



# COMPANY PROFILE



## About us

Tecne is the engineering heart of the Autostrade per l'Italia Group. It manages and carries out all the engineering activities, from design to work supervision, necessary to enable the infrastructure investments of Autostrade per l'Italia's Industrial Plan.

The Plan provides for more than EUR 21 billion of investments, two thirds of which dedicated to new construction projects and one third to the modernisation of existing assets.

We coordinate the engineering of maintenance, upgrading and modernisation interventions on the approximately 3,000 km of Group managed motorway network, as well as the engineering aspects of strategic Italian infrastructure projects - such as the Genoa Bypass or the Passante in Bologna.

Our aim is to become the most important national infrastructure engineering centre in terms of size, innovation and relevance of activities, prioritising safety and sustainability.



## Sustainability as a Mission

Tecne, already in its brand identity, Sustainable Engineering, sets sustainability as a fundamental value for its activities.

## Our approach to sustainability

### Foresight

Tecne deals not only with sustainable mobility, but also with the concept of sustainability applied to infrastructures themselves. Autostrade per l'Italia's infrastructure assets are deeply rooted and well distributed throughout Italy. We believe in the concept of sustainability as the basis for the integration and development of the territories where our infrastructures originate and prosper.

### Effectiveness & Safety

The infrastructures we build must be effective in performing their function while being safe for workers and for users. Tecne actively participates in the renewal process of HSE (Health, Safety, Environment) launched by Autostrade per l'Italia to raise awareness and train all staff towards adopting safe behaviour schemes, with the aim of achieving the "Zero Accidents" target.

### Measurability

We believe in a sustainability that can be measured and that embraces all the aspects of the construction and management of an infrastructure. We have therefore chosen to certify this, as in the case of the Passante di Bologna, with the Envision protocol.

### Durability & Integration within the territory

Sustainability also means durability, as our infrastructures must be effectively integrated into their surrounding territories and remain efficient throughout their life cycle. We are implementing a programme to assess natural capital and the effective promotion of the territory following the construction of an infrastructure. Tecne is coordinating the Group's Mercury Program for the development of Smart infrastructures that are managed with predictive maintenance systems.

## Integrated engineering services

### We provide integrated engineering services, covering all phases:

- Infrastructure design and feasibility activities.
- Project design: definitive, executive, construction.
- Stakeholder Engagement and Public Involvement.
- Supervision and Construction Management.
- Health & Safety coordination and services.
- Testing and commissioning.

### Our main activities:

- Maintenance and upgrading of existing infrastructures.
- Restoration and modernisation of over 3000 km of motorway network.
- Assessment of the condition of bridges, viaducts and tunnels.
- Supervision and coordination of safety aspects at worksites during infrastructure construction.

## Innovation

Tecne aims to become a technical reference point in the sector by setting up **centres of engineering excellence**, aimed at promoting:

- The development of innovative and integrated **technological solutions**.
- The use of **safe construction methods** with minimal impact on traffic.
- The development of **latest generation road safety systems**.
- The creation of a **smart and green infrastructure supply chain**, the **digitisation of all data** collection and analysis processes from construction sites and works, to promote an engineering that can benefit from the availability of constantly updated information.
- **Scientific research** and collaboration with a wide network of universities and research centres.

## Social commitment and more

Tecne also aims to become a reference point on social issues. Our ongoing effort includes training on gender equality, disability, inclusive language and behaviour, support to parenthood, enhancement of diversity and evolution of corporate culture.

## BIM (Building Information Modeling): development in road engineering

Autostrade per l'Italia is implementing an extensive digitalisation programme at all levels for integrated data management according to a structured and computerised information management process.

This data will allow Tecne to develop its design projects with BIM methodology and to create digital twins of new and existing assets. These will act as servers of asset information and represent a crucial tool for the construction and management of works.

In 2023 Tecne's BIM & Visual Environment team received a number of important awards in the engineering sector that acknowledge not only the methodology applied, but also creativity and insight in the use of digital innovations.

Some of the most important recognitions include:

- SGBIM certification;
- first place at the Italia Tekla BIM Award 2022 in the road infrastructure category;
- third place at the BIM&DIGITAL Award 2022 in the infrastructure category.



## Technical Authorities and Centres of Excellence

The organisation of Tecne's engineering know-how is centred in **Technical Authorities, whose purpose is to monitor the quality and continuous development of engineering disciplines through:**

- in-depth analysis of the Autostrade per l'Italia Group's core engineering issues
  - plans for assessment and improvement of staff know-how and expertise
  - open collaboration with universities and research centres
  - internationalisation and innovation of the state of the art in infrastructure engineering
- The Technical Authorities are also present in the "Centres of Excellence" which are in-house "engineering schools" focused on the analysis and implementation of international best practices.

## Specialist spin-offs

In collaboration with leading engineering partners, Tecne has created specialised start-up projects to foster innovation, creativity and digitisation in the engineering fields at the heart of its activities.



Bridge Designers (TecneSperi srl), an engineering company owned by Tecne and Studio Speri, operating in the field of bridge and viaduct engineering, with a focus on techniques for the modernisation of existing assets and innovative new infrastructures. Bridge Designers is supported by the Group's other companies: Amplia for the construction of works, Movyon for asset management digitalisation, Tecne for sustainability issues, Free to X and Elgea for innovation in mobility and energy performance.



Advanced Tunneling (TecneSWS-Systra srl), born from the collaboration between Tecne, SWS and its parent company Systra, operates in the field of tunneling engineering. It aims to become a national key player for the development of innovative and sustainable technological tunnelling solutions and for the modernisation of existing tunnels.

Tecne can now benefit from the specialist expertise of two new players in the world of engineering.

## Working at Tecne



850+  
people



over **70% of technical staff** including engineers, designers, directors of works, specialists in safety coordination



**5** main engineering hubs (Milan, Rome, Genoa, Florence, Turin)

## Our offices



## The Smart Infrastructures Academy

The Smart Infrastructures Academy, founded in collaboration with the Federico II University of Naples, was established to train engineers working in the design, management and monitoring of motorway and road infrastructures, in order to ensure safety, sustainability and technology, by also combining together advanced concepts of civil and management engineering and smart infrastructures.

## TecNex

Tecne NeXt Generation is the recruitment plan that will increase the company's workforce to over 1,000 engineers, researchers and scientists by 2024.

New colleagues are selected and recruited in collaboration with the most prestigious Italian Universities, with whom Tecne builds and maintains a constant relationship based on technical-scientific collaboration and ongoing training: the Autostrade per l'Italia Group's infrastructure engineers will be trained at Tecne.



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