



Selected Finalists



Defense & Security

Dream Sensor

Description	TRL	Presentation	Video	Location
The main idea of the project is to survey a given area using various sensors and transmit a map of identified anomalies to sappers, as well as indicate detected UXOs in augmented reality mode. Our goal is to create a sensor that will specifically detect explosive substances, primarily plastic mines, which no device in the world can detect today. This sensor will also allow sappers to ignore all metal-containing debris, thus significantly speeding up their work. The Dream Sensor also has dual-use applications as chemical soil analysis, soil carbon analysis, mineral exploration and searching for people under the rubble.	TRL 4 Proven working technology	https://drive.google.com/drive/folders/1zE5n3iRok1-Js7M-PJRECYxKROlvNvFf?usp=drive_link	https://docsend.com/view/cwb9y738efwn33zb	Ukraine

Shahed-type UAV surveillance and destruction complex - "Spear"

Description	TRL	Presentation	Video	Location
The system can help resolve uncontrolled flights of enemy UAVs (in particular, Shahed) over the territory of Ukraine. Due to the high-precision component, it will increase the quality of fire groups to counter UAVs. This will reduce the results of unsuccessful interception of Shahed-type UAVs. 1. There is a ground station (mast, gimbal, camera, laser) that watches the horizon. Tracks and offers the operator recognized targets 2. The operator can confirm the proposed target, or select his own for tracking 3. The ground station automatically starts tracking the target and illuminating it with a laser 4. Launching a missile that is guided by the reflected laser beam 5. Hitting the target.	TRL 6 Developed prototype for demonstration in production environment	https://drive.google.com/drive/folders/1_YN5y0yu8s4AmrpWWkM5DAqpRWKG59Sm?usp=sharing	N/A	Ukraine

Photon

Description	TRL	Presentation	Video	Location
Photon is the only company developing Portable Solar Generators specifically engineered for Defense and Emergency applications. The project addresses a urgent problem, the lack of reliable power in areas affected by infrastructure damage, grid instability, natural disasters, or military conflict. In these context, traditional fuel generators are too heavy, noisy, and logistically complex, while conventional power stations are fragile and difficult to transport. Photon replaces them with a patented, all-in-one solution that is compact, rugged, and rapidly deployable, eliminating complex transport and setup logistics. Our systems integrate drone support, communications systems, electronics transport, and remote monitoring capabilities within a single portable platform. This enables users to simplify deployment, reduce transport complexity, and minimize the risks and costs associated with logistics and on-site setup, while keeping reliability and full remote control in any environment.	TRL 7 The prototype was tested in a working environment	https://drive.google.com/drive/folders/1MLDflcGQpL4lxTYTpKzskwwjDCGa9R9H?usp=drive_link	https://youtu.be/1LimBYVEepg	Genova, Italy.

BSK MD

Description	TRL	Presentation	Video	Location
The company will specialize in the development and manufacturing of demining equipment. At the moment, a compact and lightweight mine detector has been developed. Additionally, we can set up the production of sapper probes. The product is constantly being improved, so previous photos and videos may differ slightly depending on how old they are. The device is distinguished by its compactness, which is convenient not only for sappers but also for infantry; therefore, there is a high market demand for a convenient and compact metal detector. The product is designed to be charged from a power bank and can be folded into a small bag or attached to a belt.	TRL 6 Developed prototype for demonstration in production environment	https://drive.google.com/drive/folders/19FloHfuit5z3vhpKiMQj-l8Hy4G25Vhb?usp=drive_link	https://youtu.be/vDySIMMeAll	Ukraine

River drone URSULA

Description	TRL	Presentation	Video	Location
The Ursula drone is a versatile platform that can be used as a scout, a floating mine, or a small aircraft carrier for FPV drones.	TRL 6 Developed prototype for demonstration in production environment	https://drive.google.com/drive/folders/1PBxlrhwuP2okQJRzCfsgUARqmkJ1UxhU?usp=drive_link	https://www.youtube.com/watch?v=ig6LKLFn_xQ	Ukraine

MELISSA

Description	TRL	Presentation	Video	Location
The project involves the development of a robotic system for the remote detection, identification and neutralisation of potentially hazardous objects, based on backscattered X-ray technology. The system is designed for humanitarian demining, critical infrastructure inspection and security applications. The system ensures high detection accuracy, remote operation and reduced risk to personnel. The product is aimed at government agencies, international humanitarian missions and private demining operators. A robotic mobile platform with an integrated backscatter Xray scanning and spectral analysis system for the remote detection, classification and neutralisation of hazardous objects	TRL 8 The final prototype has been tested and the documentation is ready for mass production	https://drive.google.com/drive/folders/10kyhIDjKEIDnRfW2yDQkwSNN7H4cQjVq?usp=drive_link	N/A	Ukraine

Fully Electric Unmanned Platform for Mechanical Mine Clearance

Description	TRL	Presentation	Video	Location
Landmines and unexploded ordnance (UXO) remain a critical long-term threat, limiting safe land use and slowing post-conflict recovery. Existing mechanical demining systems are often fuel-dependent, costly, and generate high noise and emissions, reducing operational efficiency and flexibility. RoverTech proposes a fully electric unmanned platform for mechanical mine clearance, based on the field-proven ZMIY system. The platform integrates an electric drivetrain, high-capacity battery system, and a mechanical tool that initiates mines through controlled ground impact. Operating at up to 3 km/h, with 4 hours автономности, the system can clear nearly 2 hectares per cycle with a 1.6 m working width. With a mass of ~1000 kg, it ensures stability in difficult terrain while enabling fully remote operation. The electric architecture reduces noise, emissions, and fuel dependency, making it ideal for humanitarian demining.	TRL 7 The prototype was tested in a working environment	https://drive.google.com/drive/folders/1fTYDkckW1KZcFysQAtf72E9I8GPMQLa?usp=drive_link	https://drive.google.com/drive/folders/1ieGUsxikGDdrOOF6u30MouAfCQ8Eqiak?usp=sharing	Ukraine

MoBoRo

Description	TRL	Presentation	Video	Location
The MoBoRo (Mobile Combat Robots) project by Lviv Polytechnic follows the principle "Metal, not humans." It focuses on creating a swarm of simple, effective robots for aggressive environments (p. 1). The project addresses high risks in ground warfare and the rising costs of personnel training (p. 2). Key Highlights: Economic Advantage: Training a soldier costs ~\$272,000, while a robotic unit ranges from \$172,000 to \$242,000 (p. 5). Versatility: The "Enot" tracked base supports combat, recon, logistics, medical, and demining modules (p. 21). Other models include "Plastun" (recon) and "Kesentay" (kamikaze) (p. 21). Scope: Beyond the military, robots can be used in rescue, security, and agriculture (p. 6). The roadmap involves finalizing research and small-batch production (p. 23). A full robotic complex for a military corps is estimated at \$10.1 million (p. 23). Ultimately, the project aims to minimize the "human factor" and save lives (p. 8).	TRL 6 Developed prototype for demonstration in production environment	https://drive.google.com/drive/folders/1_4W1AJP_X6abRWc6wiotBETuZlku95fo?usp=drive_link	https://www.youtube.com/@MRLLPNU/videos	Ukraine

Project SOCRAT

Description	TRL	Presentation	Video	Location
On the development of a new method for detecting explosive objects in mined areas. The team of the “STENDLY” LIMITED LIABILITY COMPANY is testing the existing development and equipment of a modern method for determining the locations of explosive objects using the method of pulsed electromagnetic sounding (PEMZ). At present, preliminary field tests have been conducted. The results of the work showed that in places where explosive objects are located, the equipment identifies anomalies of increased values of electromagnetic parameters. Metallic and non-metallic explosive objects differ in the parameters of the decay rates of vertical gradients. Geoelectric parameters of the environment (anisotropy coefficients of electromagnetic field voltages, vertical gradients of their changes in depth) make it possible to determine the territories of explosive objects with reference to the coordinates to the map.	TRL 6 Developed prototype for demonstration in production environment	https://drive.google.com/drive/folders/1jxAozeR24xw9AsAULF0TbPMNeWdp2Wc?usp=drive_link	https://youtu.be/-fuRAh0EnfM?si=BYVwfiCgu0A3hptq	Ukraine

Multispectral Materials for Protection in Infrared and Radio Frequency Domains

Description	TRL	Presentation	Video	Location
The main objective of the project is the development of materials and structures for the attenuation of infrared (IR) and radio frequency (RF) radiation, including: Reduction of the detectability of aerial platforms; Reduction of the detectability of military equipment and electronic systems (including infrared protection of satellite communication antennas, such as Starlink terminals); Design and manufacturing of advanced polymer release mechanisms (payload drop housings) for UAVs.	TRL 7 The prototype was tested in a working environment	https://drive.google.com/drive/folders/1JR9-flgTU3vQzJrhLrKaOJdTZ1TYCgY0?usp=drive_link	N/A	Ukraine

Manufacturing Centre "YADRO"

Description	TRL	Presentation	Video	Location
Our Production Center represents a dynamic ecosystem where academic research meets practical manufacturing. Originally launched as a grassroots student initiative, it has successfully evolved into an official structural unit of the university. A key competitive advantage of our center is the capacity for rapid product validation, uniquely facilitated by our diverse and active student demographic. Furthermore, we operate with unrestricted access to the university’s extensive portfolio of patents and scientific achievements, enabling the direct implementation of cutting-edge innovations. By deeply integrating both students and academic staff into our daily production processes, we foster a powerful synergy between advanced theoretical knowledge and hands-on practical experience. This collaborative environment not only accelerates the product development cycle from concept to market but also cultivates the next generation of industry-ready innovators.	TRL 7 The prototype was tested in a working environment	https://drive.google.com/drive/folders/1LKFECEBjQV9_MTQyxVyWVlKHfYExOElt0?usp=drive_link	https://drive.google.com/drive/folders/1u457HAlySndNMW2ZUC-eMm9n6E1Nqo0J?usp=sharing	Ukraine

PROpTEST

Description	TRL	Presentation	Video	Location
PROpTEST is a system that was developed as a versatile tool that engineers can use to test drone propellers for specific applications. As drones are becoming used in a variety of applications, it is important to find the appropriate propeller for those applications to optimize their performance. PROpTEST is a compact and affordable system that allows engineers to measure the thrust, efficiency, and stability of propellers. The system utilizes sensors to measure these variables, which are then relayed through a microcontroller to software that displays such measurements. PROpTEST is a modular system that can be adapted to test various propeller types. This versatility of PROpTEST allows engineers to develop solutions for specific applications of drones. By utilizing PROpTEST to test propellers, engineers can make certain that the propellers for drones are optimized for their various applications, which helps to improve the performance and reliability of those drone systems.	TRL 5 Prototype assemblies or components designed and tested	https://drive.google.com/drive/folders/1KjohR84wzioW9pB5mOPvwMEPl8sgaPwa?usp=drive_link	https://youtu.be/sikdMkOWPSw	Ukraine, Turkey, Switzerland

Smart Materials

Description	TRL	Presentation	Video	Location
Smart Materials for Reliable Antennas. Problem: Mechanical complexity causes up to a third of antennas to fail during deployment, leaving 27% of satellites with unstable communication. Solution: Our shape memory design allows the antennas to self-deploy autonomously under temperature control, eliminating failure-prone motors and reducing mass. We are currently at TRL-5 with validated laboratory prototypes. Scientific Expertise: Rooted in a scientific institute, our team leverages decades of expertise in smart materials, alloy manufacturing, and full-cycle testing. This exceptional scientific depth ensures a strong technological advantage and readiness for commercialization. Traction: We recently won the national space technology competition and are proud to pitch our innovation today at the international final in France. From orbit to remote ecosystems, we enable reliable, lightweight, and autonomous communication everywhere.	TRL 5 Prototype assemblies or components designed and tested	https://drive.google.com/drive/folders/1dNFFFXJiNrJTzDwQPcV-o0vYjpxl5Vb6?usp=drive_link	https://docs.google.com/document/d/1UZcLAPMDeFL3oKt9JPq3D7JUKhAWxdxhk5t3hS_AOD4/edit?usp=drivesdk	Ukraine

Protective Sleeping Capsule (PSC)

Description	TRL	Presentation	Video	Location
Protective Sleeping Capsule (PSC) belongs to life-saving technical equipment and is designed to protect and rescue people from firearms and shrapnel weapons, robbers, as well as radiation, chemical hazards, and natural disasters – fires, hurricanes, tornadoes, snow avalanches, and earthquakes with complete destruction of the building. It can be used as a mobile protection solution for high-ranking officers during business trips in hotels or while staying in hospitals.	TRL 1-3	99 UGV TRITON	https://youtu.be/VjYVTy-Xw4w	Kyiv

UAV Countermeasure Device up to 80m – "SPIDER"

Description	TRL	Presentation	Video	Location
The SPIDER is designed to neutralize UAVs by firing a special round from a firearm. The device in the round is deployed into the rotor zone of the aerial target, disabling the UAV. It is effective at distances up to 80 meters, with an impact radius of 4 meters. The recommended firearm for this round is a 12-gauge hunting shotgun.	TRL 1-3	100_Guards	no	Kyiv



Biomedical Engineering & Health

TESTO Digital Lab

Description	TRL	Presentation	Video	Location
TESTO is a digital laboratory platform based on Dried Blood Spot (DBS) technology that enables people to perform clinical blood tests at home and receive validated results through a mobile application. We eliminate the need for in-person laboratory visits by combining at-home sample collection kits, certified laboratory analysis, and a digital analytics system that provides clear interpretation and health insights. Our model integrates with pharmacies, e-commerce channels, and healthcare providers, making diagnostics accessible nationwide — including regions where traditional laboratories are unavailable. TESTO transforms laboratory testing into a scalable, technology-driven health monitoring system focused on convenience, accessibility, and data ownership.	TRL 4 Proven working technology	https://drive.google.com/drive/folders/1AKRhSxJGiICb2w-1GcX5aBnvLeFfqgyC?usp=drive_link	N/A	Ukraine

Insulin without queue (IWOQ)

Description	TRL	Presentation	Video	Location
IWOQ is an application that connects doctors, patients, and pharmacies into a single ecosystem, enabling online lab test approval, instant e-prescriptions, real-time pharmacy inventory, and patient journey management with notifications and recommendations.	TRL 5 Prototype assemblies or components designed and tested	https://drive.google.com/drive/folders/1_J5NOC2w1wvGlwSJ06SA8h129edve7_B?usp=drive_link	https://drive.google.com/file/d/1NzV1S4Vur7_j6SjDfzfGXQ_eGTTq94IL/view?usp=sharing	Ukraine

RehabHand

Description	TRL	Presentation	Video	Location
RehabHand - multifunctional rehabilitation gadget for people with impaired fine motor skills due to stroke, spinal cord injury, traumatic brain injury, and other conditions	TRL 6 Developed prototype for demonstration in production environment	https://drive.google.com/drive/folders/1cLMpluixlPWHEzFqAKXDDtsOcNtDZF1V?usp=drive_link	https://youtu.be/3_KXbmgs7rU?si=vtQycghQvirH6Jhl	Ukraine

Kvadrat-U

Description	TRL	Presentation	Video	Location
Low-frequency therapy device “KVADRAT U”. We bring to your attention the medical product Low-frequency therapy device “KVADRAT U”. Certificate of Conformity No. UA.TR.101-210.314-2018 Ministry of Health of Ukraine. The manufacturer of SIPC "KARE", Odessa, has an ISO13485 certificate. The device is designed to influence the human body with direct, alternating and diadynamic currents for therapeutic and preventive purposes. “SQUARE U” can be used in physiotherapy rooms, clinics, hospitals, sanatoriums and rehabilitation institutions, in domestic conditions and sports medicine. It is effective for carrying out medicinal electrophoresis, galvanization,tDCS.	TRL 8 The final prototype has been tested and the documentation is ready for mass production	https://drive.google.com/drive/folders/1cbJXVFgwc5F47Zn-LGDGxMjD7DsP1wu?usp=drive_link	https://youtu.be/RThVEOCcHEo	Ukraine

VetiHeal Bio

Description	TRL	Presentation	Video	Location
VetHeal Bio is a DeepTech startup introducing innovative antimicrobial biodegradable polymer films for advanced wound care in veterinary medicine. Developed through PhD research, our films are based on a unique modified starch and PVA matrix infused with Xeroform. The Problem: Traditional bandages cause trauma during removal, fail to stay on active animals, and pose a health risk if ingested. Our Solution: A "smart" moisture-transfer film that provides a controlled release of medication. Key Advantages: Trauma-Free Removal: The film adheres when wet but detaches naturally once dry, protecting new tissue. Ingestion Safety: 100% biocompatible and safe if swallowed by pets. Eco-Friendly: Fully biodegradable, reducing medical waste. Currently at TRL 5, the technology is backed by 1 granted patent (1 pending) and successful lab tests. Our goal is to replace painful traditional dressings with a cost-effective, "apply-and-forget" healing system.	TRL 5 Prototype assemblies or components designed and tested	https://drive.google.com/drive/folders/1RfLDrhtgT2RDqrNtrFjNxphDgwBTYiz1?usp=drive_link	https://www.youtube.com/watch?v=IEB2RLtm3kc	Ukraine

Lab of Movement: Regional High-Tech Rehabilitation Center

Description	TRL	Presentation	Video	Location
The innovation lies in integrating the Walker View - 3D Motion Analysis system into the existing clinical workflow of the "First Health Resort." This transforms a traditional facility into a data-driven Center of Excellence, bridging the gap between hardware and high-volume medical practice. The core shift is from subjective physical assessment to objective digital biomechanics. Using a 3D optical camera and a sensing platform, the system creates a "digital twin" of the patient. This enables instant visual biofeedback, allowing for a "closed-loop" recovery where patients correct postural deviations in real-time. For an active center, this is a revolutionary upgrade to precision rehabilitation. It allows the facility to handle complex combat injuries and amputations with engineering-based accuracy. By automating biometric data collection, the project shortens recovery cycles and ensures evidence-based prosthetic adaptation within a 24/7 operational medical environment.	TRL 4 Proven working technology	https://drive.google.com/drive/folders/1lYINKCtBW4oJ90jucXyuhqu3-wemCHtz?usp=drive_link	https://docs.google.com/document/d/1mmQSDSe0vAvAzyoE7rz0vFOsoiskwWrt/edit?usp=sharing&ouid=107907063225320353196&rtpof=true&sd=true	Ukraine

Resector

Description	TRL	Presentation	Video	Location
The company’s lead product, the GMD Resector, is a patented, single-use, plasma-assisted device designed to improve efficiency, precision, and safety in arthroscopic surgery. The GMD Resector integrates cutting, coagulation, and smoothing functions into a single device, using bipolar plasma technology and a proprietary electrode design. This allows surgeons to perform procedures more efficiently, with improved control, reduced instrument exchange, and lower risk of collateral tissue damage. Early clinical use indicates up to 25% reduction in procedure time, alongside improved precision and visibility. Originally developed for meniscus surgery, the device has evolved into a multi-joint solution applicable to knee, shoulder, and hip arthroscopy, significantly expanding its clinical and market potential. Designed for single-use safety and aligned with modern NHS workflows, the GMD Resector supports a more streamlined, patient-focused approach to orthopaedic surgery.	TRL 9 Launch of mass production and sales	https://drive.google.com/drive/folders/1Wl7HlEenGBwpUSjLY1TwMS_MYr-sVTPE?usp=drive_link	Watch on 38:39 - https://www.youtube.com/watch?v=Bo0izXUMShY	Ukraine

Absorbable implants for osteosynthesis

Description	TRL	Presentation	Video	Location
The project aims to develop an innovative implant material for osteosynthesis using biomaterials, which is hypoallergenic, biocompatible and as close as possible in mechanical properties to standard materials, whilst being capable of being absorbed by the body. The material consists of ground bone and bone glue with the addition of bioactive components, which not only strengthen the fracture site but also stimulate the regeneration of bone and muscle tissue, degrading within six months. It has been experimentally proven that the implant has mechanical properties similar to those of surgical steel, whilst possessing the elasticity of bone, making it comfortable and safe for patients. The main consumer segment consists of people with serious bone injuries, particularly military personnel, for whom existing metal implants often cause pain, allergies, discomfort and the need for repeat surgery to remove the implant.	TRL 6 Developed prototype for demonstration in production environment	https://drive.google.com/drive/folders/1kT_QwlfPqovbqDsxYDUGRmu78H4o3h-ut?usp=drive_link	https://youtu.be/5Xf-JhOSWXc?si=Wu4LqgyB687KK13v	Ukraine

MetaSense

Description	TRL	Presentation	Video	Location
MetaSense is a metabolic navigation platform designed to detect early metabolic dysfunction long before clinical diagnosis. MetaSense focuses on identifying invisible metabolic changes that begin years in advance and lead to obesity, diabetes, and cardiovascular diseases. The platform integrates routine laboratory data , anthropometric measurements , CGM data, and lifestyle metrics into a proprietary 6-axis metabolic risk model. It generates a personalized Metabolic Age and a Metabolic Risk Index, translating complex physiological data into clear and actionable recommendations. MetaSense enables individuals , healthcare professionals , and organizations to understand metabolic risks at an early stage and take targeted actions to reduce them , while improving energy levels, performance , and healthy lifetime. Our goal is to become a global infrastructure platform for metabolic health assessment and decision support.	TRL 7 The prototype was tested in a working environment	https://drive.google.com/drive/folders/14CAz2pLdy1AYZsFy8BNE4cm7py_MFD0Y?usp=drive_link	https://drive.google.com/file/d/1-gJubgug7oFXeIXs7jVHmVrIIUmXHytI/view?usp=sharing	Ukraine

Pathobooking

Description	TRL	Presentation	Video	Location
PATHOBOOKING is a digital ecosystem for histopathological diagnostics that unites patients, clinics and leading pathologists in the world. A critical problem in histopathological diagnostics is the high subjectivity of histopathological conclusions in complex cases (1-2% of diagnoses) creating critical risks for patients' lives. Traditional shipping of biomaterials ("glasses") abroad is long and risky. Therefore, we offer a solution in the form of a secure web platform for storing, organizing and exchanging digital slides (WSI) and images (DICOM). The project has the advantages of increasing the speed and accuracy of diagnosis, improved security through the use of a cloud archive with end-to-end data encryption. The project is at the prototype stage and is aimed at the global digital pathology market, transforming subjective analysis into accurate digital diagnostics.	TRL 5 Prototype assemblies or components designed and tested	https://drive.google.com/drive/folders/1JnQqnGGDxuDJ6o44xamJnDAilmtzU0EU?usp=drive_link	https://youtu.be/EziV_pMLCEc	Ukraine

Montu Vision

Description	TRL	Presentation	Video	Location
Montu is a digital health startup developing accessible digital solutions for primary vision screening, monitoring of visual functions, and support of eye health. The project was inspired by practical experience in ophthalmology and addresses the problem of late detection of visual disorders caused by the limited availability of simple and scalable tools for primary assessment. Initial product testing is planned to be conducted at the Filatov Institute of Eye Diseases and Tissue Therapy. The development of game-based and training modules is carried out in collaboration with the Institute’s doctors and with expert consulting support from specialists in ophthalmology, neuro-ophthalmology, and optometry. The project combines clinical value, practical usability, and scalability for medical, educational, and preventive settings.	TRL 4 Proven working technology	https://drive.google.com/drive/folders/101iSLxp2Etb2GQg3MkseBF_LFgjsx2L4V?usp=drive_link	https://youtu.be/jsvkKnbgmME	Ukraine

GalacticO

Description	TRL	Presentation	Video	Location
We have developed an AI-powered bioimpedance spectroscopy platform capable of detecting physiological patterns and biomarkers linked to emotional regulation and autonomic nervous system dynamics.	TRL 6 Developed prototype for demonstration in production environment	https://drive.google.com/drive/folders/1RrshD5wKOn85KUPbRWQC3VDjA0DjcRjE?usp=drive_link	https://drive.google.com/drive/folders/10_KcCw1GqVnwStnfeWbMx5DmnbMtfOJK?usp=sharing	Ukraine

Orthosis for Active Living

Description	TRL	Presentation	Video	Location
The "Ortho-Brace for Active Life" project, prepared based on the provided materials: Project Title: Ortho-Brace for Active Life – Personalized Knee Braces Based on MRI Diagnostics. Developed by specialists from Igor Sikorsky Kyiv Polytechnic Institute (KPI), this project offers the creation of customized orthopedic knee braces. The key innovation lies in using specialized software for the intelligent analysis of MRI and CT scans with a precision of up to 0.1 mm. This allows for the creation of an accurate 3D model of the joint, identification of problem areas, and the manufacture of a brace with a perfect fit and personalized dampers in high-load zones. The primary goal is to make rehabilitation as effective and comfortable as possible. Due to precise pressure distribution, the physical therapy period is reduced by 40%, and the overall rehabilitation timeframe is shortened to 8–12 weeks. Patients can return to an active lifestyle and sports within just 2-3 months.	TRL 5 Prototype assemblies or components designed and tested	https://drive.google.com/drive/folders/1B4DhwL4XyE63QP1RPHbByACZyVfez6GQ?usp=drive_link	N/A	Ukraine

3D Adapt Neuro Limb Studio

Description	TRL	Presentation	Video	Location
The idea consists in developing a machine learning-based application for automated 3D modeling of personalized bionic prostheses and AI-based muscle stimulation through neural signal processing. This will not require a large number of personalized patient examinations, as it already contains all necessary elements that collect data on-site and integrate into the software product for the subsequent development of a personalized solution. Rising limb loss among service members faces a shortage of prosthetists, causing delays and discomfort. This lack of functional solutions drives the need for technological intervention. The development will include: Software: X-CUBE-AI for ML on STM32. Application. Sensor data. Signal stabilization. Processing sys via Bayesian sensor. Algorithms for actuator control. Hardware: STM32. Electrodes. Bionic limb prosthesis. Tactile sensors, encoders. Module for generating impulses. Intellectual: Agent for electrostimulation. QNN. RNN LSTM and GRU.	TRL 1-3	https://drive.google.com/drive/folders/1rXzuPW0qD50-gszgxRfL2DN6MQSHV7_7?usp=drive_link	https://youtu.be/mffnZModc_Y	Ukraine

VITA325

Description	TRL	Presentation	Video	Location
VITA325 is a HealthTech and DeepTech project focused on digital rehabilitation and AI-powered movement analysis. The solution transforms a smartphone into a clinical tool for assessing gait and mobility using built-in sensors and machine learning algorithms. The platform enables patients —primarily people with lower-limb amputations—to perform standardized clinical tests (such as 2MWT, 6MWT, and 10mWT) at home, while clinicians receive objective data, automated reports, and real-time insights into recovery progress. VITA325 bridges the gap between in-clinic rehabilitation and home recovery by providing continuous remote monitoring, early risk detection, and personalized rehabilitation guidance. This improves outcomes, reduces complications, and increases patient adherence.	TRL 6 Developed prototype for demonstration in production environment	https://drive.google.com/drive/folders/10fph1eBHZGi7i5hafvxOP7ZF10-G5ShT?usp=drive_link	https://www.youtube.com/watch?v=YfQIA8n3Z8Q	Ukraine

Dendron Neurotechnologies

Description	TRL	Presentation	Video	Location
Dendron builds a neurodata infrastructure for mental health care, enabling psychology clinics to measure, track and support improvements in patients' mental health through longitudinal brain data. Our platform identifies patterns associated with anxiety, depression and PTSD, while remaining flexible to expand to additional conditions. This allows clinicians to monitor patient evolution continuously, detect changes earlier and make more informed decisions. It also improves adherence and continuity between sessions, which are key drivers of successful outcomes in mental health care. In addition, Dendron provides neurofeedback based on real-time brain activity, reinforcing beneficial patterns linked to wellbeing. This turns brain data into an active tool that supports the therapeutic process between sessions and increases patient engagement over time. For clinics, this translates into a clear economic benefit.	TRL 6 Developed prototype for demonstration in production environment	https://drive.google.com/open?id=13-mlF2ipNk6PbAMujWlqVBKh2X6wp056&usp=drive_fs	N/A	Madrid, Spain

Glauc

Description	TRL	Presentation	Video	Location
Glauc is the first to wellness screen via an eye image, trained on a proprietary Harvard dataset that is impossible to replicate. Glauc transforms a single smartphone image of the eye into a comprehensive diagnostic suite that replicates the depth of a full blood panel while simultaneously screening for ocular aging and disease. By analyzing both systemic biomarkers and ocular indicators through non-invasive imaging, the platform identifies silent risk signals and provides a clinical-grade wellness overview before symptoms emerge or permanent vision loss occurs. This image-based approach enables proactive preservation by detecting molecular precursors to blindness and chronic systemic conditions. By bridging the gap between home-based wellness and clinical intervention, the platform establishes a new standard for longitudinal health monitoring without the need for invasive testing.	TRL 5 Prototype assemblies or components designed and tested	https://drive.google.com/open?id=1OCWAlA5MqdSI9a7AnOVmzxCAhmQtFrKX&usp=drive_fs	N/A	Tulsa, United States



**Renewable
Energy**

Cooling of ground-based laser systems

Description	TRL	Presentation	Video	Location
We have developed and researched (TRL5) equipment for the production of various forms of ice - icicles/tubes/rods. Ice is produced from frosty atmospheric air or in well-known freezers and stored in thermally insulated transportable containers. When melting 200 kg of ice, 20 kWh of heat is absorbed. The mentioned equipment can be used to cool powerful lasers. We have publications in Ukraine and the USA, patents of Ukraine. We offer the use of our developments in the research and testing of cooling systems for ground-based combat lasers, for example, in tests of the Dragonfire air defense system.	TRL 5 Prototype assemblies or components designed and tested	https://drive.google.com/drive/folders/1-1_094WgOfVoJ1NeXUW-aVCcyEsYQave?usp=drive_link	https://www.youtube.com/watch?v=bnoyrGaXzpY	Ukraine

Power Rangers

Description	TRL	Presentation	Video	Location
Sec-TA Power Rangers is a wartime digital coordination platform designed to ensure resilient mobile connectivity during blackouts, crises, and large-scale disruptions. The system was developed to address the lack of unified coordination between mobile operators, regional authorities, and local communities. The platform provides centralized incident management, automated task distribution, accountability tracking, and redundant communication channels. It integrates directly with mobile operators’ infrastructure and uses email and operator-level SMS notifications. This enables rapid deployment of mobile teams, faster generator activation at base stations, and clear operational responsibility. The solution has been successfully piloted across the entire Kyiv region under real blackout conditions and is now fully operational. It is being prepared for nationwide scaling as a boxed cloud-based solution, strengthening Ukraine’s digital resilience and emergency response capabilities.	TRL 8 The final prototype has been tested and the documentation is ready for mass production	https://drive.google.com/drive/folders/1BUcSwarGjjBYKLkRxkgk4MN1aWsomFh?usp=drive_link	N/A	Ukraine

HelioSail

Description	TRL	Presentation	Video	Location
The most convenient solar power	TRL 8 The final prototype has been tested and the documentation is ready for mass production	https://www.canva.com/design/DAHCIIErTYA/dNtQnLrXM8zkutgJgRH5iA/view?utm_content=DAHCIIErTYA&utm_campaign=designshare&utm_medium=link2&utm_source=uniquelinks&utlId=hd6d3385988	https://youtu.be/Z3et78NLkl4	Antwerpen

GridHarmony

Description	TRL	Presentation	Video	Location
GridHarmony is an intelligent system for managing energy shortages in apartment buildings. In Ukraine’s energy crisis, traditional backup sources become ineffective due to peak overloads (Cold Load Pickup), grid failures and outages, and conflicts between residents. Our solution is an integrated hardware-software system that combines social trust (mobile app and dynamic quota algorithm) with technical infrastructure into a unified smart ecosystem. How it works: The system analyzes available power in real time. Depending on the implementation level, residents are informed via the app and adjust consumption, or the system automatically manages quotas between apartments. A built-in soft-start algorithm smooths load peaks and reliably prevents breaker trips. The product scales flexibly from IoT monitoring to a microgrid. Unique value: Unlike traditional systems focused on cost savings, GridHarmony prioritizes maximizing community autonomy during critical energy shortages.	TRL 4 Proven working technology	https://drive.google.com/drive/folders/1wAa2C23m4cjKxf-wyq4HZUYDobJpvPoD?usp=drive_link	https://youtu.be/tDVHIMF5s4	Ukraine

BIO2CHP Waste-to-Energy

Description	TRL	Presentation	Video	Location
BIO2CHP develops a modular, small-scale waste-to-energy system that converts residual biomass into clean energy (heat and power) at the point of generation. The technology enables the valorisation of low-value organic residues, such as agricultural by-products and solid organic waste, into high-quality syngas for on-site energy production. Unlike conventional solutions, BIO2CHP's proprietary gasification and gas treatment system operates with high feedstock flexibility, eliminating the need for costly pre-treatment and reducing operational expenses. The containerised, plug-and-play design ensures easy installation, automated operation, and minimal maintenance. By turning waste into a resource, BIO2CHP enhances circularity and resilience, reduces greenhouse gas emissions, and lowers energy costs, supporting the transition to decentralised, sustainable energy systems.	TRL 7 The prototype was tested in a working environment	https://drive.google.com/drive/folders/1y5UEJOjWVycGKo8wH6_H45zjVGQ3nqZa?usp=drive_link	https://youtu.be/J-sGTe8N9D0?si=LobLWwFESZ_4wdc6	Ukraine

Wind turbine with axial generator

Description	TRL	Presentation	Video	Location
Currently, there is a great need for alternative low-power energy sources: for individual consumers, navigation equipment, military complexes, etc. In the proposed wind turbine installation, the rotor blades are able to capture and respond to the minimal impact of the air flow (wind speed) and, thanks to the created "aerodynamic" lever, provide a high value of the coefficient of use of the energy of the wind flow (wind). The conversion of the mechanical energy of the rotation of the rotor blades into the electrical energy consumed occurs in an axial synchronous generator, which is most suitable for this installation by its design. Generators of this type have high energy characteristics and efficiency. The excitation system of such generators is provided by permanent magnets, which eliminates mechanical electrical contacts. The conversion of wind energy to the benefit of the consumer and the solution of his problems is the main goal and objective of this Project	TRL 8 The final prototype has been tested and the documentation is ready for mass production	https://drive.google.com/drive/folders/1l1qiGBR9lr2Hz7m_lQ3d8VUKObql5x4?usp=drive_link	N/A	Ukraine

Plastalyst

Description	TRL	Presentation	Video	Location
The energy crisis in the Ukraine is only just starting. Now we realise that relying on large scale infrastructure and imports is difficult in war times. How can we produce renewable energy low cost at small scale where it is needed? Waste is an untapped resource. But how can companies make renewable fuels from it without burning the waste? For companies looking to produce renewable fuels at low cost, Plastalyst recycles mixed waste into chemicals such as monomers, hydrogen, carbon monoxide, and methanol. Uniquely, the process is below 200°C, produces no CO2 and only uses water as a solvent. We are now in the final stages of completing the feasibility study under UNIDO in Ukraine to utilize straw waste from AgroVista. This is a large untapped resource. This challenge brings a unique opportunity to take Plastalyst to the next level. The mentoring would be instrumental in navigating the ever changing local environment. Finally, the publicity would help us connect with the best partners.	TRL 6 Developed prototype for demonstration in production environment	https://drive.google.com/drive/folders/1Aj3xFaZkWk_hZn9a7tYjq28YJKZWmv4B?usp=drive_link	https://drive.google.com/file/d/1-hl9kLRWg8heWbpQcgNW7vimBrJgKuby/view?usp=drive_link	Ukraine

ALLIGATOR boiler - energy and environmental safety

Description	TRL	Presentation	Video	Location
The ALLIGATOR boiler is a universal gas-generating boiler that allows you to obtain thermal energy using an environmentally friendly method of thermal gasification. The boiler operates on combustible household and industrial waste, and can also operate on traditional fuels. The high temperature of gasification and combustion guarantees disinfection and complete destruction of the fuel used. Advantages: ● Utilization of combustible waste (rubber, leather, plastic, textiles, medical, agricultural, liquid combustible waste, etc.) with the production of thermal energy. ● The content of harmful substances in emissions does not exceed the permitted European standards. ● The cheapness of the thermal energy obtained. ● Universality to fuel. ● Boilers are certified. ● ALLIGATOR boilers have been successfully operating since 2015	TRL 9 Launch of mass production and sales	https://drive.google.com/drive/folders/13UdwvKG0Sy3xOOa7mGjCHuQXglaiZ4pc?usp=drive_link	https://youtu.be/-O-mRr7CAf0	Ukraine

Savonix (Energin technology)

Description	TRL	Presentation	Video	Location
The project presents an improved vertical-axis wind turbine (VAWT) rotor based on the Savonius design, called Savonix (Energin technology). The key innovation is the use of internal aerodynamic screens inside the rotor blades, forming controlled airflow channels. These channels accelerate the flow and create a combination of drag, jet, and lift effects, significantly increasing rotor efficiency without increasing its size. Laboratory tests have demonstrated up to a 40.6% increase in rotational speed compared to a classical Savonius rotor. The technology is designed for decentralized energy generation and performs effectively in turbulent and low-wind conditions. The solution is scalable from small residential turbines (200 W) to modular systems up to 10 kW.	TRL 5 Prototype assemblies or components designed and tested	https://drive.google.com/drive/folders/1ChWtWxikxiCKC72LLr1_XOANN4LANA6t?usp=drive_link	https://youtu.be/i5T3dcdlvUc	Ukraine

Induction electric generator powered by energy of waves

Description	TRL	Presentation	Video	Location
The project presents a new method for generating electricity from wave energy using a device whose lever moves with the waves, while the technical components of the equipment are located above the water. The aim of the study is to confirm the effectiveness of the new method and to determine the average power per lever's oscillation in the model of the generator. A prototype of the device was used to conduct the experiment. I determined the average power of the oscillation, which is the most important result of the experiment, to be 98.25 mW, taking into account the coil length of 29 cm. These results will help define the coil parameters for industrial applications, depending on the desired power output of the device. The technology can be applied and developed in countries with wave energy potential. This work contributes to solving the global problem of energy shortages.	TRL 5 Prototype assemblies or components designed and tested	https://drive.google.com/drive/folders/1h4uBf8g9gpXdSzl6-PxmZVxvkQeVCbg6?usp=drive_link	https://youtu.be/1WZ7sgfifi8	Ukraine

Infinity Magnitude Batteries

Description	TRL	Presentation	Video	Location
IMB develops and produces solid-state battery modules built on next-generation energy cells – designed for industries, businesses, and communities that demand high performance, safety, and longevity.	TRL 4 Proven working technology	https://drive.google.com/drive/folders/1Nsz1JAFZfplFNR8fdczFrZXNmTcHaq2?usp=drive_link	https://youtu.be/L6-l7LZI08k	Ukraine

Reliable energy from flowing water

Description	TRL	Presentation	Video	Location
GKinetic Energy is an award-winning, deep-tech company based in Ireland, pioneering a new market for Distributed River Energy. Our mission is to transform the world’s untapped, free-flowing water resources into sources of clean, reliable, and predictable power. GKinetic has developed a unique, patent-granted range of hydrokinetic turbines that harness energy from rivers, canals, and estuaries without the need for dams or significant civil engineering. Our technology solves the "intermittency gap" found in solar and wind by providing constant power that peaks during winter months, making it 'the missing ingredient' for a resilient renewable energy mix. Having successfully validated our hardware through 7 full-scale international deployments the company now has its first 2 commercial pilot projects underway in Ireland.	TRL 7 The prototype was tested in a working environment	https://drive.google.com/drive/folders/14kGUor76pTZcP3Qh78dfNbEKMq6lpXyl?usp=drive_link	https://www.youtube.com/watch?v=L8pwgRZmzZ8	Ukraine



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