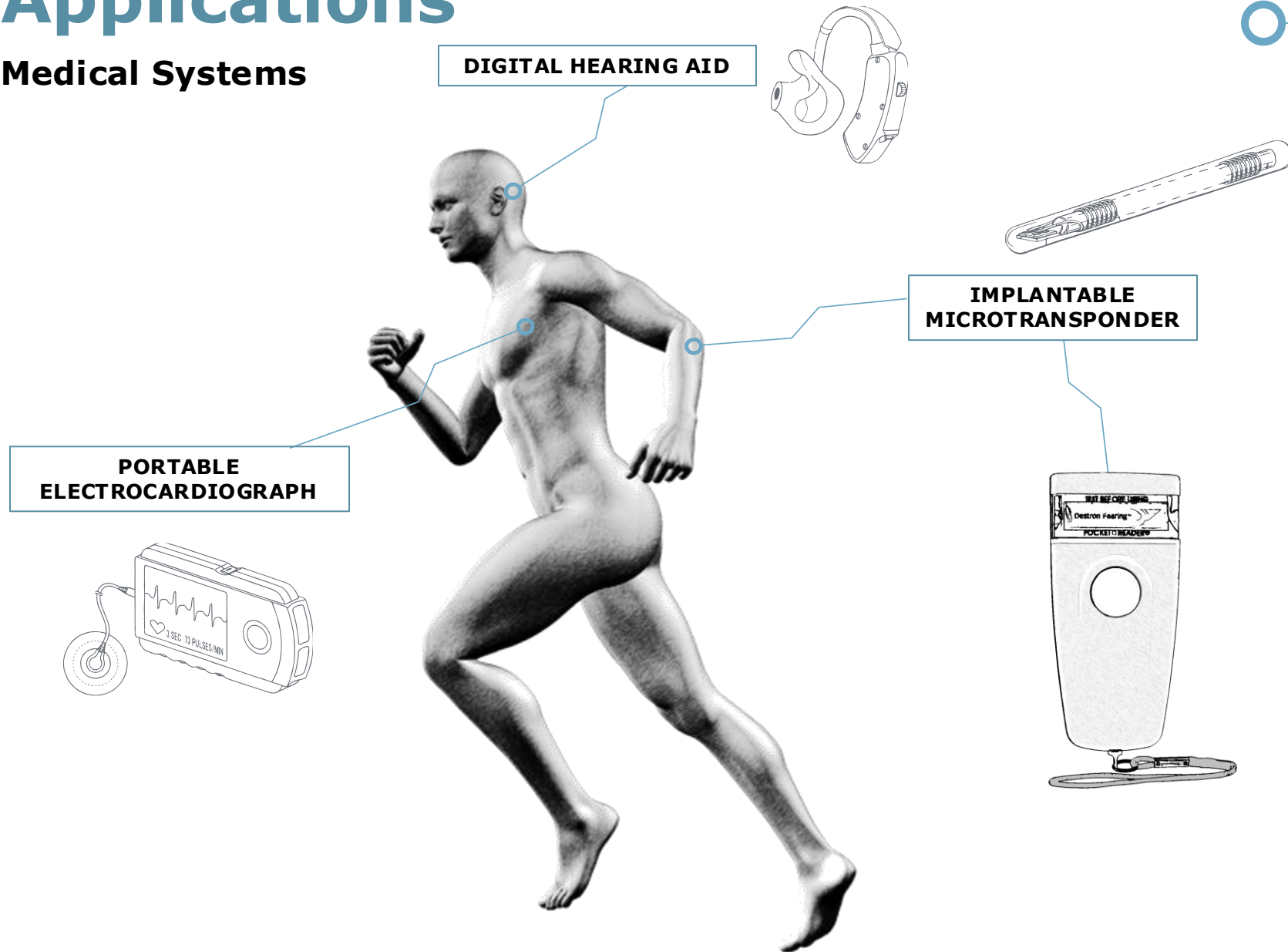


* Actual platforms are examples for explanation purposes.

"Nearly 30 years delivering high reliability electronics"

Applications

Medical Systems

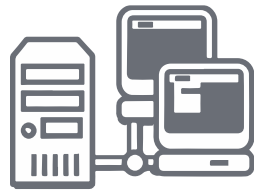


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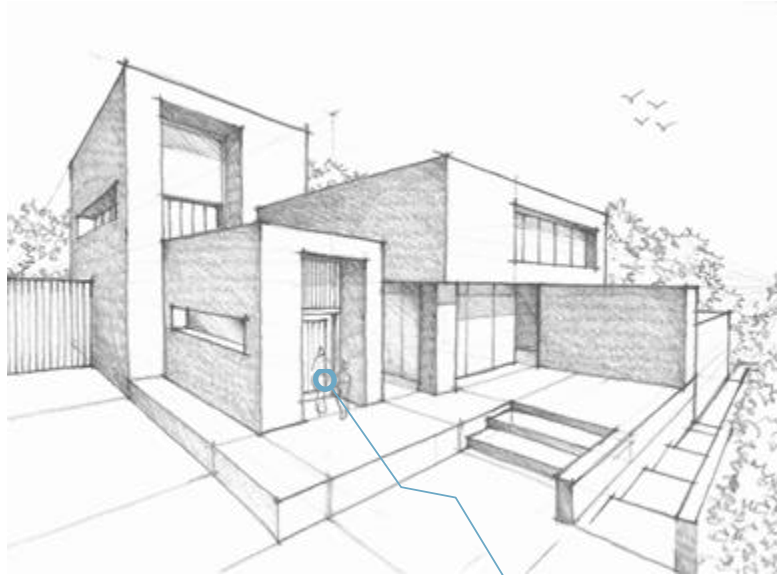
"Nearly 30 years delivering high reliability electronics"

Applications

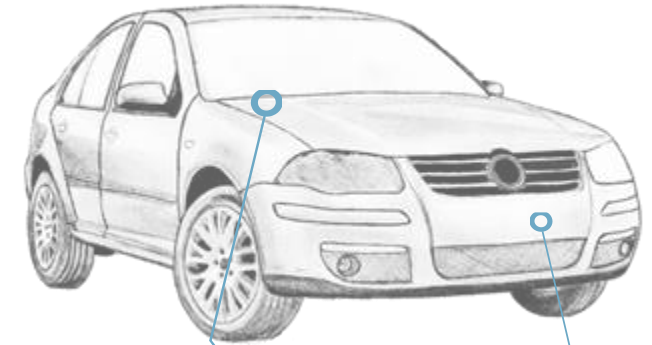
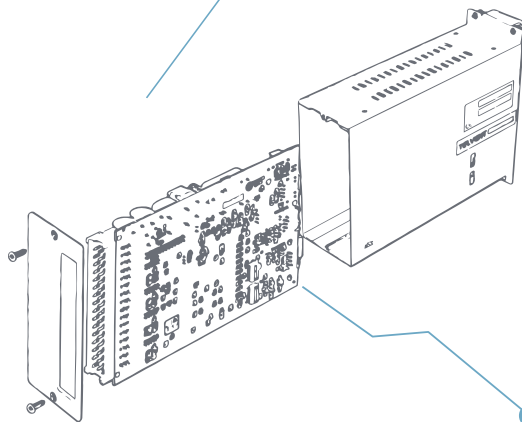
Industrial Systems



**SUPERVISORY
CONTROL & DATA
ACQ. SYSTEMS**

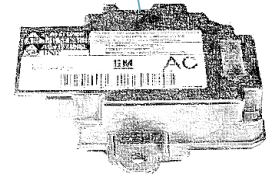
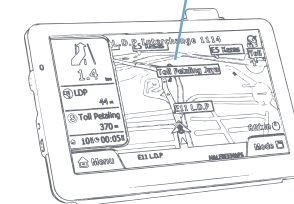


**UTILITY
METERS &
PRE-PAYMENT**



**NAVIGATION
AIDS**

**AIRBAG
CONTROL
MODULES**

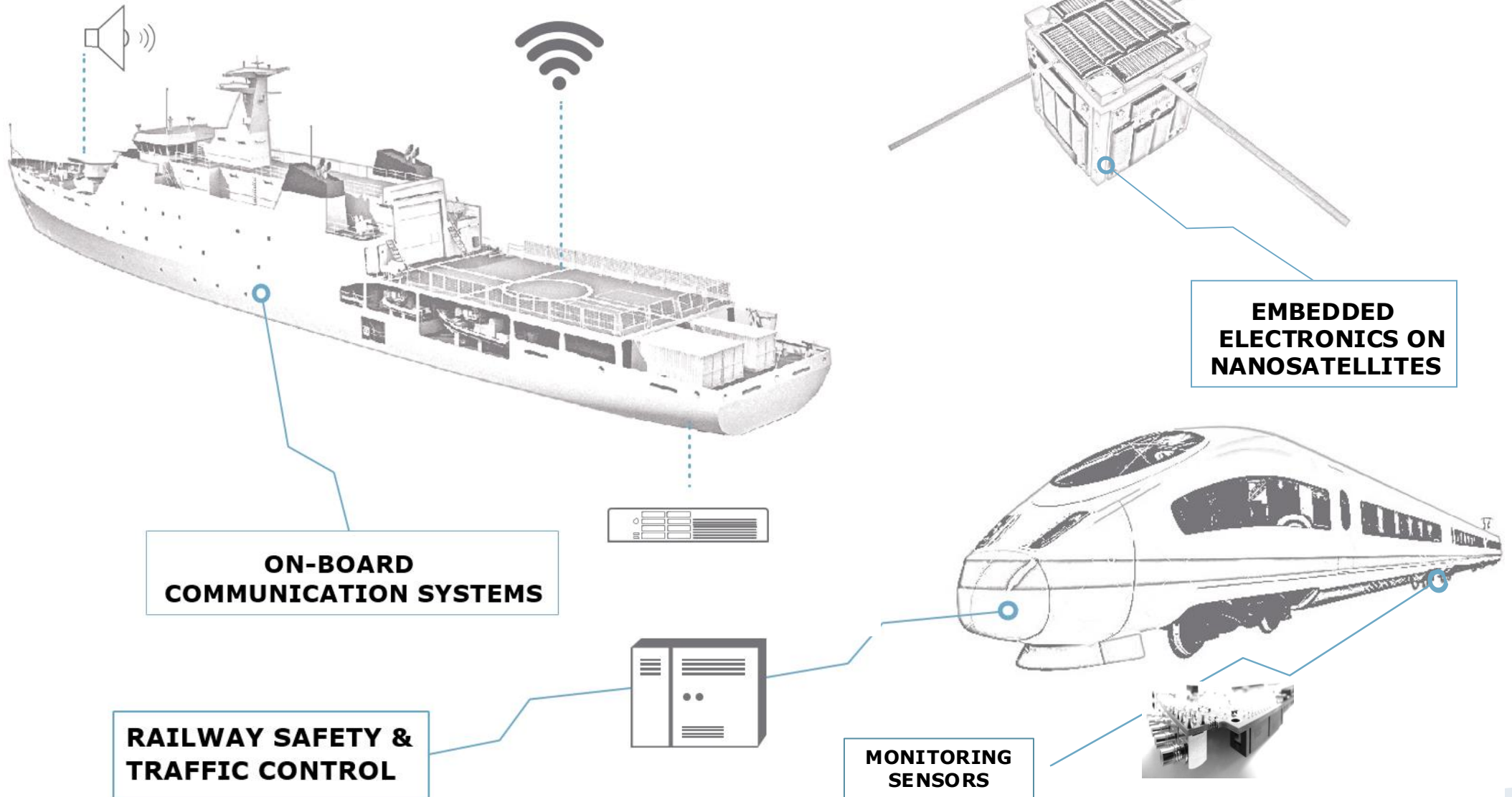


* Actual platforms are examples for explanation purposes.

"Nearly 30 years delivering high reliability electronics"

Applications

Naval, Railway and New Space



* Actual platforms are examples for explanation purposes.

Our Services



Design From Specs



Industrialization



Manufacturing + Testing



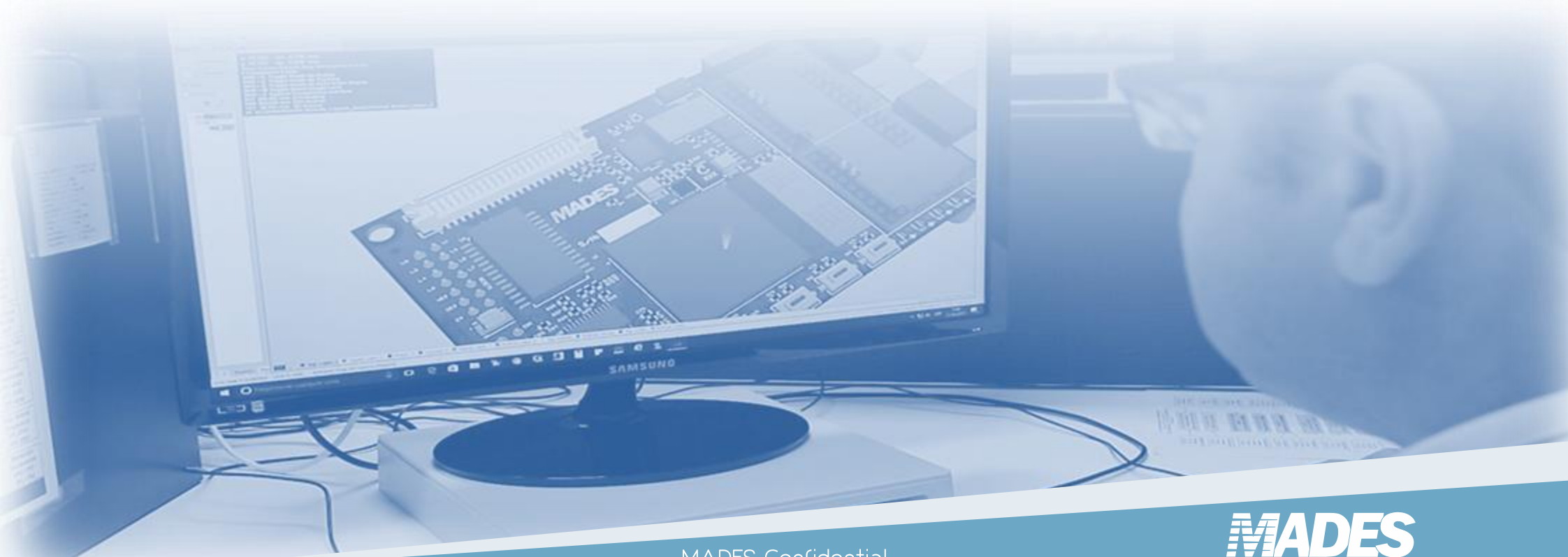
Integration and Other Services

PRODUCT LIFECYCLE SUPPORT

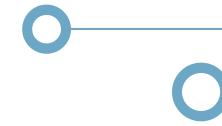
Full Supply Chain Management. Extended Warranty, Obsolescence & Counterfeit contingency, REACH, Repairs & Logistics Support

Development from Specs

- From Specs through detailed Design and prototyping to volume production and life-cycle support
- Design partner integrated with Manufacturing to minimize time to market & cost
- Internal resources & best selected collaborators to optimize manufacturing, testing and product performance



Industrialization



FAST-TO-MARKET From Design to Prototypes & Qualification



Specs



Design



Rapid
Prototyping



Product
Qualification



Industrialization

Manufacturing

- Surface Mount Technology, Convection and Vapor Phase ovens, Wave Soldering,...
- Process Control: IPC trainers, 3D Paste Inspection, 3D Automatic optical Inspection, 3D X-Ray,...
- Waterless cleaning, conformal coating and bonding using different materials and processes
- Leading supplier of Electronics Manufacturing Services



Testing & Integration

PRODUCT RELIABILITY

High frequency testing
High power system testing

PARAMETRIC ELECTRICAL TEST



- In-Circuit Test
- Flying Probe Technology

FUNCTIONAL TEST



- J-Tag Boundary Scan
- Complete systems or CCAs
- General Purpose or Product-Specific customized platform

ENVIRONMENTAL STRESS SCREENING (ESS)



- Wide range of Environmental Screening
- Thermal cycling and shocks
- Stability assurance under humidity conditions

Testing & Integration

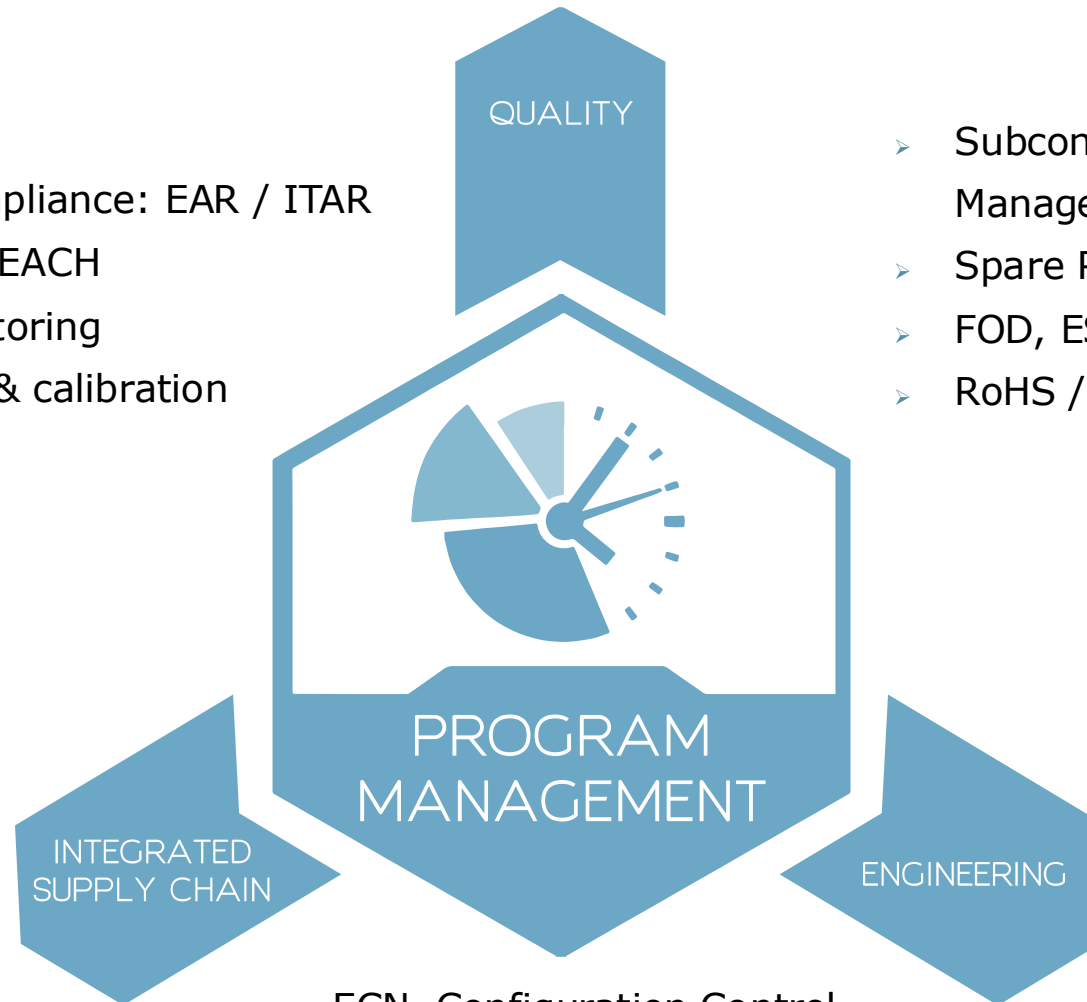
- Customer's Virtual Factory at MADES' premises
- Electro-mechanical Assemblies
- Complete Box-Build - Cables & Harnesses
- Development of custom-made equipment & Special Processes Automatization



Product Lifecycle Support

- Counterfeit
- Import/Export Compliance: EAR / ITAR
- Conflict Minerals, REACH
- Obsolescence Monitoring
- Equipment control & calibration

- Subcontract Development and Management
- Spare Parts, Repairs
- FOD, ESD & MSL Programs
- RoHS / No RoHS Control



- ECN, Configuration Control
- Production Planning
- Traceability
- Design Upgrade
- Mission Assurance Plan

“Tailored solutions that best adapt to each customer”

Program Management



Project Planning

Scope Definition

Cost Effectiveness



Balanced Resources

Record Time

Risk Management

Operational Excellence

- Center of Excellence for Electronic Manufacturing Services
- State-of-the-art technology and continuous investment in talent and R&D
- National and International Operational Excellence



Demonstrated Performance



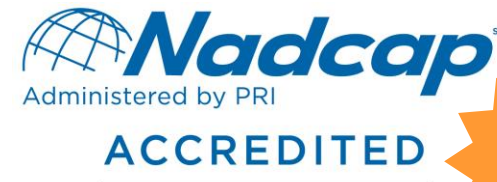
ISO 9001
Since: 1994



AS9100
2009



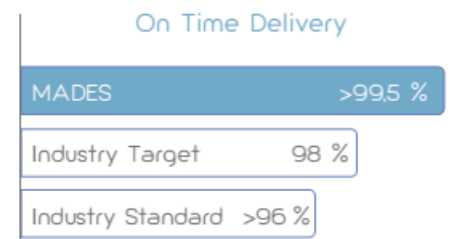
NATO AQAP 2110
2009



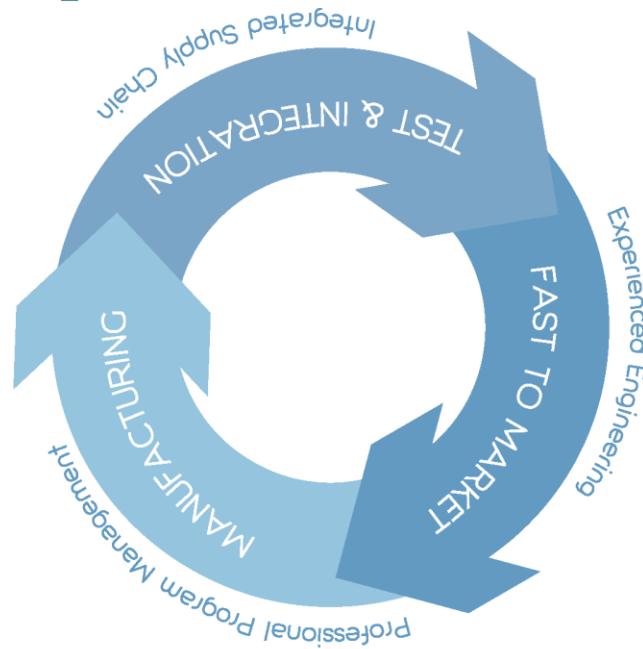
2014

2024

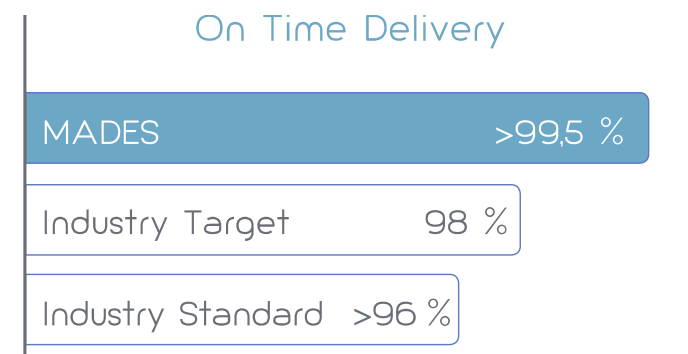
ISO 14001 – Environmental • ISO 45001 – Health&Safety • AEO – Authorized Economic Operator



Why **MADES**?



- Mature and strong processes, compliant with industry policies and certifications
- Proven experience in major multinational programs for over 30 years



MADES

Strategically located in the Malaga TechPark, an innovation and development cluster in Malaga.

- Pablo Picasso international airport (AGP)
- High Speed train hub
- Malaga port

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