



LOGISTICS 4.0 INCUBATOR

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"Una manera de hacer Europa"

Cámaras
Fundación INCYDE



The High Technology Incubator in Logistics 4.0 was born with **the objective of providing services to the business, scientific and technological community** of different sectors associated with the logistics value chain susceptible to Industry 4.0, adding technological value to both products and processes.

The main challenges faced by this new project, 50% financed by ERDF funds managed by INCYDE, are **improving the efficiency and versatility of production processes, reorienting and diversifying some subsectors, internationalizing incubated initiatives, encouraging innovation and developing specialized talent.**

The opportunities of this High-Tech Incubator in Logistics 4.0 **are to boost the productive fabric, increase the economic impact and develop greater digital competencies**, both in skills and knowledge to consolidate the logistics hub. The incubator has different focuses on emerging technologies within the logistics sector: **robotics and automated warehouses to optimize processes; the emergence of the Internet of Things (IoT); Big Data to turn it into business insights; the last mile, a key element in e-commerce; as well as 3D printing, Artificial Intelligence or green logistics.**





LIST OF INCUBATED STARTUPS

Solución en formato SaaS
suministro en real time
prima, riesgos, costes, etc.
aprender cómo comprar
en la ejecución de órdenes

ZF Barcelona
2014-2016



Aldora Tech



AldoraTech uses drones with its own technology to integrate autonomous last-mile air transport services directly to where the material to be transported is located, both in health infrastructures and in warehouses of established carriers. Its services promote new models that decongest the logistics sector, offer cost reduction and allow the creation of new markets based on greater personalization, speed and quality of deliveries.



Project to be developed:

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



Actiontracker



Actiontracker is based on selling customers the following products and services: consulting services for the definition of the type of equipment and subsystems to be integrated; communication and support services needed by the customer, communications switchboard or radio base; sale of the devices, wearables and shipments, Exocare; connectivity service to data communication networks (mobile telephony, NB-IoT, LTE and satellite access); software platform access service (PaaS or SaaS), or software as a service, since access to the platform will be obtained according to the type of access licenses; support and troubleshooting services, to be performed largely remotely, and equipment maintenance and repair.



Project to be developed:

The combination of the above factors will define different packages that will dynamically adjust to the needs and preferences of the customer, to their budget and to compete directly with the offer of other companies. Actiontracker has a go-to-market plan, which will proactively focus on B2B, being reactive to B2C.



Bleecker



Bleecker Technologies develops solutions to optimize logistics processes using computer vision and artificial intelligence. Its tools use internationally patented disruptive visual codes and make it possible 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 using cameras and mobile devices. In addition, Bleecker's solutions have an open API that allows easy integration with the client company's existing software.



Project to be developed:

Tailor-made hardware solution for the development of our own camera for the reading of Bleecker codes, having a certain computing capacity to execute the decoding algorithms. Technology consulting to adapt your solution to other sectors. This support would be key for the implementation of tailor-made solutions in Bleecker system integration projects in end customers.

ControlT ControlT



ControlT is a SaaS platform that develops software solutions for processes associated with the transport of goods, with the aim or purpose of making its customers more competitive.



Project to be developed:

Its solutions are based on 3 pillars: integration of data sources (GPS, TMS, ERP, Apps, etc.); data-driven decision-making and improved communications with the actors involved in the process.

ControlT's customers have managed to increase the rate of effective deliveries, improve customer satisfaction, reduce costs associated with process traceability and improve compliance with process indicators, among others.



E²Cofelvring



E2Cofelvring is the creator of a logistics transport infrastructure that is set to radically change the competitiveness and automation of connected companies. Its continuous, automatic underground flow feeds the industrial and logistics environment with costs at 1/3 of today's, with CO2-free distribution and predictable deliveries to the minute. It feeds an environment of 400km² to 800 km², with 100% digitized flow of goods and traceability through a tri-track 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 making the hardware concept feasible (LIM carriers, robots, power plant, ring tunnel and Hubs); Management software of the model (demand, traceability and digitalization of freight traffic,) and ecosystem of exploitation and use, so it includes the capture of potential Partners (investors, implementers, large customers and large operators in all their business alternatives) until the formation of the Project Management Consortium (DCP) that will start the physical project.



Eaship is a cloud-based 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, fully user-oriented platform with a subscription model that allows our customers to optimize their logistics processes, saving time and resources and ensuring 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 lines: cloud services at Google (servers, buckets, devops); geo services HERE: Geolocation and Smart Routing APIs.



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 the need for a truck to make that journey.



Project to be developed:

Develop an AI system to predict 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 travel in a second phase.



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 in the production process and increase production.



Project to be developed:

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



ENVIO x ENVIO is a 100% digital transport operator. Through its self-developed software, exporters and importers can obtain transport prices for their goods instantly, totally free of charge, and benefit from the comparison made by the software itself between hundreds of transport options and alternatives. Its mission is to bring technology and software closer to shippers, to optimize their costs in each load, enabling them to work with specialists from every corner of the continent.



Project to be developed:

Currently ENVIO x ENVIO has developed the entire main software solution and is implementing an Artificial Intelligence layer to the project. Now, it offers ground transport throughout Europe, but its intention is to implement sea and air freight solutions worldwide soon.



Estoko Logistics is a new way of understanding industrial warehousing and logistics, interconnecting companies that need flexible storage spaces or nearby or capillary distribution with other companies that have excess unused storage capacity through the Cloud. Thanks to Estoko Logistics' Cloud technology, companies manage one or multiple warehouses for all types of goods. It will be possible to reduce the environmental impact 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 so that the opening of warehouses, locations, as well as the reuse of existing spaces can be optimized.

Flexyfreight



Flexyfreight is an online platform for optimizing ocean groupage through independent cargo consolidation. We bring together supply and demand from shippers and carriers and use smart algorithms to provide better use of container space. In this way, we help reduce shipping costs and carbon footprint and improve communication between the actors involved.



Project to be developed:

Development and launch of a platform for the independent consolidation of cargoes for maritime groupage in Spain. Market research and user needs from both the demand side and the supply side.



GandolApp



Gandolapp is a virtual companion through a mobile app aimed at truck drivers that improves the work experience inside the truck cab, digitizes operations and optimizes communications through multilingual voice assistance. The carrier 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, knowing the loading/unloading of their trucks and containers, and predictability in departure/arrival traffic at ports or loading/unloading points.



Project to be developed:

Predictability and location of assets (containers and goods), providing functional traceability to predict arrival at ports and advancing in AI to detect this predictability. Compute all possible stops in your database and provide an AI software layer that allows traceability and predictability.

GRASSHOPPER Air Mobility



Grasshopper Air Mobility develops eVTOL electric drones with autonomous flight and driving capabilities for industrial logistics. Our flagship drone transports up to 350 kg over 200 km, integrating with Industry 4.0 logistics systems through autonomous loading and unloading.



Project to be developed:

We focus on speeding up deliveries, enhancing sustainability, and reducing costs in sectors such as manufacturing, cold chain logistics, remote area support, and military logistics. We connect ports, airports, train stations, warehouses, factories, industrial zones, and remote areas, transforming modern logistics.



GRONE Global Logistics Partners is a transport and logistics company of the international GRONE Group, which offers door-to-door freight forwarding services worldwide.



Project to be developed:

GRONE specialises in air freight from Asia to Europe, with around 75 flights per week. It has its own infrastructure and 26 offices at major Asian airports. GRONE transports cargo to Europe from anywhere in the world and finds logistics solutions with better transit times and better rates.



Hardman develops a proprietary technology software solution that automates, digitizes and simplifies the cargo management process of a logistics plant, whether it is a manufacturer or a distributor, inbound or outbound. This allows for 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 load slot that is distinctive from the rest, prioritizing: flexibility of choice, full automation, double commitment, double allocation (slot + dock), reliable repository, and affordable costs both monetarily and in deployment time.



Project to be developed:

Develop an AI system that autonomously captures documentary evidence from a system of cameras located on docks or in the bays, to have this evidence automatically and attach it to the shipment documentation. It is aimed at customers with a high product value who spend one person per shift to obtain a graphic proof of the goods by truck.



HermlA



HermlA is a SaaS computing solution based on Machine Learning and AI for the continuous optimization and automation of operations related to the supply chain, the analysis and management of real-time data of the import and export of containers and the integration of these systems within the management ecosystem of companies.



Project to be developed:

Develop and test the minimum viable product (MVP). Gain in-depth knowledge of the needs of logistics companies and those in which this department has a great weight within their supply chain.



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



Project to be developed:

Improve your software using artificial intelligence to detect and interact with unknown objects, optimize the speed of product movement, and adapt to unpredictable changes.



Janvi Logistics



Janvi Logistics offers to rationalize, make more flexible and dynamize the needs and available storage capacities within logistics 4.0. Managing through a marketplace from which we help companies with temporary or recurring storage needs to achieve this through the idle space of other companies, in a flexible way, and only paying for the space and time occupied. We are also able to make the most of our collaborators' surplus spaces.



Project to be developed:

Creation of software that allows the management of warehouses and their stocks in a digitized way, as well as improving the customer experience by incorporating environmental and economic sustainability initiatives. Increase the team and improve knowledge regarding the service.

Jotavirtual. Jotavirtual



Jotavirtual converts physical spaces of large surfaces into immersive and interactive virtual spaces, implementing augmented reality and virtual reality. It allows you to optimize the navigation system within large warehouses, allowing you to choose the most efficient routes within the warehouse without the need to plan them beforehand. Virtual spaces can be explored through immersive meetings with avatars, generating a metaverse experience.



Project to be developed:

Be part of the incubator to have mentoring, funding, innovation and networking services.



kepler. Kepler



Kepler is a platform of productivity tools for logistics companies. It was created with the goal of automating manual tasks and adding analytical capabilities to increase productivity and improve decision-making.



Project to be developed:

Automate invoicing and collection management for transport companies.



Kovix transforms logistics through software. They develop tailor-made solutions for the entire supply chain, delivering warehousing, transport, retail and e-commerce solutions.



Project to be developed:

Through RetailOS, they seek to transform mid-sized companies into large, scalable businesses, helping them take the operational big step. By connecting the responsibilities of a WMS, TMS, DRP and OMS, in the same ecosystem, they can scale complex operations and reduce integration costs. In this way, they satisfy a fundamental pain point in the industry.



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



Project to be developed:

Develop the automatic parking solution for delivery vehicles in regulated loading and unloading zones through connected car technology. The technology is used to collect vehicle data, feed the algorithms for detecting a parking event and automatically start a parking session in the loading and unloading areas, with the aim of improving the experience of the delivery person and offering the availability of the real occupancy data of the spaces for the City Council. The connection to the car's data is made through the vehicle's own device connected to the vehicle's OBD port or direct connection to the vehicle's manufacturer's data.

Myappsistance



Myappsistance is dedicated to providing a digital roadside assistance solution for all types of vehicles that have suffered some type of accident or breakdown. Our unique technology solution offers fast, efficient and economical service to keep your trail safe.



Project to be developed:

An innovative roadside assistance company that operates in a 100% technological way. Its business model focuses on making the most of technology to offer efficient and personalized services to our logistics customers.



MRPlay



MRPlay provides training and rapid experience in the hard skills of logistics. Through its gamified simulators, students practice stock management, 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 experience in procurement of one year in one month.



Nabla Vision offers tailor-made real-time 3D perception solutions that improve both tele-operation and the performance of existing artificial vision algorithms, integrating very competitive sensors with cameras and 3D LiDAR devices on the market. Focused on solving safety issues and improving operational efficiency in intelligent monitoring, remote operation, autonomous navigation and real-time robotics applications. Merging high-density 3D point clouds with imagery 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 allows the processing of images, interpretation and, from there, it is possible to make decisions and give indications to the entities that work in the warehouses in real time.

● Nub Freight Nub Freight



Nubfreight is a platform that integrates the main carriers and allows you to obtain multiple prices per shipment, shipment tracking and unified reporting. Our product solves transportation cost control, visibility, and operational efficiency issues. This allows our customers to have efficient processes for logistics equipment, improve their service and save money. Your management teams have more transparency on transportation and operational expenses, in addition to budget or sales-related KPI transportation expenses.



Project to be developed:

Our goal is to release an improved version where ease of use and user experience is focused. Apart from continuing with commercial expansion and new carriers.



SCMT is a neutral 4PL supply chain management and optimization services consultancy dedicated to the bespoke deployment of control towers for SMBs. The company designs policies and manages the supply chain on behalf of customers through its own technological base to achieve savings, manage tenders, provide visibility and traceability to all operations, providing business intelligence and personalized recommendations through big data analysis and advanced logic based on machine learning.



Project to be developed:

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



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



Project to be developed:

Demand aggregation software 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 journeys using AI.

Sonata Sonata



Sonata is a platform for automating the assignment of trips to carriers/drivers, document management, and invoicing. The startup has developed a WhatsApp Bot and we are integrated with SAP, Microsoft Navision, and other ERPs.



Project to be developed:

During the incubation in Logistics 4.0 we will seek to adapt the platform to solve the challenges of the port ecosystem.

Total Logistik



Total Logistik wants to digitalise the world of logistics and help create a better network. That's why we connect Europe's freight exchanges and TMS systems.



Project to be developed:

The network created helps logistics companies to work even more efficiently, to organise cargo faster or to better utilise their trucks. The digital AI dispatcher also makes work more predictable and easier, as freight can already be suggested as return freight. The time saved helps the dispatcher to work more relaxed and to concentrate on the main tasks smoothly and to concentrate even better.



Usyncro is a multimodal solution (land, sea, air and space), based on Blockchain technology and AI 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 interoperative, 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 organizations involved, 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 digitization of transport documentation, with a global and geostrategic vision, which includes the implementation of Digital Corridors worldwide.



VAIVE
LOGISTICS

Vaive Logistics



Vaive Logistics allows us to respond to the needs of companies in the logistics sector by offering a last-mile transport alternative with a fleet of autonomous, electric and intelligent vehicles called Ona. This is intended to reduce the high cost and mitigate the negative externalities of last-mile deliveries, as well as to optimize parcel distribution in dense urban areas. The aim is to offer logistics operators the use and integration of autonomous vehicles through a subscription model.



Project to be developed:

To continue with the technological development of the current prototype in order to certify and homologate our Ona autonomous vehicle. Validate our value proposition from a real business perspective through a long-term pilot test.

wecaria Wecaria



Wecaria is a mobility platform that connects and digitizes vehicles and offers drivers and companies technological services and solutions. In other words, it connects vehicles (cars, motorcycles, vans, trucks, etc.) and extracts data from the control unit in order to develop new models and services. It operates by offering services to fleets (geolocation, remote locking, etc.) and to workshops and dealers (automating marketing based on the real needs of each vehicle). It offers a B2B SaaS and an app for drivers.



Project to be developed:

Wecaria is working to increase and expand the functionalities offered in both the Panopticar software and the Wecaria app.

A modern office interior with glass walls, tables, and chairs. The scene is overlaid with a semi-transparent grey filter and several large, semi-transparent pink circles on the left side. The text is centered in the middle of the image.

LIST OF STARTUPS THAT HAVE ENDED ITS INCUBATION

Solución en formato SaaS
suministro en real time
prima, riesgos, costes, etc.
aprender cómo comprar
en la ejecución de órdenes

ZF Barcelona
2014-2016



BooBoo is the first 100% digital logistics operator that uses AI in its external and internal logistics processes for any transport and logistics needs 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 digitized 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 developed:

Progress in the optimization and harmonization of various distribution networks, synchronizing different types of networks in the delivery of the same shipment in a multimodal way.



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



Project developed:

Improvement of its software and hardware to provide an even better service. Improvement of the knowledge of the relevant team through training on software and hardware development.



Fresctrans is a transport company specialized in the temperature-controlled food sector 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 quality fresh products, seeking the proximity and closeness of local producers.



Project developed:

Development of cloud technology that offers last-mile services: route optimization, package tracking, route cost control, vehicle geolocation, app for drivers, internal driver chat, business intelligence on logistics processes, measurement and continuous improvement of the customer experience.

Innporting



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 hire a load quickly; It also provides analytics, real-time tracking of the shipment or invoicing.



Project developed:

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



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, achieving high-impact results. Its goal is to generate a transformative change in the logistics value chain.



Project developed:

Upgraded its technology platform and developed machine learning models to improve its Digital Twin.

metrickal Metrickal



Metrickal implements a candidate recruitment platform that generates a professional CV for all of them. The platform allows candidates to have access to training courses in IT tools, SaaS, specialized courses. Metrickal will not only validate the completion of the course but also the results obtained in the subsequent exam, through an interview conducted with AI.



Project developed:

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



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 leasing of vehicles specialized in the last mile and delivery; and development of vehicle tracking software with proprietary technology specialized in micromobility and unique use cases.



Project developed:

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

Smart Point City Smart Point City



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



Project developed:

Prototype for 3D injection molds, developing the anchor that activates the locker. In a second phase, the robotization of deliveries and sensor placement will be reflected in order to improve delivery.



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



Project developed:

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



Valerdat is an innovative solution specialized in procurement management within the supply chain. Through the use of artificial intelligence and real-time data analysis, their software generates perfect purchase orders, minimizing costs and risks, while boosting the competitiveness of the entire company. His focus is on optimizing and automating processes, streamlining decision-making, and improving business efficiency.



Project developed:

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



Webtrans develops the Transmart collaborative platform that responds to the challenges of digitalization. The unique ecosystem is implemented throughout the supply chain where, through powerful algorithms and technology, it unites supply and demand in a fully digitized way, improving logistics by land, sea and air.



Project developed:

Expand the capacity of AI to further enhance its technology and be able to carry out new digitalization projects within the supply chain and transport, focusing on increasing prediction and thus further meeting the needs of the transport sector.



Welivery is an e-commerce logistics company that offers innovative solutions, such as 360° reverse logistics and smart route optimization. With a presence in Argentina, Chile, Colombia and Spain, they are transforming the way products move in the digital world, ensuring fast and efficient deliveries, and providing an exceptional experience.



Project developed:

Developing your system by including more platforms to facilitate more global coverage.



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