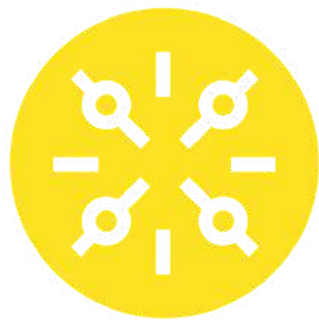




TALOS

COMMUNITY BI-MONTHLY DIGEST

April - May





BI-MONTHLY RECAP!

 TALOS Bi-Monthly Digest | April–May 2025

In this edition, we're excited to introduce the innovative beneficiaries of the TALOS Open Call, showcasing cutting-edge solutions transforming renewable energy. Plus, we continue our series with a spotlight on our supportive partners who make it all possible. Let's dive in!

THE UPDATES

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Meet TALOS Open Call Beneficiaries

TALOS Beneficiary Spotlight: Xilbi Sistemas de Información SL – EXPERT

Xilbi Sistemas de Información SL is driving innovation with EXPERT, an extended reality (XR) tool designed to support Operations & Maintenance teams at TALOS pilot sites. Seamlessly integrated with the TALOS platform, EXPERT delivers real-time AR visualisation of live data, alerts, and robot mission progress. This powerful tool enhances collaboration, boosts efficiency, and improves safety in photovoltaic (PV) energy infrastructure management.

 Learn more: www.xilbi.com

Xilbi

Sistemas de Información SL

THE UPDATES

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Meet TALOS Open Call Beneficiaries

☀ TALOS Beneficiary Spotlight: Mercury Retrograde LDA – CLARO-XR

Developed by The Carbon Games, CLARO-XR is a cutting-edge XR solution transforming photovoltaic (PV) operations. By combining AR, VR, and MR, CLARO-XR enables immersive digital twin visualisations, real-time collaboration between HQ and field teams, AR-guided maintenance, and VR-based mission simulations. Now in action across Portugal and Spain, it's paving the way for safer, smarter, and more efficient energy infrastructure.

🌐 Learn more: www.thecarbongames.com



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Meet TALOS Open Call Beneficiaries

TALOS Beneficiary Spotlight: Presence XR Solutions S.L. – TERRA

TERRA is an XR-powered platform revolutionising remote operations and maintenance (O&M) for photovoltaic (PV) systems. With real-time telepresence, voice interaction, and live data from the TALOS platform, TERRA enables teams to monitor, control, and optimise PV infrastructure without being on-site — reducing travel and boosting safety, efficiency, and sustainability.

 Learn more: www.pxr.es



THE UPDATES

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Meet TALOS Open Call Beneficiaries

🌱 TALOS Open Call Beneficiary: Plegma Labs – ATHINA

ATHINA, developed by Plegma Labs, is an AI-powered solution for real-time biodiversity monitoring in photovoltaic (PV) plants. Using computer vision, predictive analytics, and seamless TALOS integration, ATHINA enhances operational efficiency while protecting endangered species — aligning clean energy with environmental stewardship.

🌐 Learn more: pleg.ma



THE UPDATES

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Meet TALOS Open Call Beneficiaries

TALOS Open Call Beneficiary: Vertliner P.C – EL-INSPECT

EL-INSPECT is transforming PV site inspections with autonomous UAVs and AI-driven electroluminescence imaging. Designed for floating and agrivoltaic solar plants, it delivers 24/7 automated inspections, real-time defect detection, and smarter O&M decisions — boosting efficiency in even the most complex environments.

 Learn more: vertliner.com



THE UPDATES

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Meet TALOS Open Call Beneficiaries

TALOS Open Call Beneficiary: Aerial Tools ApS – BVLOS RAISI

BVLOS RAISI is redefining large-scale solar park inspections with a smart aerial sensing platform for Beyond Visual Line of Sight (BVLOS) flights and real-time thermographic monitoring. This innovation cuts operational time, reduces costs, and boosts performance — fully aligned with TALOS's mission to scale robotics and AI in renewable energy.

 Learn more: aerial-tools.com



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Meet TALOS Open Call Beneficiaries

🌿 TALOS Open Call Beneficiary: IKnowHow SA – ARAVI

ARAVI enhances the ARISTOS robot with AI and smart sensors for autonomous vegetation control and PV panel inspections. Using robotics, computer vision, and navigation technology, it enables 24/7 monitoring for safer, smarter, and more efficient solar park operations. Successfully tested in Greece and Spain, ARAVI is setting new benchmarks in solar maintenance.

🌐 Learn more: iknowhow.com



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THE UPDATES

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Meet TALOS Open Call Beneficiaries

TALOS Open Call Beneficiary: Indymo B.V. – MooringScout

MooringScout introduces autonomous underwater inspections for floating PV parks using aquatic vehicles, sonar, and DVL navigation. It enhances safety, supports proactive maintenance, and provides real-time data to optimise operations — all while reducing costs and improving efficiency from below the surface.

 Learn more: indymo.nl



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Meet TALOS Open Call Beneficiaries

☀️ TALOS Open Call Beneficiary: Amigo S.r.l. – SUNNY

SUNNY blends smart farming with solar tech, using AI and seasonal forecasting to optimise agrivoltaic systems. With detailed 6-month microclimate insights, it supports efficient irrigation, crop planning, and resource use—cutting waste, boosting yields, and building climate resilience.

🌐 Learn more: amigoclimate.it



SUNNY

THE UPDATES

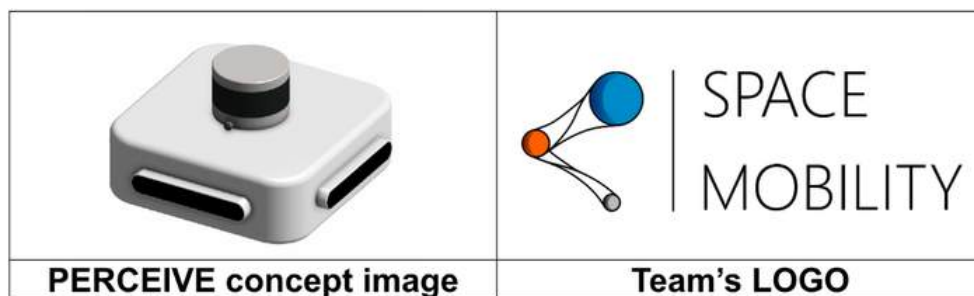
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Meet TALOS Open Call Beneficiaries

TALOS Open Call Beneficiary: Space Mobility – PERCEIVE

PERCEIVE is an AI-powered perception module designed for both legged and wheeled robots, boosting performance and safety in challenging PV park environments. Its first deployment will be at the Villacastin Hybrid Plant in Spain, marking a major step forward in renewable energy O&M.

 Learn more: space-mobility.gr



THE UPDATES

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Meet TALOS Open Call Beneficiaries

🍏 TALOS Open Call Beneficiary: Adaptronics – FRUITURE

FRUITURE is an advanced robotic gripper system designed for AgriPV, enabling precise pruning, thinning, and harvesting with gentle handling powered by electroadhesive technology. Demonstrated at the Randwijk Pear Tree Orchard, it optimizes energy efficiency and scalability for sustainable agriculture.

🌐 Learn more: adaptronics.it



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Meet TALOS Open Call Beneficiaries

☀ TALOS Open Call Beneficiary: UAB Rediga – PVgrow

PVgrow is an innovative solution for sustainable open-field farming, specially tailored for pear orchards. Using high-resolution cameras and sensors, it offers smart recommendations to optimise both crop yield and PV plant performance, empowering farmers with science-backed, efficient practices for a greener future.

🌐 Learn more: rediga.com



Meet our Supportive Partners

Our supportive partners are crucial in helping us elevate the PV sector across Europe. Through their collaboration and cross-dissemination efforts, we're driving greater visibility and growth in the industry. Get to know them:



IMotionsCloud, an AI Inspectech company based in Munich, is revolutionizing vehicle, phone, and baggage inspections. Using cutting-edge AI computer vision technologies, they help property and vehicle inspection teams streamline and automate their processes, boosting efficiency and accuracy every step of the way.

💡 Learn more about their impactful work here: <https://motionscloud.com/>



Tisalabs delivers advanced, secure IoT products and services, providing ironclad communications technology for robust IoT infrastructures. With expertise in secure satellite communications and large-scale deployments, they support critical industries like Manufacturing, Utilities & Energy, and Aerospace & Defence. Their commitment to high-level security makes them a key player in shaping resilient, connected systems for the future.

📖 Learn more: <https://www.tisalabs.com/>

Meet our Supportive Partners



Founded in 2022 and backed by Venture Capital Archangel AdVenture, Caboto srl is reshaping infrastructure inspection through innovation. Their cutting-edge system integrates drones, quadruped robots, advanced sensors, and AI-powered anomaly detection, all within a metaverse platform that enables interaction with a digital twin of the infrastructure. From bridges to buildings, Caboto is making autonomous inspection smarter, safer, and more efficient.

💡 Explore their work on their website: <https://www.caboto.net/>



FETEK, a leading RTD cluster uniting Lithuania's top innovators in Integrated Photovoltaics (IPV). Bringing together cutting-edge PV research institutes, RTD-focused SMEs, manufacturers, and digitalization experts, FETEK co-creates groundbreaking products, technologies, and smart manufacturing solutions—from PV materials to advanced production processes—driving the green energy transition through innovation.

📖 Learn more: <https://fetek.lt/en/>



THANK YOU



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