

MADES



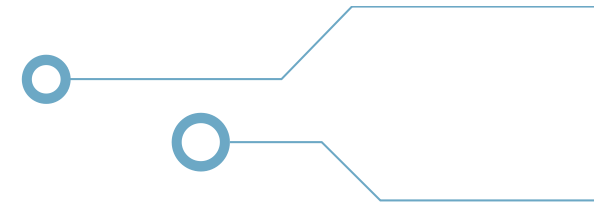
Integrated Electronic Manufacturing Services

25 Right Team
Right Tools
years Right the First Time

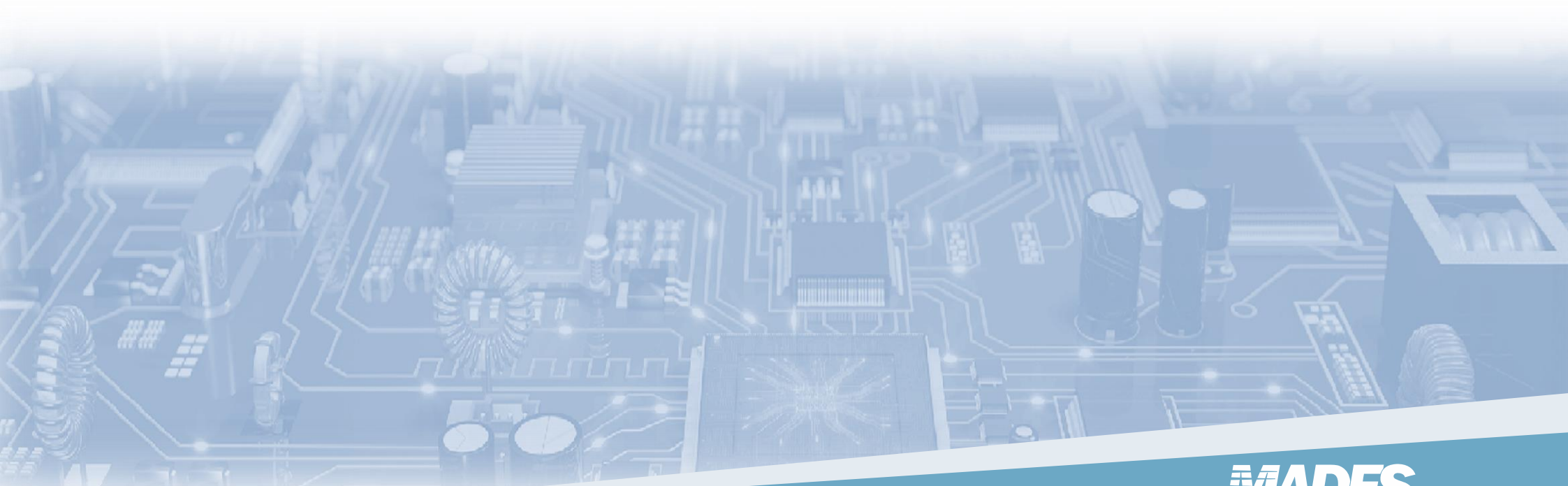
Inspiring, Discovering and Creating
Together for over 25 years

www.mades.es

Introducing MADES



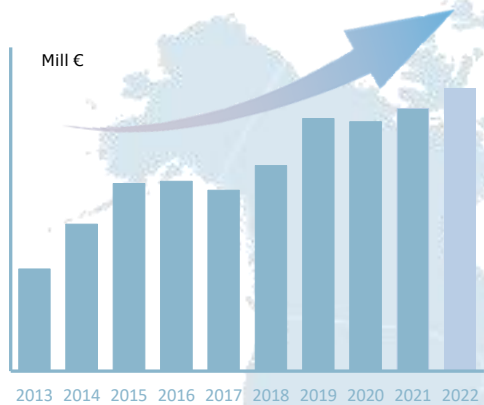
- MADES at a glance
- Applications
- Our Services
- Building Customer Trust & Operational Excellence
- Why MADES ?



“Not just manufacturing”

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

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

- > Over 30 years of experience delivering customer solutions

"Starting with customer success in mind"

About LATECOERE

Leading Tier 1 aerospace manufacturer for all major aircraft OEMs



5,497 employees
as of December 31, 2023

- 1-50 employees
- 51-300 employees
- 301-1,100 employees
- Over 1,100 employees

REVENUES
€ 615 M
+32% /2022

+35% /2022

"Starting with customer success in mind"

About Latecoere

Leading Tier 1 aerospace manufacturer for all major aircraft OEMs

2023 KEY FIGURES



2,000+
DOORS



81,000+
HARNESSES
FOR AERONAUTICS



1,800+
ONBOARD
EQUIPMENT
(CAMERAS, IFE
MONITORS...)



200+
MAIN FUSELAGES



5,800+
RACKS



797,400+
ELECTRONIC
ASSEMBLIES
AND SYSTEMS
(MADES)



1,100+
WING STRUCTURES
(OUTBOARD WING, SPOILERS,
FLAP TRACK FAIRINGS...)



24,000+
COCKPIT PANELS



500+
HARNESSES
IN ORBIT
(SATELLITES,
LAUNCHERS AND ISS
CARGO CARRIERS)



300+
OTHER
STRUCTURES



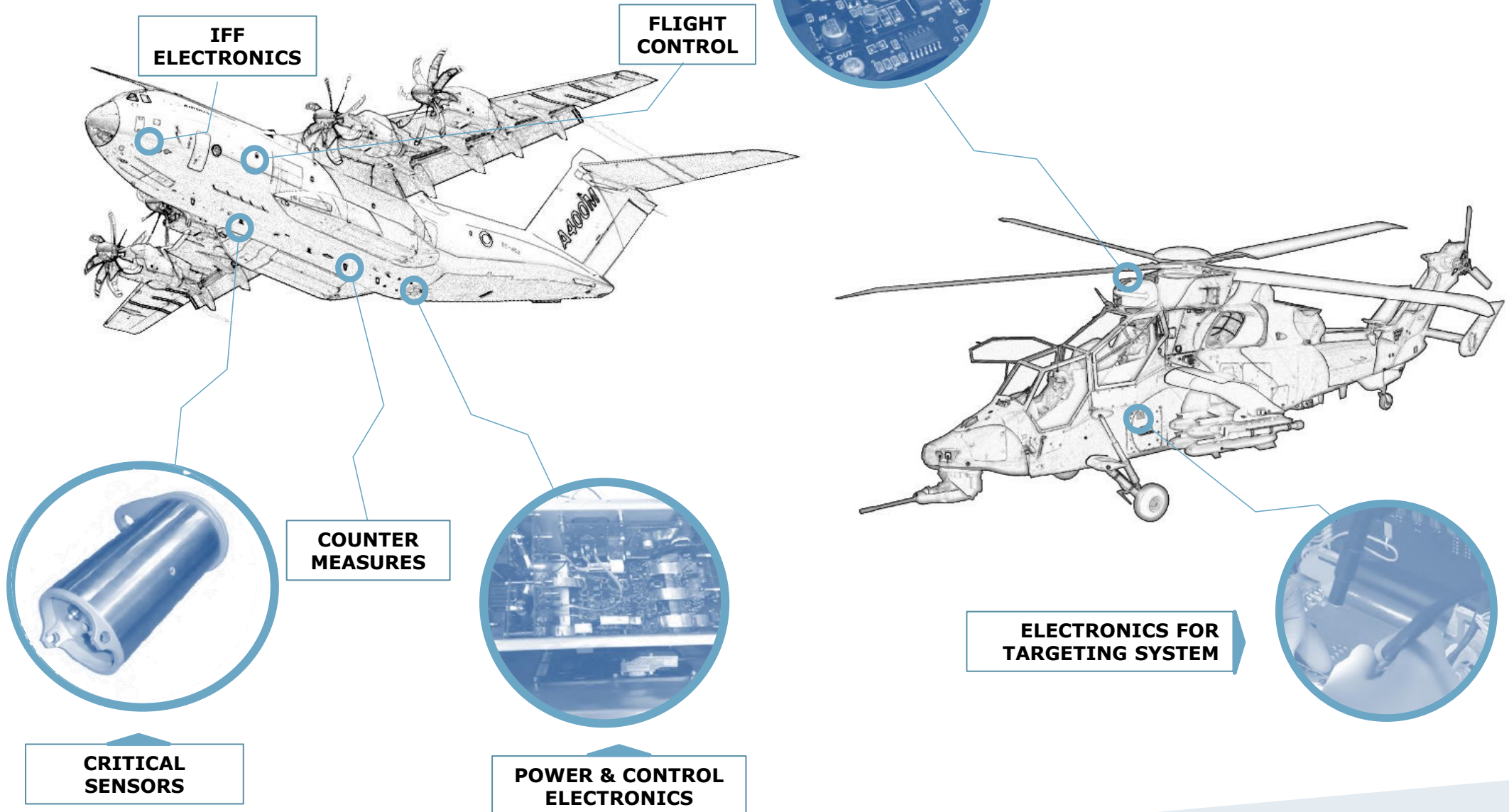
121,400+
RODS (TECHNICAL
AIRBORNE COMPONENTS)



"Nearly 30 years delivering high reliability electronics"

Applications

Air & Heli-borne electronics

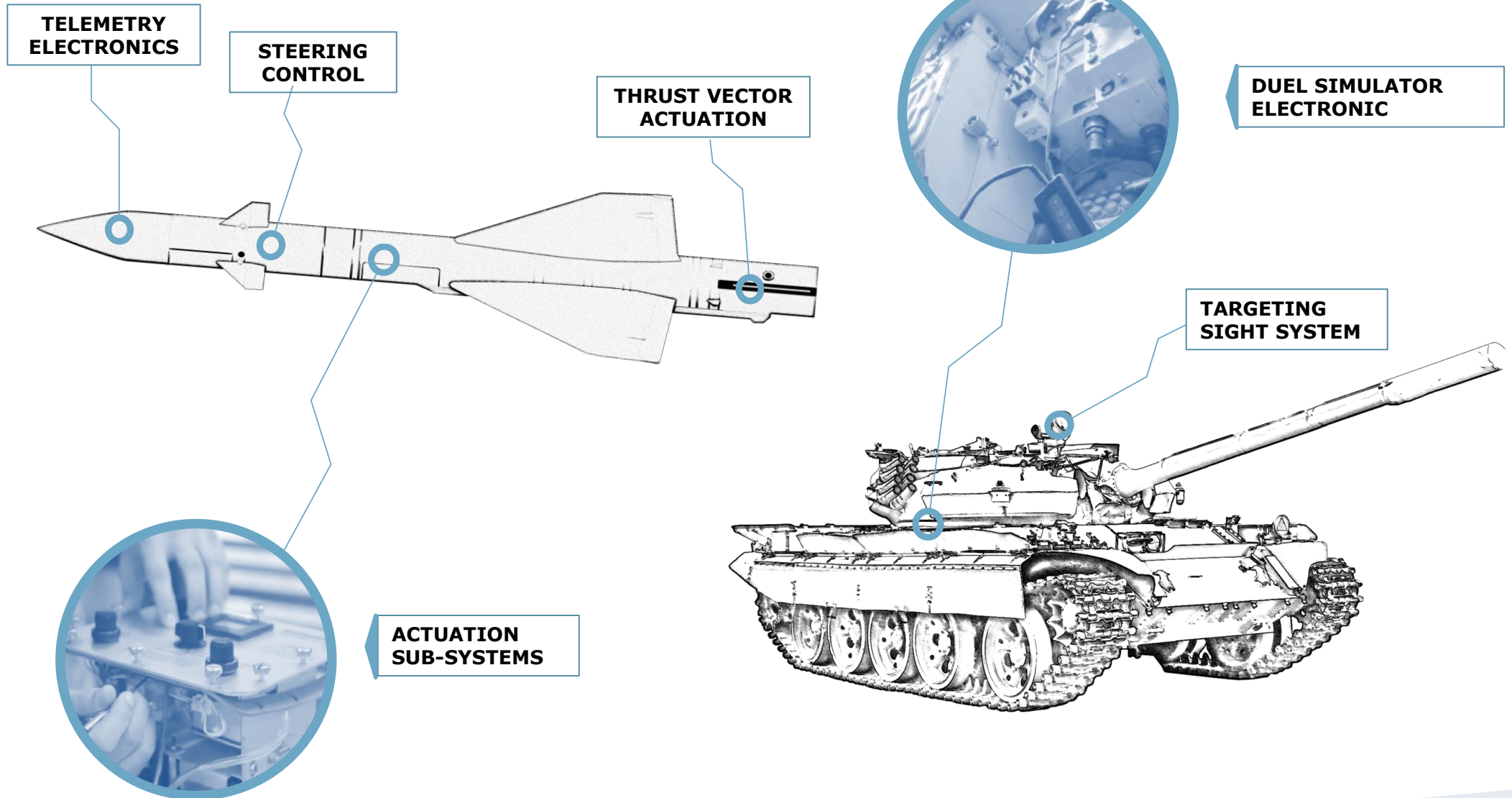


* Actual platforms are examples for explanation purposes.

“Nearly 30 years delivering high reliability electronics”

Applications

Missile & Tactical Surveillance Systems

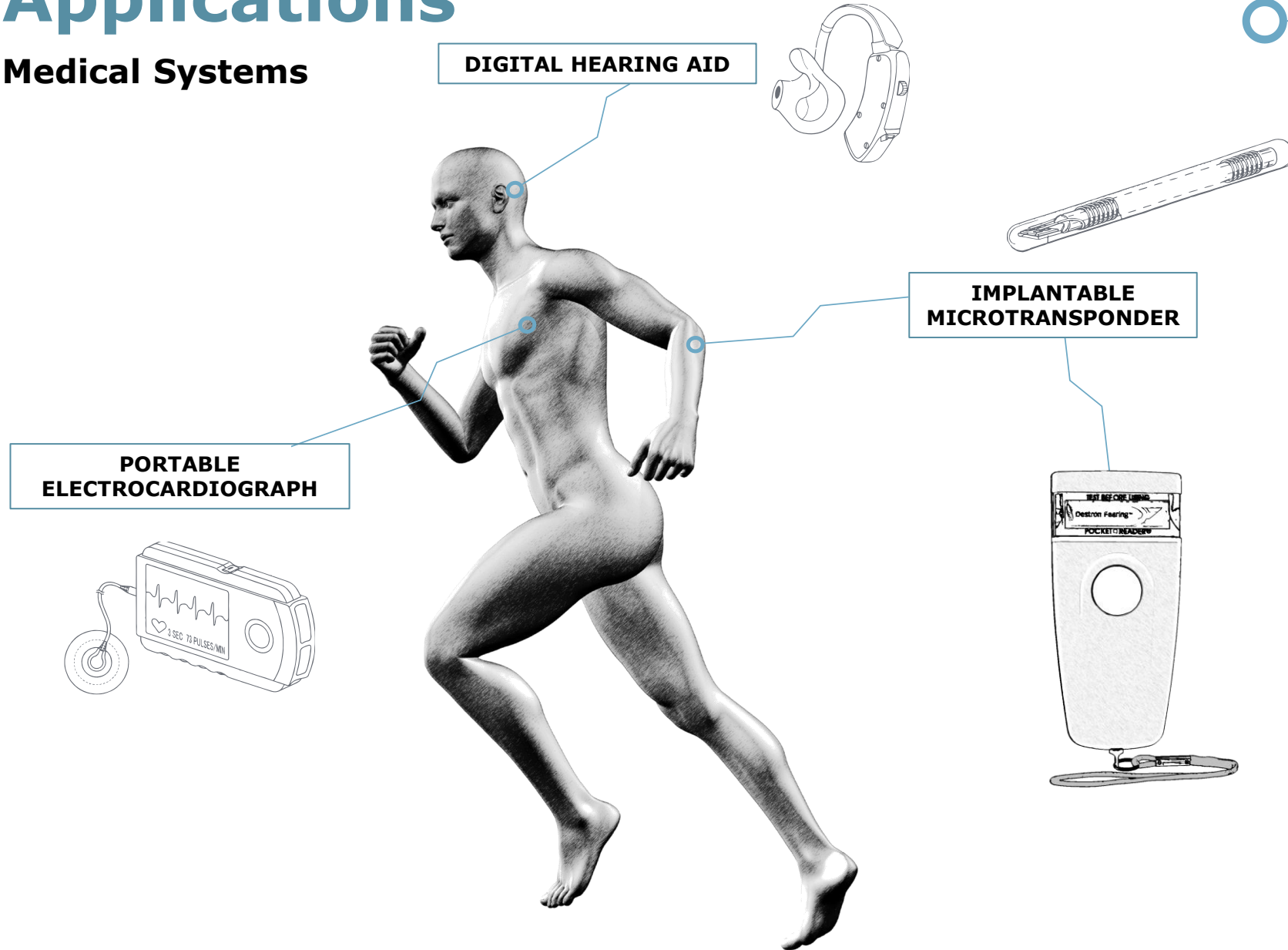


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“Nearly 30 years delivering high reliability electronics”

Applications

Medical Systems

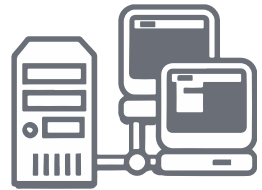


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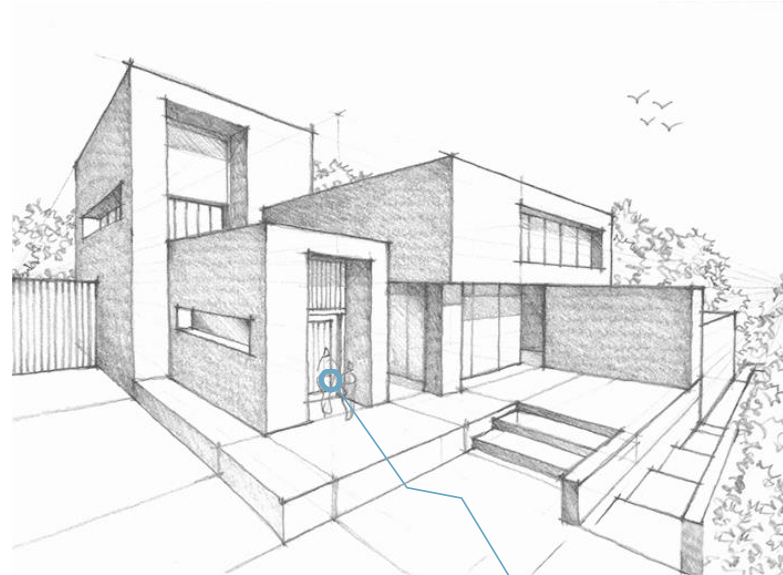
"Nearly 30 years delivering high reliability electronics"

Applications

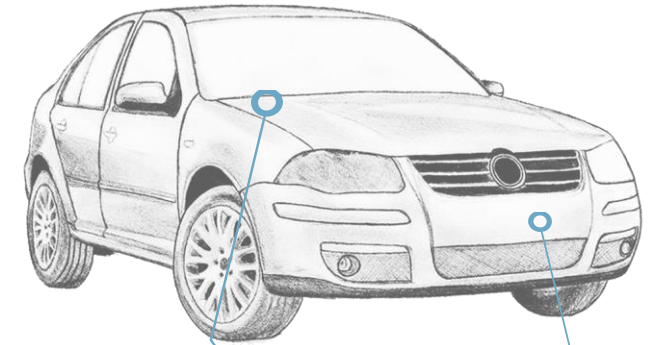
Industrial Systems



**SUPERVISORY
CONTROL & DATA
ACQ. SYSTEMS**

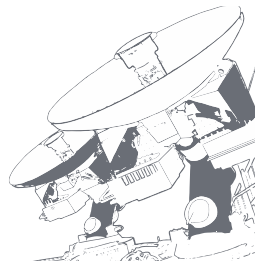
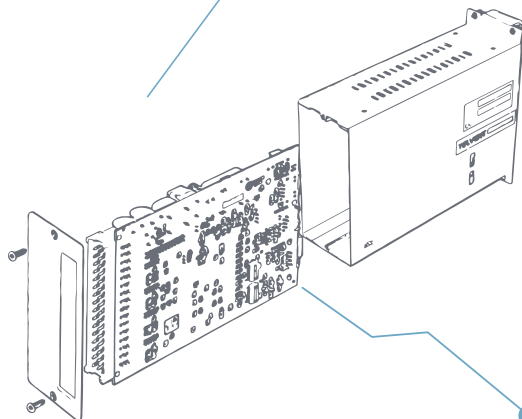
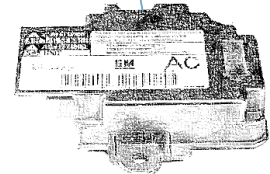


**UTILITY
METERS &
PRE-PAYMENT**



**NAVIGATION
AIDS**

**AIRBAG
CONTROL
MODULES**

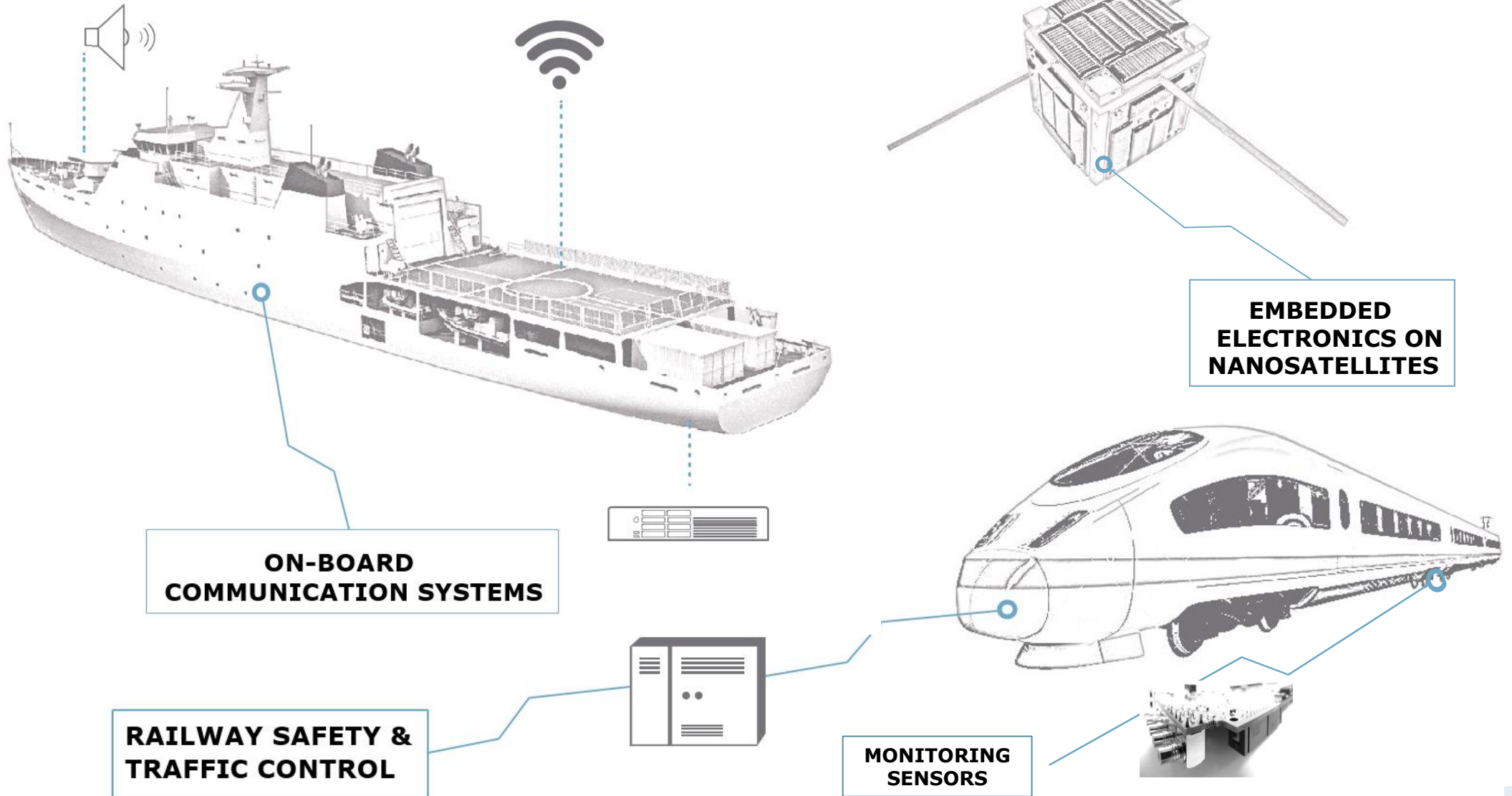


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"Nearly 30 years delivering high reliability electronics"

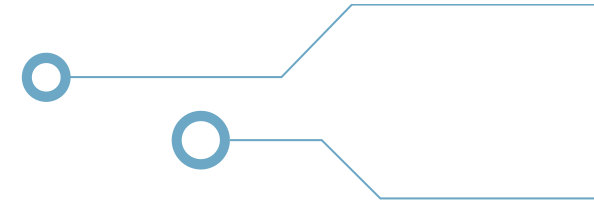
Applications

Naval, Railway and New Space



* Actual platforms are examples for explanation purposes.

“Bringing your products to life”



Our Services



Design From Specs



Industrialization



Manufacturing + Testing

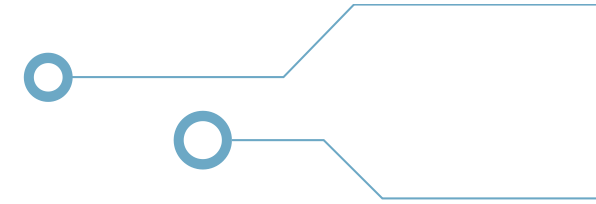


Integration and Other Services

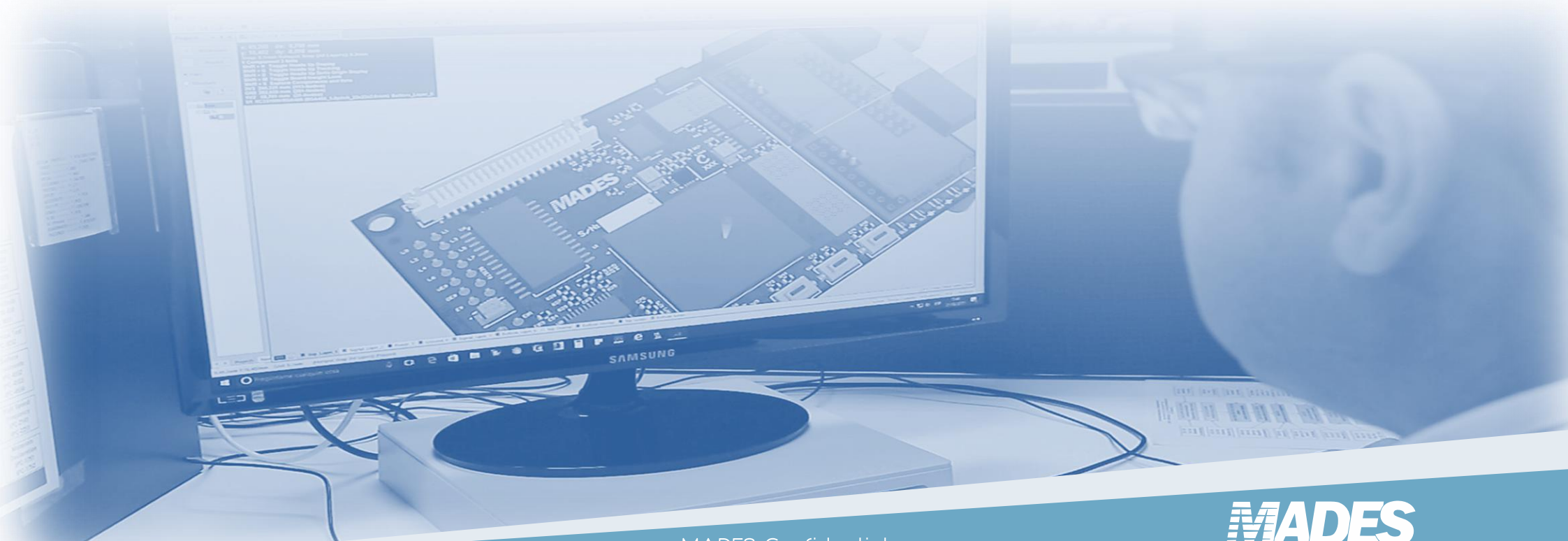
PRODUCT LIFECYCLE SUPPORT

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

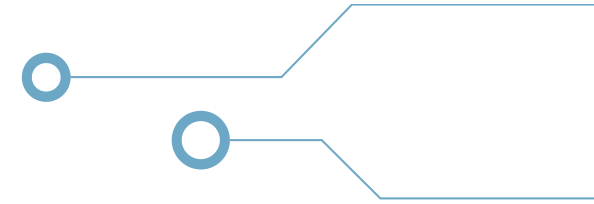
Development from Specs



- 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



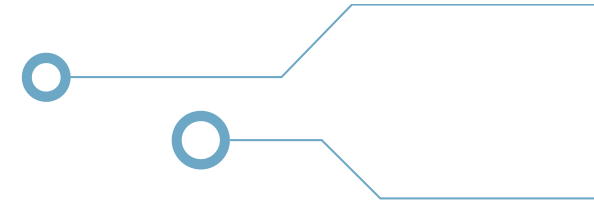
Industrialization

Manufacturing

- Surface Mount Technology, Convection and Vapour Phase ovens, Wave Soldering,...
- Control de Procesos: 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



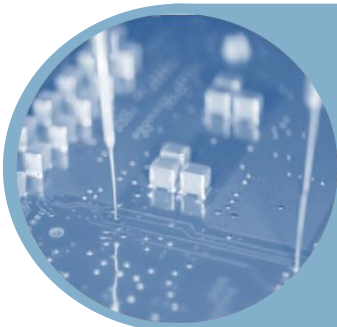
Testing & Integration



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)

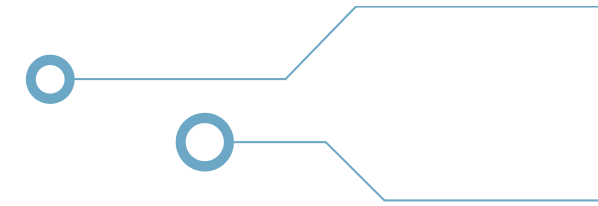


- Wide range of Environmental Screening
- Thermal cycling and shocks
- Stability assurance under humidity conditions

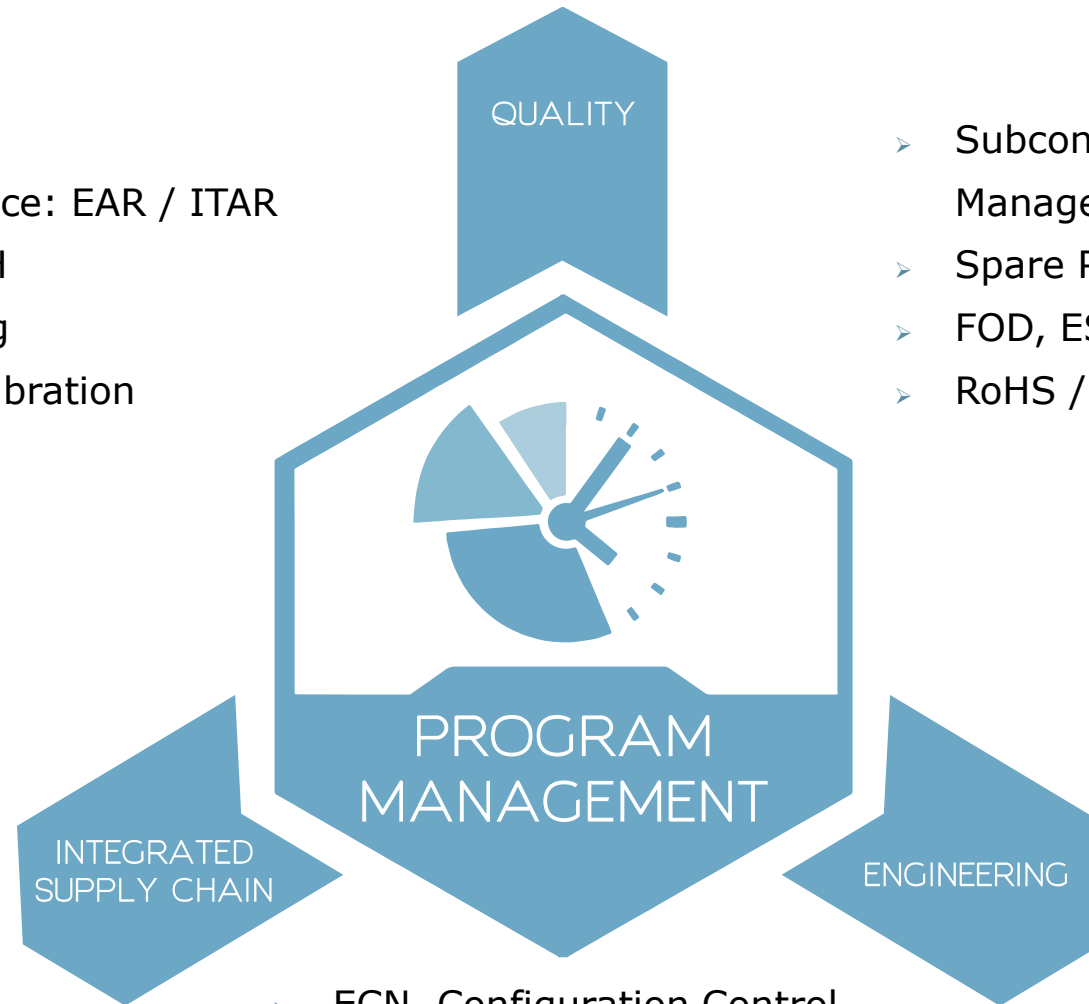
Testing & Integration

- 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

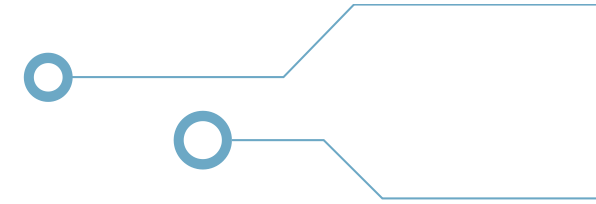


- Counterfeit
- Import/Export Compliance: EAR / ITAR
- Conflict Minerals, REACH
- Obsolescence Monitoring
- Equipment control & calibration

- 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

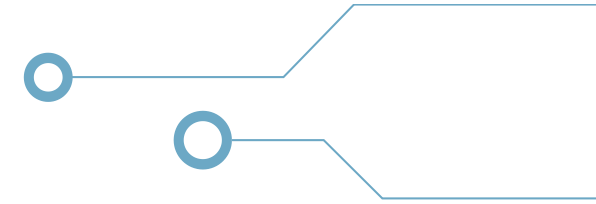


Balanced Resources

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



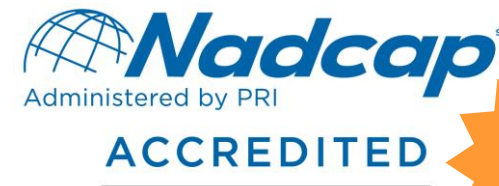
ISO 9001
Since: 1994



AS9100
2009



NATO AQAP 2110
2009

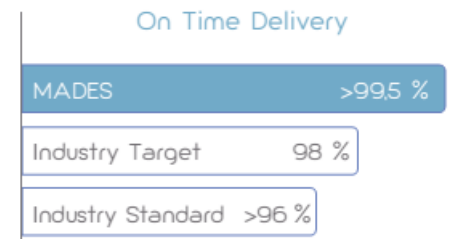


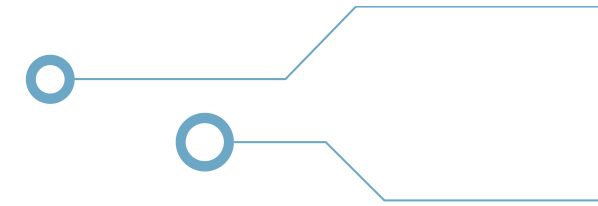
2014



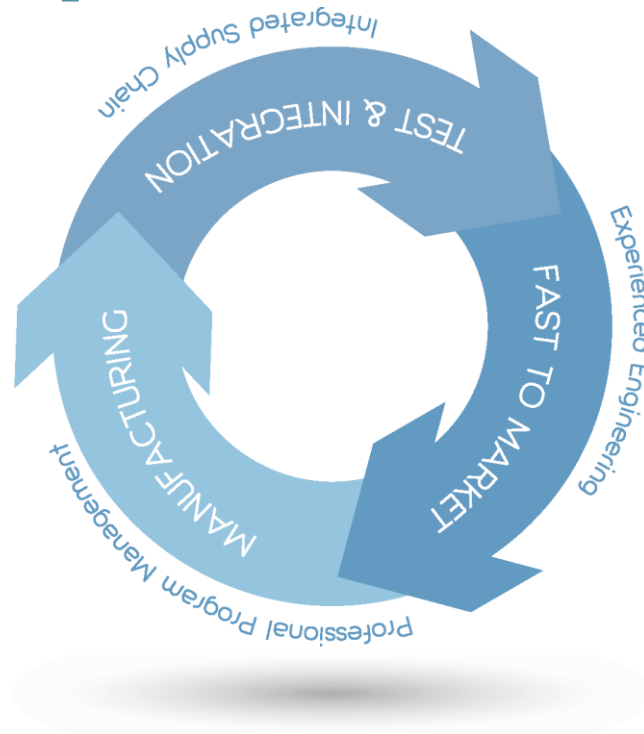
2024

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

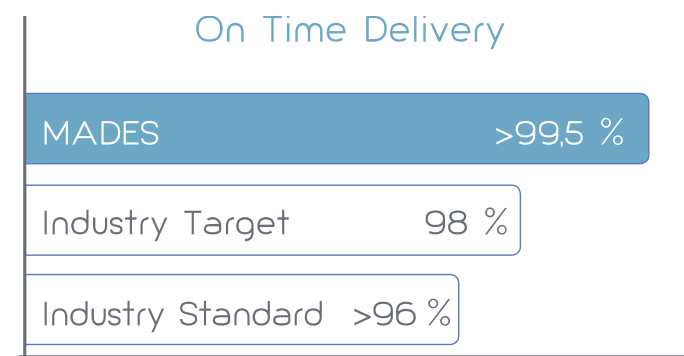




Why **MADES**?



- 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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