



ADDITIVE MANUFACTURING COMPANIES AT FORMNEXT 2021

16th – 19th
November 2021

FRANKFURT AM MAIN

HALL 11, BOOTH D31





HIGH-LEVEL MANUFACTURING

Piemonte boasts a long lasting industrial vocation and houses excellent skills in advanced production, mainly in aerospace, automotive, defence, food, health & medicine, domotics, industrial automation, metrology, oil & gas, power generation, water treatment, green technologies & cleantech.

Universities and R&D centres support the innovation skills of companies.

ADDITIVE MANUFACTURING IN PIEMONTE: did you know...?

Big players Several international brands involved in AM are harboured: Prima Industrie / Prima Additive, GE Avio Aero, Thales Alenia Space, Hexagon and Renishaw that established here one of its 6 R&D centers.

Specialized education Politecnico di Torino has a whole department specialized in AM, which also manages the first Master on additive technologies in Italy.

Specific R&D 1 excellence center: CIM4.0 – Competence Industry Manufacturing.
1 specialized HR center: Skillab.

AM company network Over 30 top-class local companies are directly involved in AM, while dozens more use AM techniques, integrating them with classical machining and production processes.

Main skills: reverse engineering and CAD services, pre-print services, AM material supply, production of AM machines, subcontracting, thermal and surface treatments, post process finishing, testing services.

Meet some of them at Hall 11, booth D31.

Piemonte, your next business destination

- Unique technical know-how
- Innovative products and processes
- High quality standards
- Design capabilities
- Production flexibility

The participation in Formnext 2021 is organised within the Integrated Supply Chain Projects "Aerospace" and "Mechatronics". The projects provide international players with a preferential channel to meet and develop business with 300 top class Italian companies active in manufacturing based in Piemonte – North-West Italy.

The projects Team's assistance is supply chain focused and completely free of charge for international players. They ascertain the outsourcing needs and arrange b2b meetings according to the technical requirements with the most suitable partners - in Piemonte or on their premises -, visits to local companies to discover the region's aerospace and mechatronics sectors, participation to international events and trade missions to connect demand and supply. Thanks to new technologies and platforms virtual meetings can also be arranged.

The "Mechatronics" and "Aerospace" supply chain projects are promoted by Regione Piemonte (Regional Authority), financed by ERDF – European Regional Development Fund and managed by Piemonte Agency.

Piemonte Agency

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Mechatronics and Aerospace Teams

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CONCRETE SUPPORT FOR INDUSTRY



3ntr today represents one of the most consolidated companies within the additive market, on a global scale, thanks to the production of reliable, industrial-grade production systems.

The brand lives to produce reliable and durable industrial systems, with two main focuses, the technological trend of the market and the needs of the customer.

The company grows daily thanks to close relationships with customers and partners, and it is known worldwide for its ethical behavior and integrity, as well as the passion that is in the company's DNA and which has helped to evolve the family business into a globally structured company.

3ntr printers are perfect tools, adaptable to a fast production environment as well as to research centers. Despite having a lower cost, they can guarantee similar or even higher prototyping and production performances compared to other FDM and FFF technologies on the market.

Unlike other more complex and limited technologies, 3ntr doesn't bind to forced choices and guarantees an intuitive and reliable process. With 3ntr, each user can approach the printer by testing non-proprietary or research materials, and thanks to the SSI software, ease of use is guaranteed even for less experienced users.

The printers, robust and reliable, work without interruption 24/7, always guaranteeing the maximum freedom of control and management of each project.

**3NTR
- ADDITIVE
MANUFACTURING
SYSTEMS**

JDEAL-FORM

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INTEGRATED SUPPLY CHAIN PROJECTS ARE CO-FINANCED WITH EUROPEAN REGIONAL DEVELOPMENT FUND



Ilena
SPM



LEADER IN HIGH PRECISION MECHANICS

ITALY
PIEMONTE
THE PLACE TO INVEST

Ellena S.p.a. is a company which has been operating in the precision machining sector for more than 75 years. Today it is exploring and developing new solutions, which include the Additive Manufacturing process, to meet costumers' growing needs. To make this happen, it uses two different types of AM processes: Selective Laser Melting and Fused Deposition Modeling. The first technology is utilized to build mid-sized metal components, while the second for small to large dimension prototypes in advanced polymers.

The components that we manufacture meet a wide range of industrial sectors, such as: aerospace (heat exchangers, brackets, drones' parts), automotive (suspension brackets, manifolds) and mechatronics (industrial machines parts).

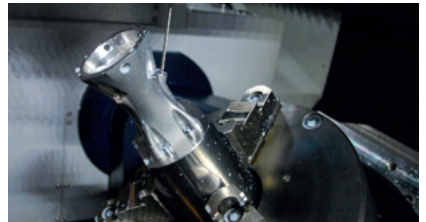
We have introduced, within the company, the guidelines to comply with the latest regulations for what concerns the process and product qualifications for each sector.

Thanks to the know-how gathered from the precision machining process, it is possible to implement additive printing solutions to optimize post-processing operations and to offer the customer a "ready-to-use" component. Besides the machining operations, we can offer sandblasting, deburring, heat treatments and coatings.

We are currently participating, in collaboration with Politecnico di Torino and CIM4.0, to international project for the design of innovative heat exchangers that will leverage the additive process.

ELLENA - SPEM

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WE MAKE YOUR LIFE LIGHTER AND STRONGER

A 40-year experience with industrial environments makes our company a pioneer in the development, production, and assembly of components starting from composite materials.

Erre Ti translates into the continuous and full satisfaction of customers.

Innovation, synergy, and collaboration are our three key-factors to develop complex products with a high-tech value destined to different industrial domains. A win-win philosophy ensuring:

- Designers and engineers, the right way to translate their ideas into complex forms and develop new applications.
- Manufacturers, with products featured by quality and durability. Composite materials are durable over time, thanks to the processes and technologies used during their production.
- End-users, with top quality and prestige.

Thanks to continuous research for new ways and processes we offer high-tech and green solutions.

Whether you are a student, a renowned brand, or an enthusiast, together we turn your ideas into reality adopting the most effective technologies in the processing of composites.

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Guanxi

Group



WE MAKE THE CHANGE HAPPEN

PIEMONTE
THE PLACE TO INVEST



ITALY

Digital is complex, you need an orchestra director.

We manage Sales, Marketing, Service processes by defining strategy, processes, and guiding execution.

What do companies have in common today?

The need to innovate, to introduce new products, services, methods and processes. The opening of new markets. The acquisition of new channels. The introduction of a new organizational structure that creates value and transfers it successfully to the market.

Digital is not an industry, a business function, a business. It is an ELEMENT, like electricity, paper, wheel, fire. It now involves all our activities, enables new processes, new business models, generates innovation. Digital Marketing and innovation go hand in hand. Every day there is something to discover, new tools, a new strategy, a different methodology and process. There is no standard in a world where "change" and "challenge" are the key words that guide it. Digital can be COMPLEX, but it doesn't mean it's difficult. It requires a better understanding and attention to the multiple aspects that define it.

Together to define processes and methodologies

We analyze the company's business model and work closely with the client, defining together processes and methodologies that integrate all business functions, from Sales to Marketing. We engage and train the entire team involved, structuring business processes, defining the objectives and the target the company is addressed to, the needs it responds to, the resources it relies on, the risks, challenges, and opportunities. We are the main European Business Partner of Hubspot and the main Italian Business Partner of Google and Shopify.

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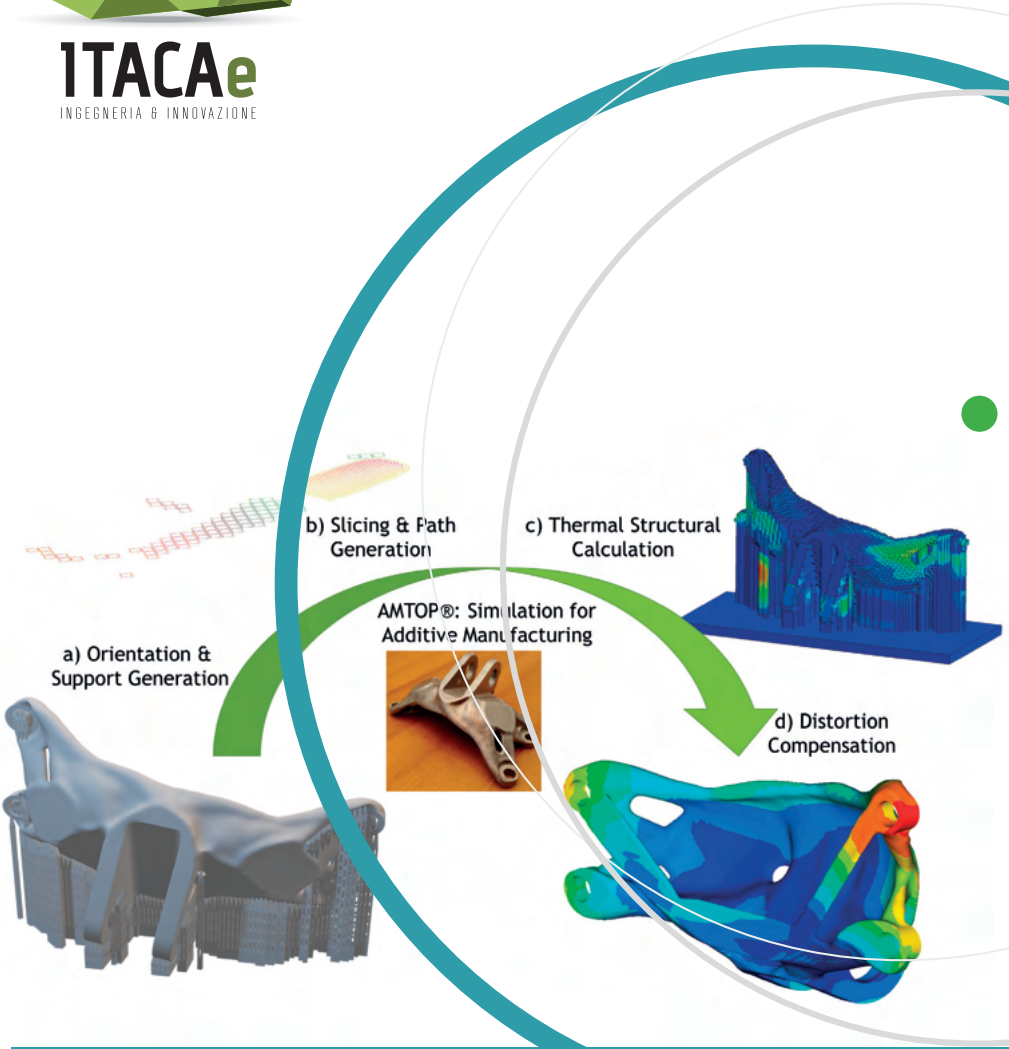


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ITACAE
INGEGNERIA & INNOVAZIONE



SYNERGY FOR SUCCESS

ITACAE is a consulting firm with experience in the "best-in-class" methodologies for the design and the analysis of industrial products and production processes, to optimize the product development cycle. Customers are engineering offices and manufacturing companies in the automotive, aerospace, equipment, and industrial facilities.

- Analysis of standards and specifications, 3D CAD modeling, analysis of tolerances and 2d drawings.
- FE analyses of products (stress, stiffness, quasi-static, dynamic, impact, buckling, fatigue, fluid-structure interaction, ...) and processes (sheet metal stamping, forging, plastic molding, rolling, cutting, assembly, ...), aimed at optimizing products, processes and equipment.
- Specific and customized programs of consulting and professional support (benchmark of SW for design & engineering, implementation of new tools and methodologies into engineering offices, consulting in decisions on new investments).
- Development and implementation of innovative software, databases, methodologies & engineering tools.
- Support to the customer for the development, the implementation and the training in the design of products made with additive manufacturing (AM) technologies, through the use of AMTOP®, a specific tool which performs a coupled thermal-mechanical analysis of the manufacturing process aimed at the definition of the optimal production path (e.g., the laser beam) and process parameters for minimum criticalities and costs.

ITACAE

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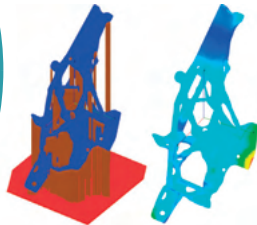
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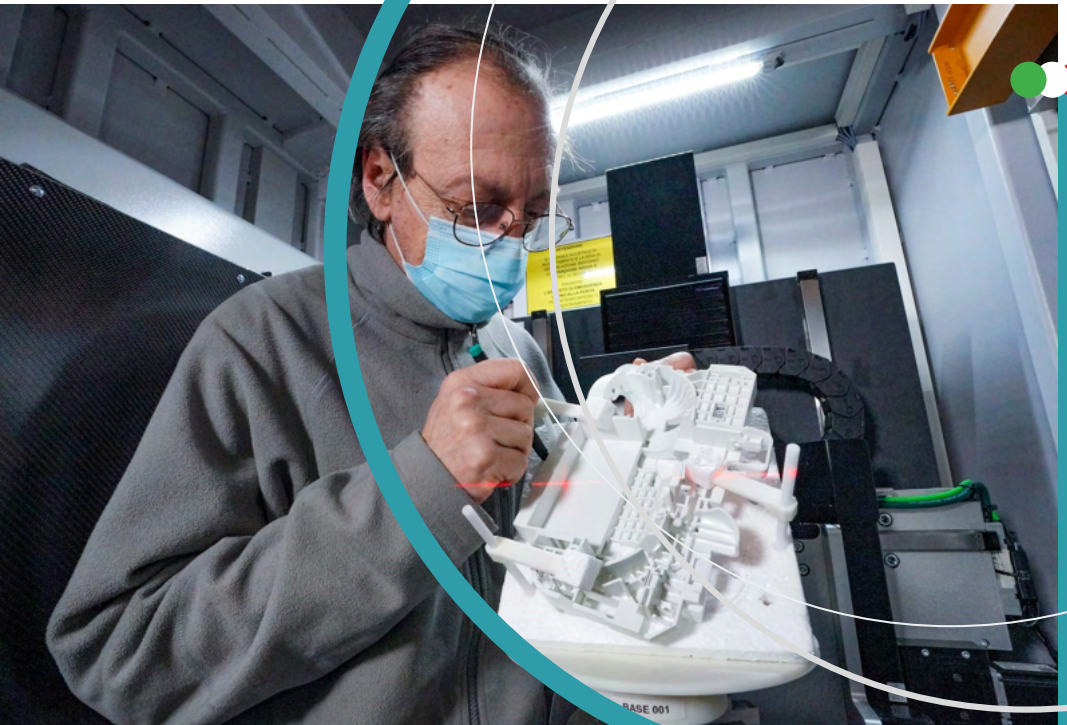
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OUR EXPERTISE TO MAKE YOUR PRODUCTS FLY

Labormet Due Srl is one of the strongest commercial facilities in Northern Italy in the field of scientific instruments for the laboratory and quality control.

We provide tools for the quality control and characterization of materials, their relevant consumables - from stereomicroscopes to 200-ton-traction machines.

We can guarantee for all the equipment supplied: installation, staff training, after-sales service, upgrading, and certification.

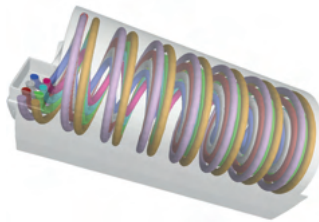
We use the best-known characterization and measurement techniques, such as: metallography, optical and electron microscopy, image analysis, physical and mechanical testing, environmental simulation testing, chemical analysis, metrology in the research, production control, and quality check.

One more big business opportunity is offered by the tomography service required from a wide range of different customer's category. Reverse engineering, an evaluation of porosity, an internal defect occurs are just a few examples of what the tomographic technique can offer.

Labormet Due operates in the aeronautics, space, and defence sector and, for this reason, has improved its Quality Management System to be conform to the standards ISO 9011:2015 and EN 9100:2018 requirements, obtaining the certifications.

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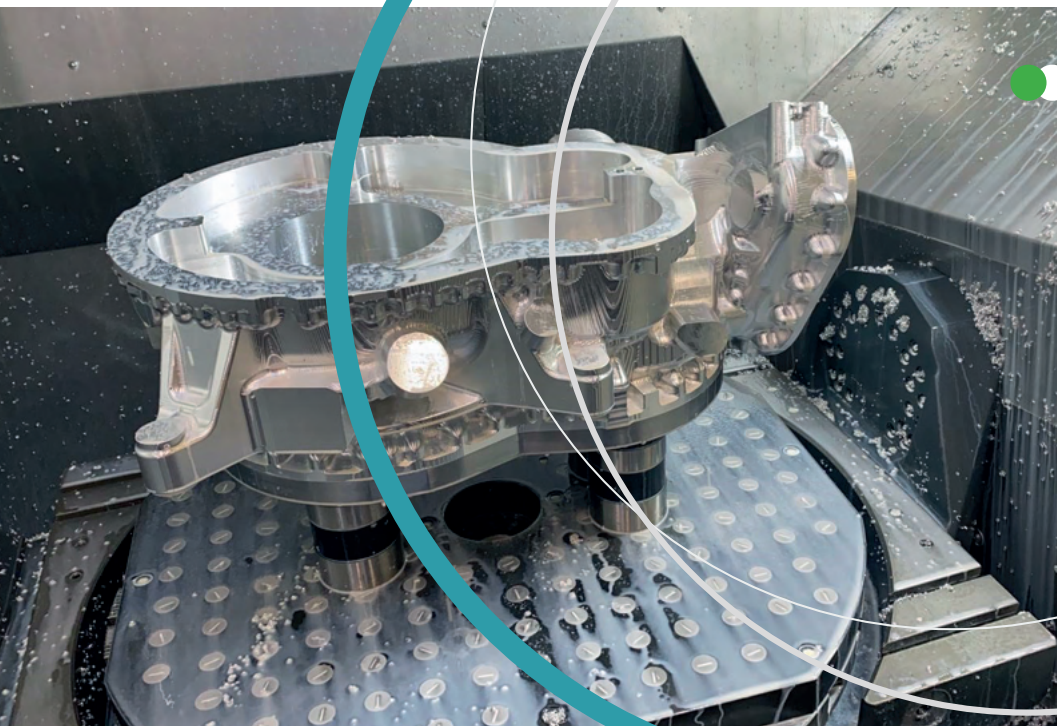
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PROGEM



In the aerospace field more than the others experience is a key for success. Progem has gathered experienced people for every position getting former specialist of every field to ensure the highest level of service.

Progem fully understand that the realization of the parts is just a small step of the entire project and often all the delays converge to this phase. That is why we are very efficient and prepared to support the customer for the greatest satisfaction.

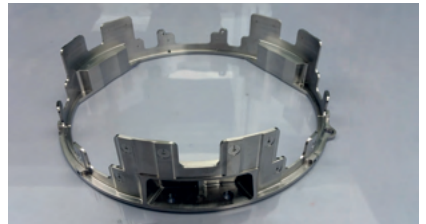
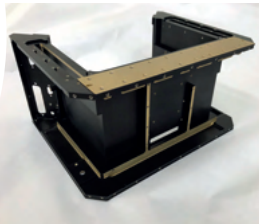
Quality is our strength, there are plenty of company pretending to machine precise parts. We know very well what a micron is and how to handle it. Our strong quality system allows us to finish the part directly on the machine without any post working ensuring the best result.

Progem is involved in the industrialization and manufacturing of precision mechanical parts for aerospace, space and defense for both civil and military purposes. Progem is good and fast, not cheap. Progem operates not only in general mechanical environment but also conception, design, processing, and construction in other sectors like industrial automation, automotive, agricultural, textile, nautical. Progem manages prototypes and individual pieces, even at a low production rate, and full-bodied bundles of work with a high production rate.

Progem is involved in several R&d projects related to the Aerospace sector, with the support of the Polytechnic of Turin and some large companies around the World. Furthermore, Progem can provide technological industrial washing machines created to meet the various needs of degreasing and cleaning of mechanical parts present in the field of industrial mechanical production. Its high versatility makes it suitable for both interoperational cleaning and finishing cleaning. The large number of available options allows the machine to be configured to make it more suitable for different production needs.

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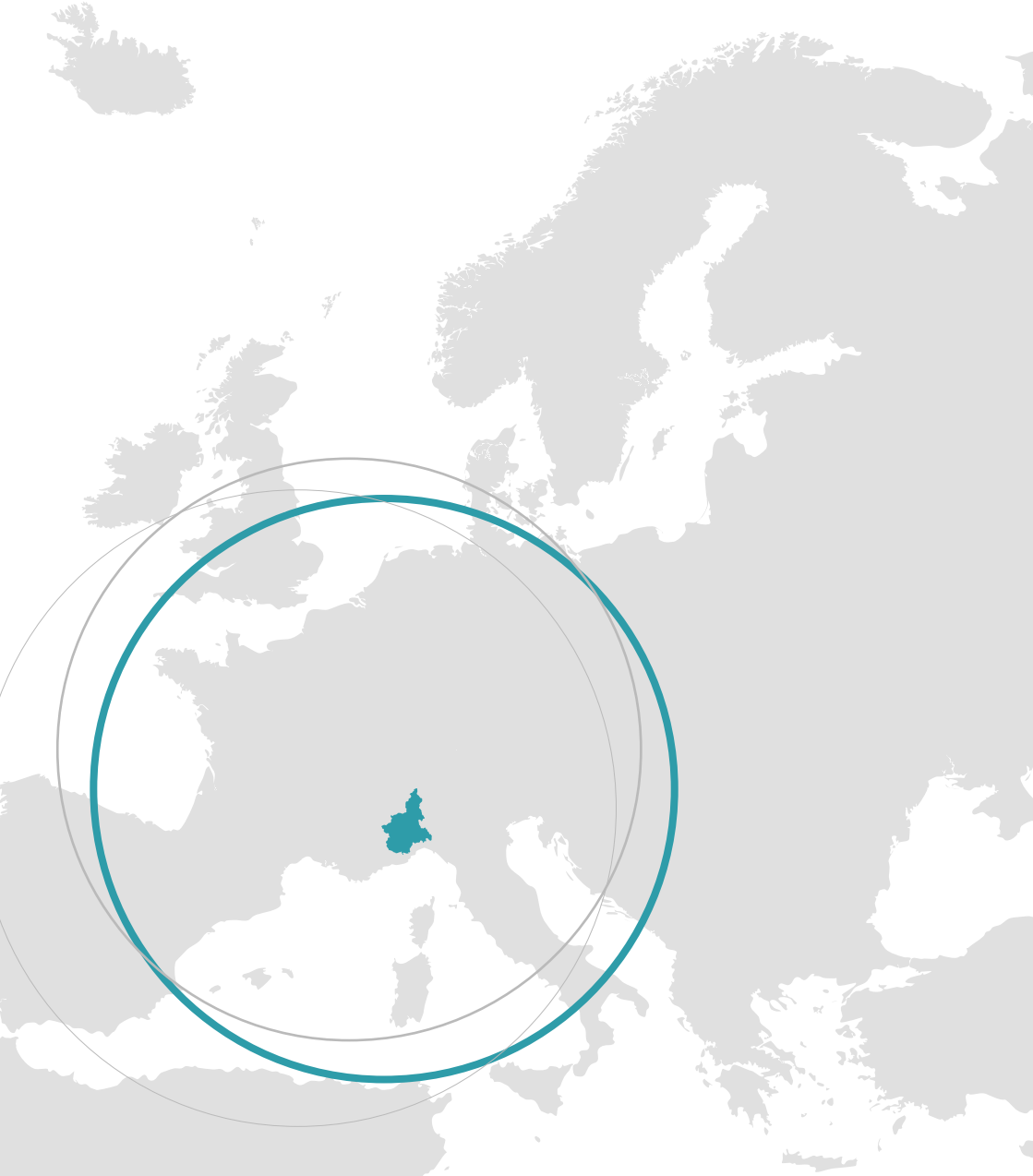
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Connect with Piemonte Additive Manufacturing Companies



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