



# AI and Robotics for Smart Manufacturing

## DFA Trial Deep Dive

27-10-2021

# Agenda

- ▶ 12:00h Introduction to the session
- ▶ 12:10h Challenges and opportunities for AI & robotics in smart manufacturing
- ▶ 12:20h Robotnik: Autonomous mobile robots for industrial applications
- ▶ 12:30h AI for logistics robotics
- ▶ 12:50h Questions and answers
- ▶ 13:00h End of the session



Daniel Calvo  
Head of AI, Data & Robotics R&D

**Atos**



Guillem Garí  
R&D engineer

**Robotnik**



Jorge Rodríguez  
Head of Manufacturing R&D

**Atos**



We are the global leader in secure and decarbonized digital.













Supported by the talent and diversity of **105,000 employees** in **71 countries**, we generate an annual revenue of **€11.2 billion**.

We offer our clients a range of market-leading **digital solutions** and **products** alongside **consultancy** services, **digital security** and **decarbonization** offerings.



# Manufacturing - Huge Market opportunity

|  |   |  |   |  |  |
|--|---|--|---|--|--|
| <p><b>Sub-Markets</b><br/>(Market size*)</p> | <p><b>AUTOMOTIVE</b></p>  <p><b>€ 20bn</b></p> | <p><b>CPG / F&amp;B</b></p>  <p><b>€ 15bn</b></p> | <p><b>DISCRETE</b><br/>INCL. AEROSPACE</p>  <p><b>€ 50bn</b></p> | <p><b>PROCESS</b></p>  <p><b>€ 30bn</b></p> | <p><b>INDUSTRIAL SERVICES</b></p>  <p><b>€ 15bn</b></p> |
| <p><b>Sub-Markets Key Segments</b></p>       | <p>OEMs<br/>1<sup>st</sup> Tier Suppliers</p>   | <p>Food &amp; Beverages<br/>Fast Moving<br/>Consumer Goods</p>   | <p>Machine &amp; Equipment<br/>Manufacturer<br/>Aerospace</p>   | <p>Chemicals</p>   | <p>Industrial Service Providers</p>  |
| <p><b>Main clients</b></p>                   |    |   |   |   |   |

\* Gartner IT Services adjusted to Atos Market Definition in 2021

# Atos research and Innovation (ARI)

**Ranked**

**N#1**

in 50-top private for-profit companies in terms of EU funding

**Ranked**

**N#6**

in 10 Spanish organizations in terms of EU funding

**131**

**Projects**

29 Projects coordinated

**180**

**Professionals**

In 7 locations



# Atos research and Innovation (ARI)

## Our people

**Multidisciplinary** team growing up alongside technology by developing the most **cutting-edge** solutions.



## Our values

Innovation, trust, multicultural mindset, technology transfer, efficiency & sustainability.

## Our mission

To foster **innovation** and develop **revolutionary solutions** to shape the future of technology addressing society challenges and driving economic growth.

## Our value proposition

ARI positioning in the R&D landscape makes Atos a **trusted partner** in the EU for the **digital transformation**.

# Industry 4.0 R&D projects (ARI)



# Thank you

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The Atos logo is displayed in a bold, blue, sans-serif font. The letters 'A', 't', 'o', and 'S' are in a standard weight, while the 'o' is significantly larger and more prominent, creating a stylized, modern look.