Spin Off Company of the University of Studies of Genoa
Technological Area

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About us

- Advanced Machines for Power & Propulsion (AMP S.r.l.) is a consulting engineering firm that offers leading technical expertise and provides cost-effective solutions to customers’ needs. Our team of engineers is composed of professionals from industry and from international research institutions with over 30 years of experience.

- Since 2014 it has been recognized by the University of Genoa as a spin-off and in the same year it is registered as an Innovative Start Up in the appropriate register.

- The team consists of 12 members including six professors, two researchers and two research fellows of the Polytechnic School of the University of Genoa, a professor of the Department of Economics of the University of Genoa, as well as a professor of the University of Udine.

Mission

- AMP is a multi-disciplinary academic spin off derived from the research activity developed at the Department of Mechanical, Energy, Management and Transportation Engineering (DIME).

- The long-time collaboration with Power Generation international players enabled AMP engineers to achieve important goals in advanced design and optimization of turbomachinery components and products, gaining a state of the art expertise in physical modeling and numerical design for a wide range of fluid dynamic, thermal and mechanical problems.
AMP can provide a valuable support, supplying tools and competences for the mechanical design in each phase of the development process. In particular, employing advanced tools such as CFD and FEM for the fluid-dynamic and mechanical evaluations represents a well established practice.

- AMP offers a complete range of Computational Fluid Dynamics (CFD) simulation tailored to the customer’s needs
- Our expertise in CFD Consultancy lies in performing Computational Fluid Dynamics Analysis for various engineering domains and fluid dynamics industrial applications, such as thermal incinerators, boilers, valves, heat exchangers, home appliances and many others
- AMP provides our clients with reliable and professional finite element method FEM analysis engineering consulting services

AMP provide high class expertise in numerical tools development and can develop design tools and implement computational codes according to the clients requirements.

The team is specialized in the implementation of software able to model physical phenomena, written in different languages such as C++, C, Fortran, Visual Basic and Matlab/Octave.

Our main areas of expertise are the followings:

- 1D, 2D, 3D codes (fluid networks, through-flow codes...)
- Plant performance codes
- Code for gradient-based and evolutionary optimization procedures

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About us

- Buildtech srl was born with the aim of designing, developing and applying innovative approach methodologies for the sustainable design of new buildings and existing buildings.

- The company was founded in December 2016 and was recognized in advance as a Spin off of the University of Genoa in September of the same year.

- The team consists of six members, including a professor, a university researcher, a research fellow, a borsista of the University of Genoa and two external partners (including a company).

Mission

- BuildTech is an innovative startup in the construction and infrastructure sector that intends to transfer innovative techniques and products to the world of design and redevelopment, in order to create efficient and comfortable outdoor and indoor spaces with a positive environmental impact.
The knowledge and experience developed and developed by Buildtech in applied research activities can be summarized in the concepts of sustainable and bioclimatic design.

The objective is to resolve the complex interdependence between environmental conditions and needs, user needs, design choices and technical / functional requirements.

Buildtech uses specific "tools", numerical simulations, specific software, consultancy with other industry experts, research institutions, collaborations with companies and manufacturers of: materials, construction elements, plant systems, automation and control systems, solutions for renewable energy production.

Digitalisation system of the construction supply chain from the project phase to the post-implementation or post-requalification management phase: implementation of digital methods based on Building Information Modeling (BIM) as BIM-MM, Building Information Modeling for Monitoring and Management.

Optimization system of the building elements of the building envelope, of the plant system and of the energy production: use of minimization methods for multi-objective problems, interfaced with the BIM-MM.

Adaptive control system for the performance of the enclosure, of the plant system and of energy production: implementation of control systems interfaced with the BIM-MM.

Experimentation and development of innovative materials and construction elements: collaborations with research centers and with national and international producers.
About us

- The company Diasol srl was founded in Genoa in 2009 and operates in the field of predictive diagnostics of electrical insulation systems.
- Since March 2013 it has been recognized by the University of Genoa as a university spin-off.
- The Diasol srl team (made up of nine members, two of whom are professors, one technician, two PhD students from the University of Genoa and four external partners) has many years of experience in the field of electrical insulation systems and predictive diagnostics, developed through a cutting-edge research activity and collaboration with the main companies operating in the electric technologies sector.

Mission

- Diasol srl offers innovative solutions for the predictive diagnostics of electrical insulation systems for electrical equipment (motors, generators, switchgears, cables, insulators, etc.) by monitoring partial discharges (PD).
- Diasol srl produces measuring instruments for the off-line and on-line detection of the conducted and irradiated signals, relative to the PD, in low and high frequency; these tools also allow continuous remote monitoring of these signals.
Diasol is able to perform diagnostics of electrical systems and components (motors, generators, switchgears, cables, insulators, power electronic components, etc.) through on-line and off-line monitoring of partial discharges and a wide range of further electrical measurements.

Furthermore, thanks to the proven experience of its team, Diasol offers consultancy for the design, installation and commissioning of test rooms for electrical measurements on insulating materials and components.

For the detection of the irradiated signals related to the PD, Diasol proposes Solbox that continuously monitors the presence of PD in electrical machines powered also by electronic converters. Solbox is the first instrument actually applicable in a market segment where failures due to premature failure of insulation are particularly frequent. The integrated sensor in Solbox is patented.

SolboxPlus, designed for installations that are difficult to access, such as wind turbines, both onshore and off-shore, provide the possibility to transmit the signals relating to the PD to a remote location: in this way the signaling of potentially dangerous partial discharge levels occurs in the control room and furthermore, through the use of transmission protocols and / or the use of web applications, it is possible to make data available to a Diasol operator who can remotely provide online assistance.
About us

- Inspire Srl was founded with the aim of devising, designing and developing highly innovative solutions in the field of control systems and management of collaborative drone swarms.

- Established at the beginning of 2017, it has become simultaneously a Spin Off of the University of Genoa. From February 2017 it is registered as Innovative Start Up and holds a patent concerning an innovative platform for the management of drones.

- The social structure is made up of four members with extensive experience in the ICT area, including a professor of the University of Genoa.

Mission

- The company's object is the development, production and marketing of products and services of high technological value in close collaboration with the Polytechnic School.

- The Inspire Srl team consists of people with many years of experience in the ICT, controls, microelectronics and miniaturized sensors areas and who have recently developed a highly innovative idea for the UAV (Unmanned Aerial Vehicle) market.
In an emerging and highly competitive market such as drone applications, Inspire represents a paradigm shift: instead of trying to increase drone performance in terms of flight duration and payload capacity, Inspire offers an innovative patented management and logistics platform of collaborative drones, equipped with an automatic system to replace exhausted batteries and transported payload.

The change in the perspective from single to swarm configuration and the automated management of the battery and payload change of the M.A.R.S. (Multiple Airdrones Response System) platform opens up new application scenarios and the possibility of continuous and non-sporadic drone use.

Many applications in which the use of drones is already a reality in continuous growth can be revolutionized by M.A.R.S.: monitoring and alert in case of forest fires, dislocation of detection sensors in emergency situations, distributed video surveillance, agriculture, search for missing, etc.

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About us

- SIT Technologies srl aims at the industrial exploitation of research results in the field of energy harvesting technologies to improve the performance of power plants.
- The company deals with theoretical and experimental research in the field of advanced energy systems and was born from the experience of the Thermochemical Power Group research group of the University of Genoa, founded in 1998.
- The company structure is currently made up of seventeen members, including 6 professors and researchers from the University of Genoa.
- During 2018 it was set up while obtaining the title of Spin Off of the University of Genoa.

Mission

- The mission of SIT Technologies is to analyze and optimize energy plants to obtain efficient and ecological heat and energy generation systems.
- The company started its activity in 2018 thanks to some collaborations in the field of EU projects and the unique intuition linked to an innovative use of well-known technologies.
The main activities of SIT are:

- technological development and production of energy collection systems for the exploitation of any pressure drop of any fluid in systems generally dissipated through rolling valves (for example throttling valves in refrigeration cycles, wastegate in turbochargers).
- consultancy for large power plants, such as combined cycles, to implement heat pump and thermal storage solutions to improve flexibility and efficiency, especially at part load.

- The production activity is closely related to SIT’s proprietary technology: a specific regulation on the well-known Tesla turbine. This dedicated variation allows the turbine to be used in particular environments, achieving good performance and high flexibility within a wide range of fluids (also biphasic fluids).
- The intention is to exploit any available pressure loss generally dissipated through rolling valves within a wide range of systems.

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**About us**

- SPACE V srl is an innovative startup, proposed by the Department of Mechanical, Energy, Management and Transport Engineering (DIME), which was born with the primary objective of acting as a reference point in the emerging Space Economy market, focusing on the sector of production of fresh food in space.

- The innovative Start Up was established in 2021 and in the same year it obtained the Spin Off recognition of the University of Genoa.

- The company is made up of four partners, including a professor from the University of Genoa and a spin-off company from the University.

**Mission**

- SPACE V srl aims to study, design and develop an adaptive vertical farm model in the space environment, to make optimal use of limited resources such as the volume and energy available.

- SPACE V is part of the opportunities generated by the Space Economy, i.e. the set of activities that, starting from the research, development and construction of space infrastructures, lead to the construction of housing modules and the generation of innovative products and services connected to permanence man in space.

- The solution is based on a modular structure that progressively adapts to the growth of the plants cultivated in it.
The short-term goal of SPACE V is to study, develop and test an adaptive payload for the greenhouse in orbit.

The survival of astronauts for long periods of time in space requires them to become autonomous from Earth’s supplies through the maximum exploitation of the limited resources available in situ and the adoption of new technologies.

SPACE V’s contribution to life support systems in space is based on its patented adaptive multilevel greenhouse.

The multi-layer adaptive greenhouse has a number of features that differentiate it from standard vertical greenhouses:

- Vertical adaptive multilayer mechanism that maximizes the production of the plant per unit of volume
- Ability to grow plants of different sizes and growth rates
- Greenhouse structure design and engineering for easy planting and harvesting of plants
- Shelf control of atmospheric chemical composition
- Shelf control of temperature and humidity and lower energy consumption
- Automated shelf nutrient supply and crop growth monitoring
- The greenhouse is equipped with an air exchange mechanism with the cabin that captures the CO2 produced by the crew and returns the O2 produced by the plants
About us

Weather Water Sand (WWS) is an innovative start-up company founded in 2021 as a Spin-Off from the Department of Civil, Chemical and Environmental Engineering of the University of Genova by a group of professionals with several years of environmental modelling experience in academia and industry.

WWS was winner of the first prize in SMARTcup Liguria 2021 industrial category and was winner of the first prize in the STARTcup 2021.

The company consists of five partners, including a professor from the University of Genova and a spin-off company of the University of Genova.

WWS has strong scientific relationships with universities and research centers, university spin-offs, public authorities and several industrial companies.

Mission

WWS provides innovative numerical modelling services for the entire spectrum of natural flows, including winds, waves, littoral and tidal currents, rivers and submarine gravity flows with applications to renewable energy projects, oil and gas developments and environmental projects on land and offshore.
Our modelling solutions result from experience developed through research activities by the different partners during their academic and industrial careers.

**Weather Forecasting**
- Weather hindcast analysis
- Site specific, high-resolution deterministic and statistical forecasts for wind, wave, tides and solar radiation
- Applications to economic evaluations for new and existing renewable energy projects
- Applications to facility operations & energy marketing

**Submarine Geohazards**
- Wind & wave hindcast analysis: Analysis of historical wind-wave climate at a site, probabilities of significant events, impact to sediment transport and catastrophic events (coastal erosion, submarine landslides, turbidity currents)
- Turbidity Current Modelling 1.5D & 3D coupled with seabed evolution
- Integrated coastal circulation models (wind, waves and currents) and turbidity current models

**Geological Modelling**
- Flow modelling and visualization in 1.5D, 2D and 3D
- Simulation of deposit geometries, grain size distributions and porosity/permeability estimation
- Simulation of topography evolution and stratigraphy, pinch-out geometries and evaluation of stratigraphic traps
- Comparison of modelling results with subsurface data (well logs, cores and 3D seismic data)

**Fluvial and Coastal Hydraulics and Morphodynamics**
- Morphodynamic evolution (altimetric and planimetric)
- Flood risk assessment
- Sediment transport
- Impact of dredging operations
- Siltation and maintenance of navigation channels
- Morphological evolution of river networks, deltas, tidal channels and estuaries
- Bedforms formation and propagation

Our team is ready to develop specific solutions tailored to address client needs using software developed in-house and in the open market.

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About us

• BEES (Bayesian Estimation for Engineering Solutions) is founded in 2021 as a spinoff of the Mathematics Department at UNIGE, and is now in the process of being also approved as a spinoff of the National Research Council (CNR).
• BEES is currently finalist in the competition StartCup Lazio 2021.
• The five BEES partners are mathematicians and physicists with years of experience in the development and application of computational algorithms and artificial intelligence methods in several fields: source imaging in magneto- ed electro-encephalography; reconstruction of atmospheric parameters from LIDAR data; trading algorithms for financial markets and cryptocurrency exchanges.

Mission

The main activities of BEES are in three distinct fields:

• Development and commercialization of a proprietary library of functions for stochastic computation based on Monte Carlo methods, with applications in diverse fields including neuroimaging and processing of LIDAR data.
• Consulting for the analysis of electroencephalographic signals, with particular focus on the presurgical evaluation of epilepsy.
• Consulting for mathematical/statistical modeling and specialized software development in various fields, including: uncertainty/risk quantification, trading on financial markets, trading on cryptocurrency exchanges.
BEES provides services related to the integration of the proprietary library (see section “Our products”):

- consulting/software development for companies interested in integrating BEES library within their softwares
- Courses on the interpretation of the results, aimed at the final users

In addition BEES offers consulting in the following fields:

- Processing of electro/magneto-encephalographic signals,
- Software development for discretional/automated trading

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BEES is developing a proprietary library of functions based on Monte Carlo algorithms, that can be used to solve problems such as:

- Parametric inference in multi-object non-linear parametric models
- risk/uncertainty quantification in complex models
- Online tracking of objects

BEES will initially commercialize said library for neuroimaging of electro/magneto-encephalographic data, and for the analysis of particulate in atmospheric lidar.
About us

- DocSpace srl was founded in 2019 at the Dept. of Informatics, Bioengineering, Robotics and Systems Engineering (DIBRIS) and works in the domains of Software Platforms and Distributed Systems.
- In Feb. 2020 it obtained the official title of University of Genoa spin-off.
- The founding team includes five members, among which two DIBRIS professors and three young researchers.

Mission

- DocSpace srl has the development of software platforms for table synchronization in distributed systems as a core activity.
- The technical solutions provided support Collaboration, by enabling spreadsheet synchronization, and Business Intelligence, by enabling synchronization between spreadsheets and ERP and information systems.
DocSpace provides assistance on:

- Data Analysis through user collaboration.
- Business Intelligence, through the interconnection between spreadsheets and external data sources.
- Collaboration with Public Administrations, Research Institutions and Companies in high-tech projects.

SpreadSheetSpace allows spreadsheets to maintain synchronization with other spreadsheets as well as with external information systems (e.g., ERP, CRM, etc.) to support collaboration and real time data analysis.

Synchronization takes place under strict security guarantees, as it leverages strong end-to-end asymmetric encryption. Data never leaves the user administrative domains unencrypted.

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About us

- Founded in 2014, Healthropy S.r.l. operates in the medical informatics industry, with particular focus on the growing area of interoperability and clinical data semantic normalization, according to the most important international standards (eg. HL7, HSSP, CTS2, LOINC).

- During February 2015, Healthropy was awarded as Spin-off Partner of Genoa University. Since the same year, it is registered as Innovative SME in the national registry.

- Healthropy’s Team is composed by six members, among which a researcher, two professor at Genoa University and three private shareholders.

Mission

- Healthropy S.r.l. provides the design, development, implementation and commercialization of innovative products and services in the ICT and biomedical area.

- The Company realized one of the very first implementations of a cloud platform for clinical data management, HQuantum®, which is fully compliant with the HSSP (“Healthcare Services Specification Project”) initiative. HSSP is an international effort, promoted by HL7 and OMG, aimed at the realization of seamless process interoperability.
Healthropy’s business model is based on the SOA (Service Oriented Architecture) approach. The application of the cloud paradigm enable a cost saving effect on the adoption of the new technology.

Moreover, Healthropy provides professional services aimed at supporting our customers with the needed experience and expertise.

Healthropy developed its cloud platform HQuantum© enabling clinical data and information sharing among the various peers involved in both the Healthcare and the Life Science area.

HQuantum© was successfully used to standardize and collect real world clinical data for an observational study focused on infectious diseases.

HQuantum© was used to create a Common Terminology Service in a region-wide context, becoming the pivot for clinical data syntax and semantic standardization.

In both cases, the use of HQuantum© got favourable opinion from the ethical committee on the way we treat clinical data.

Healthropy’s solutions enable wide-angle improvements on processes such as care coordination, appropriateness of treatments and therapies, structured clinical information collection in clinical research context (Real World Evidence / Real World Data).

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About us

• LOGNESS s.r.l. is a academic spin-off of the University of Genoa and it is born in 2010 thanks to an initiative of some researchers that adhered to the UNI.T.I project (UNIVERSITY, Technological Transfer, Enterprises) realized by “Sviluppo Italia Liguria” and University of Genoa and financed by the Italian Ministry of the Economical Development.

• LOGNESS s.r.l. aims at transferring the activities of research and development of the University in the enterprise sectors in order to apply the capabilities and the specialized skills of its staff.

• LOGNESS activity is concentrated on the development of advances and innovative technological solutions essential for the industrial development to optimize the logistic procedure management with special attention to the decision-making and strategies as regard distribution processes.

Mission

• LOGNESS has studied, designed and developed innovative tools to support users in optimising the supply chain taking into account transport safety and security and adopting stringent technical and functional standards in order to provide a high quality service, respecting the laws and rules of safety and environmental protection and for the protection of the health of the workers and the public.
Platform Integrated of Transport

- LOGNESS has implemented a Logistic Integrated Platform which consists of different modules, software solutions, flexible tools and geographical application dedicated to the distribution processes, shipment management, trip planning, training of specialized personnel. Each module could be independent, customizable, or integrated in the information system of the client.

- Since transport services are almost completely outsourced, it is necessary to develop instruments for continuous monitoring of processes and performance, and to ensure an adequate level of control of this important aspect of the supply chain.
About us

- SIM4Future srls is a Hi Tech Company born from the Simulation group of Prof. Agostino Bruzzone of the Faculty of Engineering, Polytechnic School of the University of Genoa.

- The Group is one of the international leaders on Modeling & Simulation issues and is composed of people with long experience in the sector alongside young talents who have nevertheless obtained doctorates in this sector and developed projects both with Industries and with International Agencies as NATO and European Defense Agency.

- The Group already has many scientific publications in the main events in Europe, North America and Asia, but it is also active in project development, drafting proposals and co-operations on highly innovative issues.

- The team consists of 4 members, including a university professor, but the collaborators includes young people who have developed skills in this field for years and who work on highly innovative issues at the International Level.

Mission

- The main focus of SIM4FUture is to develop Solutions to Complex Problems that integrate Simulation, Modeling, Artificial Intelligence, Serious Games, Data Analytics and Extended Reality (XR).


- SIM4Future has also been promoting International Scientific and Technological Events such as I3M and WAMS for a long time and is involved in STRATEGOS Innovative Initiative
Our services

- SIM4Future offers package solutions and services for its sponsors that allow the integration of Innovative Models and Intelligent Agents in proposals and systems of other Companies and Institutions.
- SIM4Future offers Consulting Services for Innovation and Business Development.
- New services are developed based on the use of Autonomous Systems, Mobile Technologies, Simulation, XR and IoT.
- Service and Support are provided on time to ensure that the solutions offered are always reliable and functional in a simple and direct manner.
- Training & Education are other types of fundamental services that SIM4Future offers its clients in the Simulation and other Enabling Technologies Sectors.

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The product

- Our products use VR, AR, MR (Virtual, Augmented and Mixed Reality), AI & IA (Artificial Intelligence and Intelligent Agents).
- Our Products adopt the most advanced simulation Standards and Paradigms such as HLA (High Level Architecture), MSaaS (Modeling & Simulation as a Service) and applications of M2SG (Modeling, Interoperable Simulation and Serious Games).
- We develop solutions that are purely software-based, multi-platform from Smartphone up to CAVE (Cave Automatic Virtual Environment) and complete with Hardware and Integration with real systems.
About us

- Smart Track srl was founded in 2014 and operates in the Internet of Things sector for worker safety.

- Since 2014 it has been registered as an Innovative Start Up in the appropriate register and in 2015 it obtained the title of Spin Off of the University of Genoa.

- Smart Track was the overall winner of the ICT category of SMARTcup Liguria 2014, a finalist in the National Innovation Award organized by PNI Cube, testimonial of the Liguria Region at CPEXpo 2014 (The global expo-conference on Community Protection) and winner of the development program innovative startups and SMEs of the R & I Foundation.

- The team consists of 7 members, including a university professor, an employee and some consultants.

Mission

- The company's main activity is the development of safety and security systems for workers in Industry 4.0.

- The solutions offered by the company make it possible to speed up, simplify and automate the verification of the presence of workers during potential dangerous situations.
Our services

Smart Track is able to provide advice on:

- Integration of Smart Track products into customer solutions.
- Development and integration of radiofrequency systems for the creation of Wireless Sensor Networks and IoT systems.
- Collaboration with research institutions and companies for high-tech projects.

The product

- Smart Track has developed SIIGE (Integrated Indoor Emergency Management System), an innovative modular system that allows timely intervention during an emergency in large enclosed spaces where GPS does not work (civil and naval shipbuilding, factories, tunnels, mines, oil platforms, ships).
- SIIGE allows to locate people in closed places, automatically manage collection points, view the shortest route to reach missing people, implement access control without dedicated badges, report cases of man on the ground with chatbot and check correct use of Personal Protective Equipment (DPI) in real time.

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• Talos srls is an innovative start-up, founded in early 2016, which operates in the field of cyber security and has been recognized as Spin Off of the University of Genoa in March 2016.

• Talos srls won Start Cup Unige 2015, ITASEC Cybersecurity Startup Award 2018 and has been selected for Nato NCI Cyber Incubator pilot project in 2015 and in "Programma Regionale Sviluppo Startup" by Fondazione R&I in 2016.

• Talos boasts collaborations with important companies and international organizations like Poste Italiane, Deloitte and Istituto Italiano di Tecnologia (IIT).

• Talos management board includes a Full professor, an assistant professor and a post-doc fellow of the University of Genova.

• Talos' main activity is to provide high-tech and innovative solutions in the field of cyber security in both business and consumer markets, through software development, provisioning of SaaS and On-Premise security tools and specialized security consulting services. These areas of intervention have been certified ISO 9001.
The product

- The flagship product of Talos is APPROVER, an automatic toolkit for in-depth, fully automatic security analysis of mobile applications.
- APPROVER automates the most critical steps of the security analysis thereby reducing the time spent on the assessment from days/weeks to minutes/hours.
- The key features include, but are not limited to:
  - Cutting-edge security analysis technology
  - Support of most popular security guidelines
  - Customizable security policies
  - Intuitive risk scoring and evaluation
  - Comprehensive and effective per-app reporting

- APPROVER is also available as a Software-as-a-Service (SaaS) solution requiring no configuration or installation.
- APPROVER can also be used to monitor mobile apps distributed over both official and unofficial stores and promptly detect tampered, or counterfeit versions of official apps before unaware users use them.

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About us

- Vega Research Laboratories s.r.l.s. (a.k.a. VR Labs) is an innovative start-up founded in 2017, created by the Computational Intelligence Research Group of the University of Genoa.
- VR Labs is active in the development and production of innovative products and services of high technological value.
- From February 2018 the company obtained the title of Spin Off of the University of Genoa.
- The team consists of a single administrator and three partners, including two professors from the University of Genoa.

Mission

- VR Labs bases its activities on the new artificial intelligence technologies that are currently requested to analyze and manage the increasing amount of available data that are generated today.
- VR Labs aims to develop through collaborative partnership products and new technologies that are vertical and/or transversal to industrial corporates, thus supporting the expansion of their businesses and consolidating their technological position in respect to innovation and new technologies.
VRLabs provides tools, software resources, methodologies and skills to build together with customers "intelligent" and customized solutions especially in the healthcare, life-science, industrial production, logistic and public sectors. Thus for example driving the optimization of management of warehouses, of the intelligent city and of systems for assisting and monitoring fragile or sick people.

VRLabs supports customers in creating value for their business through the implementation of new integrated business models, where cutting-edge technologies, based on artificial intelligence are at the center.

Artificial intelligence is an horizontal approach, not specifically linked to an application or to a specific segment. This provides flexibility to create data-intensive solutions that automatically acquire the necessary knowledge not through expert advice and hand-programming, but through the analysis of static archives or data streams in real time.

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About us

- ZenaByte srl has been founded with the objective of developing innovative methodologies for the intelligent management, interpretation and knowledge extraction from data.
- The company has been founded in February 2018 after being recognised as Spin-Off of the University of Genova in July 2017.
- A professor and a researcher of the University of Genova are two of the shareholders.

Mission

- ZenaByte birth is based on the research activities, consolidated in several European projects and in collaboration with major international companies, of its founding members.
- ZenaByte’s mission is the design and development of innovative data analytics algorithms and tools applied to industrial problems with a particular focus on railway transportation.
The ZenaByte core business is represented by software solutions development and computer architectures design for:

- Intelligent data management, processing, interpretation and reporting;
- Knowledge Extraction from data;
- Data enhancement to turn data into corporate assets;
- Decision support systems based also on risk analysis;
- The development of technologies for IT systems protection to guarantee their availability, confidentiality and integrity;
- The integration of technological solutions currently available in other sectors in the company reference context (e.g. Blockchain);
- The integration of data coming from third parties and the creation of specific solutions for the collection and usage of data/information provided by "external" sources such as webservices, social networks, IoT platforms, and so on;
- Risk analysis (for industrial safety and security applications).

ZenaByte intends to develop:

- Business Intelligence tools to support railway decision makers using context-aware KPIs;
- Data Analytics tools for intelligent assets and traffic management.

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Environment Area

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About us

• Ce.S.Bi.N. srl is a company with strong connections with the scientific community founded in 2012 by the union of independent researchers and professionals with expertise in spatial ecology and planning, GIS and management, monitoring and conservation of fauna and flora.

• Ce.S.Bi.N. has been recognized by the University of Genoa as a university spin-off since 2013 and it is registered in the national register of researches (cod. 61868RYR).

• The team is made up of 11 members, including an ordinary professor of the University of Genoa and 10 professional members.

Mission

• Ce.S.Bi.N has combined the expertise of more professionalism to provide a wide range of naturalistic-environmental consulting services.

• The experience gained over the years allows us to offer a complete technical consultancy service to public and private customers for the fulfillment of the requirements required by the most recent environmental legislation, including all aspects concerning the planning and management of biodiversity in the territorial governance process.
Our services

**Naturalistic and environmental technical consultancy**

- Carrying out naturalistic investigations in the context of Environmental Impact Assessment procedures, Strategic Environmental Assessment and and Impact Assessment;
- Drafting of Protected Areas Management Plans;
- Predisposition of thematic cartography on fauna, flora and habitat in GIS environment;
- Monitoring wildlife, flora and habitats in the area of spatial planning and conservation planning;
- Survey and monitoring of exotic animal and plant species, analysis of their hazard and impact, development of management and / or eradication plans;
- Monitoring the conservation status of species and habitats of Community interest in accordance with European directives and national and regional legislation, for the conservation of biodiversity and for the sustainable development of the territory;
- Monitoring of interventions related to the building of plants for the exploitation of renewable energy (hydroelectric and windfarm);
- Environmental and naturalistic monitoring through the use of drones equipped with a thermal imaging camera.

**Naturalistic and environmental scientific consultations**

- Application and drafting of faunistic, floristic and habitat monitoring protocols;
- Studies relating to the management and conservation of biodiversity;
- Development of methodologies for diagnosis of the pathogenic fungus *Batrachochytrium dendrobatidis*;
- Drafting and support for the creation of scientific, educational and communication publications on naturalistic topics.

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www.cesbin.it
About us

• GEAmb srl is a consulting company that operates in the field of seismology and geophysics in order to offer solutions to the problem of Seismic Risk. The product portfolio includes studies aimed at evaluating the effects induced by seismic activity on the environment and buildings, the exploration of the subsoil, as well as the monitoring of structures subjected to vibrations induced by human activities.

• The team consists of a temporary researcher and a contractor of the University of Genoa.

• The company established in 2009 was recognized by the University of Genoa as an academic spin-off in June 2013, further extended until 2019.

Mission

• GEAmb srl combines the experience gained with the most advanced university research and professional competence to offer solutions to local authorities, companies and professionals in the fields of geophysics, seismic risk, and seismic monitoring (natural and induced seismicity/vibrations).

• The services and studies offered are essential for the design of anti-seismic structures, urban planning, and exploitation of Earth’s resources.
Our services

Consultancy and services in the sector of applied seismology:

- Analysis of seismic hazard and risk for ordinary and critical facilities;
- Analysis of the seismic response of foundation soils and seismic microzonation;
- Monitoring of seismic events induced by human activities such as extraction/storage of hydrocarbons in the subsoil, mining/quarrying;
- Monitoring of induced vibrations on structures (houses, bridges, viaducts, tunnels, dams).

Services in the field of applied geophysics:

- Geophysics surveys for soil characterization (refraction tomography, MASW, REMI);
- Vertical seismic measurements (down-hole);
- Passive noise measurements (HVSR) for the identification of soil resonance periods;
- Geoelectric surveys (ERT) for the geological and hydrogeological exploration of the subsoil;
- Georadar surveys (GPR), magnetic and electromagnetic investigations (EM).

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www.geamb.it
About us

- Geoscape cooperative, a new-born society, provides innovative, client-appropriate consulting services in the field of geoenvironmental analysis, spatial data management and digital mapping.

- Created by a team of young researchers, the company is based on a strong, broad and varied cultural background in several academic fields related to environmental and earth science.

- The company is also a research Spin off at the Department of Earth, Environment and Life Sciences (DISTAV) - University of Genoa: the working group is composed of 9 professional figures including university professors, research fellows and PhD students belonging to the above mentioned department.

Mission

- Our mission is to export outside the university borders innovative methods of spatial data collection, monitoring and mapping, from mountainous and flat areas to underwater, with the aim of providing effective and sustainable solutions to a broad range of geoenvironmental problems. We base our work on an integrated and multidisciplinary approach which is extremely helpful in complex situations.
GeoScape aims to provide cutting-edge services and solutions in terms of:

- Geoenvironmental risk and urban planning consulting
- Digital mapping
- Development of digital platforms
- Mathematical modeling of natural phenomena
- Field surveys and laboratory analyses
- Professional training/refresher courses
- Management of natural and cultural heritage for a sustainable tourism

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About us

- Geospectra srl operates in the geological sector and conducts investigations and studies of applied mineralogy and environmental, characterization and mapping of contaminated sites and evaluation of the natural fund, requalification and territorial enhancement.

- The team consists of six members including two professors from the University of Genoa.

- The company established in 2014 has been recognized by the University of Genoa as a university spin-off since October 2013.

Mission

- Geospectra srl was born from the research activities carried out at the DISTAV (University of Genoa) concerning investigations and studies of applied and environmental mineralogy and at the DAD (Geomorfolab - University of Genoa), or studies and research on the integration of physical phenomena related to the evolution of the earth’s surface with the historical-cultural-anthropic components of the landscape supported by computerized mapping tools.
The services offered, derived from the experience and the multidisciplinary expertise of the individual components, include a range of products and activities starting from the supply of analytical data, acquired with portable FP-EDXRF (Field Portable X-Ray fluorescence) instrumentation, related to the composition mineralogical, lithological and chemical of natural materials (contaminated sites, natural grounds, mining sites, agricultural lands, stone materials) and artificial (artifacts, works of art).

The instrumental investigations, prospecting and planning offered are mainly aimed at distinct professional sectors: characterization of potentially contaminated sites and natural grounds; territorial marketing and Terroir; enhancement and geo-tourist dissemination; analysis of artificial materials; cultural heritage and restoration.

GEOLOGICAL LABEL of the product

The Geological Label is a tool aimed at providing essential operational services to link a product to its territory and make it non-delocalizable. It guarantees its typicality, diversity and quality through the historical cultural and geological characterization of the site.
GERMINA srl is an innovative startup made up of a set of engineers and entrepreneurs with the aim of devising and developing innovative solutions for the cultivation of horticultural and flower species of high commercial value with a low environmental impact.

The innovative Start Up was established in 2020, and in 2021 it obtained the Spin Off recognition of the University of Genoa.

The business idea starts from a set of professionals in collaboration with the University of Engineering of Genoa and the Faculty of Agriculture of Sassari.

The company is made up of four partners, including a professor from the University of Genoa.

**Mission**

L’attività principale di Germina srl è rappresentata dalla progettazione, sviluppo e commercializzazione di una Serra Adattiva.

Si tratta di un innovativo dispositivo e un procedimento brevettato che consente di ricreare le condizioni ambientali ottimali per la crescita di specie vegetali in essa coltivate minimizzando il consumo energetico necessario a tale compito.

L’ambito di impiego primario della soluzione è quello delle coltivazioni in serra di prodotti floricoli, orticoli e similari.
The Adaptive Greenhouse is a patented device capable of minimizing the energy consumption necessary for traditional greenhouse crops during the growth phase of the crops.

The device, which can be applied directly inside existing greenhouses, allows the volume of the environment to be conditioned to be enormously minimized in height: from a few centimeters at the time of sowing up to the maximum height of the crops.

The result of years of research and experimentation in the field of micro mechanics, electronics and agricultural sciences, the adaptive greenhouse inaugurates a new paradigm for the indoor cultivation of horticultural and floral species for food and cultivation for commercial purposes.

Among the main advantages offered by this device:
- Significant reduction of the energy required for the conditioning of cultivation environments and consequent reduction of production costs and associated environmental impact.
- Lower investment for the creation of a greenhouse by reducing the costs of air conditioning machinery.
- Lower maintenance costs of air conditioning equipment.
- Possibility of powering the adaptive greenhouse also thanks to solar energy alone given the low consumption of operation, eliminating the fate of the consumption.
- Possibility of cultivating species at the ideal temperature for maximum yield without the need to cultivate at a compromise temperature between yield and consumption.
About us

- Ingenia srl was established in 2012 thanks to years of academic experience of the team in the field of applied acoustics and safety at work.
- The company was recognized as university spin-off by the University of Genova in October 2012.
- Ingenia srl is addressed at public bodies, companies and individuals as partner for consulting and training activities and it also promotes the distribution of software in the acoustic field.
- The team consists of research fellows and two professors of the University of Genova who have developed the business idea starting from consolidated research activities at international level.

Mission

- Ingenia srl provides technical advices on issues related to noise, environment, safety, certification of products related to acoustics, analysis and control of noise propagation and vibration, design of the acoustic requirements of buildings and plants, studies in the environmental field, occupational safety assessments.
- The company bases its activity on the use of innovative methodologies for the study, design, implementation and installation of noise reduction and noise reduction systems.
Our services

- Ingenia offers a complete and integrated service in the applied acoustics field, combining traditional activities carried out in an integrated form, the ability to offer advanced technical skills to provide solutions suited on customers needs and to develop product research.

- The company also operates in safety at work, from the protection of workers from noise and vibration, to the risk assessment of ATEX - explosive atmospheres in workplaces, and of all the specific risks foreseen in the national reference law on Health and Safety at work.

- Ingenia offers services aimed at technological innovation in the field of environmental sustainability through the study of new products and solutions to be proposed in the field of civil, industrial and environmental engineering to maximize energy efficiency.

- Ingenia can boast a wide range of research and consulting experience within the academic activity, on behalf of many public bodies and major private companies.

- Currently, the company provides consulting services in occupational safety and applied acoustics to many private companies and public bodies.

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www.ingeniasrl.it
About us

- Micamo srl was founded in 2011 and deals with safety and quality in the environmental and food sectors.
- Accreditation as a university spin-off was obtained in 2013 and recently confirmed.
- Micamo srl brings together the expertise of research groups engaged for years in the diagnostics sector.
- Within the company there are molecular biologists, biochemists, microbiologists, specialized technicians and sector professionals who have gained decades of experience in the field of basic and applied university research and who have shared the intention to transfer innovative methodologies to everyday applicability using the correct national and international regulatory schemes.
- The corporate structure is made up of fourteen members, of which five professors and three grant holders of the University of Genoa, three companies, four professionals.

Mission

- Micamo srl offers services for microbiological risk assessment in real time, finding effective and practical solutions to support companies in relation to safety and environmental and food quality.
- The technically innovative and rapid services are aimed at private individuals, food industries, managers of tourist-accommodation and spa facilities, restaurateurs, public-use facilities, health, social-health and social-assistance facilities and in general companies that need to evaluate risks from microbiological contamination.
Our services

- Micamo is able to give quick answers that allow a microbiological risk assessment in real time.
- Micamo offers expertise in the preparation of the self-control manual for food hygiene and safety developed according to the principles of the HACCP system.
- Micamo offers expertise in finding effective and practical solutions to support companies in relation to safety and quality of working environments.
- Micamo can assist the customer in the Evaluation and Management of Biological Risk with technically innovative and rapid solutions to ensure the personnel, the products, the image and the competitiveness of the companies.
- Micamo is specialized in microbiological and biomolecular diagnostics in the environmental and food sector.
- The strong point is the quali-quantitative analysis of pathogens such as Legionella using PCR methods Real time but is able to provide all the necessary analytical support.
- Micamo is a manager for training courses and participates in the creation of specialized training courses in the environmental and food sectors.

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About us

- MUDS Srl was born in 2012 and provides services of investigation, design and supervision as a part of the depuration process of waste water in the marine coastal areas.
- The accreditation as a University’s spin-off has been obtained in 2012 and further extended until 2020.
- MUDS Srl brings together the competences of research teams that worked in the underwater diagnostic area for several years.
- Within the company, a group of entrepreneurs, technicians and university researchers work together with the primary goal of developing and promoting the M.U.D.S. technology (Marine Underwater Depuration System).
- The company is made up of fourteen shareholders, of which three professors at Genoa’s University.

Mission

- The company’s primary target is to develop, promote and commercialize the M.U.D.S. technology: a patent protected and pioneering process in biological waste water depuration.
- M.U.D.S. is a system that solves in a innovative, easy and cheapy way, the issues related to the urban waste water depuration, concerning coastal municipalities.
- This professional experience about the marine environmental protection, has catalyzed the shareholders’ potentiality to generate various action projects with the aim of solving the marine pollution problem.
MUDS Srl has been committed since years examining solutions and developing products for waste water depuration in the marine environment and not just that.

MUDS Srl, with its high specialized team of technicians, is involved, on a daily basis, all over Italy, to offer services as: water depuration, water analysis, interventions to support projects with the aim of improving the sea environment.

The professional experience gained about the prevention against the marine environment pollution has generated a series of intervention projects to solve different aspects of the main issue “sea’s environment protection”.

The result of these researches was the design, the development and the patent of the M.U.D.S. – Marine Underwater Depuration System that is a retraining and protecting tool of the marine environment, optimizing in a very inexpensive way the quality of sewages along the coastal urban community.

M.U.D.S. is an underwater Depuration system that turns the organic matter contained in sewage into an available energy source to benefit various marine trophic chains.

M.U.D.S. is the easiest, the cheapest and the most innovative Bio-Filtration depurative process you can install on every submarine pipe.

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www.depurazionemarinamuds.it
About us

- PM_TEN srl (Physical Methods and Technologies for Environmental Needs) was founded in 2012 and deals mainly with environmental quality analysis and control.

- Accreditation as a university spin-off was obtained in 2013 and recently confirmed. PM_TEN actively participates in the activities of the Liguria Region Regional Poles of for innovation, in the field of environment, energy and marine technologies. The company is a member of the Tecnomar Consortium, representative in charge of the spin-offs in the Technical Operating Committee of the Consortium TICASS.

- The members are three young researchers and two tenured university professors and the company currently has two employees.

Mission

- The activities of the company concern the dispersion of pollutants in fluids, the characterization of sources of atmospheric pollution, meteorological and marine forecasting, the study of wind potential, the determination of different types of pollutants and their sources in environmental matrices, the compositional analysis of materials also with non-destructive techniques.

- PM_TEN srl targets to national and international private companies but also at public bodies, which require air quality analysis and / or environmental impact studies and weather evaluations.
• **Environmental impact assessments and air quality simulations:** development and implementation of numerical codes for the atmospheric pollutants dispersion description (Eulerian, Gaussian and CFD models), atmospheric emissions evaluation models and calculation of their contribution to concentrations of polluting material in the area of interest. Study and simulation of the dispersion of odors in the atmosphere.

• **Environmental Monitoring:** in particular dust sampling and characterization of atmospheric pollution sources. Development of instrumentation for atmospheric particulate analysis aimed at the determination of the atmospheric concentration of Black Carbon and application of calculation algorithms for the determination of the contribution of biomass burning and fossil fuel combustion.

• **Meteorological and marine modeling:** meteorological simulation from the planetary to the microscale scale, models of formation and propagation of sea waves, models of oceanic circulation and in closed or semi-enclosed basins.

• **Composition analysis:** evaluation of the elemental, chemical or isotopic composition of a generic sample using non-destructive techniques.
Energy area

BLUENERGY REVOLUTION SCRL pag. 56
EPOCS SRL pag. 58
IESOLUTIONS SRL pag. 60
About us

- In 2014, from a simple idea, BluEnergy Revolution was transformed into a company project with the foundation of the BluEnergy Revolution scarl cooperative (ex h2boat), registered as Innovative Start Up in August 2015 and at the same time obtaining the Spin Off title of the University of Genoa.

- The team is made up of 9 members including 4 professors of the Polytechnic School and 5 engineers who, coming from different backgrounds, after the experience of research in the academic field on the topics of hydrogen and renewable generation, have evaluated the mature times for the commercial application of the technologies studied.

- The purpose of the cooperative is to create quality work by sharing the passion and skills developed in the academic world and transferring them to the market.

Mission

- The goal of our cooperative is to create quality work in the energy field, with an approach aimed at low environmental impact by using innovative technologies, in a region “Liguria”, which presents both opportunities for collaboration and markets at different levels.

- At a political level, the approval of restrictive rules against polluting energy production systems combined with the incentive to use systems with a reduced environmental impact is increasingly frequent. For this reason, our target audience is the world of industrial research, accompanying companies in technological innovation paths with dedicated studies and experimental activities.
BluEnergy Revolution offers specialized consultancy, design and research in the energy sector.

Clean energy: The aim of BluEnergy Revolution technologies is to make the most of the renewable energy potential present in nature.

Hydrogen: BluEnergy Revolution recognizes the potential of the energy carrier of the future: hydrogen, which is already able today to guarantee performances comparable to traditional fossil systems, but with zero impact.

Ecological and sustainable: BluEnergy solutions aim at the EcoComfort concept, to ensure that an ecological choice linked to the circular economy model does not limit user comfort, but rather increases its possibilities.

The product on which the cooperative has worked is an Energy Pack, a system consisting mainly of 3 elements (electrolyser, fuel cell and storage of hydrogen with metal hydrides), modular and scalable, which can be installed on both new boats and on those already existing. The cooperative founded in 2020 a new s.r.l. which is dedicated to the production and marketing of the product.

After the birth of the new company, BluEnergy continues its specialized research and innovation path on technologies that use hydrogen as an energy vector, expanding its horizon to the entire energy sector. The will is to internally develop further ideas that can lead to new applications.

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About us

- Epocs srl is focused on hardware and software design and development for electronic systems, for signal processing and remote control, applied to embedded systems and their integration for equipment and systems.

- The company was founded in June 2010 and was recognized as a Spin off of the University of Genoa in June 2013 and then further extended until 2019.

- The team consists of three partners including a research fellow and a technician from the University of Genoa.

Mission

- Epocs has designed and developed E-vision, a supervision system for photovoltaic systems that allows instant visualization of the main parameters of the plant, energy produced, gain and CO2 savings, to identify any anomalies in a timely manner.

- The application sectors in which Epocs is mainly active include: digital signal processing, transmission for civil and industrial applications, systems dedicated to renewable sources and automation systems.
**E-vision Supervision system for photovoltaic systems**

- E-vision is a supervision system for photovoltaic systems that allows instant visualization of the main parameters of the plant: energy produced, gain and CO2 savings.
- It allows you to constantly monitor all the parameters coming from inverters and string boxes so that any anomalies are detected promptly, reducing intervention times to a minimum.
- The system is based on a web platform and can be consulted anywhere from a PC or smartphone on the condition of having a network connection available.

- Every exit from the set constraints of a parameter generates an alarm that is displayed on the graphic interface and communicated via SMS and email. The data is saved on the database and used for statistical analysis of the performance of the plant, reports on alarm management and maintenance operations.
- E-vision integrates a complete video surveillance system able to detect the presence of unwanted subjects on the system and prevent theft of panels and devices.

**Control firmware for photovoltaic inverters**

- Epocs develops custom control firmware for photovoltaic inverters based on algorithms aimed at minimizing the reactive components and increasing the performance of the devices. The software is developed according to customer specifications.
About us

- IESolutions is an engineering consulting company that operates in the field of energy efficiency and energy saving, offering integrated solutions through the use of proprietary technology for real time data monitoring and analysis and real time, adaptive management of technical assets for climate control in non residential buildings.

- The company is working in the field of energy efficiency and use of data mining and AI for application of thermal dynamic modeling of building and process.

- The company was recognized as a Spin Off by the University of Genoa in June 2013. This affiliation was then further extended until 2019.

Mission

- The Company provides solutions in the fields of energy consumption optimization, distributed generation control and energy management, according to the current trends in the field of energy monitoring and performance management.

- IESolutions offers extremely qualified services thanks to the strong link with the University of Genoa and the work group of the DITEN-IEES laboratory (Intelligent Electrical Energy Systems Lab, of the Department of Naval, Electrical, Electronic and Telecommunications Engineering).
IESolutions aims to interpret the needs of companies operating both in the manufacturing sector and in services, in the task of carrying out the most convenient choices for their business in line with the ever-shifting environment of the energy market.

IESolutions is able to supply its clients with customized tools for real-time energy monitoring and technical assets control that fully integrate their information technology architecture.

IESolutions offers engineering consultancy services to help its clients devise and put in place an energy-saving policy based on historic data gathered from real-time monitoring.

Thanks to its proprietary platform for real-time monitoring and analysis of energy consumption called ESOS (Energy Smart Optimization System), ESolutions offers to its customers a multi-site and multi-energy web-based solution to improve the management of energy expenditure and provides effective assistance in the development of an overall energy strategy through targeted energy audits and application of Artificial Intelligence (AI).
Health Area

CURA SRL pag. 63
IO SURGICAL RESEARCH SRL pag. 65
TESEO SRL pag. 67
CURA Robotics and AI srl aims to enhance the technology developed in CARESSES, a multidisciplinary project that developed the first elderly care robot capable of adapting to the culture of the assisted person.

The CARESSES Artificial Intelligence, integrated with the humanoid robot Pepper developed by SoftBank Robotics (project partner in CARESSES), was proven to help older people in different ways: for example, by reminding them to take medicines, encouraging them to maintain an active life, helping them to stay in touch with friends and family, recognizing emergency situations, or simply helping to lessen the feeling of loneliness through social interaction and conversation.

The innovative Start Up was established in 2021, obtaining the title of Spin Off of the University of Genoa in 2022.

CURA was founded by an international team of six researchers who worked together on the CARESSES project, with multidisciplinary skills (robotics, information technology, marketing, computer graphics).

CURA’s activities are mainly focused on healthcare chatbots and home robots, sectors that are experiencing rapid development thanks to some factors, such as the increase in Internet connectivity, the adoption of smart devices, the growing need for virtual assistance, and the consumer demand for autonomous robotic technology.

In particular, the entrepreneurial project is aimed at developing products and services to increase the interaction (especially verbal) of robots and social devices, so as to offer, even to simple systems, the possibility of conversing with the user in a culturally competent way, through a Cloud architecture that allows integration with the social interaction features that the device already has.
CURA’s core product is a ready-to-use Cloud services platform that allows any device connected to the network (robot, home assistant, or mobile app) to develop advanced (mostly verbal) social interaction. The Cloud platform guarantees any intelligent device (a humanoid robot, a low-cost and small desktop robot, ...) to access a cultural knowledge base and, consequently, to receive information related to the most appropriate behavior to keep (what the device has to say and do) depending on what the sensors perceive and the inputs received by the user.

In parallel, the company also supplies (starting from pre-existing robotic solutions) robots for the assistance of the elderly, aimed at improving the quality of the service offered to residents of retirement homes in the face of staff shortages, and to enhance the use of human resources.

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About us

IO Surgical Research was born from the collaboration between the Urological Clinic of the Policlinico San Martino in Genoa, in collaboration with the University of Genoa, with Mixura and with Digital Tree Innovation Habitat, and has developed the idea of creating a coherent interaction prototype in real-time between holograms of anatomical structures and live organs, such as kidney and prostate, during robotic assisted laparoscopic surgical procedures.

The initial implementation phase required the close synergy of medical-surgical and bio-engineering skills. Within the University of Genoa, the established Spin-Off IO Surgical Research sees the DISC and DIBRIS, respectively, structures of the Faculty of Medicine and Surgery and the Faculty of Engineering as the relevant departments.

Mission

The goal of IO Surgical Research srl is the use in Augmented Reality of three-dimensional anatomical models, starting from CT and MRI images, creating a real-time intracorporeal navigation system applied to Robotic and Laparoscopic Oncological Surgery.
Our services

Pre-operative phase
- Study and simulation of the intervention strategy through a 3D reconstruction of the patient's organ at an individual level.

Operative Phase
- Maximized effectiveness of the intervention thanks to the use of intracorporeal navigation in augmented reality, taking into account movement in space and deformation of the tissue.

Post-operative phase
- The use of robotic technology allows a high preservation of functionality and a lowering of recurrence thanks to faster and more precise interventions.

The product
- The IO Surgical Research solution consists in the application of an innovative patented technology that solves the problem of real-time coupling of the three-dimensional model (hologram) to the target organ during the surgical procedure.
- In this way, surgeons have an instrument that has never been possessed before, which leads to an elevation of safety standards and oncological outcome as well as a considerable facilitation in specialized training and refresher courses.

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www-iosurgical.tech
About us

- Teseo srl is active in the field of the Ambient Assisted Living (AAL). Our first product, Kibi, is specifically aimed at elderly people, so that they can enjoy their lifelong independence.

- The company was established in December 2015 and was acknowledged by the University of Genoa as a spin-off of in January 2018.

- Our team has a remarkable know-how in relevant enabling technologies (IoT, AI, deep learning, cloud computing, blockchain, H/W design), production management, marketing and sales. It includes, among the others, two university professors, a researcher, and two business angels.

- Teseo received several awards including the Janssen Award as “the best startup” at the BioInItaly 2018 Investment Forum, in the Healthcare & Biomedical section.

Mission

- Teseo’s mission is developing advanced AAL platforms for both enterprises and single customers.

- Kibi allows the elderly to keep their independence for as long as possible; permits the family to assist their loved ones, without invading their privacy; provides residential facilities with a tool to better assist their guests.

- The company relies on the collaboration of synergistic partners such as Dotvocal Srl (voice applications), Deepit AG (blockchain and web marketing) and Alfagamma Sagl (operational marketing and sales).
The product

Teseo’s main activity focuses on the development of plug & play systems, based on artificial intelligence and machine / deep learning techniques, which allow unobtrusive monitoring of the well-being of a person, without interfering with his/her usual behaviours, and automatically alerting relatives or assistance centres in case of need.

The level of the person’s well-being is related to the so-called Activities of Daily Living (ADLs).

The ADLs are the daily activities associated with movement, rest, nutrition and personal hygiene.

Detecting these activities makes it possible to measure the well-being index of a person and his/her degree of independence.

• Kibi is composed of a wearable device and some proximity sensors to be placed in the house. Installing Kibi is easy: a guided procedure includes recording some phone numbers to alert in case of need and an essential description of the person’s daily activities. It can be used in a single apartment and in care facilities.
• Kibi identifies remarkable ADLs as well as important events such as falls and dizzy spells, and learns the person’s habits. This allows to recognize anomalous situations, which may require external intervention.
• Kibi can include a vocal interface for a friendly interaction with the person.
• Data security and integrity are ensured through advanced blockchain-based techniques.
## Biotechnology and Pharmaceutical Area

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About us

- Accadermica srl was born in the Pharmaceutical and Cosmetic Product Section of the Pharmacy Department, with the aim of offering a "second life" to agri-food waste, transforming high environmental impact residues into high added value cosmetic raw materials.

- Accadermica srl in 2015 won second prize at the Start Cup Unige, a competition dedicated to business ideas based on innovative ideas generated by research activities conducted within the University of Genoa.

- An innovative Start Up was established in 2015, at the same time obtaining the title of Spin Off of the University of Genoa.

- The team consists of 4 women, including two professors from the School of Medical and Pharmaceutical Sciences and two researchers from the Department of Pharmacy who, thanks to the synergistic interaction and multidisciplinary skills in Cosmetic Science, pursues the objectives of Green Cosmetic Chemistry.

Mission

- The aim of the company is to produce cosmetics using the by-products of the food industry, in particular extracting green bioactive ingredients using low-cost eco-friendly microwave technologies.

- In this way, thanks to the simultaneous use of carefully selected raw materials and highly active functional substances, it is possible to create biocosmeceutics of absolute efficacy, the best solution to meet the needs of the skin.
Our services

- Training and information from professionals operating in the cosmetic sector, offering accredited continuing education courses for pharmacists (ECM), with a view to transferring knowledge between the various stakeholders.

- The use of natural-oriented products, with a high percentage of active functional substances, with a focus on the choice of raw materials and production processes with low environmental impact.

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The product

- The products conceived and studied by our team contain an active ingredient obtained from the by-products of the food industry, exploiting a particular microwave process developed specifically to extract the "essential waters" from matrices rich in polyphenols.

- The most promising material was the marc, which allows to obtain a water particularly rich in polyphenols, anti-oxidant substances. The extract can be inserted directly into highly moisturizing and anti-aging cosmetic products.
BEST S.R.L. starts its activities from the laboratories of the Food Engineering research group, operating at the Department of Civil, Chemical and Environmental Engineering (DICCA) of the University of Genoa, from a joint work with CCS AOSTA SRL, with decades of experience in the agricultural sector, proposing a new idea of symbiotic agricultural product in liquid formulation.

BEST S.R.L. obtained in 2019 the first prize of the Start Cup Unige, a competition dedicated to business ideas based on innovative proposals generated by research activities conducted within the University of Genoa.

The innovative Start Up was founded in 2020, and it also obtained the title of Spin Off from the University of Genoa.

The team is multidisciplinary and highly qualified, consisting of 2 chemical engineers, a food technologist, 1 biotechnologist, 1 surgeon, a doctor in pharmacy, the corporate structure is completed with the important contribution of CCS AOSTA S.R.L.

Symbiotic agriculture is a new cultivation process that provides, for the soil, the use of positive microbiology (fungi, bacteria and yeasts) to favor the growth, development of plants and their fruits, soil fertility and its healthiness.

BEST S.R.L. is developing a solution to the current problems related to the use of products in granular format or in aqueous suspension for symbiotic agriculture. The microorganisms are directly stabilized in a liquid product based on an emulsion consisting of vegetable oils (seed oil, soybean oil, etc.).
The main activity is research and development, production and marketing of products and services with a high technological content.

In particular, the company deals with the formulation of innovative products for agriculture and plant care in compliance with the environmental sustainability of the design, development and scale-up of production plants for agricultural products.

Research and development of innovative plants for the production of pesticides, fertilizers and biostimulants and activities in the plant sector, including installation, testing and management of plants and technologies related to the aforementioned activities.

Biological validation of new products, including the enhancement and validation of by-products and waste from the agri-food industry.

The technological solution proposed by BEST is able to produce stable liquid formulations for products with a high active biological content. Depending on the operating parameters chosen, more or less concentrated emulsions can be obtained with droplet diameters ranging from a few to hundreds of micrometers. The particle size distributions of the emulsions, produced through the high-speed emulsification technique, are uniform and perfectly repeatable under the same operating conditions.

Encapsulated microorganisms can be a monoculture or a mix of different cultures. In the case of monocultures, stabilized emulsions can be obtained for each type of encapsulated microorganism, which can then be mixed in the required doses. In the case of a mix of different crops, a product is obtained that already contains the entire pool of microorganisms in the quantities deemed appropriate.

The target market is the market for fertilizers, seed preparation, corroborants and biostimulants in the context of the national, European and international agricultural market.

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Bio3DmatriX srl was born in the BioNanoengineering laboratory of DIBRIS, with the aim of introducing to the market innovative and highly versatile kits for neurotoxicity studies.

In 2019, the proposing team obtained the third prize at the “Start Cup competition” of the University of Genoa. In 2020, the Innovative Start Up was registered, while obtaining the Spin Off title of the University of Genoa.

The team consists of three women, including a professor, member of the “3R Committee” for the regulation of animal testing, and two research fellows.

The business activity aims to introduce new products on the market, based on chitosan and other bioactive components, which allow to optimize the use and characterization of 2D and 3D neuronal cell cultures.

In this way, it is possible to obtain highly versatile in vitro models to perform fast, reliable and cheap pharmacological screenings to study the effects of candidate molecules for the treatment of neurodegenerative diseases in the preclinical phase.
Our services

The business idea has several advantages that would simplify and optimize 2D cell cultures and physiologically support the growth of 3D cultures, compared to the alternatives currently on the market.

Our services can be summarized as follows:

- Design and selling of user friendly 2D / 3D supports for neuronal cell cultures
- Customization of 2D / 3D supports, according to specific customer requests
- Development of 2D / 3D supports for drug screening applications
- Consulting services: the high experience of the proposing team offers the possibility to provide the most suitable product to the customer’s needs and professional support during its use

The product

- Supports for 2D cultures: pretreated surfaces for adhesion, growth and biological responses of primary neuronal cells and human pluripotent stem cells (h-iPSc)
- Supports for 3D cultures: injectable and thermogelling solution for growth and biological responses of primary neuronal cells and human pluripotent stem cells (h-iPSc)

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The NovaNeuro company was established in February 2015 as a spin-off of the University of Genoa, Italy. It operates in the research, development and marketing of novel drugs and food supplements active on cellular energy metabolism, with special reference to the nervous system and the muscle.

Two of the three founding members are researchers of the University of Genova.

NovaNeuro S.r.l. is active in the field of creatine based food supplements.

The innovation introduced is the formulation of this supplement in chewable tablets obtained by mixing creatine and honey according to an original preparation process.

NovaNeuro S.r.l. it has also activated to obtain ministerial recognition of its supplement as food for special medical purposes, in view of its use in pathological conditions of the nervous system and the neuromuscular system.
NovaNeuro ideated and developed an innovative formulation of creatine, i.e. chewable tablets obtained by mixing creatine and honey according to an original procedure. Its main advantages are:

- High degree of purity
- Better stability and bioavailability
- It can be taken with no need for water nor other liquids
- Portable everywhere
- Precision of the dosage, guaranteed by the formulation in tablets
- Pleasant taste

This creatine-based supplement is useful for athletes and body builders, that appreciate its very palatable flavor as well as its portability (chewable tablets can be taken everywhere, with no need for water). Moreover, it is ideal for use as a nutraceutical remedy in conditions of mental fatigue, sleep deprivation, cachexia and memory failure of old age, and the like.

Finally, it is likewise ideal to use in several muscular and neurological pathological conditions for which scientific evidence exists (statin-induced muscle problems, untreatable depression, and the like). NovaNeuro S.r.l. has applied for the ministerial recognition of this supplement as food for special medical purposes, in view of its use in pathological conditions of the nervous system and the neuromuscular apparatus.

On a different subject, NovaNeuro is active in the preclinical development of:

- a novel anticancer drug with an innovative mechanism of action, i.e. inhibition of the creatine kinase enzyme.
- innovative creatine-based drugs with a better penetration through the blood-brain barrier, assuring better efficacy in neurological conditions.

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ScreenNeuroPharm s.r.l.

About us

• ScreenNeuroPharm s.r.l is a company working in the Bio / Med-Tech industry.

• Company founded in 2021 and included in the innovative Startups section. In the same year, it is recognized as a Spinoff.

• The team's expertise was developed within the Department of Computer Science, Bioengineering, Robotics, and Systems Engineering of the University of Genoa, with which our team collaborates.

• The three-person team has experience in bioengineering but in various fields of expertise.

• ScreenNeuroPharm was overall and in the Life Science category winner of SMARTCup Liguria 2020, awarded at the National Award for Innovation 2020 (PNI), winner of the Golinelli foundation's Reactor pre-acceleration program and winner of the Futura di GiovediScienza21 award.

Mission

• The mission of ScreenNeuroPharm is to provide physiologically relevant in vitro models to improve the reliability and efficiency of laboratory and pharmaceutical tests.

• ScreenNeuroPharm is a supporter of ethically correct testing that adheres to the ideals of cruelty-free and 3Rs (refine, reduce, replace).
ScreenNeuroPharm's business model includes a variety of services:

- Customer support for ScreenNeuroPharm products
- Use of ScreenNeuroPharm products on behalf of customers
- Research and development of products
- Collaborations with research institutions and companies

ScreenNeuroPharm creates, produces, validates, and markets:

- in vitro cell culture engineering devices that mimic physiology in the human body. To date, it provides a variety of physical frameworks for constructing three-dimensional, modular, and heterogeneous cell cultures.
- user-friendly analysis tools to simplify analysis operations that are currently time and cost-consuming, operator-dependent, and difficult to automate.

All products are developed in partnership with clients, if feasible, to make the ScreenNeuroPharm experience as personalized as possible.

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Drug screening and laboratory tests that are easy, quick, and affordable
Socio-economic Area

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About us

- Capitalmonitor s.r.l. was founded in July, 2017 in order to bridge the gap between academic research and practice by transferring academic knowledge in accounting and business administration to companies and practitioners. We believe that an intimate connection between academic knowledge and practice in these fields is essential to improve and support key business decisions.

- Building on specific self-made and proprietary software, we propose an alternative approach to problem solving in business practice, based on a strict integration between academic research on financial and management accounting and practical business methods and procedures.

- Our teamwork consists of academics and business consultants, and it promotes the above mentioned innovative and fresh approach. Capitalmonitor s.r.l. has been recognised “University Spin-off” from the University of Genoa since June, 2017.

Mission

- Capitalmonitor S.r.l. provides business services to support business decisions, with specific attention to corporate valuation, business plan development and evaluation, management control, and internal auditing design.

- Our services - provided also thanks to proprietary software - help companies to tackle the complexity of the competitive context along all the business lifecycle, from start-up to maturity. Specific services help managers and professionals in detecting (and facing) company crisis.
Capitalmonitor s.r.l. supports companies and professionals in tackling issues in the following main areas:

- corporate valuation, business intelligence, management control, and internal auditing;
- derivatives valuation;
- impairment test;
- custom-made consultancy services.

These services are provided also with internally-developed software.

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Capitalmonitor s.r.l. has incorporated the methodologies adopted in a wide range of software products. Our main software solutions are:

- **Cash flow forecast (CFF)**, which enables to make cash flow forecasts, preventing future liquidity problems especially for SMEs;
- **Financial alert (FIN.AL)**, that enables to monitor and control key financial drivers in order to prevent company crisis;
- **Nibbio**, that enables to evaluate the nature, the risk, and the value of derivatives, thus providing information materials required by both the Italian GAAP (OIC) and IFRS.

www.capitalmonitor.it
About us

- GDR Partners was founded in 2014 by University Professors and Industrial Executives with the aim to develop innovative products and methodologies to be transferred to the Enterprises.
- GDR Partners is specialized in improving significantly the profit produced by manufacturing and service Enterprises by performing management and organizational consulting.
- GDR Partners believes in solid know-how and teamwork. The Team is composed by a selection of Engineers with complementary skills, able to meet the market demand.

Mission

- «We generate and deliver results» Our mission is to generate value for Customers with a strong impact on EBIT.
- Our approach consists in a methodical and pragmatic route from the analysis of systems and processes, to the development of customized solutions to be recommended to the Management.
- Our goal is to stand out from most of Competition by delivering much more than paper. In fact, with the approval of the Company, we implement the agreed interventions. Key factor of success consists in three-sixty degrees service, managing the change by standing beside, coaching and training our Customers’ Personnel.
**GDR Consulting** supports Companies with a proprietary approach designed to align the Operations to the global strategy, by improving performances and reducing costs.

The Consulting division, with strong competences, helps Customers to reach operational excellence, in accordance with the most updated dictates of Industry 4.0 on the current company organizational model.

**GDR Supply Chain** is intended to be the center of excellence for process and technology integration of distribution chains, by proposing advanced models to balance lean and agile principles, in function of the specific nature of the product or the service marketed.

The Supply Chain division guarantees to our Customers a better alignment of the product to the market requirements and the development of a strategic network.

**GDR Academy** transfers to the Companies advanced knowledge in organizational and management field and supplies tailor-made courses suited to each Professional level.

All our Professors have a strong academic experience, their works and skills have been widely recognized and valued internationally. At each theoretical lesson, to ensure the usability of teaching, Students are required to practice on real business cases by implementing the proposed methodologies.

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Our services

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About us

- OPTIMeasy, founded in January 2021, deals with the optimization of operations mainly in the Logistics and Transport sectors.
- It is registered as Innovative Start Up in the special section of the Register of Companies and is Spin Off of the University of Genoa since May 2021.
- OPTIMeasy is based on the great passion of the two founders who, through the integration of transversal skills including mathematics, optimization, logistics, transport and economics, are confident of being able to provide a contribution to companies for supporting them in problem solving and cost reduction using decision theory, operations research and optimization approaches.

Mission

- OPTIMeasy offers a simple approach to obtain decision support systems for bringing a consistent competitive advantage using operations research and optimization techniques, with the aim of supporting companies in the efficient and organized management of processes and decisions.
OPTIMeasy aims to offer all those activities necessary for the development of decision support systems based on operational research and optimisation techniques in order to guarantee a comprehensive approach to the customer:

**Analysis**

Comprehensive analysis of processes, starting from their definition, through the study of the activities that make them up to the identification of the most appropriate improvement approach

**Optimization**

Study and development of a solution approach aimed at optimizing the decisions and/or operational processes defined and analysed

**Scenario analysis**

Construction of comprehensive scenario analyses to assess different possible alternatives

**Key performance indicators**

Support in defining appropriate Key Performance Indicators (KPIs) for monitoring and evaluating improvements

**Decision support systems**

Designing of decision support systems based on the developed optimization approach and to be integrated into the customer’s business process

**Project management**

Management of innovative projects related to the development of the most suitable tools for improving and optimising business processes

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About us

- Sigma NL srl was founded with the purpose of transfer of the socio-economic-cultural research, innovation in products, services and consulting to high technological value to companies, associations or public bodies.
- In 2017 it was established obtaining the Spin Off title of the University of Genoa.

Mission

- The business idea is focused on:
- - development of innovative models, methodologies and advanced technologies in the socio-economic-cultural field;
- - software tools and algorithms for the assessment of risk management, assessment and business organization, energy market and utilities;
- - consulting and validation of innovative financial and credit procedures.
Our services

- To develop innovative models, methodologies and advanced technologies in the socio-economic-cultural field.
- Social ROI (S-ROI) & impact evaluation.
- RIA (Regulatory Impact Assessment).
- CSR (Corporate Social Responsibility), One Report, Integrated Reporting <IR> with GRI indicators
- Develop evaluation systems and data collection in the socio-economic and environmental impact.

Collaborate with institutions and companies in the field of legislation and research, data collection and processing in terms of corporate social responsibility and social innovation.

- Provide advice on innovative issues and solutions in the financial and credit sectors.
- Supporting institutions and companies in the definition and validation of innovative regulatory procedures and strategies in the economic-financial field.
- To develop advanced models, methods and innovative tools for the energy and utilities markets with particular attention to sustainability and resilience.

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About us

- Tetis Institute srl is an entrepreneurial initiative with a high innovation content for the exploitation of scientific research results.
- Tetis is a consulting company born as Spin Off of the University of Genova (Italy) in 2018.
- The co-founders are professors of Chemical and Process Engineering and Economics.

Mission

- Tetis has a great deal of experience in consulting on Climate Management, Ecodesign, Life Cycle Assessment, Environmental Labels and Circular Economy, boasting its roots in CESISP (interuniversity Centre for the Development of Product Sustainability).
Tetis carries out specialist consultancy for companies, associations or public bodies, national and international organizations and institutions on:

- Sustainable Return on Investment (SROI)
- Life Cycle Assessment and Life Cycle Costing (LCA-LCC)
- Type 3 Environmental labels (EPD, PEF)
- Product Category Rules (PCR)
- Carbon Management and Trading
- Circular Economy strategies and programmes

Tetis has the following capabilities and experiences:

- Social Return on Investment and Regulatory Impact Assessment (Private companies and Public Administrations)
- Climate action and plans (Participation to UNFCCC COPs, including COP21, as RINGO; Plans of 5 Cities)
- GHG emissions inventory (Milano EXPO 2015, Campus, Public Administrations, more of 500 EU-ETS plants, 20 CDM, eCO2care VER Registry manager)
- Environmental labels (more than 50 EPD, 20 PCR, member of the Technical Committee of the International EPD System)

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About us

- VIE was founded in 2015 by a group of professors and post-docs who worked together as a research team at the Department of Educational Science of UNIGE.
- The business partners of the company have different professional backgrounds all in the field of the human factors (scholars, work psychologists, clinical psychologists, ergonomists, business managers) which are complementary and well integrated.
- The personnel of VIE consists of seven business partners (owner of the company). Three of them are academic staff employed by the University of Genova (an associate professor, an assistant professor and an adjunct professor), one researcher employed by University of Geneve (CH), and three freelance psychologists.

Mission

- The mission of the company is to apply the product of the academic research in the field of psychology, ergonomics, safety science and behavioral science in order to promote safety, well-being, and productivity.
- VIE is recognized by the Italian Ministry of the Education, University and Research as a research institution (Italian Register of Research Institution: CAR n° 62087LCD).
Relevant stream of activities of the company are:
Promotion of safety and risk awareness in different fields, such as transportation (traffic psychology), manufacturing, health care, emergency, public safety and community resilience.

Traffic psychology research, such as driving simulation research, computerized tasks and validated questionnaires for attitude evaluation. VIE has great expertise in developing and validating questionnaires, psychological tests and assessment methodologies of psychological, social and cognitive competence.

Ergonomics and Human Factors training and consultancy; we have expertise in human-machine interaction, user-centered design, cognitive task analysis, workload and situation awareness assessment.

Training with innovative methodologies, such as high-fidelity simulation, participative training, flipped classroom (Problem Based Learning, Team Based Learning), etc.

Organizational and business consulting for enhancing productivity, safety and wellbeing of workers. We apply innovative method descending from behavioral science and psychology research.

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