MADES







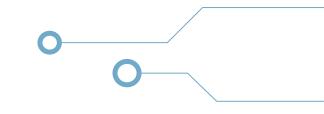
Electronic Manufacturing Services



www.mades.es

Introducing MADES

- o Mades at a glance
- o Applications
- o Our Services
- o Building Customer Trust & Operational Excellence
- o Why Mades





"Not just manufacturing"

MADES at a glance

> 13 percent Compound Annual Growth Rate (CAGR)

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





Technology Park of Andalusia (PTA) in Malaga, Spain







When



What

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

Who

Where

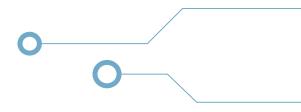
25 years of experience delivering customer solutions

- > More than 100 highly skilled professionals: engineers, technicians and operators
- > Subsidiary of AIAC





About AIAC





Over 8,500 employees



\$1.6B in aggregate revenues



Industrial porfolio of companies

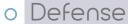


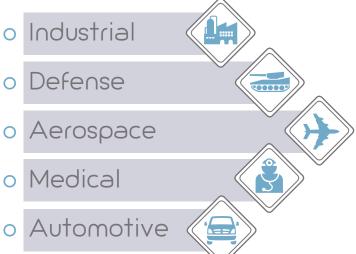
years track record

PROCESSES

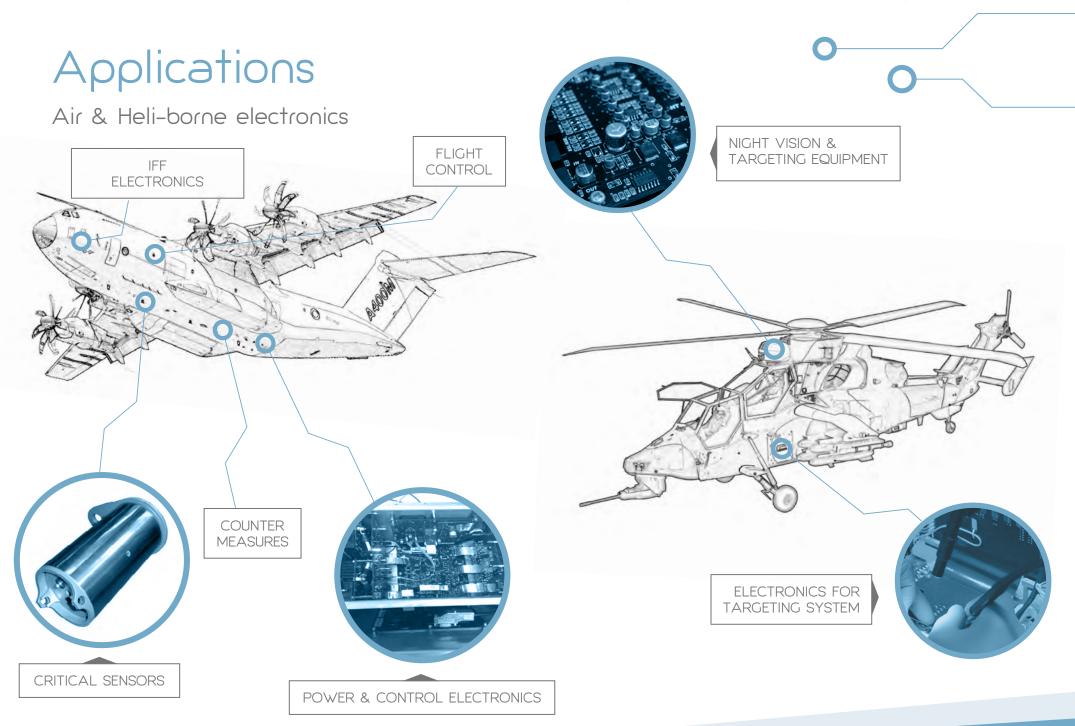
- o Electronics
- Aerostructures
- o Metal Work
- o Cables
- o Pharma

MARKETS







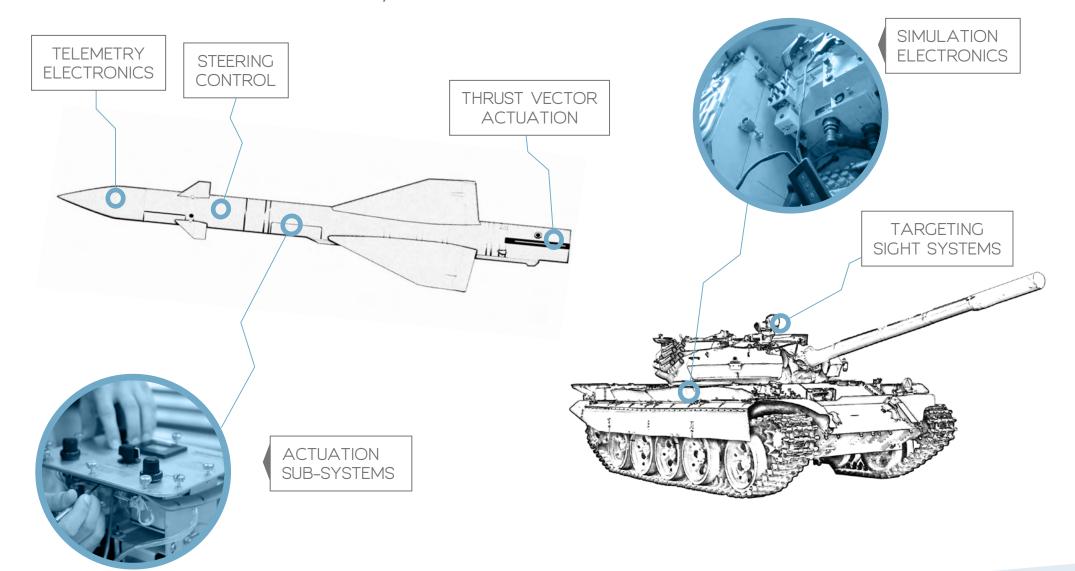


^{*} Actual platforms are examples for explanation purposes.



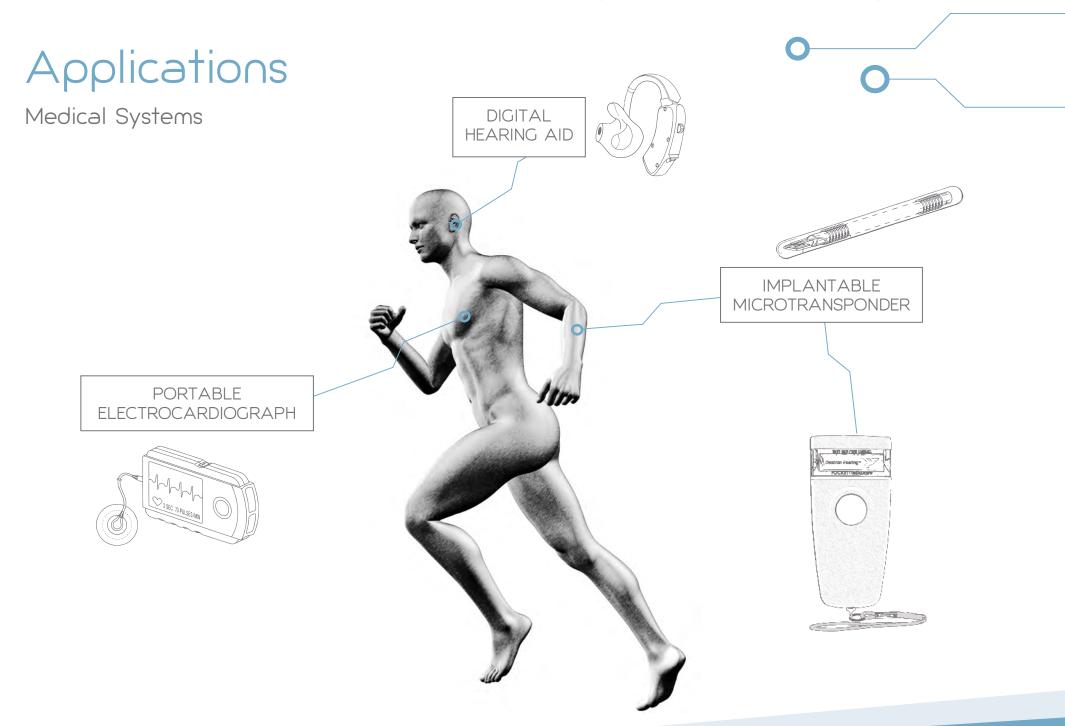
Applications

Missile & Tactical Surveillance Systems



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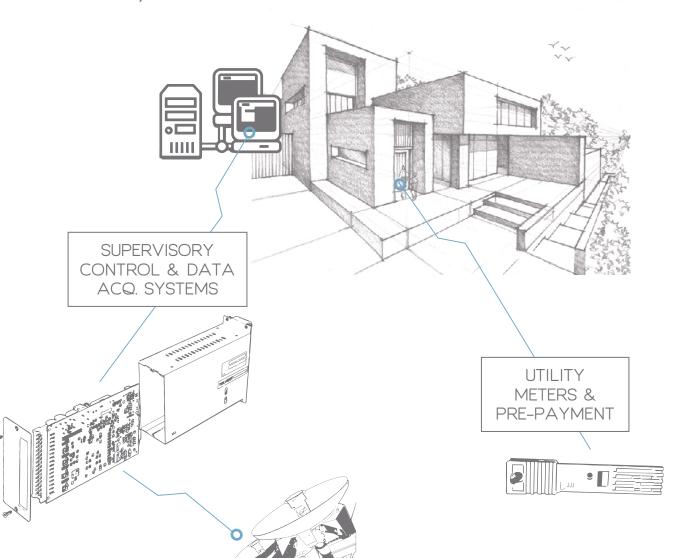


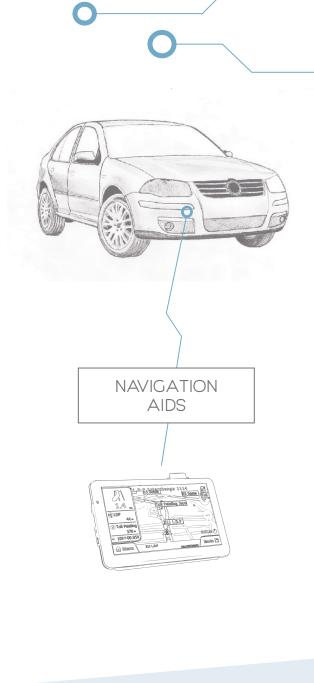




Applications

Industrial Systems

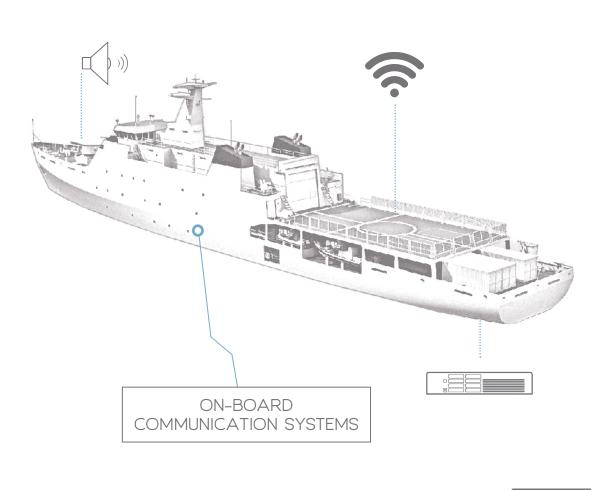




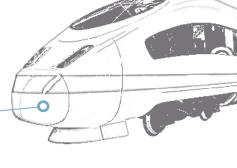


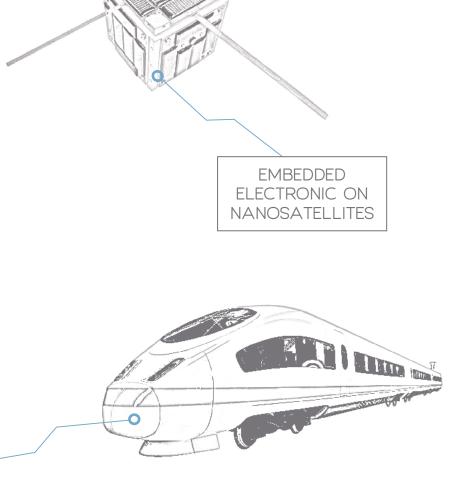
Applications

Other sectors



RAILWAY TRAFFIC CONTROL







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Our Services





Industrialization



Manufacturing + Testing



Integration and other services

PRODUCT LIFECYCLE SUPPORT

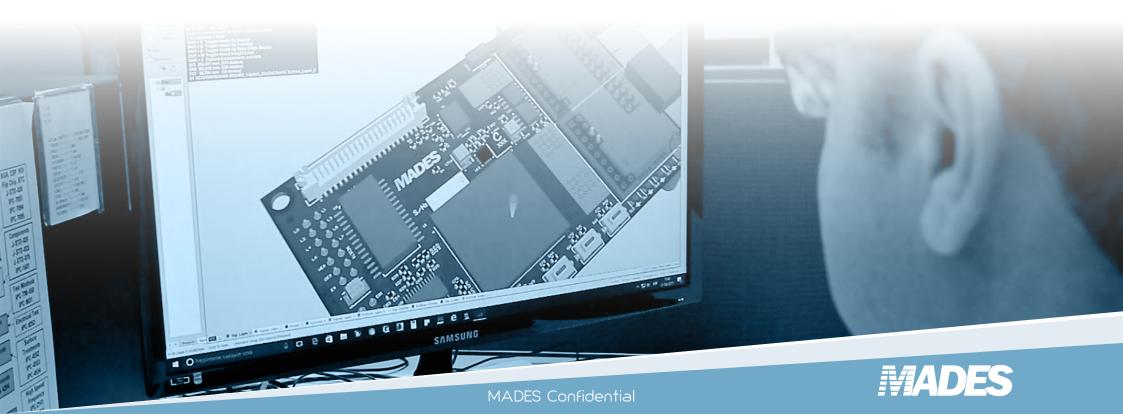
Full Supply Chain Management. Extended Warranty, Obsolescence & Counterfeit contingency, REACH, Repairs & Logistics Support



Development from Specs



- o From Specs through detailed Design and prototyping to volume production and life-cycle support
- O Design partner integrated with Manufacturing to minimise time to market & cost
- Internal resources & best selected collaborators to optimise manufacturing, testingand product performance



Industrialization



FAST-TO-MARKET

From Design to Prototypes & Qualification











Specs

Design

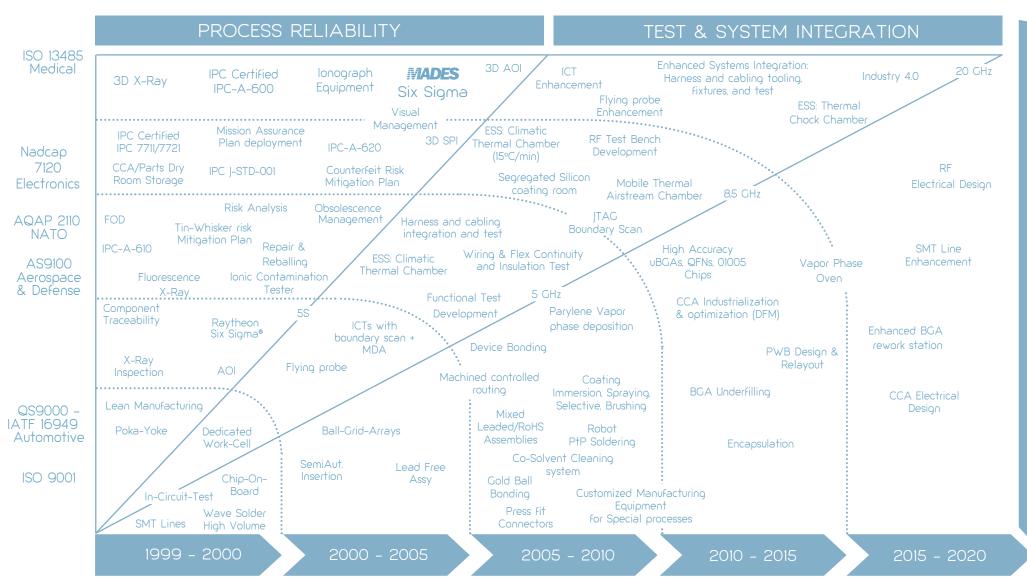
Rapid Prototypind Product Qualification

INDUSTRIALIZATION



Manufacturing





Testing & Integration



PRODUCT RELIABILITY

High frequency testing / High power system testing

PARAMETRIC ELECTRICAL TEST



- In-Circuit Test (Bed of Nails)
- Flying Probe Testing for rapid feedback



FUNCTIONAL TEST

- J-Tag Boundary Scan
- Functional testing of CCAs or complete systems
- Gral. Purpose or Product– Specific customized platform

ENVIRONMENTAL STRESS SCREANING (ESS)



Wide scope of ESS:

- Thermal Cycling and Shocks
- Vibrations test at system level
- Stability assurance under Humidity



"Bringing your products to life"

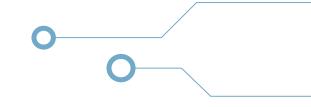
Testing & Integration

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



Program Management



Project Planning



Risk Management



Building Customer Trust



Examples of long-term customer relationships



- + 24 Years
- + 105 Million Transponders

USA & EU



- + 23 Years
- + 23 Million Electricity keymeters

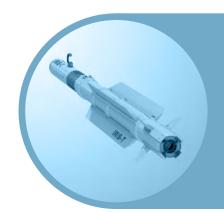
UK



- + 20 Years
- + 600 Thousand

Automotive Navigation Aids

EU & USA



- + 15 Years
- + 20 Thousand

Actuation Systems

EU & USA



Operational Excellence

- 0
- o Center of Excellence for Electronic Manufacturing Services
- o State-of-the-art technology and continuous investment in talent and R&D
- o Member of associations focused on Operational Excellence





















Quality Certifications

- o ISO 9001
- Nadcap 7120 Electronics
- O NATO AQAP 2110
- o EN9100 Aerospace and Defense
- Customer Special Process Facility Qualified
- o IATF 16949 Automotive
- o ISO 13485* Medical











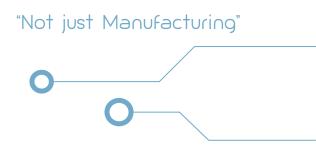




[&]quot;High reliability, always"

 $^{^{\}star}$ MADES manufacturing processes and Quality System are aligned with requirements of ISO13485







- o Mature and strong processes, compliant with industry policies and certifications
- O Proven experience in major multinational programs for more than 25 years











Strategically located in the Technology

Park of Andalucía (PTA), an innovation and

