4.0 INCUBATOR LIST OF START-UP COMPANIES



UNIÓN EUROPEA Fondo Europeo de Desarrollo Regional (FEDER) Una manera de hacer Europa



SPAIN'S FIRST INCUBATOR DEDICATED TO INDUSTRY 4.0 IN THE LOGISTICS VALUE CHAIN



The High Technology in Logistics 4.0 incubator was created with the aim of providing services to the business, scientific and technological sectors associated with the logistics value chain that are susceptible to industry 4.0, adding technological value to both products and processes.

This new project, 50% financed with FEDER funds managed by INCYDE, faces the main challenges of improving the efficiency and versatility of production processes, the reorientation and diversification of some subsectors, the internationalisation of incubated initiatives, the encouragement of innovation and the development of specialised talent.

The opportunities of this High Technology Incubator in Logistics 4.0 are to boost the productive fabric, increase the economic impact and develop greater digital competences, both in skills and knowledge to consolidate the logistics hub.

The incubator is focused on different emerging technologies in the logistics sector: robotics and automated warehouses to optimise processes; the emergence of the Internet of Things (IoT); Big Data to convert them into business insights; the last mile, a key element in e-commerce; as well as 3D printing, Artificial Intelligence and green logistics.









AldoraTech uses drones with its own techonology to integrate autonomous last-mile aerial transport services directly where the material to be transported is located, both in healthcare infrastructures and in the warehouses of established carriers. Its services foster new models that decongest the logistics sector, offer cost reductions and enable the creation of new markets based on greater personalisation, speed and quality of deliveries.



Project to be developed:

3D printing: redesigns, benchmarking of materials and techonologies, certification of aeronautical components, mechanical and topological studies...





Bleecker



Bleecker Technologies develops solutions to optimise logistics processes through the use of computer vision and artificial intelligence. Its tools use internationally patented, disruptive visual codes to overcome the operational shortcomings of other technologies, such as barcodes, Datamatrix codes or RFID. Bleecker codes can be read on the move, multiple times, over long distances and in real time by cameras and mobile devices. In addition, Bleecker's solutions have an open API that allows for easy integration with the customer's existing software.



Project to be developed:

Customised hardware solution for the development of our own camera for reading Bleecker codes, with a certain computational capacity to execute the decoding algorithms. Technological consultancy to adapt your solution to other sectors. This support would be key for the implementation of customised solutions in Bleecker system integration projects in end customers.







BooBoo is the first 100% digital logistics operator that uses Al in its external and internal logistics processes for any transport and logistics need of its customers, obtaining a real digital outsourcing of 100% of their needs. Through its platform, 100% of the necessary logistics and transport processes are fully digitised and automated in real time for any transport need, whether it is a package, a pallet or a container, etc., and to any destination worldwide.



Project to be developed:

Advance in the optimisation and harmonisation of various distribution networks, synchronising different types of networks in the delivery of the same shipment in a multimodal way.









E²Cofelvring is the core creator of a logistics transport infrastructure set to radically change the competitiveness and automation of connected companies. Its underground, continuous and automatic flow feeds the industrial and logistics environment with costs at a 1/3 of today's, with CO2-free distribution and predictable up-to-the-minute deliveries. It feeds an environment of 400km2 to 800 km2, with 100% digitised flow of goods and traceability through a three-way ring tunnel.



Project to be developed:

Collaborative development of a virtual model of the ring, modelled in a "Pilot Project" (AMB/RMB) to be extended in the EU. The virtual model includes the feasibility of the concept of:

1: Hardware (LIM carriers, robots, power plant, ring tunnel and Hubs).

2: Model management software (demand, traceability and digitisation of freight traffic).

3: Ecosystem of exploitation and use, which includes attracting potential partners (investors, implementers, large customers and operators in all their business alternatives) until the formation of the Project Management Consortium (DCP) that will start the physical project.



columat Columat



Through the implementation of Click&Collect solutions, **Columat** offers an intelligent collection point through a locker system that allows managing the delivery, collection and return of any refrigerated and parcel purchase. In this way, the solution offers omnichannel commerce, optimizes processes and promotes digitalization. All this is managed from a platform to the cloud that allows the reservation of the compartments and the complete traceability of the status of the collections.



Project to be developed:

Software and hardware improvement in order to provide an even better service. Improvement of the knowledge of the relevant team, by training them on software and hardware development.







Eaship is a cloud platform, with which manufacturers and logistics operators can manage their transport agreements, configure the automatic assignment of shipments to carriers, assign loading docks intelligently, and have all operations controlled thanks to its control tower. **Eaship** offers an intuitive and totally user-oriented platform with a subscription model that allows its customers to optimize their logistics processes, saving time and resources, and guaranteeing deliveries to the most demanding industries.



Project to be developed:

Development of a software *as a service*, based on the cloud and developed with REST architecture. Two business lines: *cloud* services at Google (servers, buckets, devops); geo HERE services: geolocation API and intelligent routing.







EcoDeliver is the courier that offers the most sustainable parcel deliveries for ecommerce, going beyond electric mobility. ecoDeliver offers a virtually decarbonised transport chain. It does so thanks to the 100% electric last mile and collaborative transport between large cities, allowing individuals to transport packages with them, taking advantage of the free space in their vehicles and avoiding that trucks' journey.



Project to be developed:

Develop an AI system that allows predicting the volume of travelers that will cover the routes to estimate the shipping capacity that the platform can afford. In addition, they will incorporate the use of 3D printing to create devices that promote safety in collaborative trips in a second stage.







Enkitek develops a system for digitization, connectivity and automation of hydroponic cultivation processes. Through a unique technology, through computer vision, AI, robotics and a monitoring interface, it manages to automate the most expensive processes of the production process and increase said production.



Project to be developed:

Develop AI through Deep Learning for the early detection of diseases, pests and monitoring the growth of hydroponic crops.







Estoko Logistics is a new way of understanding warehousing and industrial logistics, interconnecting companies that need flexible storage space or close or capillary distribution, with other companies that have excess storage capacity unused through the Cloud. Using the Estoko Logistics Cloud technology, companies can manage one or multiple warehouses for all types of goods. The environmental impact can be reduced with the elimination of emissions of up to 30%, in nationwide operations.



Project to be developed:

Develop AI to create stock control and planning algorithms in order to optimise the opening of warehouses, locations, as well as the reuse of existing space.



»FRESCTRANS Fresctrans



Fresctrans is a transport company specialized in the sector of food at controlled temperature that works with local producers, manufacturers, distributors among others, offering a good service-quality-price ratio.

It also offers the possibility of selling its customers' products through Frescmarket (B2C) and Frescfoods (B2B). Frescmarket is an online supermarket that offers high-quality fresh products, looking for the proximity of local producers.



Project to be developed:

Development of cloud technology that offers the latest features: route optimization, package tracking, route cost control, vehicle geolocation, an app for drivers, an internal drivers chat, intelligence bussines on logistics processes, measurement and continuous improvement of the customer experience.







Gandolapp is a virtual companion through a mobile app aimed at truck drivers that improves the work experience inside the truck cab, digitalises operations and optimises communications through multilingual voice assistance. The driver can converse and listen in different languages, as well as automate external tasks while driving. Logistics agents obtain data such as geo-positional and functional traceability, know the loading/unloading of their trucks and containers, and predictability in departing/arriving traffic at ports or loading/unloading points.



Project to be developed:

Predictability and location of assets (containers and goods), provide functional traceability to predict arrival at ports and advance in AI to detect this predictability. Computing all possible stops in its database and providing a layer of AI software that enables traceability and predictability.



RHARDMAN Hardman



Hardman develops a software solution that automates, digitizes and simplifies the cargo management process of a logistics plant whether from a manufacturer or a distributor, inbound or outbound. This allows unattended management of information transmission, visibility of operations, digital document management and, especially, efficient slot and dock management. **Hardman** differentiates itself by having a vision of the loading slot that is distinctive from the rest, prioritizing: flexibility of choice, total automation, double commitment, double allocation (slot + dock), reliable repository, and affordable costs both monetarily and in implementation time.



Project to be developed:

Develop an AI system that autonomously captures documentary evidence from a system of cameras located on docks or on forklift, to have these tests automatically and be attached to the shipping documentation. It is aimed at customers with a high product value who assign one person per shift to obtain a graphic proof of the goods on the truck.







Illumo Robotics is a software company offering robotic picking services for e-commerce warehouses. Its robots triple the cost-effectiveness of manual handling with record productivity for a wide variety of products (supermarket, DIY, fashion, cosmetics, etc.). Service costs are based on the volume of operations and are predictable and flexible. Its solution allows it to absorb order peaks, maintain the availability of these operations and improve order traceability.



Project to be developed:

Improve their software through artificial intelligence to detect and interact with unknown objects, optimise the speed of product movement and adapt to unpredictable changes.







Innporting is a technological web platform that connects exporting and importing companies with transport companies, obtaining a better price through the network of suppliers. Its platform is applicable to sea, land and air transport, offering instant prices to contract a load quickly; it also provides analytics, real-time tracking of the shipment or invoicing.



Project to be developed:

Grow in server infrastructure, improve the site both in frontend (angular), backend (spring) adding new functionalities and deepen and improve machine learning and Al algorithms.



Jotavirtual Jotavirtual



Jotavirtual converts physical spaces of large surfaces into immersive and interactive virtual spaces, implementing augmented reality and virtual reality. It optimises the navigation system within large warehouses, allowing the most efficient routes to be chosen within the warehouse without the need for prior planning. Virtual spaces can be explored through immersive meetings with avatars, generating a metaverse experience.



Project to be developed:

Become part of the incubator to have access to mentoring, financing, innovation and networking services.



Last Mile Team



Last Mile Team applies cutting-edge technologies, including Artificial Intelligence and Data Science, to drive sustainable, digital and socially responsible transitions in the road freight industry, delivering high-impact results. Its objective is to generate a transformative change in the logistics value chain.



Project to be developed:

Update its technological platform and develop machine learning models to improve its Digital Twin.







LetMePark is a revolutionary connected car company that applies predictive algorithms and artificial intelligence to deliver an advanced, personalized parking experience for a connected world. Its goal is to provide the best user experience in the parking lot using voice technology and the connected car.



Project to be developed:

Develop the automatic parking solution for delivery vehicles in regulated loading and unloading areas through connected car technology.

The technology is used to collect vehicle data, feed the algorithms for detecting a parking event and start a parking session automatically in the loading and unloading areas, with the aim of improving the delivery person's experience and offering the availability of real occupancy data of the spaces for the City Council.

The connection with the car data is made through the own device connected to the OBD port of the vehicle or direct connection with the data of its manufacturer.



metrickal Metrickal



Metrickal implements a candidate recruitment platform that generates a professional CV. The platform allows candidates to have access to computer tools training courses, SaaS, specialized courses. **Metrickal** will not only validate the completion of the course, but also the results obtained in subsequent examination, through an interview with Al.



Project to be developed:

Short-term development of the use of AI so that the platform itself can ask questions to the candidate, facilitating the prior filtering to the HR departments.



C mouters **Mouters**



Mouters is a company that was born with the vocation of offering sustainable mobility solutions to companies. It currently offers 2 lines of business: sale and rental of vehicles specialized in the latest features and delivery; and the development of vehicle tracking software, with its own technology specialized in micromobility and unique use cases.



Project to be developed:

Optimization of the software for its use with autonomous GPS devices. Computer development that allows the analysis of large volumes of data, and through the use of big data with AI.







MRPlay provides fast training and experience in hard skills of logistics. Through its gamified simulators, students practice in stock management by overcoming challenges of increasing difficulty and gaining confidence in their decisions through the virtual experience.



Project to be developed:

Continue with the development of the simulator focused on stock management, being able to achieve a virtual procurement experience of one year in one month.



NABLAISION NablaVisión



Nabla Vision offers customised real-time 3D perception solutions that improve both teleoperation and the performance of existing machine vision algorithms, integrating highly competitive sensors with off-the-shelf 3D LiDAR cameras and devices. Focused on solving safety issues and improving operational efficiency in intelligent monitoring, remote operation, autonomous navigation and real-time robotics applications. High-density 3D point cloud fusion with imaging facilitates relocation and mapping, as well as detection, identification and tracking in outdoor, dynamic and/or complex environments.



Project to be developed:

Develop the intelligence of the vision system, so that the software can process the images, interpret them and, on that basis, make decisions and give indications to the entities working in the warehouses in real time.







SCMT is a neutral 4PL supply chain management and optimization services consultancy dedicated to the customized deployment of control towers for SMEs. The company designs policies and manages the supply chain on behalf of clients using a proprietary technology foundation to realize savings, manage tenders, provide visibility and traceability of all operations, providing business intelligence and personalized recommendations through big data analytics and advanced machine learning based logics.



Project to be developed:

One of the biggest technological challenges facing the platform is to maintain a perception of simplicity, making the whole process self-guided by an artificial intelligence logic assistant. Creating increasingly complex recommendations based on the environment, market context, decision history, or user profile through big data analysis, both internal and external.



SIMIG SOLUTIONS DATA SOLUTIONS THAT WORK Simig Solutions



Simig Solutions creates innovative analytical solutions to solve business problems. Specialized in logistics and industrial sector, with a team oriented to results and to generate tangible impact. They carry out end-to-end custom projects in data analytics (Cloud Architecture, Big Data, Al and Business Intelligence) packaged in the form of a cloud service.



Project to be developed:

Software for aggregation of demand and capacity for last mile deliveries (food-delivery and parcels) optimizing routes for multi-platform shipments thus reducing the environmental and mobility impact while improving the benefit per distance traveled. Short-term development of API connections to different marketplaces and optimization of routes using AI.



Smart Point City Smart Point City



Smart Point City operates smart ticket offices at street level in 10 European cities, along with a fleet of electric vehicles. Its high-volume vehicles deliver parcels 8 times faster, 50% cheaper and with 98% lower emissions than conventional systems. Named World PropTech of the Year in 2020 and winner of Germany's Builtworld Global Innovation Contest, it is one of 15 EU-backed solutions to counter climate change.



Project to be developed:

Prototype for 3D injection moulds, developing the anchor that activates the locker. In a second phase, the robotisation of deliveries and sensor positioning will be implemented to improve delivery.



tuklo Tuklo



Tuklo is a cloud-based SaaS platform that provides logistics solutions and integrations by developing a robust API ecosystem. It integrates customer systems such as inventory management, OMS, WMS, ERP or e-commerce platforms. It provides a solid and accountable solution to manage demand across multiple use cases.



Project to be developed:

Incorporate a warehouse control and management part into your current solution, through two phases: research what market solutions exist; propose improvements to the current solution and develop them.







Usyncro is a multimodal solution (land, sea, air and space), based on Blockchain and Al technology to synchronize all actors in the supply chain. A SaaS in the cloud that provides more efficient and secure methods to carry out international trade providing confidence to those involved and without losing data governance. Authorities, carriers, shippers, freight forwarders and other agents and services come together in an interoperable, open, neutral and flexible environment based on collaboration.

The use of Blockchain technology provides transparency and security to the process of shipping goods among the participating organizations, including the authorities. It offers a document management model that reduces the time spent on each file by 60% and the environmental impact of logistics management by 80%.



Project to be developed:

Continue working on the creation of neural networks to achieve greater automation of operations through the use of Artificial Intelligence. Its objective is the digitalization of transport documentation, with a global and geostrategic vision, which includes the implementation of Digital Corridors worldwide.







Valerdat is an innovative solution specialized in purchasing management within the supply chain. By using artificial intelligence and real-time data analysis, its software generates perfect purchase orders, which minimize costs and risks, while boosting the competitiveness of the entire company. Its focus is on optimizing and automating processes, streamlining decision-making, and improving business efficiency.



Project to be developed:

Software development with artificial intelligence and machine learning for purchasing management.







Webtrans develops the Transmart collaborative platform that addresses the challenges of digitisation. The unique ecosystem is implemented across the entire supply chain where powerful algorithms and technology link supply and demand in a fully digitised way, improving logistics by land, sea and air.



Project to be developed:

Expand Al's capacity to further leverage its technology to realise new digitisation projects within the supply chain and transport, focusing on increased predictability to further meet the needs of the transport sector.



Welivery Welivery



Welivery is an ecommerce logistics company that offers innovative solutions, such as 360° reverse logistics and smart route optimisation. With a presence in Argentina, Chile, Colombia and Spain, they are transforming how the products are been moving in the digital world, guaranteeing fast and efficient deliveries and providing an exceptional experience.



Project to be developed:

Keep developing its system by including more platforms to facilitate more global coverage.









Cámaras Fundación INCYDE

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