

NEWSLETTER

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ABOUT VOJEXT

VOJEXT (Value Of Joint EXperimentation in digital Technologies for manufacturing and construction) is a 42-months long Horizon 2020 project, started in July 2020, which aims to provide a favourable business and technological framework for cognitive autonomous systems supporting human-robot interaction.

Under the vision Value Of Joint EXperimentation (VOJEXT) in digital technologies, the project dynamizes science-driven industry approaches engaging human and Cyber Physical Systems (CPS) in the same loop; thus amplifying the cognitive capabilities needed to achieve more effective sociotechnical and business ecosystems. For this purpose, VOJEXT will design, develop, and demonstrate affordable, market-oriented, multipurpose and easy-to-repurpose robotic systems; to be developed as one of the main components of a smart and scalable CPS ecosystem for the manufacturing and construction industry.

You can read more about the project and its main developments [here](#). For all the latest updates, please follow us on social media:



LATEST NEWS AND DEVELOPMENTS

Selection of S+T+ARTS Call winners and launch of artistic residencies at European Robotics Forum

At the end of 2022, VOJEXT launched a S+T+ARTS Call for 3 artistic residencies, with a funding of up to € 30 K per project. A Jury Day was held on 17 February 2023 in order to evaluate the submitted proposals. Below you can find the names of the three selected artists and the respective challenge that each of the awarded projects will address:

- Residency 1 (Robotics in Construction) – Calin Segal, Project Ornate Equations;
- Residency 2 (Robotics in Arts and Crafts) – Marielena Papandreou, Project GRAIN;
- Residency 3 (Social Robots) – Anna Schaeffner, Project Soft Collision.

On 15 March 2023 the winners of VOJEXT's S+T+ARTS Residency call were presented within the scope of the European Robotics Forum (ERF) 2023, held in Odense, Denmark. The workshop entitled "S+T+ARTS Residencies – Artistic Experimentation with Robotic Platforms" started with a brief overview of VOJEXT and its S+T+ARTS Residency programme. This was followed by announcement of the three selected artists and short presentation of their projects.

Second plenary meeting in Madrid

On 26-27 April 2023, VOJEXT partners met in Madrid for the project's second plenary meeting. The meeting was held at the premises of the project coordinator, Universidad Politecnica de Madrid (UPM). The partners discussed the progress achieved in the implementation of the different project activities, with a particular focus on the development of the mobile collaborative robot, integration of the 5 use case demonstrators, the results from the 2nd Open Call for SMEs and S+T+ARTS Call for artistic residencies, the development of the DIH network, etc.

Kick-off meeting for Open Call 2 winners

The 5 SMEs selected under VOJEXT's 2nd Open Call for innovative projects in cognitive robotics were presented at a kick-off meeting, held on 15 June 2023. In the next 8 months, the winners will work on 5 tech challenges related to the development and integration of innovative solutions into the VOJEXT ecosystem. The SMEs will be provided with a funding of up to € 80 K and support from mentors in order to successfully implement their projects.



LATEST NEWS AND DEVELOPMENTS

Below you can find the selected SMEs and the respective challenges that each of the awarded projects will address:

- Challenge 1 (Warehouse management) – Stam Technologies from Italy;
- Challenge 2 (Robots for logistics supporting and demonstrating capabilities in real operational environments) – IKnowHow from Greece;
- Challenge 3 (Graphical overlay design for core UI) – Human Opsi from Greece;
- Challenge 5 (Metrology and Reconstruction) – 3D-Components from Norway;
- Challenge 6 (Machine learning-based material characterisation) – Vimansys Digital Solutions from Turkiye.

An additional call for Challenge 4 (Clean rooms and clean environments) is expected to be launched in the next months, so make sure to visit our [website](#) regularly, in order to find out more information about the upcoming opportunity.

Workshop with S+T+ARTS Residency artists

On 22 June 2023 VOJEXT organised the workshop "Exploring the Contribution of Artists in Manufacturing through S+T+ARTS Residencies". The webinar provided an opportunity for the three artists selected for VOJEXT's S+T+ARTS Residency programme to present their projects to the consortium.

VOJEXT organised its first training webinar for SMEs

On 28 June 2023, VOJEXT organised its first online training workshop for SMEs on the essential aspects of mobile collaborative robots. The aim of the webinar was to help SMEs learn about the benefits that the introduction of mobile robots can bring to the manufacturing and construction industries. The event started with a brief introduction to VOJEXT, which was followed by a presentation on the most important aspects for introducing intelligent collaborative robotics in a production company. The topics covered during the workshop included high-level control and knowledge in mobile collaborative robots; robot control and customised grasping; recognition of production environment, objects and people; safety and interaction during collaboration. At the end, participants in the workshop had the opportunity to ask questions to the speakers.

The training is part of a series of workshops which will take place in the next months and will include sessions on VOJEXT's industrial use cases and demonstration of the developed technology. Stay tuned by visiting our website - <https://vojext.eu/>



LATEST NEWS AND DEVELOPMENTS

VOJEXT's use case promotional video is out now

The video presents the 5 use cases, developed within the scope of the project, which demonstrate the application of the cobot in the following industries - automotive smart manufacturing, building/construction, electronics, viscoelastic polyurethane pillow handling and crafts. The video focuses on the benefits that the innovative technology brings to the manufacturing processes of SMEs . Watch the video [here](#).

CALENDAR OF UPCOMING EVENTS

- 4-7 September 2023, Coimbra - [European Conference on Mobile Robots](#);
- 5-7 September 2023, Bern - [Sindex](#);
- 6-10 September 2023, Linz - [Ars Electronica](#) - Presentation of VOJEXT's S+T+ARTS residencies (exact date tbc);
- 20 September 2023, online - 1st live demo dedicated to VOJEXT's use cases;
- 26-27 September 2023, Stuttgart - [International Symposium on Robotics](#);
- 3-6 October 2023, Sofia - [Machtech & Innotech](#);
- 4-5 October 2023, Madrid - [GREX World Congress](#);
- 2-4 November 2023, Batalha - [i4.0](#);

VOJEXT PARTNERS

Led by the Universidad Politécnica de Madrid (UPM), VOJEXT brings together a multidisciplinary and complementary consortium team consisting of 19 partners from 14 EU and associated countries. VOJEXT partners comprise 7 SMEs (Robotnik, Tree Technology, Technovative Solutions, Kontor 46, F6S Network Limited, Officina Keller Napoli, OSAI Automation Systems), a mid-cap (PEMU), two large companies (Acciona, Mercedes Benz), two universities (UPM, NEBRIJA), four research centres (Fortiss GmbH, Przemysłowy Instytut Automatyki i Pomiarów - PIAP-, Istituto Italiano di Tecnologia, Deutsches Zentrum fuer Luft- und Raumfahrt-DLR-) and three non-profit organisations (Pôle EMC2, Bulgarian Chamber of Commerce and Industry, Stichting Waag Society).

GET IN TOUCH WITH US

For all the latest news, please visit VOJEXT's [website](#). If you would like to contact us or subscribe for our newsletter, please drop us an email at contact@vojext.eu

Thank you for reading. Expect our 7th issue of VOJEXT's newsletter in January 2024.

