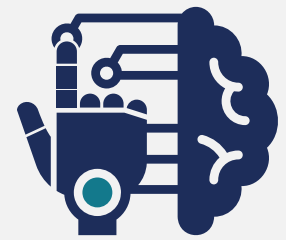


# SCROLL #3

3rd Project Newsletter 12/2025



## MAGICIAN

AUTONOMOUS DEFECTS DETECTION  
AND REPAIR IN MANUFACTURING

## Dear Readers,

**Welcome to the 3rd edition of  
MAGICIAN Scroll!**

2025 is coming to an end and the festive season approaches – enjoy our early Christmas present and explore our latest project news, upcoming events, publications, and exciting collaborations as we wrap up 2025!

**MAGICIAN** is an EU co-funded project aspiring to shape human-robot collaboration in manufacturing towards a human-centred focus on trust and safety while making processes more efficient through automation.

At the center of the project is the development of AI-driven robotic modules for defect detection and repair in manufacturing with an emphasis on understanding and incorporating human experience, motivation and behaviour.

🧙 Without further ado, let the magic begin!



## MAGICIAN UPDATES IN NUMBERS

**1** *Partner Meeting*

**2** *nd Open Call launched*

**5** *Winners of 1<sup>st</sup> Open Call  
selected*

**28** *th project month mark  
reached*



# MAGICIAN Partner Meetings - Consortium Synergy in Action



## 4<sup>TH</sup> PARTNER MEETING

 **Istanbul, Turkey** 

From 17th-19th November, the MAGICIAN consortium gathered in Istanbul for its 4th Partner meeting. Hosted by our partner Altinay, partners got to see their research and experimentation work come to life in a demo setup of the prototype, get to know the five winners of our first Open Call and discover their projects.



[Read more](#)



## MAGICIAN Open Calls



## 1<sup>ST</sup> OPEN CALL WINNERS

Our 1st Open Call was a great success with 73 eligible applications. Here are the five companies who got selected to work with the MAGICIAN partners in the following months.



**Multiverse Computing:** A global leader in AI model compression and quantum software, Multiverse Computing develops ultra-efficient AI models and its project PolarQI focuses on innovative architectures for improved defect detection and classification within the MAGICIAN robotic platform.



**Ada Güzey Engineering:** A Turkish tech SME specialising in robotics hardware, embedded software and AI perception, Ada Güzey Engineering's ARRAS project will enhance MAGICIAN by integrating adaptive robotic dent repair tools and transformer-based AI defect classification.



**Lider Teknoloji Geliştirme:** A technology company from Turkey with expertise in simulation, XR training and human-robot collaboration, Lider Teknoloji's HARMONY project develops an augmented reality interface to visualise robot activity and production context in real time.



**Yonga Technology Microelectronics:** A design house for FPGA/ASIC/SoC and IoT solutions, Yonga Technology Microelectronics' NEODES project creates AI-driven multi-modal data tools and synthetic datasets for enhanced industrial defect detection and real-time machine learning.



**Introsys:** A Portuguese industrial automation specialist with deep experience in robotics and machine vision, Introsys's AMMSAS project aims to advance defect detection and classification through structured light and advanced signal processing techniques.

[\*\*More information\*\*](#)

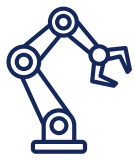
## 2<sup>ND</sup> OPEN CALL LAUNCHED

On 1st December, the 2nd Open Call officially launched. It aims to explore how MAGICIAN capabilities can be applied across five distinct use cases. The goal is to further explore and validate the performance and adaptability of the capabilities of the SR (Sensing Robot) and CR (Cleaning Robot) within new and diverse real-time production environments.

Open Call proposals must address a specific use case designed to extend and demonstrate the applications of a maximum of 2 capabilities envisioned within the MAGICIAN framework for the future MAGICIAN solution, in innovative domains beyond the automotive sector.

[\*\*More information\*\*](#)





# MAGICIAN at Events - Innovation in Motion



**Trento, Italy** 

## INTEGRATION WEEK AT UNI TRENTO



In June 2025, technical MAGICIAN partners gathered for a focused technical integration week hosted by the University of Trento. Teams from IIT, CRF, Altınay Robot Teknolojileri and FORTH carried out joint testing on defect detection and removal functions, including motion control, grinding operations, visual and tactile sensing, and human-aware motion planning. This was an important step to ensure that the different components of the MAGICIAN robotic system are working together seamlessly.

[Read more on the event here](#)

## I-RIM & MAKER FAIRE 2025 AND A&T NORDEST



**Rome & Vicenza,  
Italy** 

In October 2025, MAGICIAN and INVERSE projects joined forces on two occasions to showcase the developed robotic innovations and autonomous defect detection in Italy: At the I-RIM & Maker Faire 2025 in Rome, MAGICIAN and INVERSE project partners joined forces and presented a Demo Workshop on Workplace Transformation with Next-Generation Smart Robots bringing together inspiring researchers and industry experts.

At the Automation & Testing Exhibition Nordest in Vicenza, our partner UniTrento showcased the MAGICIAN and research progresses during a joint exhibition on MeshDMP and human movement prediction for human-robot collaboration, engaging with diverse industry representatives.

Both events were a great opportunity to connect with different audiences and to showcase our robots in action.

[Read more on the event here](#)



# WORKSHOPS ON HUMAN-CENTERED AUTOMATION



In November, our MAGICIAN partner Lund University organised a series of 9 workshops at the premises of 3 project partners in Italy and Turkey to address human-centered design in a future shaped by automation and human-robot collaboration. The workshops took place at the premises of Centro Ricerche Fiat (Orbassano & Melfi), Altınay Robot Teknolojileri (Istanbul) and TOFAŞ Türk Otomobil Fabrikası A.Ş. (Bursa) and brought together R&D experts, production line workers, managers, and HR representatives.

The workshops focused on current skills and tasks that define meaningful work, opportunities and risks in evolving roles and automation as enhancement for human capabilities.

[Read more on the event here](#)

## UPCOMING EVENTS - MEET US THERE!

### HaDEA Showcase 2026

Hosted by the the European Health and Digital Executive Agency at the Charlemagne Conference Centre in Brussels, the HaDEA Showcase Event invites researchers, entrepreneurs, policymakers and anyone interested in innovation in Europe on 19 January 2026.

This hybrid event brings together EU-funded projects and policymakers to explore how Europe can strengthen competitiveness and preparedness across digital technology, industry, space, and health.

[Read more on the event here](#)



 **Brussels, Belgium**  & online

 **19th January 2026**

# ICRA 2026 - IEEE International Conference on Robotics and Automation

ICRA 2026 brings together globally renowned researchers and industry leaders to exchange ideas and knowledge on robotics for the benefit of global society. The event contains multiple plenary and keynote sessions, contributed paper sessions, workshops and tutorial sessions, forums, expo and exhibitions from corporates, robot competitions and social events.



[Read more on the event here](#)



## SPOTLIGHT ON: ALTINAY ROBOT TECHNOLOGIES

Before you turn to your mails and meetings, let us present you our partner **Altinay Robot Technologies**, specialised in industrial robotics and automation solutions, including the design, development, and deployment of advanced robotic systems tailored for manufacturing environments:

- #5 facilities** in **#2 countries**, Turkiye and Germany
- #4 brands**: ALTINAY Robot Technologies, KSM (Karl Schumacher Maschinenbau), OLBRICHT Automation and GRASS Robotics
- #150+ employees** dedicated to innovation in robotics
- #35+ years of project experience**
- #10+ countries** where Altinay's solutions have been implemented
- #150+ clients** benefiting from successful project executions
- #500+ turnkey projects** completed

# THANK YOU FOR YOUR SUPPORT IN 2025

## STAY TUNED FOR EXCITING THINGS TO COME IN 2026

Engage with us!



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