

Innovaciones ganadoras 2021:

2021				
Country	Prize	Organisation	Innovation	Description
Israel	Award Winner of Health care sector innovations & Innovation of innovations	Alpha Tau Medical, Ltd.	Alpha DaRT™ (Diffusing alpha-emitters radiation therapy) cancer treatment	Alpha DaRT is a novel radiation technology that can treat recurrent, metastatic, and locally advanced cancers. What makes this new therapy unique among radiation therapies is that, for the first time, it employs alpha particles for treatment of solid tumors. Alpha DaRT treatment consists of intratumorally-inserted radionuclides that emit alpha particles which kill tumor cells, sparing healthy cells nearby. In comparison to existing radiation therapies, it is highly effective, safe, and tolerable for patients. Alpha DaRT can potentially fill a huge unmet need for treatment of advanced cancers that are resistant or have become refractory to prior conventional therapies such as X-rays and chemotherapy, and when surgery is not an option.
Spain	Award Winner of Potential innovations	MEDICSEN	Non invasive artificial pancreas for diabetes based on insulin delivery through a needle-free Smartpatch	Needle-free smartpatch for painless insulin delivery and machine learning algorithms to predict future patient needs, automatically delivering the correct amount of medication to improve control.
Finland	Prize Winner of Potential innovations	Metsä Spring Oy	Kuura textile fibre	Metsä Group is developing a new concept for the production of more sustainable textile fibres. As a hub firm, Metsä Group has orchestrated a network of over 50 partners to reach this point.
Russia	Prize Winner of Potential innovations	National Research University "MPEI"	Autonomous cogeneration energy source based on micro hydraulic power plants using the principles of nature likeness technologies	Highly efficient hydraulic turbines for autonomous energy sources with a blade system designed using the principles of the "whale's fin" and "shark gills" structure, which provide an increase in the efficiency and reliability of hydraulic units.
China	Award Winner of Circular economy and carbon neutrality innovations	Gree Electric Appliances, Inc. of Zhuhai	The Air Disinfection and Purification Solution Based on CKER (Coronavirus Killer) System and Its Application	A novel air disinfection and purification system called CKER (Coronavirus Killer) was developed at the crucial moment of global epidemic prevention and control. The CKER system was based on three Gree patented core technologies, namely the high efficiency trap technology based on the combination of high density plasma and HEPA, the accurate temperature control technology based on target temperature of virus inactivation and the rapid purification method of space airflow organization. The CKER system has already been applied in our novel antivirus air purifier, which was developed epically to kill the SARS-CoV-2 coronavirus.

				<p>The test results of the third-party authority showed that the antivirus air purifier using CKER system can rapidly reduce the fine particulate matter and eliminate a range of harmful pathogens. Moreover, the field test report from Wuhan Institute of Virology, Chinese Academy of Sciences clearly proved that the inactivation rate of SARS-CoV-2 is higher than 99% after one hour operation.</p> <p>Up to now, the products have been exported to more than 50 countries and regions around the world, the sales of the products have reached more than USD 156.7 million, adding USD 24.1 million in profits and USD 11 million in taxes.</p>
Estonia	Prize Winner of Circular economy and carbon neutrality innovations	Solarstone OÜ	Click-on framing kit	World's first solution that renders standard PV panels into weatherproof 2in1 roofing material
India	Prize Winner of Circular economy and carbon neutrality innovations	TATA Chemicals Limited	Wealth from Waste: Dead Batteries To Pigments - Cobalt aluminate	A mission towards Sustainability brought focus on converting hazardous metal extracted from waste Li-ion batteries into a value added chemistry that also reduces impact of mining and ecological damage. The product, cobalt aluminate pigment was successfully synthesized utilizing recovered cobalt and a major part of the aluminium raw material from recycled sources (spent Li-ion batteries). The pigment's desirable total solar reflectance properties are at par with that made from virgin raw materials. A good Total solar reflectance (TSR) value of pigments is desirable to keep inner temperature of buildings lower, reducing air-conditioning costs and contributing to lower carbon footprint.
Estonia	Prize Winner of Health care sector innovations	Respiray	Wearable Air Purifier	Respiray's wearable air purifier immediately eliminates 99% of airborne viruses and bacteria by disinfecting inhaled air with safe UV-C technology.
Russia	Prize Winner of Health care sector innovations	The Government of Moscow, JSC "Electronic Moscow"	AI-based computer vision technologies for medical image analysis	The analysis of 4 types of radiological tests and the diagnostics of lung cancer and pathologies, breast cancer, COVID-19, osteoporosis, and ischemic heart disease provided by the neural networks.
Spain	Prize Winner of Health care sector innovations	INYCOM	Aid system for the detection of various pathologies based on image analysis with AI techniques.(CADIA)	Design and implementation in a regional health service of an innovative technological solution that helps the detection of various pathologies through intelligent image analysis and its demonstration in breast cancer screening.

Russia	Award Winner of Education sector innovations	The Government of Moscow, JSC "Electronic Moscow"	Moscow Electronic School (MES) – the unified educational ecosystem	MES is an innovative educational platform, which has no analogs in Russia by the number of users. It satisfies the demand of Moscow in terms of services provided and the scope of the educational content.
Spain	Prize Winner of Education sector innovations	BASQUE CULINARY CENTER	Basque Culinary Center: Promoting culinary training and innovation in the university environment	Basque Culinary Center is a pioneering project at global level that has taken gastronomy to the academic and research sphere, launching the first Faculty of Gastronomic Sciences in Spain (the first Degree in Gastronomy) and the first technology centre specialised in gastronomy.
Spain	Prize Winner of Education sector innovations	GRUPO EDELVIVES	Go STEAM: Integrated Competency-Based Learning across all school, from Kindergarten to Secondary	A subscription platform that democratises the development of STEAM skills across subjects: it merges content, assessment and technology in a secure, invisible and personalised way.
Hungary	Award Winner of Public sector innovations	Centre for Agricultural Research (short name: CAR)	ProPlanta Cost and Environment Friendly Fertilization Advisory System	Built on the unique database of the Hungarian long-term fertilization experiment network, the software helps the farmers in the economic and sustainable utilization of nutrients.
Spain	Prize Winner of Public sector innovations	VISESA: Vivienda y Suelo de Euskadi, S.A. – Euskadiko Etxebizitza eta Lurra, EA	Novel role of the Administration as Delegated Promoter for fostering neighbourhood rehabilitation	Visesa as one-stop-shop for administrating, contracting and supervising both the design and execution of the rehabilitation following a turnkey model as well as administrating the financing on behalf of the beneficiaries.
Israel	Prize Winner of Public sector innovations	Dorot Geriatric Hospital	Drones in medical service – From fighting COVID-19 to universal solutions	Autonomic drone delivery networks between medical facilities for medical supply service, including pharmacological items and preparations, COVID-19 swabs, lab. specimens, blood products, organs etc, real time and on demand, resulting in improved medical care, fewer costs, and sustainability.
Spain	Award Winner of Business innovations (Micro & startup companies)	EGA SOLUTIONS S.L.	FULL TRACEABILITY INFORMATION MANAGEMENT SYSTEM FOR HIGH VALUE-ADDED INDUSTRIES	A solution for full traceability along the mounting process for the machining of aircraft engine parts by setting up a scalable, flexible and sustainable technology ecosystem in terms of operational and economic efficiency.
Spain	Prize Winner of Business innovations (Micro & startup companies)	COCUUS	Mimethica: The first Food-Tech platform which joints multiple Technologies and proprietary ingredients (bio-ink/bio-gels) for the formulation of new food.	The resources to feed the entire population are limited and we cannot address it with today's solutions. We have started the Food Science revolution and we have implemented in the industry new Plant-Based and Cell-Based manufacturing processes.
Sweden	Prize Winner of Business innovations (Micro & startup companies)	Edeva AB	Actibump	The Actibump is an active speed bump that is only a speed bump for those who speed. The main problem that it solves is the compromise between traffic safety and accessibility for buses.

Sweden	Award Winner of Business innovations (Small and Medium sized enterprises)	NOAQ Flood Protection AB	NOAQ Boxwall	The NOAQ Boxwall is a free-standing self-anchoring temporary flood barrier
Spain	Prize Winner of Business innovations (Small and Medium sized enterprises)	COMERCIALIZADORA LA RIOJA ALTA S.L.	QUALITY CONTROL, TRACEABILITY AND FOOD SECURITY SYSTEM EMPLOYING ARTIFICIAL INTELLIGENCE	Innovative artificial intelligence system for quality control and serialization of the minimum unit of the finished product for commercial traceability and food security purposes.
Spain	Prize Winner of Business innovations (Small and Medium sized enterprises)	ATRIA INNOVATION	SIARA: AI System for identification and classification of waste through Computer Vision	SIARA improves the efficiency of the selection plants processes of plastic packaging waste, cans and briks through a Computer Vision system based on Deep Learning for the detection and removal of unwanted bulky waste.
Russia	Arward Winner of Business innovations (Large companies)	JSC "Ion Exchange Technologies", National Research University "MPEI"	High efficiency drinking-quality water purification system for feeding an open-type water heating system	The use of nanofiltration (NF) to obtain the make-up water of an open-type water heating system leads to a reduction in operating costs and a reduction in the cost of treated water both with traditional technologies and with reverse osmosis, as well as to obtain water more suitable for drinking compared with reverse osmosis permeate.
Czech Republic	Prize Winner of Business innovations (Large companies)	První brněnská strojírna Velká Bíteš, a.s.	Innovation of precision casting technologies for new types of castings of superalloy nickel-based turbocharger parts	A new technology for precision casting of new generation of turbocharger parts and production of shell moulds with technology consistent with the European Grean Deal strategy was implemented and verified.
Finland	Prize Winner of Business innovations (Large companies)	Peikko Group Corporation	BOLDA®, a compact, high-strength Column Shoe for bolted connections in precast concrete columns	BOLDA® is a new-generation compact and heavy-duty Column Shoe. BOLDA® Column Shoes can be used to connect a precast concrete column either to the foundation of a building or on top of another concrete column.