5TH GAZELLE ACCELERATOR ONLINE PROGRAMME EVENT

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eit Manufacturing

Co-funded by the European Union

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 5th Gazelle Accelerator matchmaking event planned in June and July 2022.

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 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.

RoboHouse

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

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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.

FAST TRACK ACTION (PORTUGAL)

Fasttrack Action is a subsidiary company of Fasttrack Ventures, an early-stage investment fund that invest in early-stage digital & deep-tech companies. FTA is dedicated to providing support to startups launching and growing their business, including:

1. Finding the most appropriate funding scheme (private, public or a combination)
2. Developing strategic business plans and innovation strategies
3. Mentoring, coaching, networking events and portfolio management.

ATOS (BELGIUM)

Atos is the global leader in secure and decarbonized digital with a range of market-leading digital solutions along with consultancy services, digital security and decarbonization offerings; an end-to-end partnership approach. A net-zero pioneer in decarbonization services and products, our commitment to the future extends to carbon-neutrality for our organization as well as our clients and partners. Together, we're a force pushing the boundaries of scientific and technological excellence to ensure that everyone can live, work and thrive sustainably in a secure information space. Supported by the talent and diversity of 107,000 employees in 71 countries, we generate an annual revenue of €11 billion.

FONDAZIONE GIACOMO BRODOLINI (ITALY)

Fondazione Giacomo Brodolini is a group that includes Fondazione Giacomo Brodolini, a non-profit organisation that deals with cultural and research activities on the subject of work and social inclusion, and Fondazione Giacomo Brodolini Srl SB (Benefit Corporation) that carries out projects and studies and offers consultancy and advanced training services.

FGB's work is deeply rooted in the values of social inclusion, local cohesion, sustainability, and digital innovation for economic growth, equal opportunities, and access to the job market through skills development, gender equality, and cultural diversity advocacy, civic participation for local development.

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European manufacturing accelerator

Gazelle Accelerator in a nutshell

INDEX

82

SMEs and start-ups integrated into the programme since its beginning in 2020

18

Countries covered in Europe

110+

Qualified business or finance analysis delivered

30+

Uses cases & challenges identified with industrial corporates

120+

Connections made between SME's and corporates and/or investors

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INDEX

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BUSINESS PROFILES OF INNOVATIVE SMES AND START-UPS SELECTED TO THE 5TH GAZELLE ACCELERATOR PROGRAMME

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3DTRUST

Company identification

Location : France (Ramonville-Saint-Agne)
CEO : David BASSETTI
Website : www.3dtrust.de

Company history

Year founded : 2016
Employees : 2

Pitch deck

https://youtu.be/vSQTfXG-Q9g

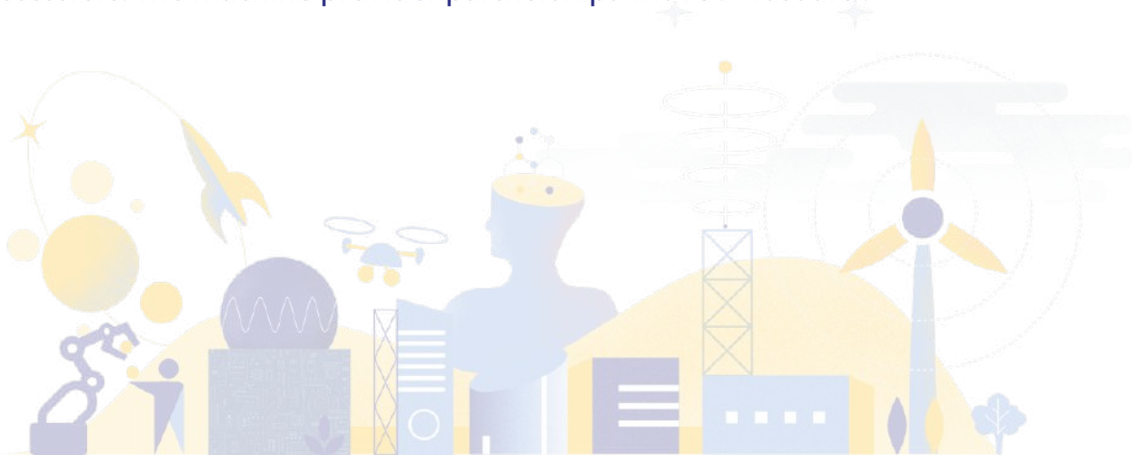
Company presentation

3DTrust is a French company developing a MES software solution enabling the industrialization of additive manufacturing with a focus on automation, process control, data security, and traceability. 3DTrust also provide a module of auto-quotation/sales management and a module of powder management oriented toward Additive Manufacturing (AM).

What distinguishes their technical proposal

The best differentiator 3DTrust has from existing MES dedicated to AM is all the partnerships established with machine providers. These partnerships enable 3DTrust to connect to their machines and retrieve the data. Otherwise, without partnership connecting to an AM machine would imply to "hack" it, generating issues on the warranty and on the integrity of the data retrieved if accessible. The machine provider partnerships with 3DTrust are :

- 3D System
- BeAM
- EOS
- Renishaw
- SLM



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4D PIONEERS

Company identification

Location : France (Villeneuve d'Asq)
CEO : Ingrid FLORENTIN
Website : www.4dpioneers.com

Company history

Year founded : 2020
Employees : 16

Pitch for customers

https://youtu.be/DHkeAjMforM

Pitch for investors

https://youtu.be/ba-hJ1pvqlE

Company presentation

4D Pioneers is a deeptech which aims to lead the sustainable revolution of industrial maintenance through the 3D manufacturing of spare parts on-demand, on the spot, in record time.
Our R&D focuses on the deployment of a new generation of 3D printers combined with a catalog of certified printable materials that meet the challenges of industry 4.0.

What distinguishes their technical proposal

Our Ultra-functional 3D Printer is the only machine to bring together all the capabilities needed to unlock the challenges ahead for industrial maintenance :

- Full-hybrid system combining 3D and conventional manufacturing operations to produce complex parts whilst avoiding post-treatment and ensuring repeatability and standardization.
- Automated 5-axis system to reduce waste of raw material
- Modular and multi-tool platform allowing the printing of spare parts in all the necessary materials (thermoplastics, polymers and composite at launch, then metals, ceramics and elastomers).
- User-friendly interface to facilitate implementation
- Scalable machine responding to new industrial challenges and emerging market opportunities

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ADAPT

Company identification

Location : Timisoara (Timisoara)
CEO : Bianca Balan
Website : www.adapt.software

Company history

Year founded : 2017
Employees : 8

Pitch for customers

https://youtu.be/MsCl2MarjI0

Pitch for investors

https://youtu.be/m-yjY6zA730

Company presentation

ADAPT is a user-friendly operating system that enables a rapid digital transformation of modern factories. It will make adopting new digital solutions as easy as installing an app from the app store.

What distinguishes their technical proposal

The status quo in factories today is to build your digital solutions around an ERP system like SAP. However, this approach makes it very hard and expensive to make changes. ADAPT shifts the approach from resource-oriented to process-oriented, which is crucial in process and data intensive industries like manufacturing. Thus, ADAPT is fully customisable, faster and more cost efficient than other current solutions. It has a short learning curve and it is a fitting solution for any level of digital.

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ASCALIA

Company identification

Location : Croatia (Cakovec)
CEO : Marin Bek
Website : www.ascalia.io

Company history

Year founded : 2018
Employees : 16

Pitch for customers

https://youtu.be/2elQW-uVfhQ

Pitch for investors

https://youtu.be/upV4UPbrpCk

Company presentation

Ascalia uses AI and IoT to help factories increase productivity, reduce waste and address quality issues. The solution is tailored for the manufacturing industry, addressing directly main sources of inefficiencies, while offering factories a one-stop-shop solution for adoption of industry 4.0.

What distinguishes their technical proposal

Our technical solution is a turnkey end-to-end solution for factory digitalisation which is plug-n-play with any production line or system. The same solution is now used across metalworking, woodworking and F&B companies, with machines and lines ranging from 1 to 21 years of age.

Just some examples : IMA, Krones, Gasti, Hassia, Rovema, Holler and others.

In addition to being easy to set up, it easily works in the cloud or fully on-prem without any internet access whatsoever.

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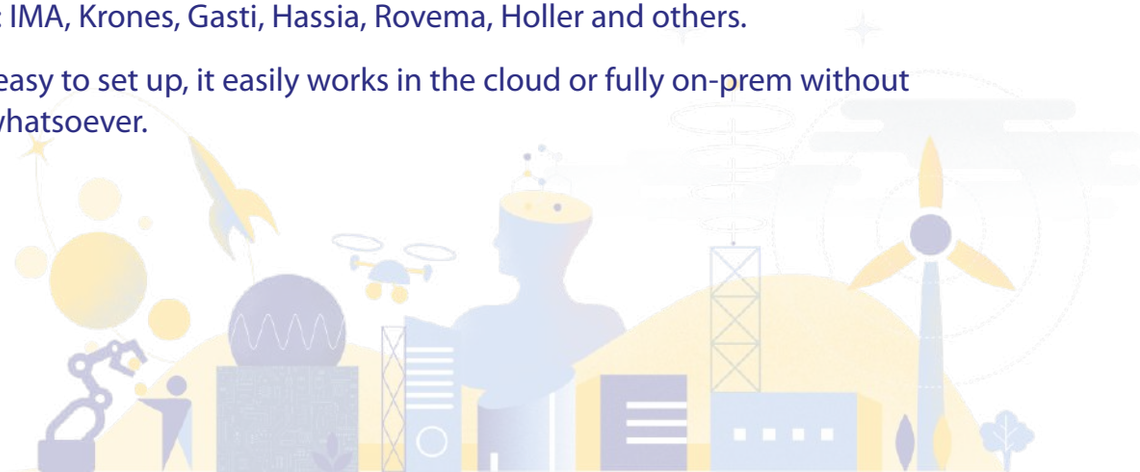

ATHÉOR

Company identification

Location : France (Montpellier)
CEO : Jean-Denis Borras
Website : www.atheor.com

Company history

Year founded : 2010
Employees : 5

Pitch Deck

https://youtu.be/hFFo_u_6M0Q

Company presentation

Athéor has developed an innovative solution for glass marking and oxidisable metals such as aluminium : an indelible ink Glass'in® and an associated process for grafting and reading. Once printed, the ink cannot be removed because it is grafted onto the glass. The main advantage of this solution is its processability at room temperature (no need to heat) as well as the printing flexibility. This glass marking solution is mainly used for unitary traceability of glass container for production quality assurance or distribution management. Sometimes customers also used it as a anti counterfeiting tag.

What distinguishes their technical proposal

Our solution does not exist elsewhere, and is protected by two patents. We have the in-house capacity to design and synthesise our molecules which we then formulate into our inks. This allows us to be unique compared to what exists on the market.

Our ink, based on fluorescent components, makes any marking easy to read, leading to a reading rate close to 99.90% at high speed. No other glass marking technology as laser or inkjet can reach this level.

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COGNITIVE DESIGN SYSTEMS

COGNITIVE DESIGN SYSTEMS

INDEX 13

Company identification

Location : France (Toulouse)
CEO : Rhushik Matroja
Website :
www.cognitive-design-systems.com

Company history

Year founded : 2021
Employees : 10

Pitch for customers

https://youtu.be/XnqrfvUZolg

Pitch for investors

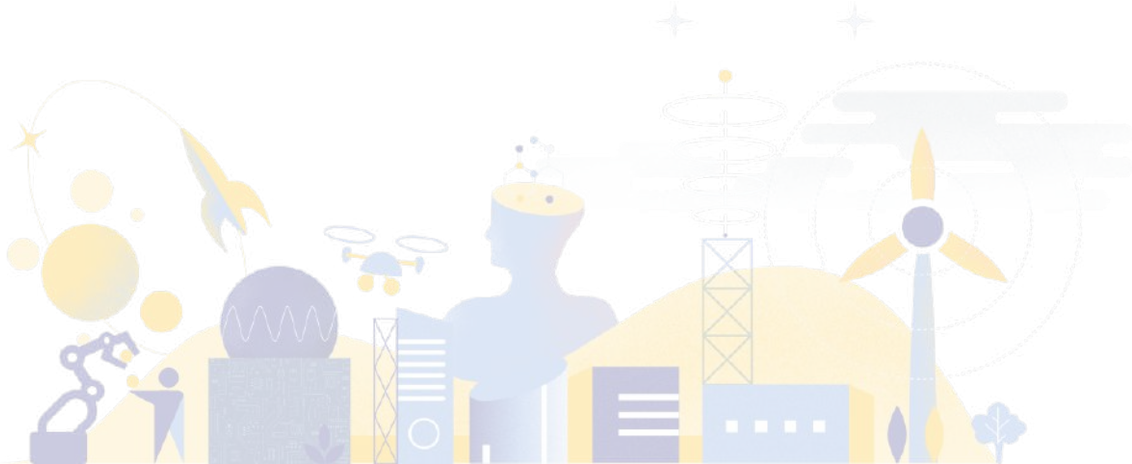
https://youtu.be/4195C8PLepA

Company presentation

CDS is a software company enabling designers and engineers to generate designs using AI. Our company is made of talented engineers brought together by a common mission, to develop the best all-in-one generative design platform. We serve middle to large corporations on different aspects of the design manufacturing process, without being bound to any specific industry.

What distinguishes their technical proposal

All designs generated by CDS are manufacturable designs, our manufacturing expertise and network allows us to work with the most prominent manufacturer in the world. We are one of the few companies using AI and machine learning jointly with generative design.



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COGNITIVE ENGINES SAS

Company identification

Location : France (Villenave d'Ornon)
CEO : Sébastien LISSARRE
Website : www.cogengines.com

Company history

Year founded : 2020
Employees : 3

Pitch for customers

https://youtu.be/vnVBvdbkwug

Pitch for investors

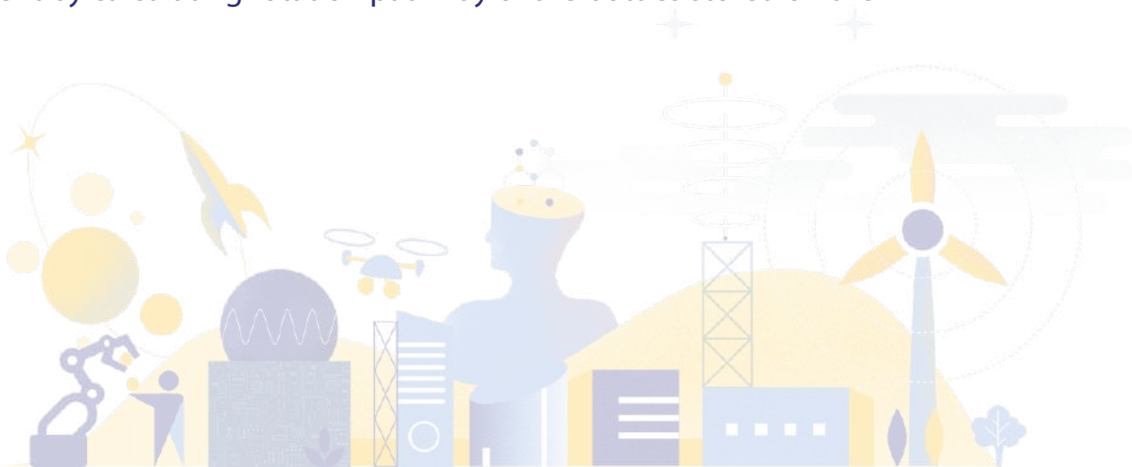
https://youtu.be/50Lrrcl60V0

Company presentation

Cog.Engines implements eyes and brain on robot arms for opening a coactivity with workers on production lines. Cog.Engines has developed a proprietary artificial intelligence based on reinforcement learning algorithms. Thanks to this, robots are aware of their working environment, worker can communicate orders by gestures.

What distinguishes their technical proposal

Thanks to the combo of #AI x #Vision x #Robot, we bring a coactivity between robot and workers. Humans can work along the robot with less than 30 centimetres distance, being aware they won't be hurt while robot is undergone permanent distance evaluation. Robot becomes adaptable for any dynamic position of the products to grab. Robot has to make its trajectory assessment by calculating rotation pathway of the bottles stored on the accumulation table.



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HANDDDLE

Company identification

Location : France (Bègles)
CEO : Thomas BOURGOIN
Website : www.handddle.com

Company history

Year founded : 2020
Employees : 7

Pitch for customers

https://youtu.be/RoNR7BRBreQ

Pitch for investors

https://youtu.be/GbVzlli1z6Y

Company presentation

We provide a unique new generation production tool, to accelerate and deploy intelligent, organized and controlled production to run industrial Additive Manufacturing applications. Handddle combines embedded technology and software to help companies manufacture more products with Additive Manufacturing technology at a higher level quality to meet the demands of strategic markets.

What distinguishes their technical proposal

All the market players focused on what made it possible to have application cases with 3D printing (machines, materials, etc.) but no one on what made it possible to have industrial application cases based on standardization, process and traceability. We allow to move from individuals equipments to real production unit.

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INOVAKO

Company identification

Location : Spain (Vitoria-Gasteiz)
CEO : Emin Eksi
Website : www.inovako.com

Company history

Year founded : 2018
Employees : 7

Pitch for customers

https://youtu.be/on2qg7PANFQ

Pitch for investors

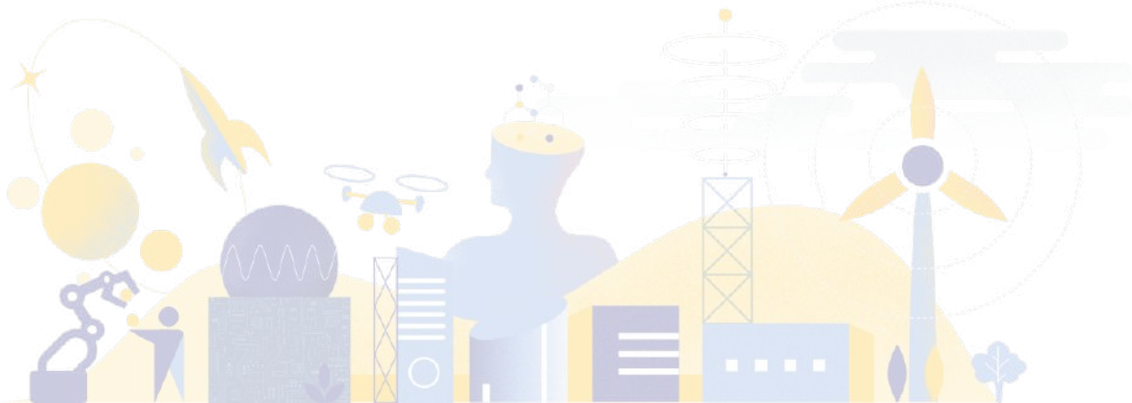
https://youtu.be/Dp2P4IxIajU

Company presentation

Inovako, with facilities in Vitoria-Gasteiz, Spain and Istanbul, Turkey, is a deep-tech startup providing AI and computer vision based industrial solutions. DeepMaster is our pioneer product to offer automated and high quality « Vision-AI' » for intelligent manufacturing applications.

What distinguishes their technical proposal

The most remarkable aspect of our product is the no-code vision-based approach and verticals library of DeepMaster which enables users to use vision-AI models and applications without having any coding and programming experience. DeepMaster handles all steps of the traditional AI project life cycle, which is usually human-dependent and repetitive. Thus, the underlying mechanism of our proposed solution makes it easy to utilize an intelligent system with only a couple of straightforward clicks.



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LEXATEXER - ENTERPRISE AI

INDEX 17

Company identification

Location : Germany (Berlin)
CEO : Günther Hoffmann
Website : www.lexatexer.com

Company history

Year founded : 2017
Employees : 7

Pitch Deck

https://youtu.be/UwsQ_22XjnU

Company presentation

LexaTexer provides Enterprise AI software to build, validate, integrate and scale data driven solutions in multiple verticals like manufacturing, operations and energy. Supported use cases include : OEE improvements, shopfloor analytics, autonomous scheduling with supply chain and stochastic constraints.

What distinguishes their technical proposal

The LexaTexer platform provides scaling, security, compliance and integration features out-of-the-box, no need to reinvent at every roll-out.

1. End-to-end AI-IoT platform to deliver scalable data driven solutions, one platform runs multiple use cases
2. Integration into legacy systems covering security, compliance, scalability
3. Out-of-the-box access to external unstructured data

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NEARSOFT EUROPE

NEARSOFT

Company identification

Location : Bulgaria (Sofia)
CEO : Vladimir Filipov
Website : www.nearsoft.eu

Company history

Year founded : 2009
Employees : 5

Pitch for customers

https://youtu.be/wH7vAazquls

Pitch for investors

https://youtu.be/5TPEAhDq1NA

Company presentation

NearSoft provides the methodology and technology for real-time collaborative operational workflows inside an enterprise. Our mission is to improve our customers efficiency and reduce their operational costs by providing the necessary digital tools for implementing true Lean Six Sigma (6ς), Good Manufacturing Practices (GMP) and Industry 4.0 initiatives. Our customizable MOM4 platform digitalizes different aspects of everyday Manufacturing / Maintenance Operations Management, without being bound to any specific industry. Successful implementation and roll-outs in Primary and Secondary Metals, Pharmaceutical and Consumer Goods.

What distinguishes their technical proposal

Our holistic approach to Industry 4.0, helps our customers to successfully transform their businesses in a short time. By implementing RAMI 4.0 standards, we create Digital Twins and Digital Shadows in a manufacturing / maintenance model for their daily operations. With our platform MOM4 we integrate existing ERP systems with information coming from the shop floor (IoT, OPC UA, etc.), and transform unstructured production/operation data to structural one for better analyses. MOM4 incorporate apps for Real-Time Planning and Scheduling (APS, FCS), Manufacturing Execution Systems (MES), Track & Trace, Data Warehousing and Analyses (KPI) and Real-Time Performance Management (OEE), Quality (QMS), Maintenance (CMMS, EAM, APM) and Inventory processes (WMS).

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NIMBL'BOT

Company identification

Location : France (Saint Médard en Jalles)
CEO : Ludovic DUFAU
Website : www.nimbl-bot.com

Company history

Year founded : 2018
Employees : 10

Pitch for customers

https://youtu.be/78apGtfurbs

Pitch for investors

https://youtu.be/j3nDV63Ovjs

Company presentation

Nimbl'Bot designs robotics solutions for industry to perform complex tasks (inspection, maintenance) in confined and dangerous areas. We have developed an innovative robot arm bio-inspired from the human spine that pushes the limit of accessibility and can be embedded on a nomad equipment.

What distinguishes their technical proposal

Nimbl'bot robot is the only stand-alone solution snake robot adapted for the robotic inspection of confined spaces and/or with accessibility concern (manhole, trapdoor or core) :

- Aerial drone & rover are only suitable for wide spaces
- Endoscopes with manual control are limited in the distance & the complexity of their trajectory
- Autonomous locomotion snake robots cannot cross over obstacles & need flat ground
- Cable driven snake robots 'mechanic reduce its ability to be introduced in a manhole

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PELICO

Company identification

Location : France (Paris)
CEO : Tarik Benabdallah
Website : www.pelico.ai

Company history

Year founded : 2019
Employees : 38

Pitch Deck

https://youtu.be/A9RaXQA36mU

Company presentation

Pelico provides digital continuity for operations in between Supply Chain, Production and Customer Support:

- Pelico empowers users to get instant visibility on their perimeters,
- anticipates blockers and get a prioritized list of the most impactful actions,
- provides simulation for alternative scenarios thanks to dependencies modelisation with multi-level nomenclatures and Artificial Intelligence.

What distinguishes their technical proposal

Pelico allows teams accross organisations to collaborate on the same data referential and to have daily analysis pre-processed and best recommended actions provided by artificial intelligence for operations. Pelico's value proposal is then to :

- Improve the performance of operations by sharing end-to-end visibility and allowing agility,
- Impact the margins of the company with a rapid time-to-value and the ability to produce more with the same amount of resources (ramp-up context),
- Reduce stress on operations while providing all information in a few clicks to mitigate volatility,
- Anticipate blockers and their impacts on operations to improve the risk management,
- Simulate alternative scenarios to optimize production capabilities,
- Avoid excel tooling obsolescence and time consuming routines

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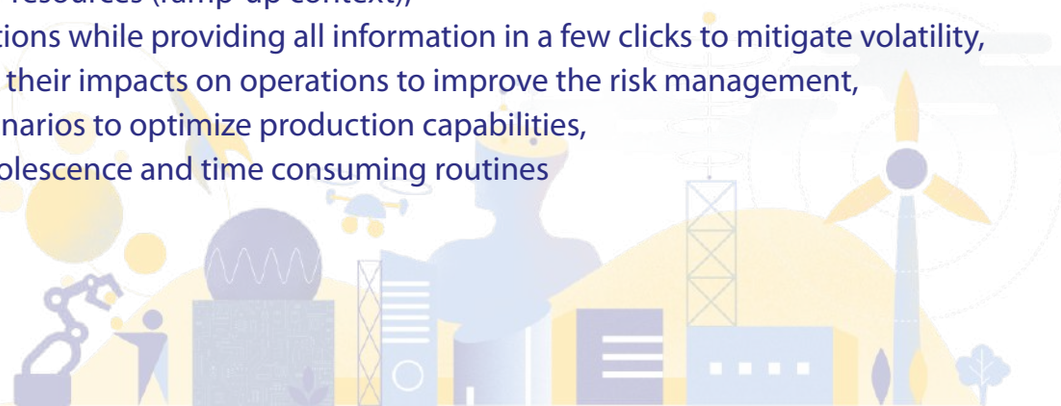


QTOOL

Company identification

Location : Italy (Pont Saint Martin)
CEO : Ahmed Dagani
Website : www.qtoolsrl.it

Company history

Year founded : 2019
Employees : 3

Pitch Deck

https://youtu.be/rlCv_nPT9hs

Company presentation

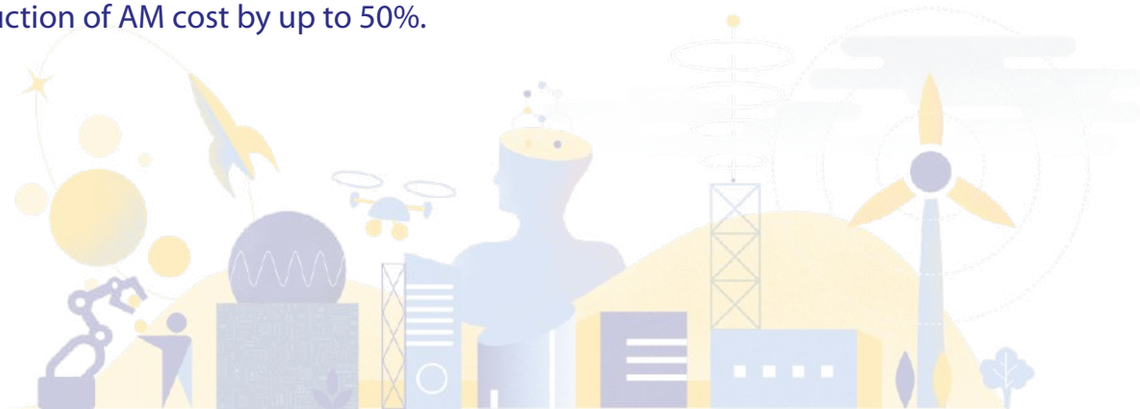
QTool is an Additive Manufacturing technology integrator for the tooling industry (moulds, fixtures, cutting tools, etc.) Leveraging on AM, our patented tools are up to 10x faster, up to 50% cheaper than the state of the art, and in the near future, our tools will be 5x stronger !

What distinguishes their technical proposal

QTool's proprietary design workflow reduces the design and manufacturing time from weeks / months to days / weeks and contains the following technologies :

Hyper Cool Technology — improvement of thermal efficiency by up to 10x compared to the straight cooling channels, zero or drastic reduction of scrap product due to thermal deformation (warpage).

Lightweighting Technology — reduction of the material used by up to 90% compared to CNC machining, reduction of AM cost by up to 50%.



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SERVBLOCK

Company identification

Location : Ireland
CEO : John ward
Website : -

Company history

Year founded : 2021
Employees : 3

Pitch Deck

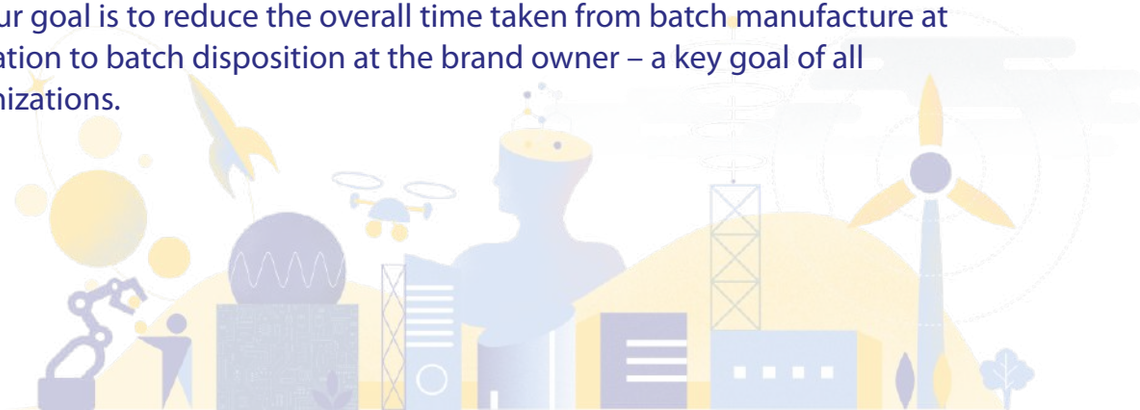
https://youtu.be/sjHFnbBFxZw

Company presentation

As more and more, pharmaceutical & Biotech companies choose to outsource their manufacturing projects - companies must evaluate the performance of its contract manufacturing organizations (CMOs) and determine whether it meets industry and regulatory standards. Servblock utilizes blockchain allows for Data security, traceability, and trust that current industrial complexes lack

What distinguishes their technical proposal

Servblocks blockchain solution allows for the seamless, secure sharing of real-time, actionable supply chain information across all parties. Servblock interfaces with ERP and supply chain systems including SAP, and others enabling the digitization and automation of cross-organizational business processes integral to pharmaceutical trade. End-to-end visibility into the product lifecycle allows for real-time auditing in our manufacturing collaboration hub. Our goal is to reduce the overall time taken from batch manufacture at the contract organization to batch disposition at the brand owner – a key goal of all manufacturing organizations.



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CONTACT US

Florian RUF

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

Eleni Tzavara

Research Engineer at LMS
Mobile : +30 6933 338 904
E-mail : tzavara@lms.mech.upatras.gr

Debora Greco

Project Manager at FGB
Mobile : +39.3495 576 784
E-mail : greco@fondazionebrodolini.eu

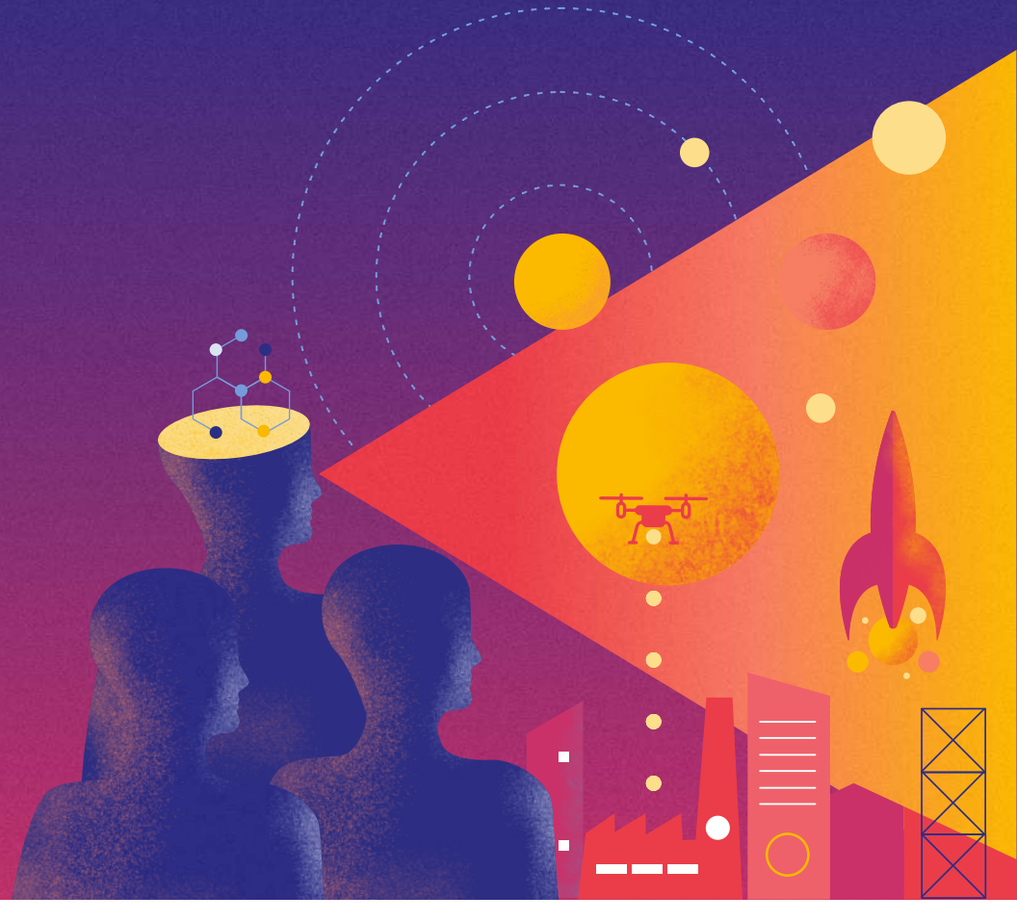
Joana Vide Pereira

EU Programmes Manager at FastTrack VC
Mobile : +35 1211 902 408
E-mail : jpereira@fasttrack.vc

Olivier Everaert

Scaler Development Partner at Atos Scaler
Mobile : +32 (0)478 23 45 00
E-mail : olivier.everaert@atos.net

THANK YOU FOR INVENTING THE FUTURE



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