

4TH GAZELLE ACCELERATOR ONLINE PROGRAMME EVENT

BUSINESS PROFILES OF SMES AND START-UPS SELECTED

NOV / DEC 2021



**Gazelle Accelerator was born from a simple analysis :
European technology based companies have a high-growth
potential but their expansion is often hindered by the industrial
fragmentation and by their lack of visibility on the European
market.**

Therefore, Gazelle Accelerator, business acceleration activity of EIT Manufacturing, aims at supporting existing technology-based companies, SMEs and start-ups ; by accelerating their international business and innovation capacities. Gazelle Accelerator will provide SMEs and start-ups with the network and support they need to expand and become the future European Gazelles.

**Uses cases identified are challenges in manufacturing companies
in the Industry 4.0 topic.**

The aim of this brochure is to provide a business profile overview of the start-ups and SMEs selected to participate to the 4th Gazelle Accelerator matchmaking event planned in November and December 2021.

Enjoy the reading!

PROJECT PARTNERS

GAZELLE ACCELERATOR'S TEAM IS MADE UP OF INDUSTRIAL, RESEARCH AND ACADEMIC PARTNERS.

COMPLEMENTARY EXPERTISE WILL BE USED TO GRADE UP AND ACCELERATE 50 PROMISING START-UPS OR SMES THROUGH OUR AMBITIOUS SUPPORT PROGRAMME.



Aerospace Valley

Aerospace Valley is world's first aerospace cluster, dedicated to the strategic sectors of Aeronautics, Space and Drones, in France. With its 5 excellency ecosystems – Embedded and Communicating Systems, Structures and Mechanical Systems, Propulsion and Embedded Energy, Data and Artificial Intelligence, Products and Services for the Industry, Aerospace Valley drives a supportive, competitive and attractive community, aimed at fostering innovation in view of growth. Ranking among the top three clusters for the performance of its cooperative R&T projects (among which 580 have already been financed), Aerospace Valley is in charge of animating a dynamic network of international reputation, composed of 850 members (companies, research and training centres, universities and schools, local authorities). Aerospace Valley has as a mission to support the development of the aerospace sector and to increase its competitiveness. To achieve this a critical task is to promote introduction of advanced manufacturing technologies which will improve the competitiveness of the European industry.



LINPRA

LINPRA - Engineering Industries Association of Lithuania. LINPRA is an independent business organisation, representing Lithuanian engineering industry, interests of companies, working in metal, machinery and equipment, electromechanics and electronics, plastics and rubber industry on international and national level.





KTU

Kaunas University of Technology (KTU) is the oldest technological university in Lithuania, established in 1922. KTU known for its linkages with business, leadership in scientific research, flexible interdisciplinary study programmes and unforgettable study experience. KTU's Startup Space (27 startups in 3 recent years) fosters young businesses, providing much sought-after support and knowledge needed by new enterprises. KTU is having a specialised Technology Entrepreneurship module applying Silicon Valley teaching methodologies, practically demonstrating the transformation of research and ideas into real-world businesses.



LMS

The Laboratory for Manufacturing Systems & Automation (LMS) is oriented on research and development in cutting edge scientific and technological fields. LMS is involved in a number of research projects funded by the CEU and European industrial partners. Particular emphasis is given to the co-operation with the European industry as well as with a number of "hi-tech" firms. LMS is organized in three different groups : 1) Manufacturing Processes Modelling and Energy Efficiency, 2) Robots, Automation and Virtual Reality in Manufacturing, 3) Manufacturing Systems and it has a fully equipped machine shop that contains high payload industrial robots, collaborative robots and machine tools.



RoboValley

RoboValley is a centre for robotics, headquartered in Delft, Netherlands. RoboValley is powered by the Robotics Institute of Delft University of Technology. RoboValley aims to facilitate collaboration between researchers, governments and enterprises. Currently, RoboValley is looking to attract robotics companies and researchers in the field of robotics in order to facilitate this collaboration.



TU Delft

Top education and research are at the heart of the oldest and largest technical university in the Netherlands. Our 8 faculties offer 16 bachelor's and more than 30 master's programmes. Our more than 25,000 students and 6,000 employees share a fascination for science, design and technology. Our common mission : impact for a better society.



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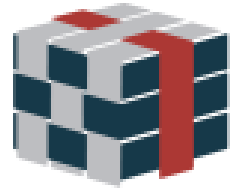
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**BUSINESS PROFILES OF
INNOVATIVE SMES AND START-UPS
SELECTED TO THE 4TH GAZELLE
ACCELERATOR PROGRAMME**





3DiTex
innovative textiles

3DITEX

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7



Company identification

Name : 3DiTex

Website : 3ditex.com



Company history

Year funded : 2017

Employees : 9

Location : France
(Saint-Médard-en-Jalles)



Company presentation pitch

[Watch presentation](#)



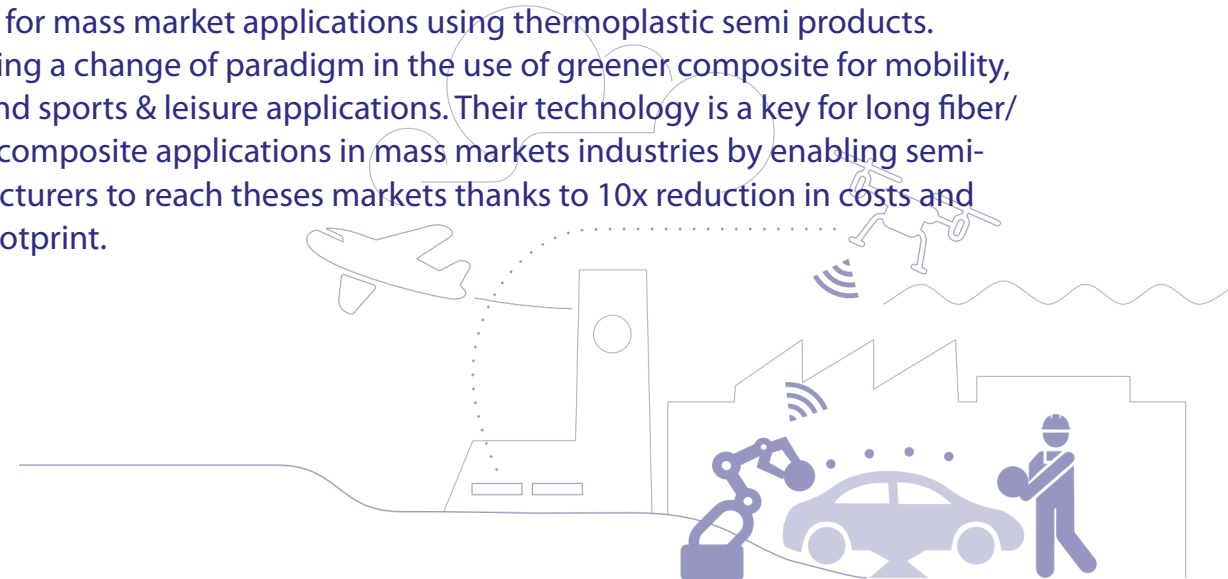
Company presentation

3DiTex is positioned as a producer of technical textiles for composites, using patented and proprietary production machines. The aim of 3DiTex is to democratize the use of low environmental footprint composites in sectors where production costs are a blocking point or a brake on their development and in particular for hollow / tubular parts.



Company interests for the Gazelle Accelerator programme

The capacity to have a continuous production of complex shape multilayer hollow preforms/textiles for mass market applications using thermoplastic semi products. Altogether enabling a change of paradigm in the use of greener composite for mobility, energy storage and sports & leisure applications. Their technology is a key for long fiber/ continuous fiber composite applications in mass markets industries by enabling semi-products manufacturers to reach these markets thanks to 10x reduction in costs and environmental footprint.





Company identification

Name : Anything Connected

Website : anything-connected.com



Company history

Year funded : 2017

Employees : 6

Location : Netherlands (Delft)



Company presentation pitch

[Watch presentation](#)



Company presentation

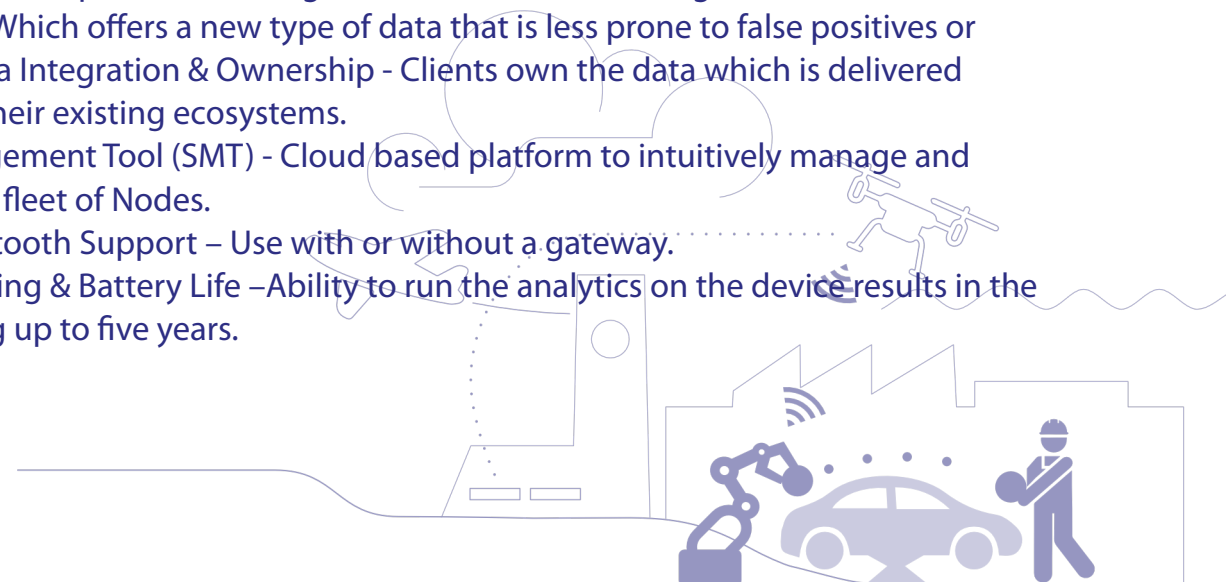
Anything Connected is a Data-as-a-Service company focused on (predicting) maintenance. Their internet connected sensor sticker, the Data Node, allows any product to tell you when it will break down, by simply sticking it on the side. Their motto: "We deliver the data. You own it."



Company interests for the Gazelle Accelerator programme

Their added value compared to existing solutions are the following ones:

- EMF Sensor - Which offers a new type of data that is less prone to false positives or negatives
- Data Integration & Ownership - Clients own the data which is delivered directly into their existing ecosystems.
- Sensor Management Tool (SMT) - Cloud based platform to intuitively manage and program your fleet of Nodes.
- NB-IoT & Bluetooth Support – Use with or without a gateway.
- Edge Computing & Battery Life – Ability to run the analytics on the device results in the battery lasting up to five years.





Company identification

Name : Circularise

Website : circularise.com



Company history

Year funded : 2016

Employees : 14

Location : Netherlands (Den Haag)



Company presentation pitch

[Watch presentation](#)



Company presentation

Circularise provides the transparency and traceability needed to enable a circular economy. They have developed a blockchain-based, patent-pending technology that allows stakeholders across value chains to exchange product and material insights without risking privacy and confidentiality.



Company interests for the Gazelle Accelerator programme

Their technology enables companies to show "good-stewardship" practices towards customers and regulators on a public blockchain system that is secure, tamperproof, and private. This is done through their 'Smart Questioning' technology and following an 'open protocol' approach that allows standardisation of data structure and connection with any existing software used for this purpose (e.g. ERP).





Company identification

Name : CLIX Industries

Website : clix-industries.com



Company history

Year funded : 2003

Employees : 15

Location : France (Montrabe)



Company presentation pitch

[Watch presentation](#)



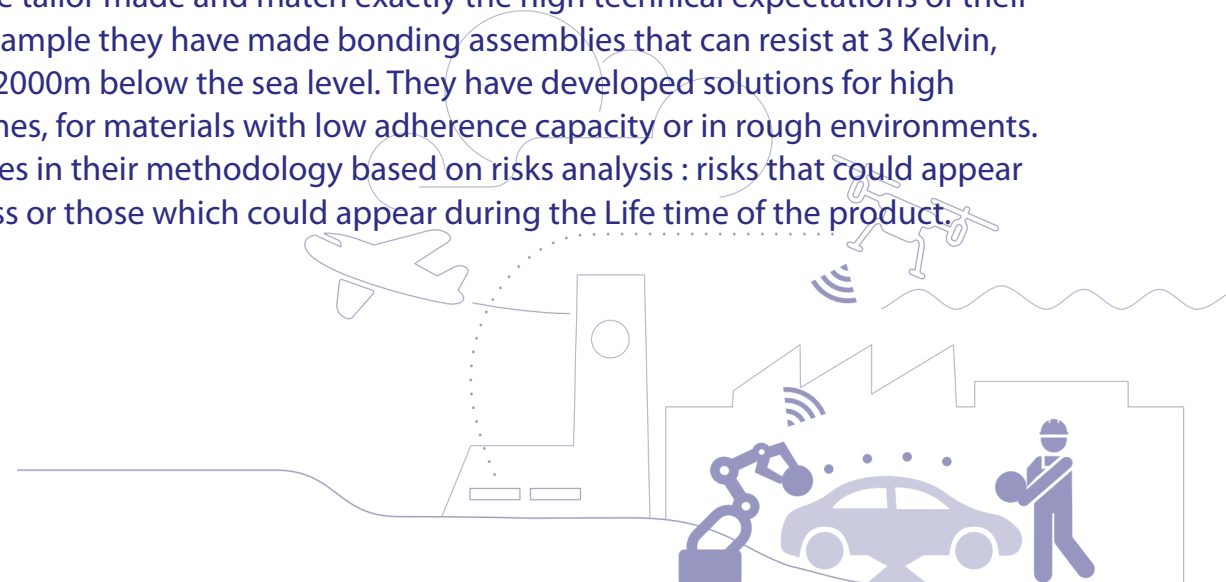
Company presentation

CLIX Industries is an expert in bonding solutions. They have developed solutions for many different products in many different sectors like space and aircraft industries, defense, electronics and transport. Their strength is their ability to propose custom solutions with low level of risk due to their methodology and long experience.



Company interests for the Gazelle Accelerator programme

Their solutions are tailor made and match exactly the high technical expectations of their customers. For example they have made bonding assemblies that can resist at 3 Kelvin, others that goes 2000m below the sea level. They have developed solutions for high production volumes, for materials with low adherence capacity or in rough environments. Their specificity lies in their methodology based on risks analysis : risks that could appear during the process or those which could appear during the Life time of the product.





Company identification

Name : DIOTA

Website : diota.com



Company history

Year funded : 2009

Employees : 55

Location : France (Massy)



Company presentation pitch

[Watch presentation](#)



Company presentation

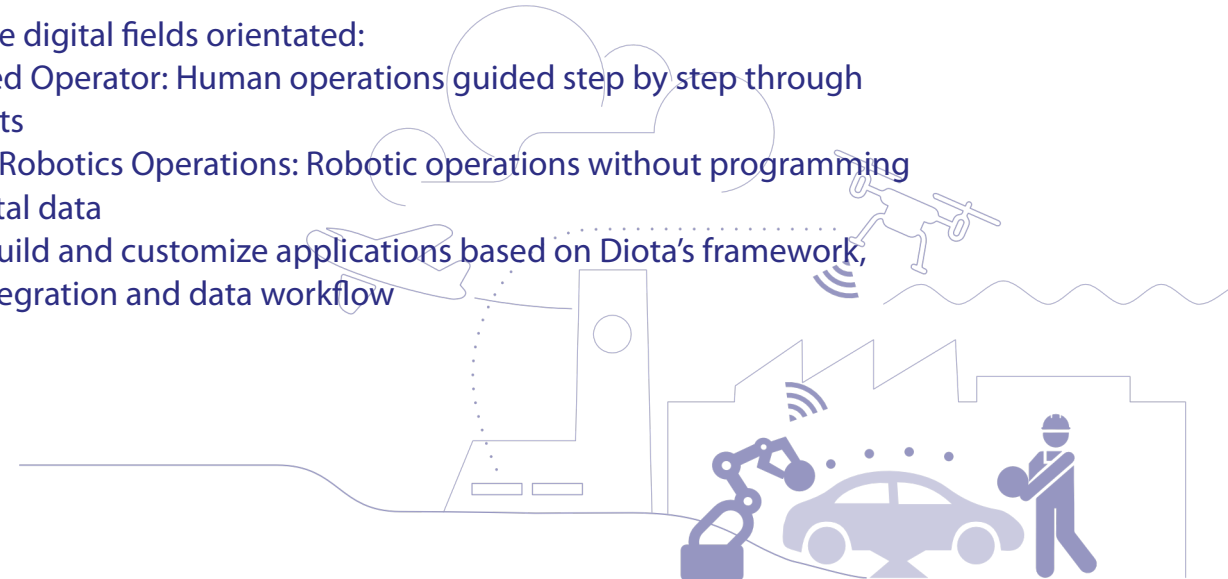
Diota assists industrial companies in their digital transformation by extending the use of the digital model on the shop floor. Based on 4.0 technologies such as Augmented Reality, AI, IoT, Robotics and computer vision, Diota's solutions optimise assembly and quality control operations through digitalisation in the aeronautics, rail, space, automotive and energy sectors.



Company interests for the Gazelle Accelerator programme

Their solutions are digital fields orientated:

- Digital-Assisted Operator: Human operations guided step by step through digital contents
- Digital-Based Robotics Operations: Robotic operations without programming based on digital data
- Appfactory: Build and customize applications based on Diota's framework, manage IT integration and data workflow





Company identification

Name : IN-CORE Systèmes

Website : incore-systemes.com



Company history

Year funded : 1998

Employees : 37

Location : France (Chassieu)



Company presentation pitch

[Watch presentation](#)



Company presentation

In-Core Systèmes is providing the quality control and traceability solution dedicated to the converting industry, whose expertise is concentrated around imaging systems and optical methods for 100% surface inspection of continuous processes. Proven quality control solution is installed on different processing steps to control in real time the product conformity, alarms the operator when the process is out of tolerances and records all relevant information to evaluate the process stability and to figure out the causes which generate the waste.



Company interests for the Gazelle Accelerator programme

In-Core Systèmes delivers all inclusive solutions from the conceptualization to the integration and maintenance on the production line and provides customized solutions to match exactly to their customer's needs.





Company identification

Name : Kendaxa

Website : kendaxa.com



Company history

Year funded : 2017

Employees : 45

Location : Czech Republic (Prague),
Germany (Leipzig)



Company presentation pitch

[Watch presentation](#)



Company presentation

Kendaxa is a well growing start-up company with focus on data mining from document, automating processes and services using BPMN language and solutions for industry 4.0. Kendaxa specializes in the application of Artificial Intelligence (AI), Machine Learning (ML) and Data Science for the automation and optimization of business processes in financial services and manufacturing industries.



Company interests for the Gazelle Accelerator programme

Their added value compared to existing solutions are the following ones:

- IDP - They are able to read also hand written texts,
- BOM validator - Usage of AI on places where no one had try it.





Company identification

Name : KFactory

Website : kfactory.eu



Company history

Year funded : 2020

Employees : 7

Location : Romania (Bucharest)



Company presentation pitch

[Watch presentation](#)



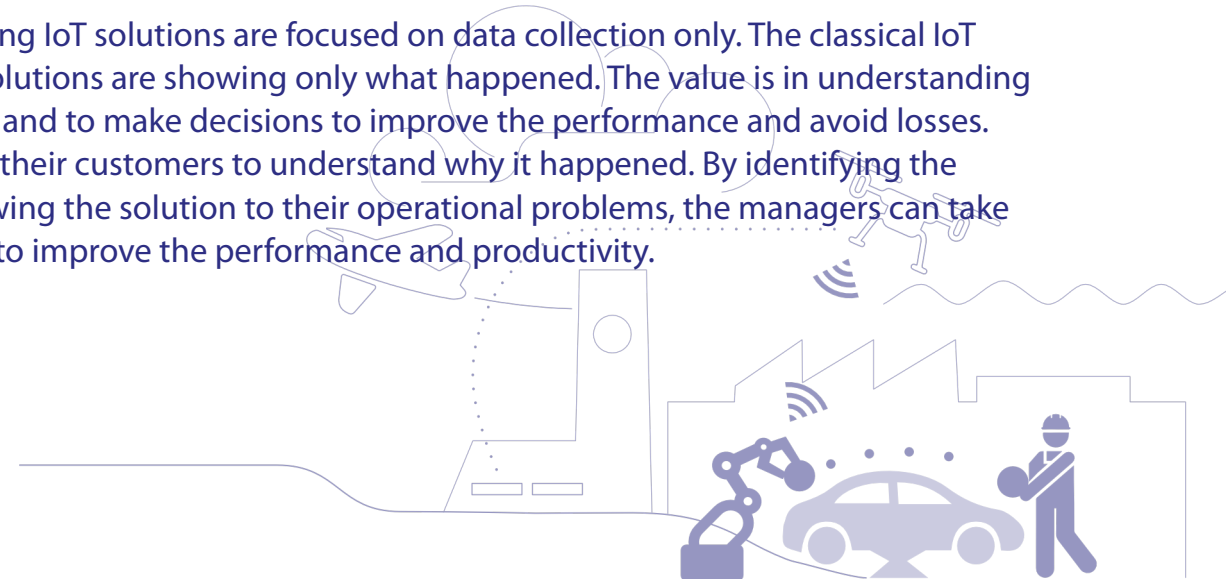
Company presentation

KFactory is an Industry 4.0 start-up which innovates, automates, and optimizes the operational processes in the manufacturing industry. KFactory integrates new technologies such as IIoT, Machine Learning, RPA into the manufacturing process, turning a classic process into a new one, in which industrial equipment, orders, operators and support teams are actors in a well-orchestrated digital process.



Company interests for the Gazelle Accelerator programme

Most of the existing IoT solutions are focused on data collection only. The classical IoT data collection solutions are showing only what happened. The value is in understanding why it happened and to make decisions to improve the performance and avoid losses. They are helping their customers to understand why it happened. By identifying the reasons and showing the solution to their operational problems, the managers can take effective actions to improve the performance and productivity.





Company identification

Name : Kythera

Website : kythera.fr



Company history

Year funded : 2021

Employees : 4

Location : France (Toulouse)



Company presentation pitch

[Watch presentation](#)



Company presentation

Kythera is developing a highly integrated smart actuators for robotics and automation applications. Their goal is to simplify, make affordable, improve movement creation and be a Europe-based technology partner for its customers.



Company interests for the Gazelle Accelerator programme

Actuators are generally sold into parts and need to be aggregated and integrated: motor, encoder, electronic drive, reducer and software application. Those integrations imply important costs and working time. Their solution is designed to embark all components and be a plug-and-play device.

Their Kythera servomotor provides users and integrators with the following advantages:

- Compact sized: motor, reducer and electronic drive gathered within a tin can sized space
- Easy to handle (10/15 min for a non-specialist)
- A Unique contact point: Kythera (as we develop the entire Servo: motor, electronic drive, reducer, software); the customer has only one supplier interface
- Good ratios weigh/power and quality/price
- Plan to develop and produce in Europe - close to their customers





Company identification

Name : Matom.ai

Website : matom.ai



Company history

Year funded : 2021

Employees : 6

Location : Lithuania (Kaunas)



Company presentation pitch

[Watch presentation](#)



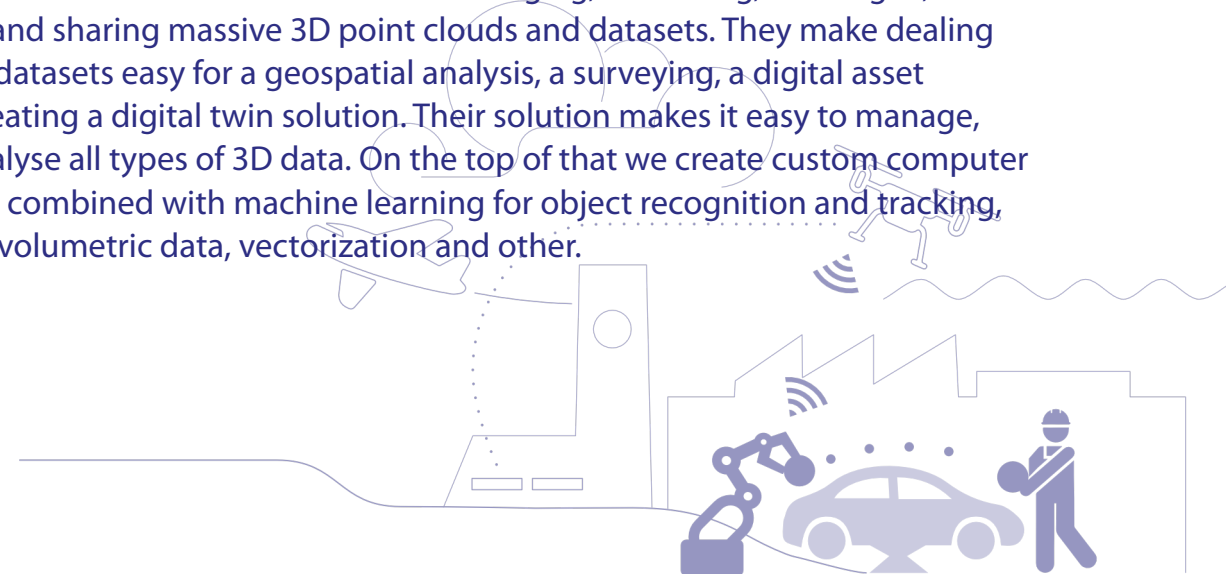
Company presentation

Matom.ai is a digital product development start-up for mission critical systems. From design, rapid prototyping, minimum viable product development, end-to-end development to system integration, they are experts in 3D/2D Computer Vision, Artificial Intelligence and Robotics.



Company interests for the Gazelle Accelerator programme

Matom.ai is a powerful cloud based solution for managing, visualising, working in, analysing, using and sharing massive 3D point clouds and datasets. They make dealing with massive 3D datasets easy for a geospatial analysis, a surveying, a digital asset management, creating a digital twin solution. Their solution makes it easy to manage, view, work in, analyse all types of 3D data. On the top of that we create custom computer vision algorithms combined with machine learning for object recognition and tracking, pose estimation, volumetric data, vectorization and other.





Company identification

Name : Print4d

Website : print4d.xyz



Company history

Year funded : 2021

Employees : 1

Location : Czech Republic (Prague)



Company presentation pitch

[Watch presentation](#)



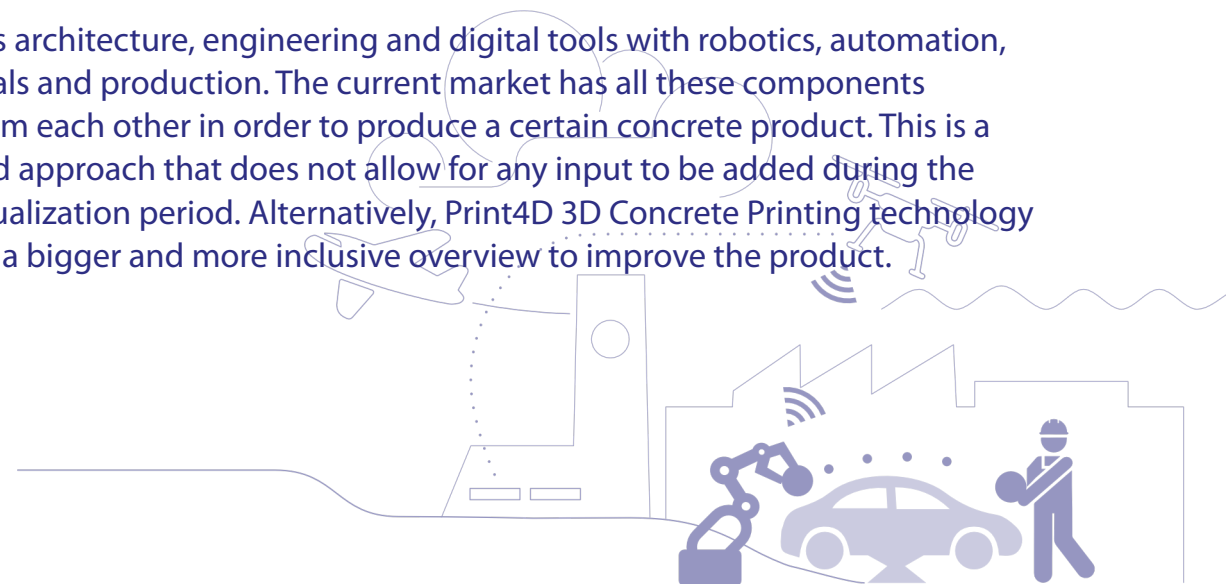
Company presentation

Print4D is a 3D Concrete Printing Technology start-up that aims to revolutionize the way we construct the built environment around us by integrating robotics and digital technologies into the manufacturing process with the goal to increase productivity and efficiency by utilizing optimization and advanced materials while having an environmental impact by reducing the carbon footprint and eliminating waste.



Company interests for the Gazelle Accelerator programme

Print4D combines architecture, engineering and digital tools with robotics, automation, advanced materials and production. The current market has all these components working apart from each other in order to produce a certain concrete product. This is a very disintegrated approach that does not allow for any input to be added during the product conceptualization period. Alternatively, Print4D 3D Concrete Printing technology allows us to have a bigger and more inclusive overview to improve the product.





Company identification

Name : PUSH4M

Website : push4m.com



Company history

Year funded : 2016

Employees : 4

Location : France (Groix)



Company presentation pitch

[Watch presentation](#)



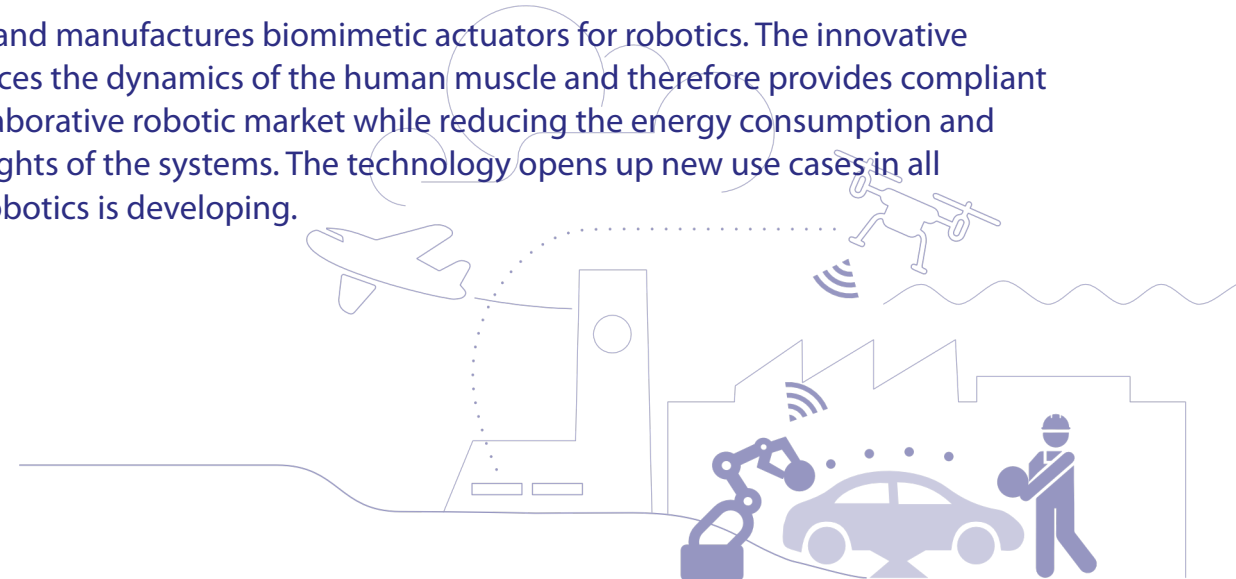
Company presentation

Push4M designs and manufactures biomimetic actuators for robotics. The innovative actuator reproduces the dynamics of the human muscle and therefore provides compliant solutions for collaborative robotic market while reducing the energy consumption and the sizes and weights of the systems. The technology opens up new use cases in all markets where robotics is developing.



Company interests for the Gazelle Accelerator programme

Push4M designs and manufactures biomimetic actuators for robotics. The innovative actuator reproduces the dynamics of the human muscle and therefore provides compliant solutions for collaborative robotic market while reducing the energy consumption and the sizes and weights of the systems. The technology opens up new use cases in all markets where robotics is developing.





ROVENSO



Company identification

Name : Rovenso

Website : rovenso.com



Company history

Year funded : 2016

Employees : 13

Location : Switzerland
(Villaz Saint Pierre)



Company presentation pitch

[Watch presentation](#)



Company presentation

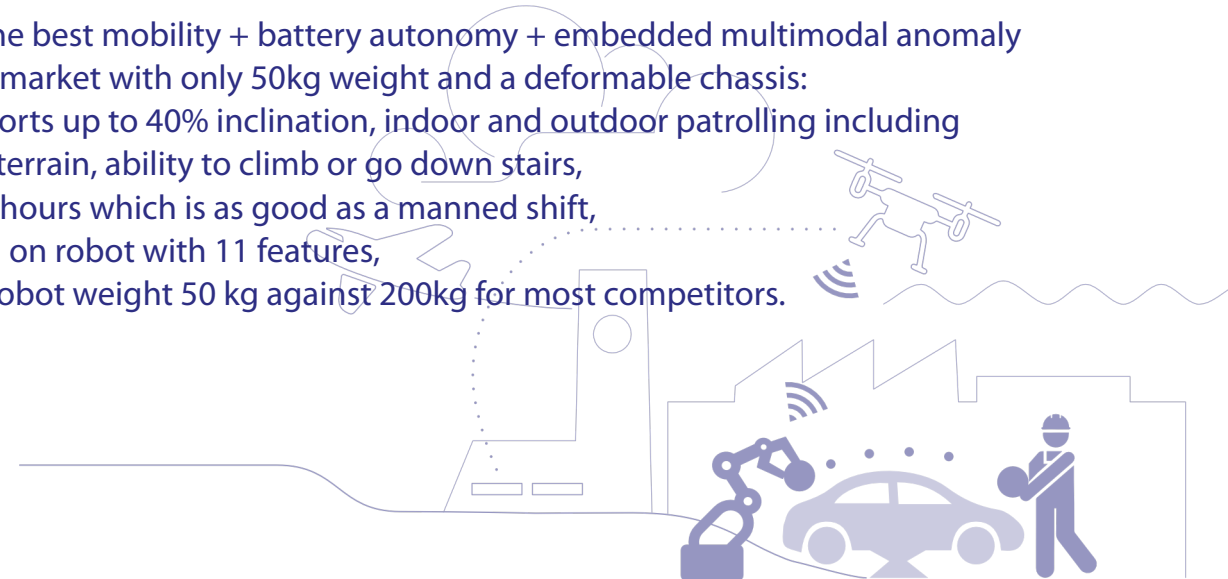
Rovenso is a Swiss start-up that designed ROVéo© : an agile autonomous robot that navigates autonomously indoor & outdoor, with strong capabilities for multimodal anomaly detection (Lidar, high definition cameras, thermography, acoustic analysis, Digital twin). Their technology enables new applications for operations integrity, security & safety in Industrial & tertiary sites.



Company interests for the Gazelle Accelerator programme

Their robot has the best mobility + battery autonomy + embedded multimodal anomaly detection on the market with only 50kg weight and a deformable chassis:

- Mobility supports up to 40% inclination, indoor and outdoor patrolling including unstructured terrain, ability to climb or go down stairs,
- Autonomy : 8 hours which is as good as a manned shift,
- All calculation on robot with 11 features,
- Safety : their robot weight 50 kg against 200kg for most competitors.





Company identification

Name : Sakowin Green Energy

Website : sakowin.com



Company history

Year funded : 2017

Employees : 13

Location : France (Fréjus)



Company presentation pitch

[Watch presentation](#)



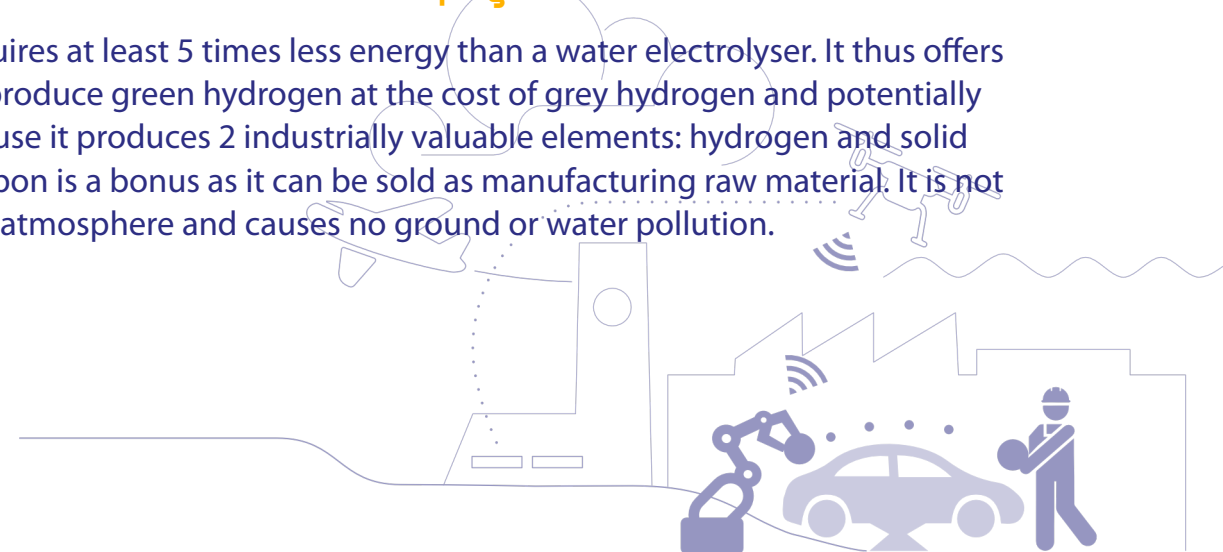
Company presentation

Sakowin Green Energy provides CO₂-free, low-cost, on-site, on-demand hydrogen production solution. New reactor technology to produce hydrogen and solid carbon from biomethane or natural gas. Using an energy efficient plasma, their process is not only economical in electricity but also low in CAPEX and easily scalable thanks to its modular design. It allows to produce CO₂ free hydrogen on demand from existing gas infrastructures.



Company interests for the Gazelle Accelerator programme

This solution requires at least 5 times less energy than a water electrolyser. It thus offers the potential to produce green hydrogen at the cost of grey hydrogen and potentially even lower, because it produces 2 industrially valuable elements: hydrogen and solid carbon. Solid carbon is a bonus as it can be sold as manufacturing raw material. It is not released into the atmosphere and causes no ground or water pollution.





Company identification

Name : SCORTEX

Website : scortex.io



Company history

Year funded : 2016

Employees : 35

Location : France (Paris)



Company presentation pitch

[Watch presentation](#)



Company presentation

SCORTEX enables manufacturers to take better control of their quality. They provide a full-stack solution to digitize quality. It delivers intelligent automation of visual inspections, real-time analytics over quality and centralizes production knowledge.



Company interests for the Gazelle Accelerator programme

SCORTEX provides a user-friendly and turn-key integrated solution. Being experts in automated quality control, they assist manufacturers in the definition of their needs and quality objectives. Then they capitalize on their quality knowledge and expertise. They provide tools for a better autonomy of their users. Their defect detection's speed and precision are currently unmatched in their markets especially for the complex inspections.





Company identification

Name : Smart Factory

Website : smartfactory.lt



Company history

Year funded : 2009

Employees : 4

Location : Lithuania (Kaunas)



Company presentation pitch

[Watch presentation](#)



Company presentation

Smart Factory offer smart manufacturing services for industry through perfectly mastered engineering three-dimensional objects digitalization, modeling, 3D printing, metal and plastic and 3 and 5-axis milling technology. They work with hard metal, marble, wood, carbon cloth, plastics, ceramics and other materials.



Company interests for the Gazelle Accelerator programme

They already have 12 years experience in this field and have accumulated know-how in 3D technologies, from design to final product (rapid prototyping, 3D printing, reverse engineering).





Company identification

Name : ThinkDeep AI
Website : thinkdeep.ai



Company history

Year funded : 2019
Employees : 12
Location : France (Talence)



Company presentation pitch

[Watch presentation](#)



Company presentation

ThinkDeep is developing Deepflow, a SaaS platform to accelerate the design, deployment and maintenance of Safe AI systems for critical industries. ThinkDeep guarantees AI systems that are Transparent (explainable), Secure (protected against attacks) and Robust (reliable results in "no-mistake" environments). Deepflow is already used in non-destructive testing (NDT) on production lines and during maintenance operations in order to automate complex quality inspection tasks based on video data, x-rays and ultrasound. Their solution is designed to handle data in large volumes and at a high frequency. It can be deployed at the edge, on premise or in the cloud.



Company interests for the Gazelle Accelerator programme

Their added value compared to existing solutions are the following ones:

- Multi-sensors integration (Optical, Radiographic, Ultrasonic) and Hardware Agnostic (no vendor lock-in with equipment),
- No AI or Data Science expertise is required on the customer's side. Interface designed for the operator,
- Pre-trained AI workflows already available for faster prototyping and integration,
- Few-shot learning: little data is required to train the AI models,
- Explainable AI models / Open APIs and SDK available,
- Flexible deployment options: Edge, On-Premises, or Cloud.





Company identification

Name : TILKAL

Website : tilkal.com



Company history

Year funded : 2017

Employees : 18

Location : France (Paris)



Company presentation pitch

[Watch presentation](#)



Company presentation

Based on a unique mix of blockchain technology and data analytics, Tilkal's Traceability Data Platform creates a consolidated, end-to-end view of supply chains in real-time and provides 360° intelligent reporting to help industrials and brands be in control, be compliant and be transparent.



Company interests for the Gazelle Accelerator programme

Tilkal is a simple and flexible SaaS solution that aggregates all the traceability dimensions (suppliers, certifications, product flows, business transactions) in a single platform, to help restore real visibility of the product lifecycle and identify important facts related to the operation of the supply chain.

Their main competitive advantages are:

- 360° control over supply chain and real-time auditability, from supplier's certificates to product flows, upstream and downstream,
- Innovative data intelligence bricks to bring exclusive business value to traceability data,
- Built from the ground up for multi-actor environments, with a balance between collaboration and confidentiality,
- The solution is deployed and used in production on large volumes of products (as opposed to the numerous PoC/small volume projects in progress).





Company identification

Name : GARNASYS AERO

Website : garnasys-aero.com



Company history

Year funded : 2020

Employees : 2

Location : France (Montpellier)



Company presentation pitch

[Watch presentation](#)



Company presentation

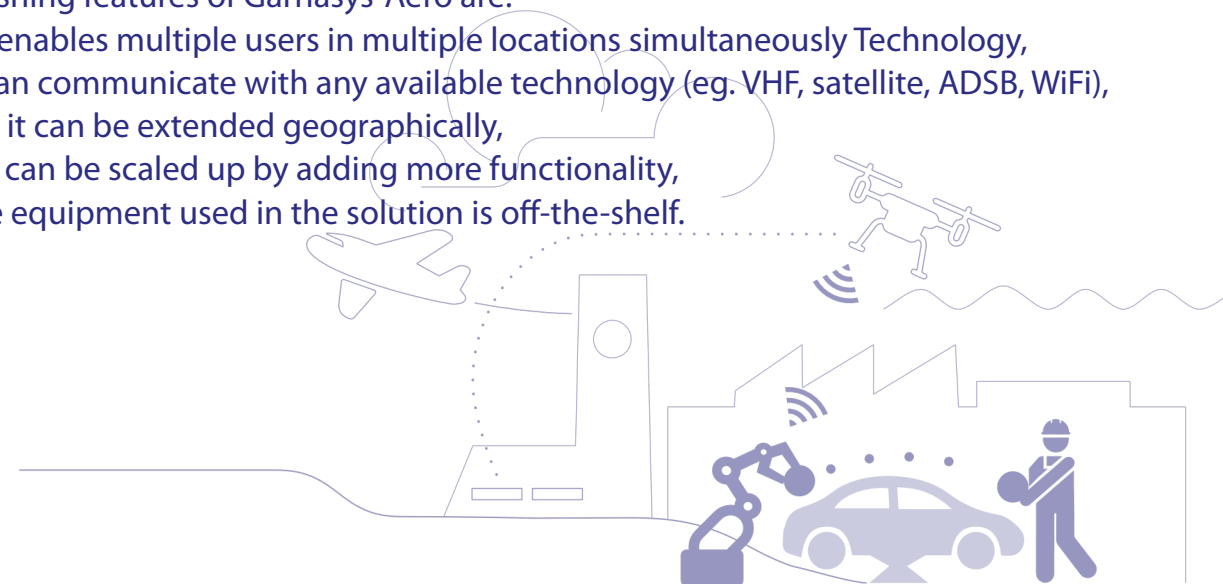
Garnasys-Aero offers software solutions to enable better access, management, and utilisation of data, with a personalised interface to ensure integration with clients' existing systems and simplicity for the user. Garnasys-Aero's technology facilitates automated access to data, advanced testing and troubleshooting, and data-driven decision-making.



Company interests for the Gazelle Accelerator programme

The key distinguishing features of Garnasys-Aero are:

- Flexibility – it enables multiple users in multiple locations simultaneously
- Technology, Agnostic - it can communicate with any available technology (eg. VHF, satellite, ADSB, WiFi),
- Extensibility – it can be extended geographically,
- Scalability – it can be scaled up by adding more functionality,
- Low-cost - the equipment used in the solution is off-the-shelf.





Company identification

Name : VSight

Website : vsight.io



Company history

Year funded : 2019

Employees : 14

Location : Lithuania (Vilnius)



Company presentation pitch

[Watch presentation](#)



Company presentation

VSight helps manufacturing companies to do maintenance/service operations remotely with augmented reality.

VSight Remote enables experts to connect to the field, which is the point of impact, instantaneously and solve the problems remotely. 2-way video and audio communication, PDFs, manuals, step by step instructions and 3-D models are represented into the real world with VSight Remote Augmented Reality (AR) support. Also, by integrating VSight with company's existing PLM and other systems gives the power of the knowledge to the filed worker.

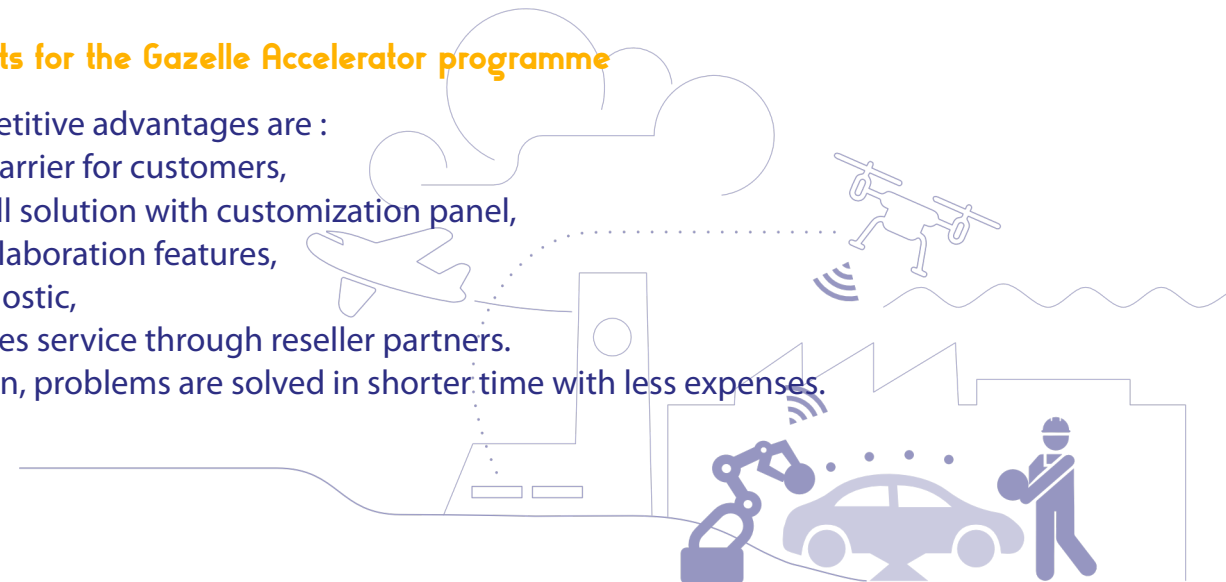


Company interests for the Gazelle Accelerator programme

Their main competitive advantages are :

- Lower entry barrier for customers,
- One size fits all solution with customization panel,
- Rich set of collaboration features,
- Hardware agnostic,
- Local after-sales service through reseller partners.

With their solution, problems are solved in shorter time with less expenses.



Company identification

Name : Wyca Robotics

Website : wyca.fr

Company history

Year funded : 2015

Employees : 10

Location : France (Toulouse)

Company presentation pitch

[Watch presentation](#)

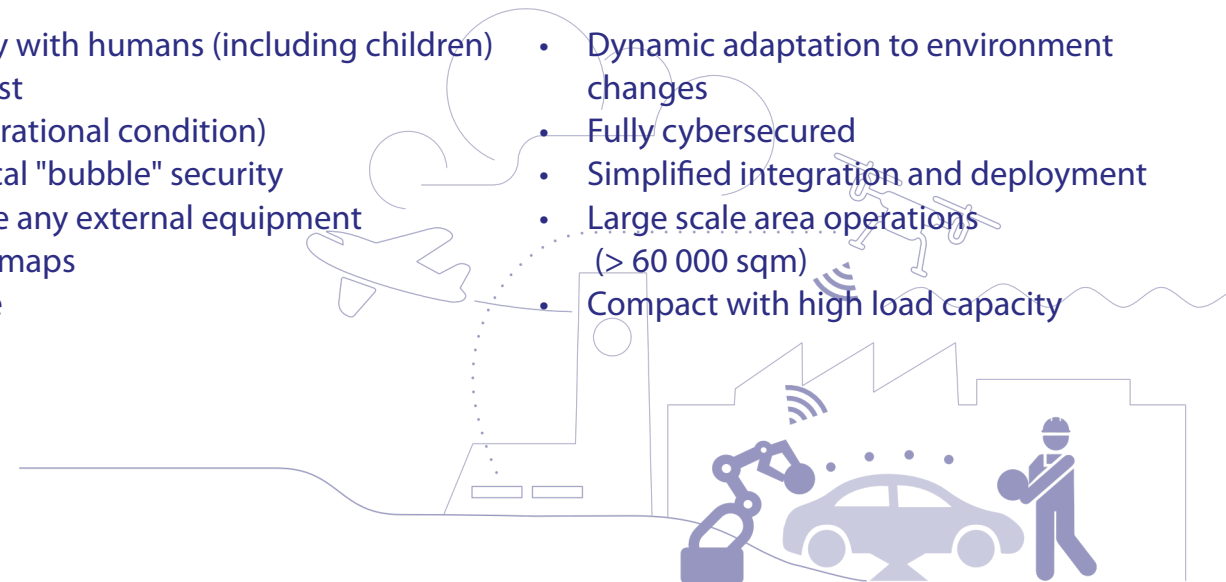
Company presentation

Wyca Robotics designs and distributes fully autonomous indoor vehicles, removing the complexity of business solutions integration. Integrators just have to install the robot's "mission" part onto the vehicle, whatever the served vertical business : inventory, logistics, security, retail, medical, services, etc.

Company interests for the Gazelle Accelerator programme

Wyca Robotics' solution brings the first versatile level 5 (Full Driving Automation) indoor vehicle:

- Full co-activity with humans (including children)
- Aggressive cost (<20K€ in operational condition)
- Full 360° optical "bubble" security
- Do not require any external equipment
- Self generate maps
- Built in France
- Dynamic adaptation to environment changes
- Fully cybersecured
- Simplified integration and deployment
- Large scale area operations (> 60 000 sqm)
- Compact with high load capacity



CONTACT US



AEROSPACE VALLEY

10-12 Rue des Satellites
Le Haillan
Nouvelle Aquitaine
FRANCE
www.aerospace-valley.com
www.gazelle-accelerator.eu



Florian RUF

Project Manager
Mobile : +33 (0)6 64 99 64 34
E-mail : ruf@aerospace-valley.com



Anne HEROUE

Project Manager
Mobile : +33 (0)6 07 30 70 62
E-mail : keroue@aerospace-valley.com

