

## Innovaciones ganadoras 2020:

Country	Prize	Organization	Innovation	Description
China	Award Winner of Health care sector innovations & Innovation of innovations	The First Affiliated Hospital, Sun Yat-sen University	Ischemia-free organ transplantation marks the arrival of the "warm organ transplantation" era	Ischemia-free organ transplantation, with systemic device and surgical innovation, transplants a donor organ completely avoiding the IRI and significantly improving transplant outcomes.
Spain	Award Winner of Potential innovations	Advanced Systems In MOBility, S.L.	Digitization and automation of the regular road safety inspection for vertical traffic signs.	Regular inspections of traffic signs today is being done manually. ASIMOB automates this task with new technology (IoT, AI), significantly improving incident detections, and optimizing maintenance tasks.
Russia	Award Winner of Potential innovations	National Research University "Moscow Power Engineering Institute"	Flywheel energy storage device with high-temperature superconducting suspension	Flywheel energy storage device with a contactless magnetic suspension based on Meissner effect in high-temperature superconductors is a new environmentally friendly and efficient way to save energy.
Israel	Award Winner of Circular economy and carbon neutrality innovations	UBQ Materials Ltd.	UBQ Advanced Waste Conversion; landfill-destined waste transformed into a bio-based thermoplastic.	UBQ converts unsorted household waste – food, paper, cardboard and mixed plastics, into a sustainable raw material substituting oil-based plastics in product manufacturing.  Our motto: Why waste waste?
Czech Republic	Prize Winner of Circular economy and carbon neutrality innovations	SILON, s.r.o.	Development of a new high-tech product	Thanks to continuous innovations, SILON has developed high-quality polyester fibre "SOFISIL", which is produced from PET bottles collected from the ocean and its coast.
Finland	Prize Winner of Circular economy and carbon neutrality innovations	Vaisala Oyj	GROUNDBREAKING IN SITU INSTRUMENT FOR BIOGAS MEASUREMENT	MGP261 Multigas Probe is the world's first in situ instrument that can measure multiple gases in demanding biogas process conditions where repeatable, stable, and accurate measurement is essential.
Russia	Prize Winner of Circular economy and carbon neutrality innovations	BMPower and National Research University "Moscow Power Engineering Institute" (academic partner)	Zero-emission and lightweight air-cooled hydrogen fuel cell power sources for drones and robots	BMPower air-cooled hydrogen fuel cell are an alternative to lithium-ion batteries, which allows storage of up to 5 times more energy per unit mass of the power sources, thus increasing the drones flight time up to 12 hours (depending on the type).
Sweden	Prize Winner of Circular economy and carbon neutrality innovations	Solar Bora AB	Next generation Solar Home System (NextGenSHS) with a circular business model	Solar Bora develops NextGen SHS to deliver grid quality electricity to areas of no grid. This enables cooking with induction stoves and productive usage of the electricity!
Spain	Prize Winner of Health care	GOGO Mobility Robots S.L	HANK exoskeleton by GOGO Mobility Robots	HANK exoskeleton is a medical device for the recovery of motor functions for

	sector innovations			patients with neurological problems due to spinal cord injuries, neurodegenerative diseases and stroke.
Spain	Prize Winner of Health care sector innovations	CORIFY CARE SL (Corify)	ACORYS© Innovative and cost-effective medical device to characterise cardiac arrhythmias and improve interventions	The goal of Corify is the development and commercial exploitation of a medical device that solves one of the main problems of cardiovascular clinical practice: the prognosis and treatment of patients with Atrial Fibrillation, an arrhythmia that affects more than 10 million of patients in Europe.
China	Award Winner of Education sector innovations	China Mobile Group Zhejiang Co.,Ltd.Hangzhou Branch	5G-based remote VR visiting and teaching application	The 5G-based VR remote teaching & quarantine remote visitation platform is an immersive VR teaching platform. Combined with 5G, cloud computing, big data, and artificial intelligence algorithms, it can conduct one-to-many virtual reality teaching on the hospital LAN or remote Internet. The platform allows doctors from different regions to gather in a virtual space. Expert doctors can quickly ask and answer students' questions; students can learn professional knowledge more intuitively in the virtual world.
Estonia	Prize Winner of Education sector innovations	Tallinn Health Care College	Roof garden "Hands-on"	<p>The container garden has been created on the roof of Tallinn Health Care College's (THCC) new wing. Plants of various purposes are cultivated there – medicinal herbs, poisonous plants, aromatic plants etc. Educational aspect is considered when choosing the plants that are being introduced to THCC students and the public – plants as well as their characteristics, options to use and risk factors. Generated biowaste is composted and no synthetic plant protection products are used for plant cultivation. Virtual environment PlantsMap has been introduced to allow distance learning and to facilitate learning, consisting of garden's database and information about the plants (photo, location, name, description). Every plant growing in the garden has been tagged with the name of the plant and QR-code leading to the database. The garden also has a recreational function, and several seminars of various curricula are conducted there.</p> <p>The aim is to share evidence-based information about plants and their effects, to introduce options for growing the plants and options for their use, and to conduct scientific studies with the plants cultivated in the garden. Students involved in scientific studies are included to popularise scientific approach among</p>

				the public, and training materials are composed.
Latvia	Prize Winner of Education sector innovations	Red Cross Medical College of Riga Stradiņš University	Hospital work simulation for Health care students in College environment	Classroom workshops for health care students are topic or field based. But real hospital routine is multidisciplinary. During the Covid-19 lockdown students faced lack of possibilities to practice at the hospital. Therefore, we developed a simulation where most activities that take part in hospital are built in classroom environment.
Spain	Award Winner of Public sector innovations	EUSKAL TRENBIDE SAREA	Acoustic mini-barrier for low-speed railway lines.	Acoustic mini-barriers provide noise reduction better than traditional noise abatement solutions, without the need for foundations or large works, with minimal visual impact, and at very competitive prices.
China	Prize Winner of Public sector innovations	State Grid Suzhou Power Supply Company	AI-based Dynamic Lightning Protection System in Power Distribution Network	A lightning protection technology utilizes lightning tracking, AI forecasting, distribution network control and renewable energies coordination to improve the power reliability and stability.
Russia	Prize Winner of Public sector innovations	JSC "Electronic Moscow"	Moscow innovation ecosystem (testing of innovative solutions)	The project presents a concept for the comprehensive development of innovation in the urban environment. The concept includes synchronizing the work of the city, innovation developers and participants of the innovation infrastructure for conducting pilot testing of new solutions at urban and commercial facilities.
Czech Republic	Award Winner of Business innovations (Micro & startup companies)	Berkhof Construction s.r.o.	Automatic X-ray inspection and imaging device	The new Berkhof X-rad product offers product control in fully automatic mode. Thanks to the new generation X-ray detector, it is possible to detect even light materials and fine internal defects, which has not been possible until now.
Spain	Prize Winner of Business innovations (Micro & startup companies)	ntClick Soluciones Tecnológicas SI	Development of the Tooling Control platform: innovative product (R + D + i product)	Development of the Tooling control platform: an integrated solution with RFID technology for the traceability control of combined variable elements and safe data optimization in the manufacturing sector.
Spain	Prize Winner of Business innovations (Micro & startup companies)	SKROLLER S.L.	Skroller, the e-scooter backrest.	Skroller S.L. (skroller-belt.com) is a spanish startup that has developed and patented an innovative backrest for electric scooters
Spain	Award Winner of Business innovations (Small and Medium sized enterprises)	Alias Robotics, S.L.	RIS: Robots Immune System	RIS is a Robotic Endpoint Protection Platform (REPP) that detects, stops and reports on threats affecting these cyberphysical technologies. It protects robots and their components against malware and malicious attackers.

Czech Republic	Prize Winner of Business innovations (Small and Medium sized enterprises)	Radalytica a.s.	Quality 4.0 - Robotic non-destructive inspection using NDT imaging methods. – “RadalyX”	A unique robotic platform capable of non-destructive testing in a wide area of interest across industries with the possibility of immediate evaluation thanks to various imaging options that can be combined.
Finland	Prize Winner of Business innovations (Small and Medium sized enterprises)	PiBond Oy	Silicon-Rich Materials for Advanced Semiconductor Fabrication	PiBond developed novel resist solution that simplify EUV lithography. This increases the throughput, improves the yield and enhances the quality of EUVL process. Also the need of chemicals is reduced.
Spain	Arward Winner of Business innovations (Large companies)	TSK Electrónica y Electricidad, S.A. “TSK”	SIXPERIENCE: Virtual reality-based system for the operation and maintenance of industrial facilities	SIXPERIENCE is a virtual reality-based system allowing the verification and actuation of every element of an industrial installation through an immersive virtual environment.
Spain	Prize Winner of Business innovations (Large companies)	SORALUCE S.COOP.	DWS – Dynamic Workpiece Stabiliser	Device that eliminates chatter that is usually generated when machining flexible workpieces. That chatter is caused by the excessive flexibility of the workpiece.
China	Prize Winner of Business innovations (Large companies)	Dell (China) Company Limited	Dell Digital Quality Command Center (DQCC)	Establish a decision system through big data analysis to enable the visual display of real time quality data of all production processes, intelligent detection and prediction of any quality abnormality, and automatically manage quality activities in digital way.