



Company Profile

WHO IS TEORESİ GROUP?

Teoresi Group is an internationally active engineering company that helps its customers with cutting-edge technologies in the field of project development. Its expertise ranges from solutions for self-driving e-cars to nanotechnology for the medical sector. With its holistic know-how in engineering and machine learning, the company develops intelligence for machines – and “gives them a brain.”

The main services provided are technology design, development and consulting. Teoresi accompanies their customers through all project phases: from analysis and design idea, through conception and prototype development, to the final product and market launch. Special attention is paid to the innovative aspects, using the expertise in artificial intelligence that has been accumulated over the years.

TEORESİ: HISTORY AND VISION

Teoresi was founded in 1987 in Turin as an IT consulting company. In its early years, the company focused on software for scientific computing, model-based design and virtual prototyping. Through collaboration with leading US companies, Teoresi brought innovative technologies to Italy at an early stage and developed extensive application expertise itself.

In 2002, thanks to its pioneer expertise in the field of model-based design for the development, simulation and validation of systems, Teoresi positioned itself as a technology consultancy, initially focusing on the automotive and telecommunications sectors. In 2008, this offer was finally expanded internationally and across other industries; the Teoresi Group was born.

Today, the Teoresi Group has over 950 employees. The HR strategy is a central part of a sustainable expansion approach that, over the past 5 years, has led to a strong growth in the number of employees (+86%), the number of international offices (+78%) and the volume of sales (+118%).

At the beginning of 2023, a step forward step was also taken for the first time on the path of targeted acquisitions. The Group acquired two Milan based companies:

hardware and firmware specialist HiFuture, as well as the provider of web, app and cloud applications, BindingFuture. With these two new group members, Teoresi now has eleven Italian branches in Turin, Milan, Genoa, Bologna, Modena, Florence, Tolentino, Rome and Naples. In addition, Teoresi is also present in five locations in the USA: Detroit, Chicago, Pittsburgh, Cleveland and Austin. In Germany, Teoresi is represented in Munich, Berlin and Stuttgart, and in Switzerland in Lugano.

FROM AUTOMOTIVE TO LIFESCIENCE

Through many years of cooperation with leading international clients from the automotive sector, Teoresi has acquired unique expertise in the technological development of mobility projects. This combines 'traditional' know-how, e.g. on vehicle dynamics and control, with answers to the current challenges with regard to assisted driving.

With its specific expertise, Teoresi is also able to offer plug-and-play solutions for numerous other industries, including: railway, aerospace, urban mobility, smart factories, life science and financial services.

In practice, this results in innovative voice integration or AI solutions. However, Teoresi's work also focuses on technologies specifically tailored to people with disabilities around autonomous driving or nanotechnology applications in the life science environment.

CURRENT R&D ACTIVITIES: TWO EXAMPLES

AUTONOMOUS DRIVING: FROM SIMULATOR TO TURIN'S SMART ROAD

Teoresi Group has initiated an R&D project for assisted or autonomous driving. In the first phase of the project, Teoresi has created a virtual environment in which vehicle dynamics or cooperative control strategies can be realistically emulated. This simulator allows the vehicle to train algorithms in order to then test the resulting capabilities on the "intelligent road" in a realistic traffic environment.

This test has taken place in the second phase of the project. For this purpose, autonomous driving technologies have been installed in the YOYO e-city car from the innovative manufacturer XEV, also based in Turin. On the other hand, the use of the Smart Road, results from a partnership between Teoresi and Torino City Lab, the city's innovation laboratory, which gives companies the opportunity to test innovative solutions in real-life environments.

NANOCAN: THE HOSPITAL IN THE NEEDLE

An impressive example of a fruitful collaboration between academic and industrial research is the Nanocan project. Nanocan has led to the so-called "hospital in a

needle”, a new medical technology that combines oncological diagnosis and therapy in a single device through the use of optical fibers (theranostics in vivo).

As the industrial technology partner, Teoresi provides its technical expertise. At Teoresi, around 30 computer scientists, electrical and biomedical engineers are working on innovative solutions in optics, electronics and laser technology, on the basis of which prototypes of medical devices or electronic components for controlling robots are being developed.