NET Engineering

Company presentation

NET ENGINEERING

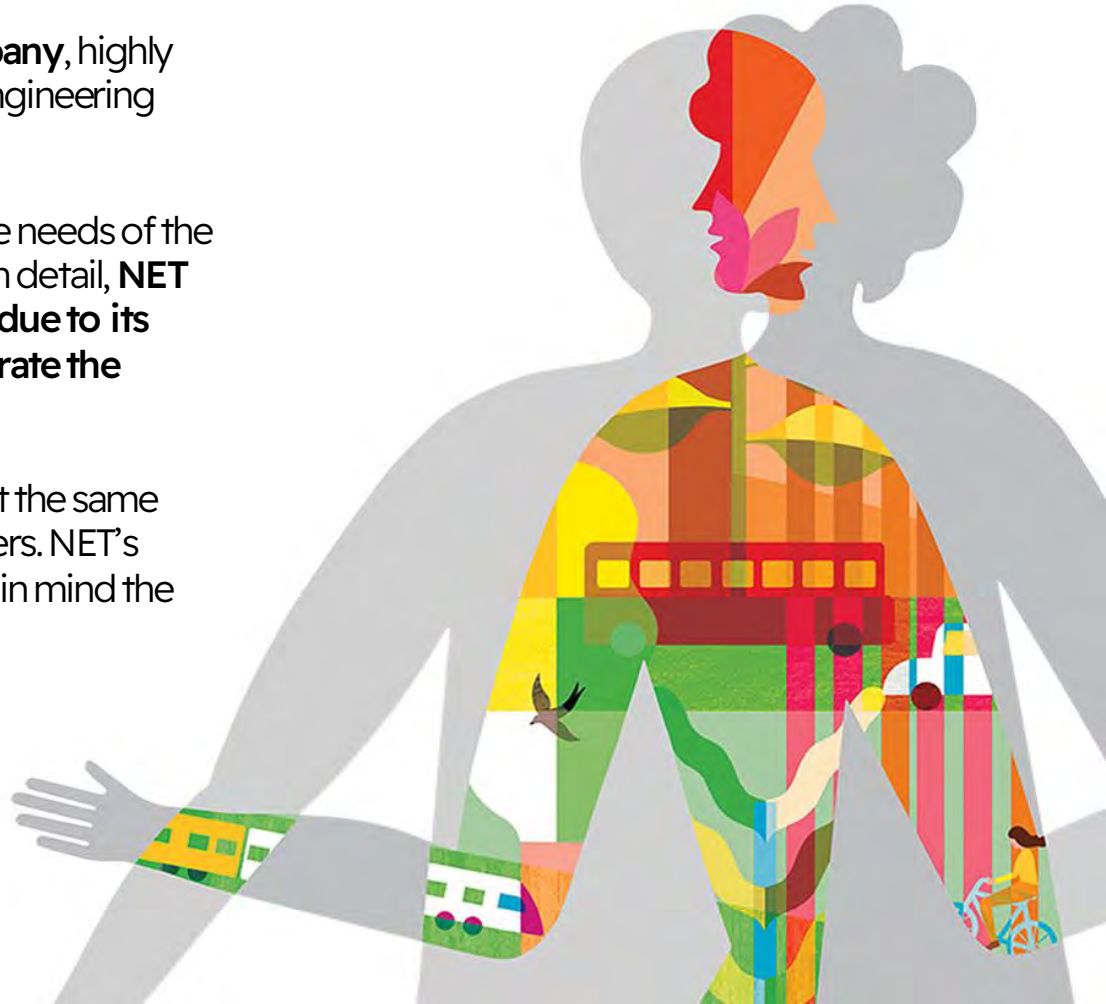
Imagine
Think
Design

Company Profile

NET Engineering is an **independent Italian engineering and architecture company**, highly specialised in the design of transport infrastructure, urban redevelopment and engineering design serving the industrial sector.

As a result of 50 years of experience, NET interprets the context, pre-empting the needs of the market and clients, working with them and indicating the best design solutions. In detail, **NET stands out in the Italian panorama for its ability to manage complex projects due to its high-level specialist skills, the ability to present them in discussions and integrate the contributions**.

NET applies a creative, innovative approach aimed at finding futuristic answers, at the same time ensuring quality of project design and display to the benefit of all stakeholders. NET's mission is System Engineering and responsible planning and design which bears in mind the whole life-cycle of the works.



our manifest

NETE

Purpose

We leave future generations a better territory
than the one we have inherited.

Identity

We are engineering artists, because we want each project to be a work of art. We are greatly knowledgeable of the different skillsets needed to analyse all of our projects as a whole: from defining the problems to be solved to implementing each project task, without losing sight of our overarching vision that allows us to make each project unique and effective.
We describe our projects with great care, picking a communication style that enhances the unique project features and that effectively addresses each stakeholder. We describe our projects with great care, picking a communication style that enhances the unique project features and that effectively addresses each stakeholder.

Vision

We want to be among the first independent Italian engineering and architecture companies with the ability to read our ever-changing world in order to create excellent projects together with our client.

Mission

We design mobility, urban renewal and industry solutions pioneering impeccable engineering practices in the spirit of excellence. We protect what the future generations will inherit by designing smart, shared, sustainable infrastructure.

Facts and figures

staff

141
FTE
06.2023

150
FTE
Forecast
2023

turnover

13.3
M€
06.2023

> 20
M€
Forecast
2023

location

4
OFFICES
Italy

certification

6
UNI EN ISO
9001
14001
45001
UNI 11337
UNI ISO 30415
UNI/PdR 125

Core competencies:
coordination and communication

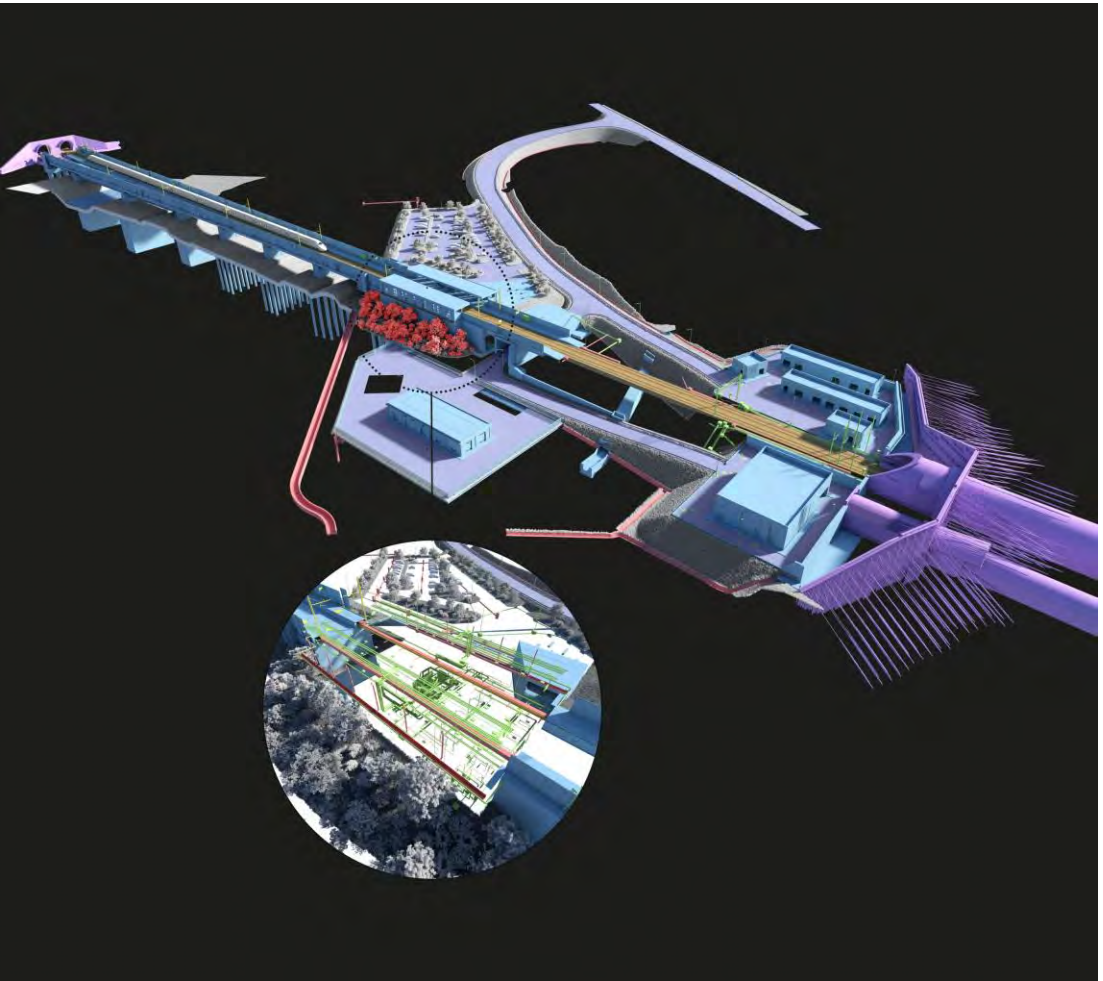
Tendering

Complex projects

BIM

Visual Design

Core competencies:
coordination and communication



Tendering

360° experience in the world of transport infrastructure

Accurate analysis and interpretation of the basic tender project

Understanding of business needs

Integration among different disciplines

Working under pressure and being able to identify quickly the best possible solutions

Core competencies:
coordination and communication

Complex projects

Work organisation: identification of working methods, division of tasks, setting priorities and deadlines

Direct interface with the client, collection and interpretation of requirements

Keeping track of project progress

Core competencies:
coordination and communication

BIM

Creation and organisation of the shared working environment

Definition of technical documentation (OGI, PGI, BEP, etc.) necessary for the development of a BIM project

Implementation of the digital model from the tender phase to the work realisation

Core competencies:
coordination and communication

Visual design

Accurate interpretation of project material, rapid and high-quality processing of visual design product

Communication skills that are clear and effective towards different stakeholders

Services

Dismantling and reconversion

Mobility planning: urban renewal, intermodal hubs and transport terminals

Technical and environmental due diligence

Identification and assistance to the survey plans

Design the dismantling / reconversion of buildings and industrial sites

Operation and maintenance

Environmental impacts consultancies

Yards' impact assessment on traffic and railway operation

Works of art assessment: seismic, static and safety assessment

Planning of consolidation interventions and structural rehabilitation

Optimization studies for the railway operation and TPL (Local Public Transport)

Construction

Construction supervision and safety coordination

Technical supervision of construction works

Construction site planning

Timetable and work progress monitoring

Specialist advice for construction site

Project communication

Programming

Project review

Program management

Market analysis on transport demand

Support for tenders drafting

Clients assistance for defining the interventions priority

Planning

Analysis of alternatives and cost-benefit analysis

Support for the definition of exercise models

Coordination and specialised support to companies during tendering

Urban, regional, wider areas mobility plans

Planning and scheduling of TPL services

Support for the selection and characterization of sites for industrial settlements and for energy production

Risk analysis for industrial sites

Soil safeguard and protection and natural disaster reduction studies

Consultancy for the management of natural resources

BIM Management

Design

Support during permitting processes

Technical-specialistic support for stakeholder engagement

Identification and assistance to the survey plans

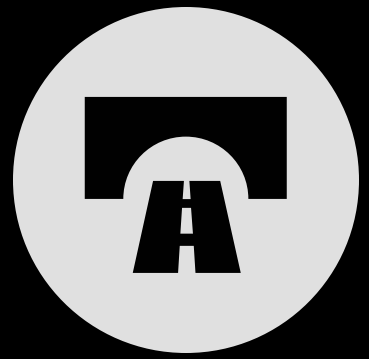
Execution and returning of traditional and 3D surveys

Technical-economic, final /detailed and construction feasibility design

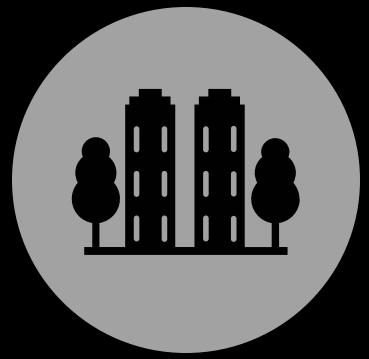
Environmental, hydraulic, geological, geotechnical, plant engineering and structural specialistic studies

Project management

Business areas



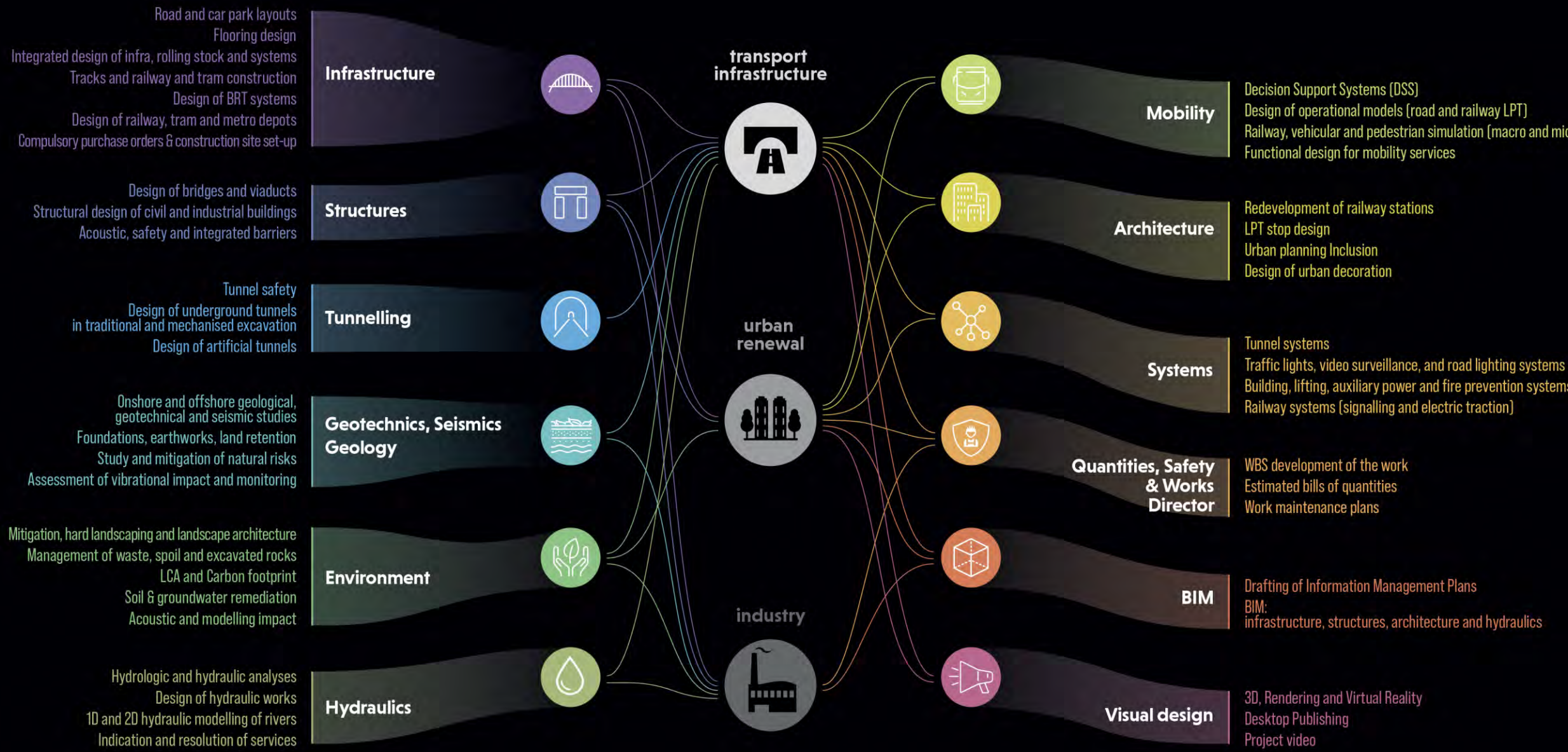
Transport infrastructure



Urban renewal

Industry

Disciplines and technical competences



Transport infrastructure | Roads

what

Major road links and complex routes

Individual and local interventions

Diagnosis and maintenance

main clients

Italian National Roads Authority

Concessionaires for the construction and operation of Italian motorways

Regional roads companies

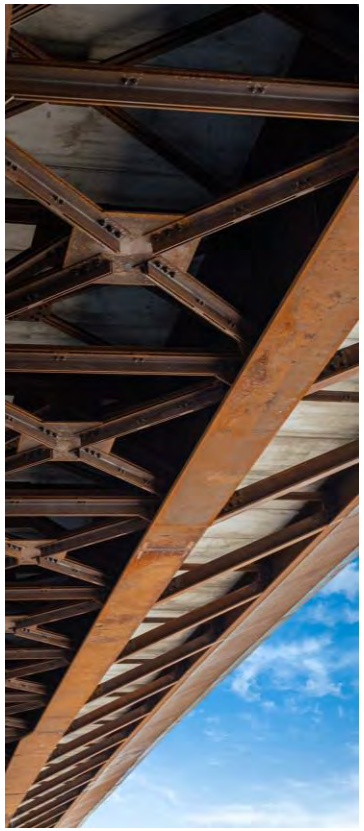
Public Administrations throughout Italy

Large infrastructure engineering companies

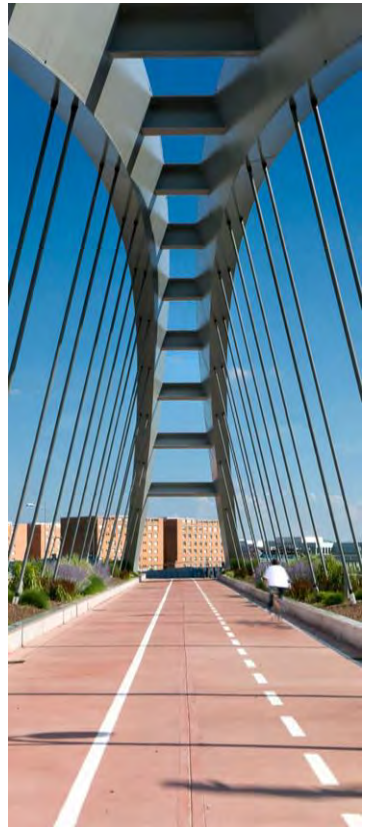
Italian Society for the Frejus Motorway Tunnel

World Bank

Roads | Main projects





Roads
Main projects

The Baku-Shamakhi road connection

Client: World Bank and International Development Association

What: Selection of alternative routes and Feasibility Study for Shamakhi - Agsu Section of Baku - Shamakhi Road along the corridor that connects the Caspian Sea to Georgia

Construction costs: 162 M euro

Roads
Main projects

The third lane of the Venice-Trieste motorway

Client: Autovie Venete SpA (Regional roads company)

What: Detailed design and environmental impact study: reconfiguration of junctions, variants, new roads and infrastructures, structures adaptation, improvement of the flow conditions of waterways, study of environmental and landscape integration

Construction costs: 682 M euro

Roads
Main projects

Sustainable evolution of the A4 highway between Brescia and Venice

Client: Autostrada Brescia Verona Vicenza Padova SpA (roads company)

What: Preparatory studies for the preliminary design of the widening of the highway roadway to 4 lanes (Viability, Structures, and Hydraulics): highway widening from 3 to 4 lanes for a total length of 156 km, reconfiguration of interchanges, variants, new roadways and artworks, adaptation of interfering roadways and existing infrastructure, improvement of hydraulic safety of the highway, summary cost estimate of the intervention.

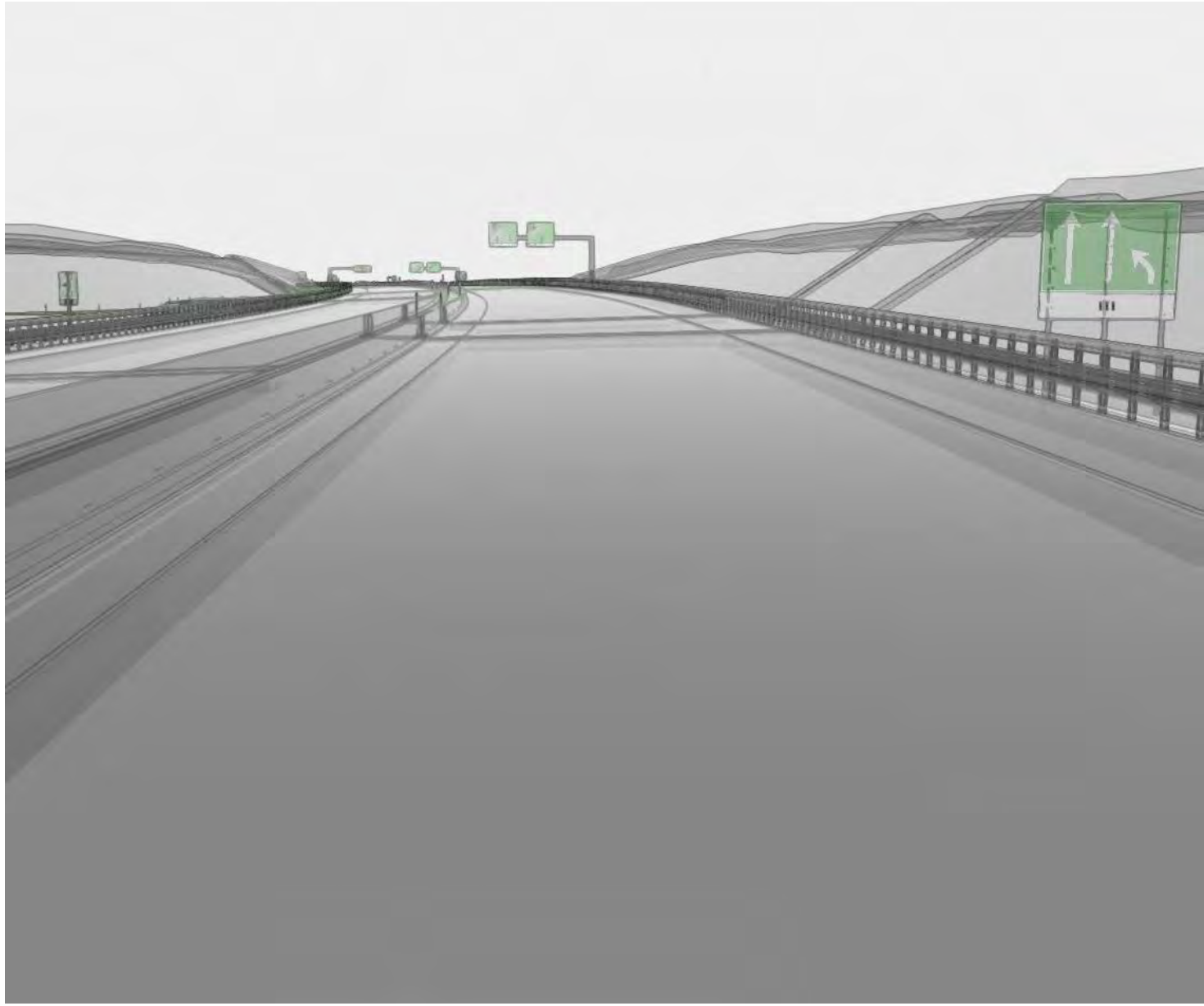
Construction costs: 3.600 M euro

Roads
Main projects

Pedemontana Lombarda Highway - Variant Section D

Client: Pedemontana Lombarda Highway (roads company)

What: As part of the development of the Final Project, NET Engineering was responsible for BIM modelling of the highway, junctions, minor roads, safety barriers and vertical signage.



Roads
Main projects

The Italian section of the Fréjus Tunnel

Client: Italian Society for the Frejus Motorway Tunnel

What: Construction design and Assistance during construction phase: drafting of technical reports on geology and geotechnics, structures, hydraulics, roads, environment, construction site, safety

Construction costs: 139 M euro

Roads
Main projects

Access roads to the macro-island - first industrial area of Porto Marghera (Venice)

Client: Venice Municipality

What: Detailed and construction design, Safety coordination during design phase (CSP), Safety coordination during construction phase (CSE) and construction works supervision. In particular: road design, structures, environment, construction sites, computation

Construction costs: 15 M euro

Roads
Main projects

Investigation and replacement of safety and integrated barriers

Client: Concessionaires for the construction and operation of Italian motorways

What: Survey services, detailed and construction design, Safety coordination during design phase (CSP), Technical Assistance during construction phase.

Construction costs: 160 M euro

Roads
Main projects

Vulnerability assessment and bridges maintenance

Client: Concessionaires for the construction and operation of Italian motorways

What: Evaluation of as-built basic data, survey plans assessment, seismic vulnerability assessment, structures check for static and exceptional loads, design and assessment of reinforcements.

Construction costs: 1.15 M euro

Roads
Main projects

Darwin bridge (PADUA)

Client: Padua Municipality

What: Transport study, Environmental pre-feasibility study, preliminary, detailed and construction design, construction works supervision, Safety coordination during design phase (CSP) and during construction phase (CSE)

Construction costs: 45 M euro

Roads
Main projects

Adriatic Bridge (BARI)

Client: Bari Municipality

What: Preliminary, detailed and construction design, Safety coordination during design phase (CSP) and during construction phase (CSE), construction works supervision

Construction costs: 27 M euro

Roads
Main projects

Leonardo Bridge (AREZZO)

Client: Province of Arezzo

What: Preliminary, detailed and construction design, Environmental Impact Study, Safety coordination during design phase (CSP) and during construction phase (CSE), construction works supervision.

Construction costs: 44 M euro

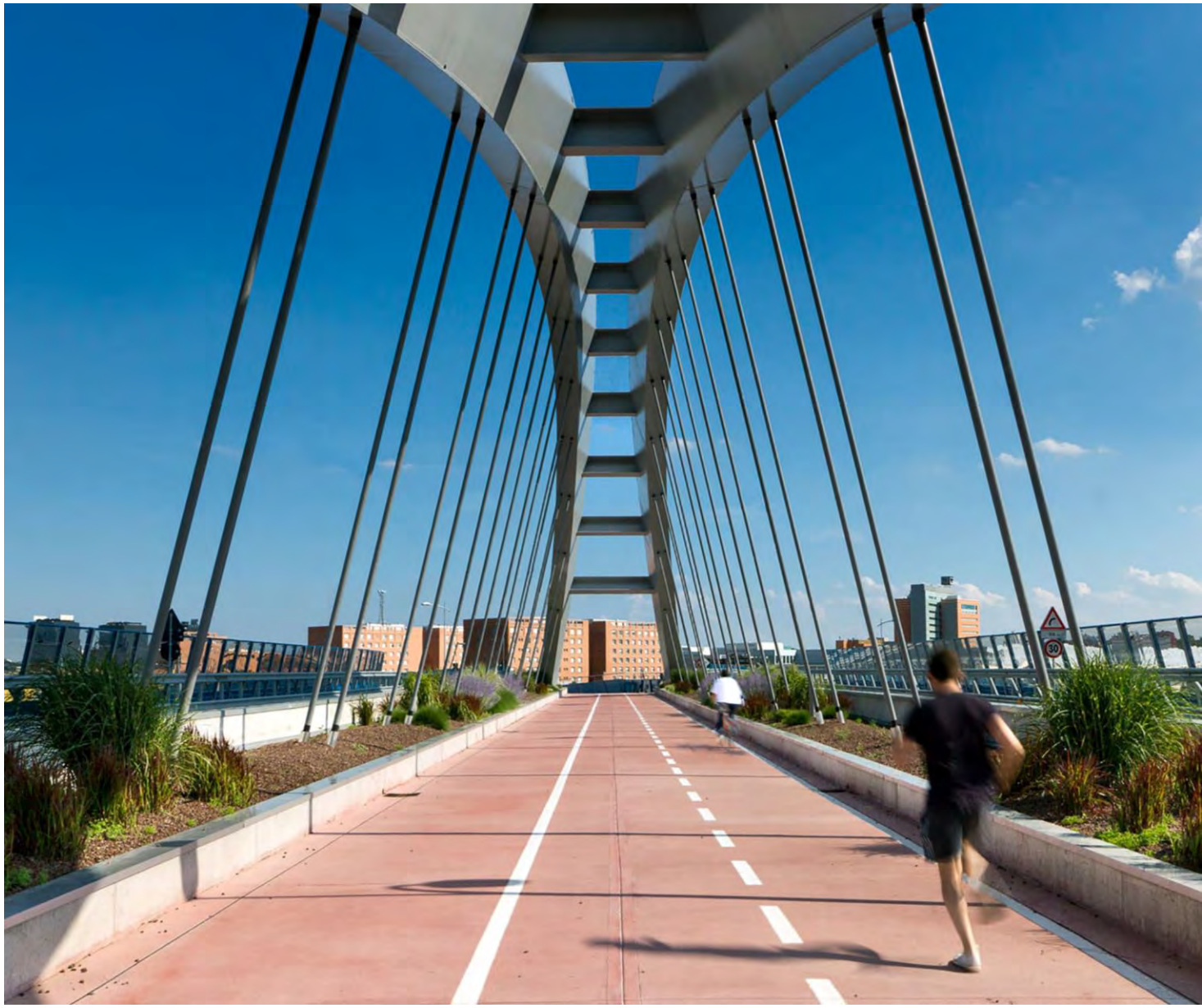
Roads
Main projects

«Unità d'Italia» Bridge (PADUA)

Client: Padua Municipality

What: Detailed and construction design, Safety coordination during design phase (CSP)

Construction costs: 15 M euro



Roads
Main projects

Bridge over Ticino river at Oleggio (NOVARA)

Client: Province of Novara

What: Preliminary, detailed and construction design, Environmental Impact Assessment, Safety coordination during design phase (CSP) and during construction phase (CSE), construction works supervision, detailed hydraulic study

Construction costs: 17.5 M euro

Roads
Main projects

New Becca Bridge (PAVIA)

Client: Infrastrutture Lombarde S.p.A. (now incorporated by ARIA S.p.A.)

What: Feasibility Project: definition and comparison of alternatives, design study of the chosen solution

Construction costs: 79 M euro

Transport Infrastructures | Mobility

what

Set up of Decision Support System (DSS) tools and mobility analysis

Planning of Local Public Transport

Bus Rapid Transit and tramways - Technical and economic feasibility projects

Analysis and market studies for rail passenger and freight transport

main clients

Authorities for Mobility

Deutsche Bahn

Municipalities and Metropolitan Authorities

Italian private rail operator

Public authority for Italian railways network

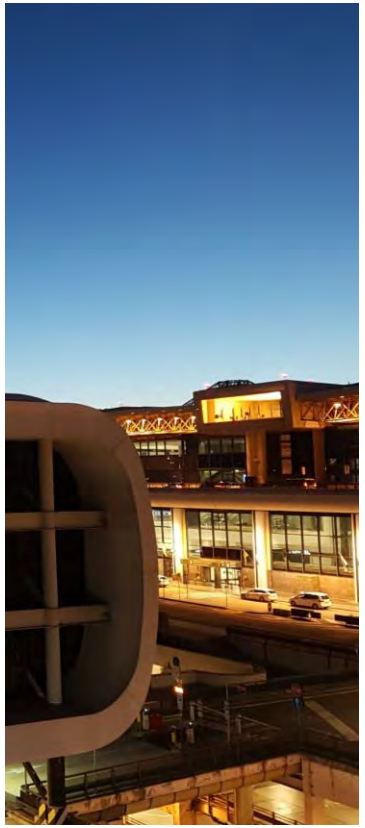
Construction Companies

Vietnam Railways Authority

Ghana Road Authority

World Bank

Mobility | Main projects



Mobility
Main projects

Malpensa Airport accessibility: wide area analysis

Client: SEA SpA

What: Traffic study in support of the EIA related to the Malpensa 2035 masterplan and assessment of the impact of planned interventions on the road network for the accessibility of Milano Malpensa airport in comparison to the other competitive airports

Mobility
Main projects

Linate Airport: system study and pre-feasibility for the new Smart Mobility Hub

Client: SEA SpA

What: Integrated study on a large and local scale for increasing the accessibility of the airport, feasibility study of the new land-side layout and of the smart mobility hub, integrated study of the wayfinding system

Mobility
Main projects

N-Hydrogen refueling facilities for fuel cell buses

Client: TPER SpA

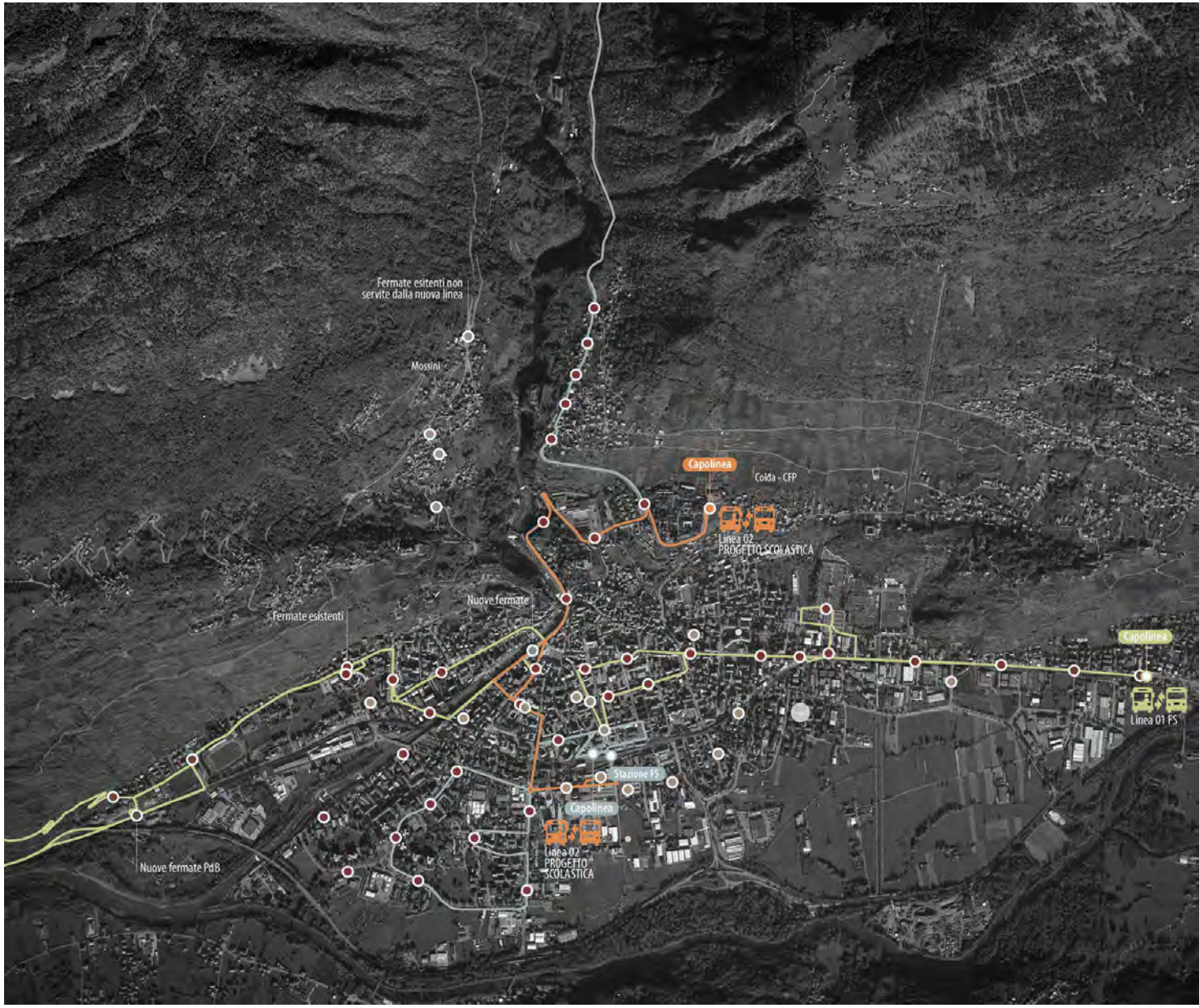
What: Reconstruction of the exigency framework, drafting of the DOCFAP and the asseveration report of compliance with the DNSH principle, preparation of the documentation for the Feasibility Nulla Osta to the Fire Department regarding the infrastructural interventions functional to the conversion to hydrogen of a part of the TPER vehicle fleet in the municipalities of Bologna and Ferrara. Drafting of the Technical and Economic Feasibility Project of the infrastructural interventions (general design and civil works).

Mobility
Main projects

Redefinition of the urban public transport network of Sondrio

Client: Agency for the Local Public Transport of Sondrio and Sondrio Municipality

What: Drafting of the Operational Programme of the new urban public transport network of Sondrio, based on regular routes, hourly cadencing, rendez-vous with rail services and new connections with the hamlets



Mobility
Main projects

Modena Local Public Transport: new network layout

Client: aMo - Modena Local Public Transport and Mobility Agency

What: project of the new load-bearing network, Local Public Transport Basin Plan, feasibility study of the transformation of the Modena-Sassuolo line and urban renewal project within the Modena railway station, with reorganization of the intermodal hub and preliminary analysis of the real estate revaluation

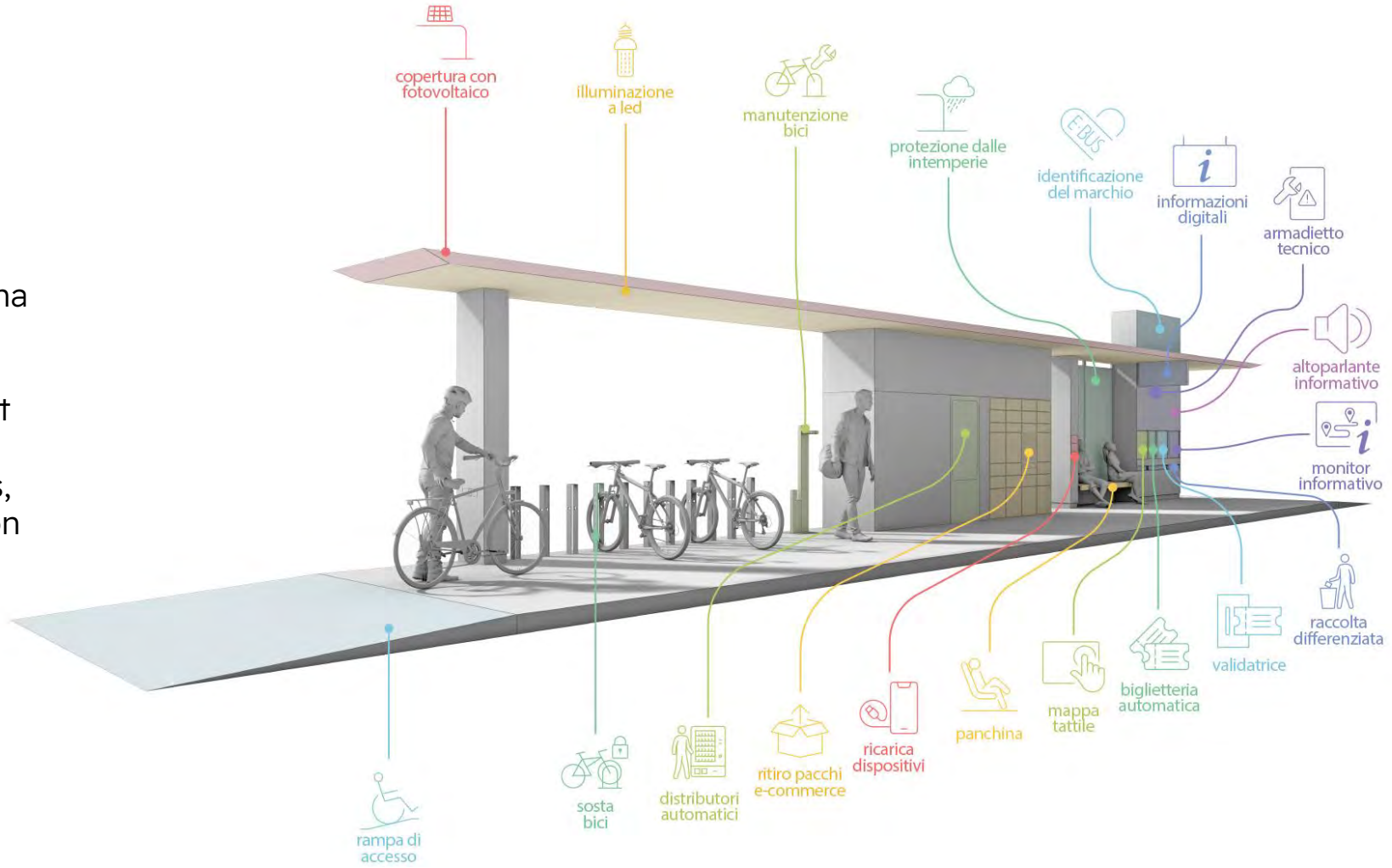
Mobility
Main projects

Bus Rapid Transit (BRT) Bologna

Client: Metropolitan Authority of Bologna

What: Technical-Economic Feasibility Project: study of the territorial, transport and urban planning framework, identification of transport service needs, analysis of project alternatives, definition of the operating model, public engagement and communication of the project.

Construction costs: 64.2 M euro



Mobility
Main projects

Bus Rapid Transit (BRT) Florence

Client: Metropolitan Authority of Florence

What: Technical-Economic Feasibility Project: study of the territorial, transport and urban context, identification of transport service needs, analysis of possible project alternatives, design of the best solution, definition of the operating model, project sustainability analysis, E-bus experimentation and consumption analysis, project communication.

Construction costs: 92.6 M euro

Mobility
Main projects

Bus Rapid Transit (BRT) Perugia

Client: Municipality of Perugia

What: Final and Executive Design of the first electric BRT under Design & Build Procurement in Italy. The BRT will use large-capacity, 100% electric, zero-emission vehicles with a fully lowered floor and a layout with fully equipped and comfortable stops, where infrastructural interventions to protect the seat and traffic control and regulation systems for the traffic light priority of the bus over private traffic are planned.

Construction costs: 62.2 M euro

Mobility
Main projects

Tram of Rome

Client: Rome Services for Mobility

What: Technical and economic feasibility project for the «Stazione Tiburtina-P. Mammolo and Auditorium-V.le Angelico» tram lines. Technical coordination of the Working Group, environmental sustainability analysis, stakeholder engagement

Construction costs: 112 M euro

Mobility
Main projects

Padua Metrobus and Mestre Tram

Client: Consortium Mantegna (Padua Metrobus) and ACTV SpA (Mestre Tram)

What: Preliminary, detailed and construction design, Support for Construction Supervision, Transport Studies (analysis of the transport demand, Evaluation of the operating model, Optimization of road traffic), Evaluation of environmental impact

Construction costs: 104 M euro

Mobility
Main projects

Bolzano Tram

Client: South Tyrol Transport Structures Company

What: Technical-economic feasibility project for the construction of the new Ponte D'Adige-Hospital-Railway Station tramline. Estimated travel demand, traffic light coordination project, comparison with busvia alternative, project video

Construction costs: 192 M euro

Mobility
Main projects

Passengers' demand forecast study

Client: NTV SpA - Italian private rail operator

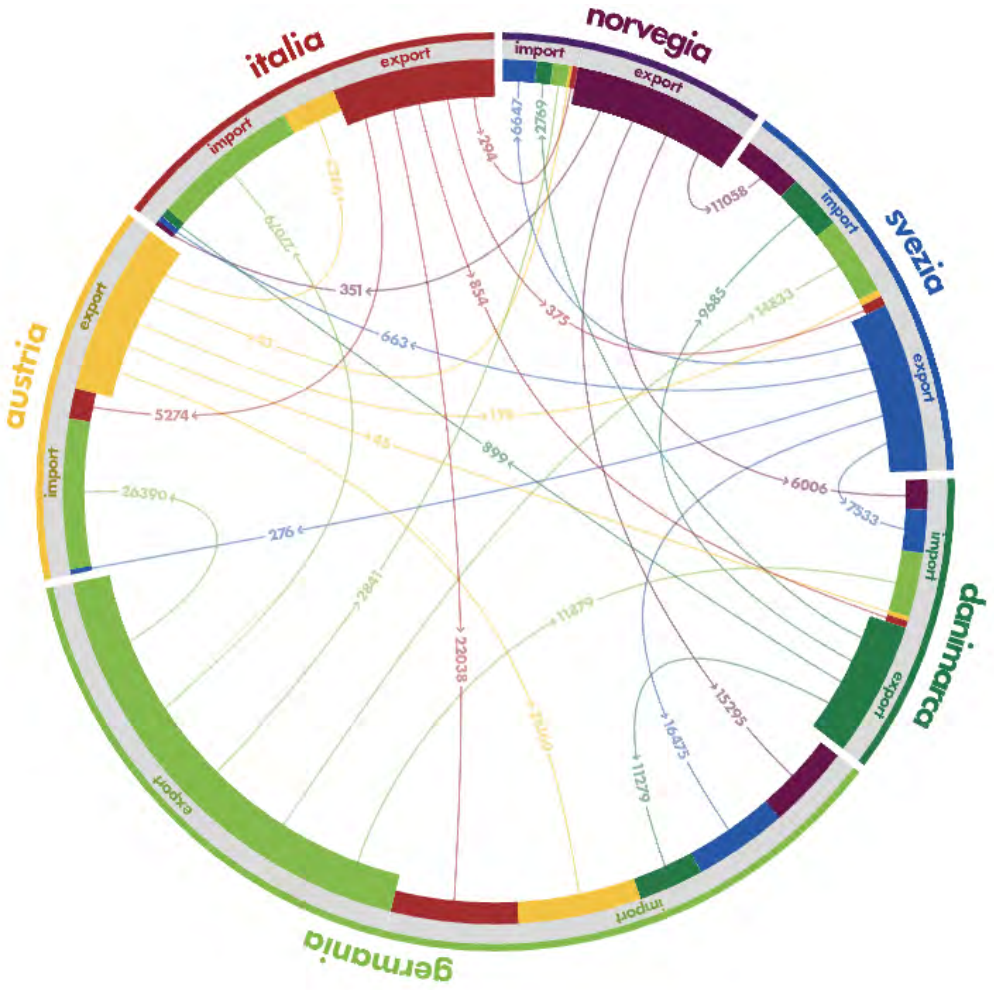
What: Forecast of passengers' demand for NTV S.p.A.'s high-speed railways service and creation of a DSS (Decision Support System) to support the marketing strategy in terms of offered services, tariff structure and service level

Mobility
Main projects

ScanMed - Transport Market Study (TMS)

Client: Consortium of European infrastructure management

What: Market study for the development of the North-South European commercial railway corridor. The TMS is a tool allowing to analyze the stakeholders' demand needs in the involved countries, identify technical, economic, social and transport policy criticalities, verify system performance and estimate new ones in relation to the reference time horizons.



Mobility
Main projects

Modernization of the Railway Network of Vietnam

Cliente: Vietnam Railways Authority

What: Technical-economic feasibility study to achieve the medium-term objectives determined by the Vietnamese government on the upgrading of the existing railway network, with particular reference to the increase of the commercial speed of passenger and freight trains, with a view to transport efficiency and safety

Mobility
Main projects

Prioritization of interventions to improve freight transit in Ghana

Cliente: Ghana Road Authority

What: Consulting on prioritizing interventions related to the project to upgrade the road corridor linking the Port of Tema to Burkina Faso. This is a strategic project for Ghana that, by introducing major improvements in both infrastructure and customs procedures and regulations planned along its eastern corridor, can further enhance the competitiveness of the Port located near the Capital.

Mobility
Main projects

Strategic study for the development of the road network in Armenia

Cliente: World Bank

What: As part of the Lifeline Road Network Improvement Project, NET Engineering - starting with GIS and Multicriteria analysis - drafted a strategic study and developed a tool to support the local Ministry of Transport and the World Bank in prioritizing interventions on rural roads, relative to the latest additional program funding, with reference to the 2022 - 2026 time horizon

Transport Infrastructure| Railways

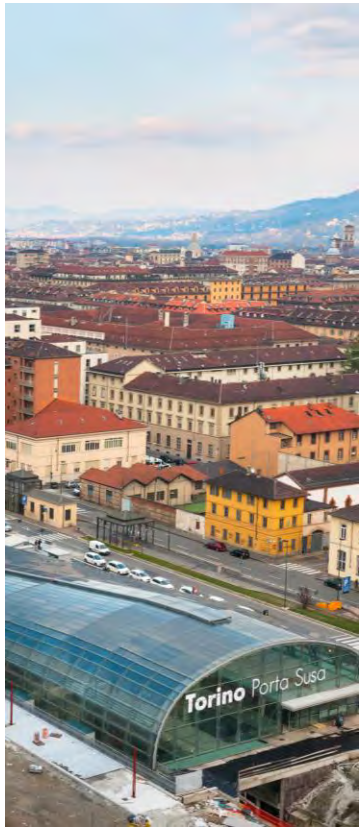
what

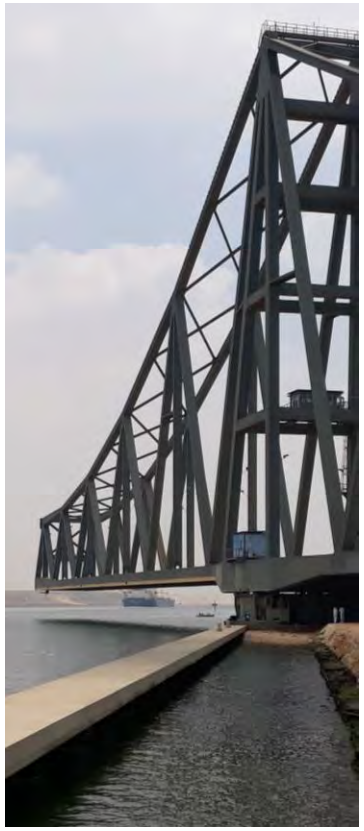
- High Speed Lines
- Conventional Lines
- Stations and depots

main clients

- European Investment Bank
- Regional and concession railways
- Ukrainian Railways
- Italian consortium for high-speed lines construction
- National Railway Infrastructure Company (Bulgaria)
- Railway operators
- African Development Bank

Railways | Main projects





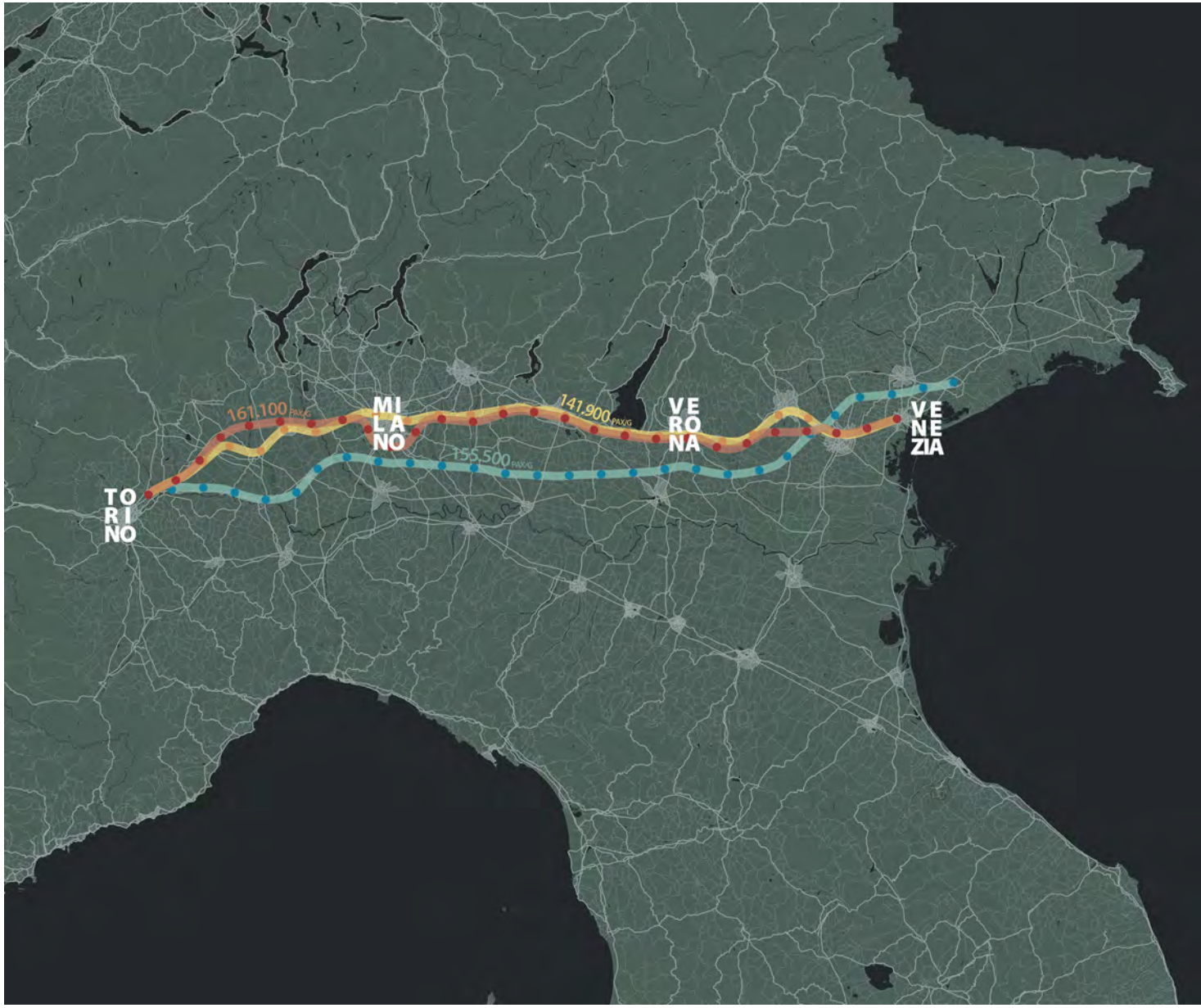
Railways
Main projects

Turin-Venice High Speed Line

Client: Italferr SpA

What: Technical-economic feasibility study of the whole line, (400 km). The study provided elements for the choice of the physical and functional components, performing the cost-benefit analysis, the design and environmental implications of 3 layout and operating hypotheses.

Construction costs: 5.000 M euro



Railways
Main projects

Naples-Bari High Speed Line

Client: RFI SpA - National railway infrastructure company

What: Construction design developed by B.I.M. of the Apice-Hirpinia, Hirpinia-Orsara and Orsara-Bovino sections for an extension of 57 km. In addition to the construction of the new double track line, the project includes 5 tunnels, among which the 27 km long Hirpinia Gallery and new viaducts and stations.

Construction costs: 2.000 M euro

Railways
Main projects

Verona-Vicenza High Speed Line

Client: Italian consortium for high-speed lines construction

What: As part of the construction design of the HS / HC Verona-Vicenza line, NET Engineering carried out the geotechnical, geological, hydrogeological and seismic studies relating to both the general framework and the line sections and carried out the hydrological and hydraulic studies of the water courses interfering with the HS line.

Railways
Main projects

Veneto Regional Metropolitan Railway System

Client: Veneto Region

What: Feasibility study, transport demand analysis, definition of the operational model of rail and road transport, elaboration of timetables, definition of the frequency of service, checks with Opentrack software, environmental impact studies, topographic, geological and environmental surveys, preliminary, detailed and constuction designs, construction works supervision, Safety Coordination (design and construction phase).

Construction costs: 5.900 M euro

Railways
Main projects

Turin railway link

Client: RFI SpA - National railway infrastructure company

What: Detailed design and construction project. The project provided for the upgrading of the railway junction by adding two-line tracks and new stops, and the burial of the urban railway line. The works have been designed keeping the railway traffic unchanged

Construction costs: 545 M euro

Railways
Main projects

Railway variant of the Riga Valley

Client: South Tyrol Transport Structures Company

What: Feasibility study and preliminary design for the construction of the direct southbound connection of the “Val Pusteria” railway including the adaptation of the Municipal Master Plan (PRG) and related structures in the “Bressanone” station. The project also includes the rehabilitation of the interfered roads, the safeguarding of the hydrographic network, the resolution of incompatibilities of network services, the construction site.

Construction costs: 92.5 M euro

Railways
Main projects

Trento railway bypass

Client: RFI SpA - National railway infrastructure company

What: Final and Executive Design of the Trento Railway Bypass. The project consists in a 13 km of new railway line, almost exclusively underground and aims to enhance the southern access to the Brenner Base Tunnel, contributing significantly to the efficiency of international freight transport. NET Engineering was involved in the development of environmental issue, including Envision self-assessment, and the hydraulic design of land and platform.

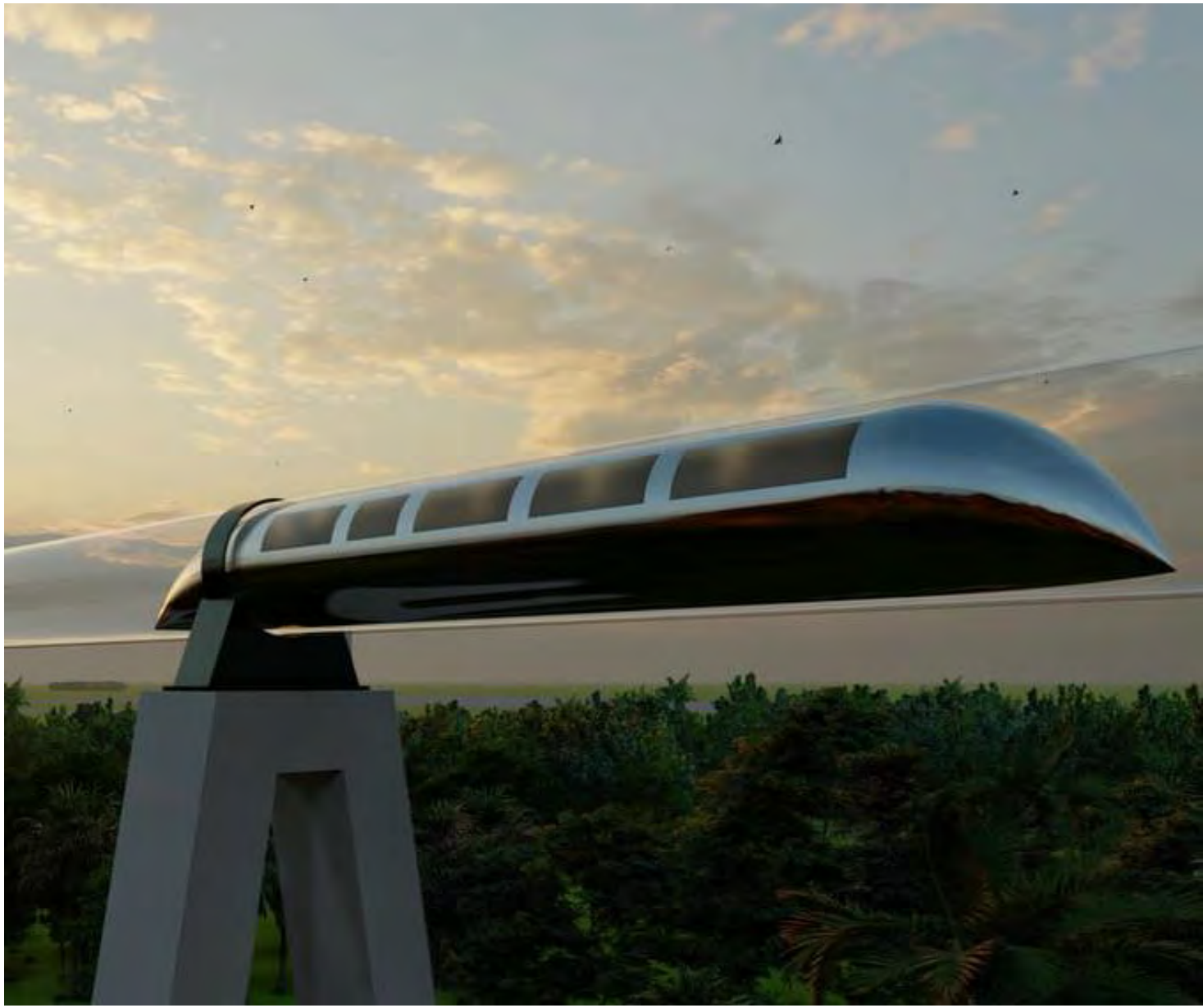
Construction costs: 960 M euro

Railways
Main projects

Hyper-transfer

Client: CAV SpA (Regional roads company)

What: Support in the preparation of tender documents for the identification - as part of a research and development project - of an operator who will verify the technical and economic feasibility of a new ultrafast freight and passenger transport system and design, implement and test a prototype.
NET contributed to the definition of the contents of the technical bid to be produced by the tenderer and the technical contents of the following stages, from design to implementation and testing of the prototype. Further analysis was conducted regarding the implementation milestones and their criticalities.



Railways
Main projects

Upgrading of the railway link for El Ferdan Bridge (Suez Canal)

Client: Chengdu Design and Research Institute of Building Materials Industry Co. Ltd

What: Detailed design of the track bundles, armament, excavations, burying, geotechnical interventions, assistance during the construction phase on the longest swing bridge in the world.

Construction costs: 140.000 euro

Railways
Main projects

Railways of the Balkan area

Client: National Railway Infrastructure Company

What: Preliminary and detailed designs, transport studies, project management consultancy and technical assistance for the construction of a competitive and efficient railway infrastructure to meet the challenges of the EU.

Construction costs: 1.500 M euro

Railways
Main projects

Strengthening of the Kovel-Yahodyn railway line (Ukraine)

Client: European Investment Bank and Ukrainian railways

What: Technical - economic feasibility project for the rehabilitation and enhancement of the railway section which, starting from the border with Poland, reaches the city of Kovel for a total length of approximately 65km. As it is a double track line, one with a European standard gauge and the other with a Russian gauge, NET Engineering also developed the design of systems for changing the gauge.

Urban renewal

what

Architectural design of new buildings

Upgrading of existing buildings

Design of new intermodal hubs and transport terminals

Mobility planning and design

Environmental engineering and sustainability

main clients

Public authority for Italian railways network

Company in charge for the managing of main Italian stations

Real Estate Companies

South Tyrol Transport Structures Company

Urban renewal | Main projects

Urban renewal
Main projects

Network of mobility services of Scalo Farini (Milan)

Client: FS Sistemi Urbani e COIMA SpA

What: Design of the mobility system and services within the area and of the internal and external accessibility. The design involved public and private mobility and cycle-pedestrian mobility.

Urban renewal
Main projects

Mobility system of Scalo Lambrate (Milan)

Client: Castello Sgr for Cities Climate Leadership Group (C40)

What: Design of the mobility system and services within the area with particular regard to the adoption of strategies and measures that generate a reduction in emissions: study / orientation / generation of demand for mobility, planning of infrastructure and mobility services

Urban renewal
Main projects

Mobility project of the Termini Node and “Piazza dei 500” (Rome)

Client: Rome Municipality, RFI , Grandi Stazioni Rail, FS Urban Systems

What: Mobility design: analysis and interpretation of the mobility demand , design of new transport infrastructures, redesign of the bus terminal, of traffic patterns and geometry of road sections, integration with the new mobility systems envisaged by the Urban Sustainable Mobility Plan.

Urban renewal
Main projects

Upgrading of railway stations

Client: Public authority for Italian railways network

What: Preliminary, detailed and construction design of the architectural, structural and systems modernization of dozens of stations throughout the country. In particular, the following activities were carried out: transport studies, architectural design, plant engineering, structures, safety and construction sites, computation and drafting of technical-economic analysis.

Urban renewal
Main projects

Bergamo Railway Hub

Client: RFI SpA - Public authority for Italian railways network

What: Development of the Technical-Economic Feasibility Project and Final Design of the Bergamo Railway Hub. NET Engineering was in charge of the coordination among the different disciplines and of the design, with particular attention to the architectural, systems, and structural part development. The project was BIM Oriented and was able to meet challenging delivery schedules, responding from the structural design point of view to the design requirements dictated by Studio Zucchi CZA's collaboration on the architectural project.

Urban renewal
Main projects

Mestre Railway Hub

Client: RFI SpA - Public authority for Italian railways network

What: Development of the Final Design of Mestre Railway Hub. NET Engineering developed the design, as well as the interaction and the integration of different disciplines. NET supported the client in interfacing with public and private stakeholders to obtain opinions regarding future developments.

Urban renewal
Main projects

Bovisa Railway Station - Milan

Client: NordIng – Ferrovie Nord (North Railways)

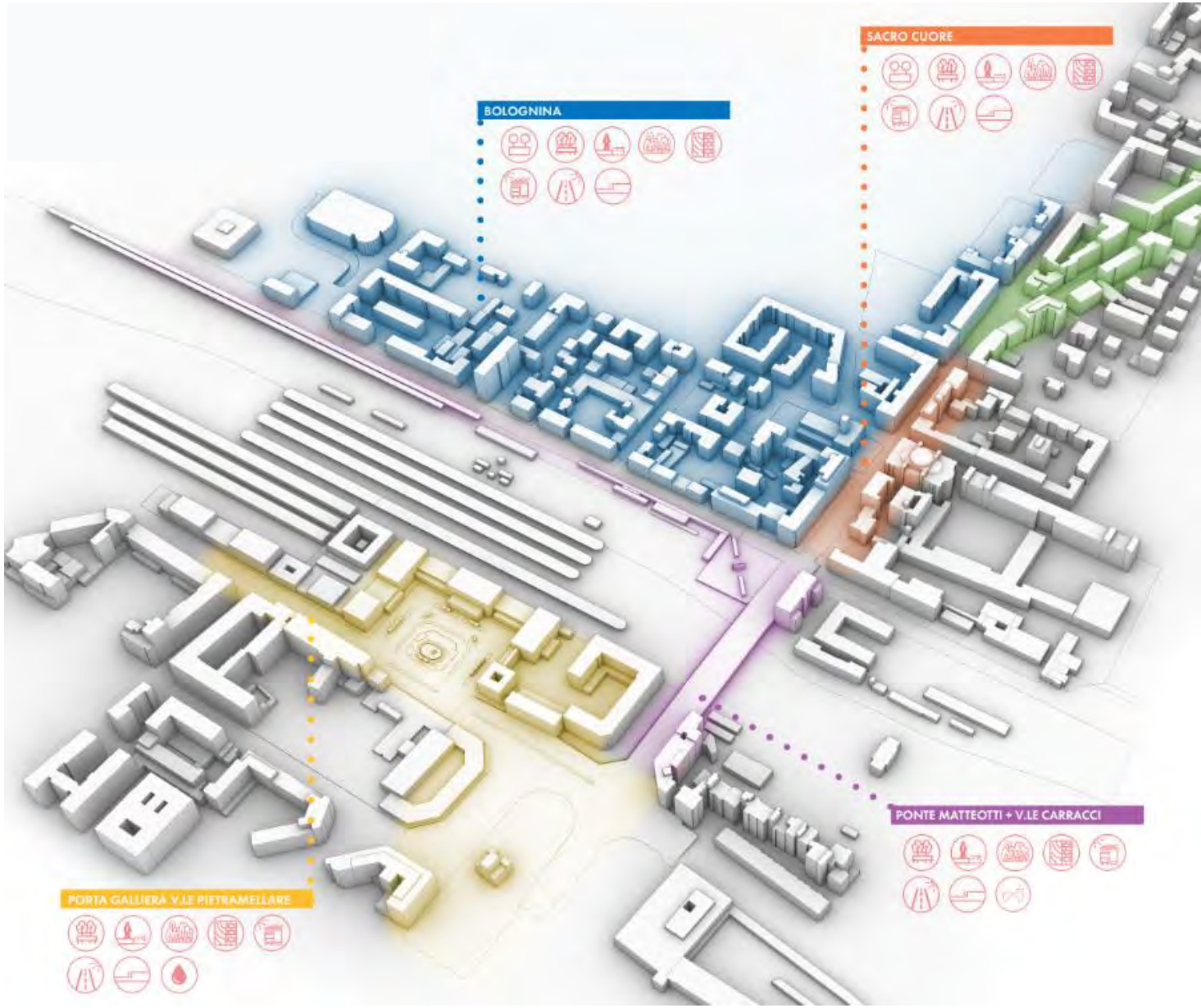
What: System and Structural Design and coordination of the different disciplines for the realization of the new layout for the Bovisa Station collaborating with Renzo Piano Building Workshop. Based on the RPBW design, NET Engineering developed the Technical-Economic Feasibility Project and reworked, updating it, the PNRR Executive Project according to the new design configuration. NET responded promptly to the client's requests in challenging timeframes and exceeding all expectations.

Urban renewal
Main projects

Master Program Polo della Memoria Democratica - Bologna

Client: RFI SpA - Public authority for Italian railways network

What: Concept Planning related to the development of urban design solutions to reconfigure the public spaces of the Bologna train station and adjacent areas where the Polo della Memoria Democratica may be located. The Master Program also envisions a commemorative path - entirely green, sustainable and centered on slow mobility - to connect the station with the Shoah Victims Monument and the “Ustica” Hangar Museum



Urban renewal
Main projects

Project management consultancy for the rehabilitation of Milan old fair area "New City Life district"

Client: CityLife SpA

What: High Surveillance Activities on detailed design developed by the General Contractor and on construction activities: general coordination of the project, support to CityLife in the negotiation and signing of the contract with the General Contractor, project development control (cost control, planning control and construction quality control).

Urban renewal
Main projects

Mobility center in Bressanone (Bozen)

Client: South Tyrol Transport Structures Company

What: Technical-economic feasibility project, detailed and construction design and construction supervision. The project - carried out entirely in B.I.M. - involves the construction of a passenger interchange center, located adjacent to the Bressanone railway station, equipped with the required infrastructures to guarantee an exchange between public transport and private mobility.

Industry

what

Infrastructures for the viability of industrial sites

Investigations, studies and geotechnical design

Remediation and redevelopment of industrial sites

Depots

main clients

Group managing networks in water, energy and environmental sectors

Italian State Railways Group

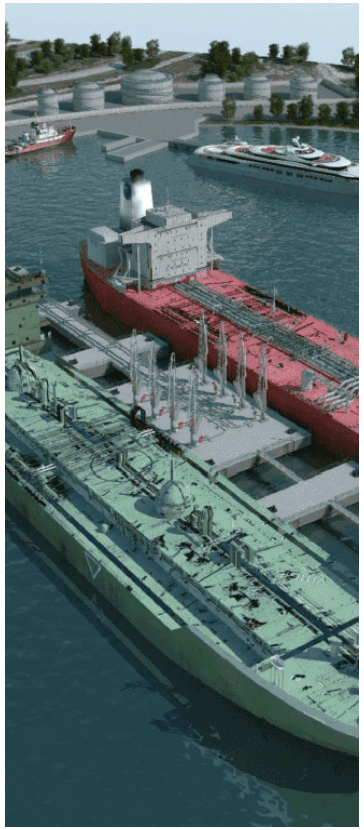
Energy and infrastructure sector companies

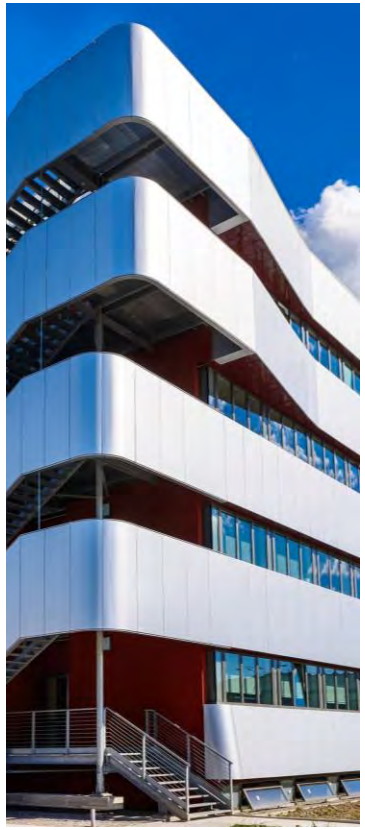
Southern European Container Hub

National and European local public transport companies

Technip Energies

Industry | Main projects






Industry
Main projects

Design of bridges for exceptional loads - Sriracha refinery (Thailand)

Client: SAIPEM

What: Detailed design of two bridges for exceptional loads: project management, concept design, design of the abutments and approach embankments, of the study of the supports in resilient material, of the span structure in prefabricated steel modules with anti-wear and anti-slip coating.

Industry
Main projects

New dock for oil tankers

Client: Technip Energies

What: Geotechnical consultancy for the FEED phase relating to a new pier in the Mediterranean serving a refining plant.
The activity involved the definition and interpretation of offshore geotechnical and geophysical investigations and geotechnical sizing and installation analysis of tubular steel piles.

Industry
Main projects

Plant for the production of olefins within the Plock complex (Poland)

Client: Technip Energies

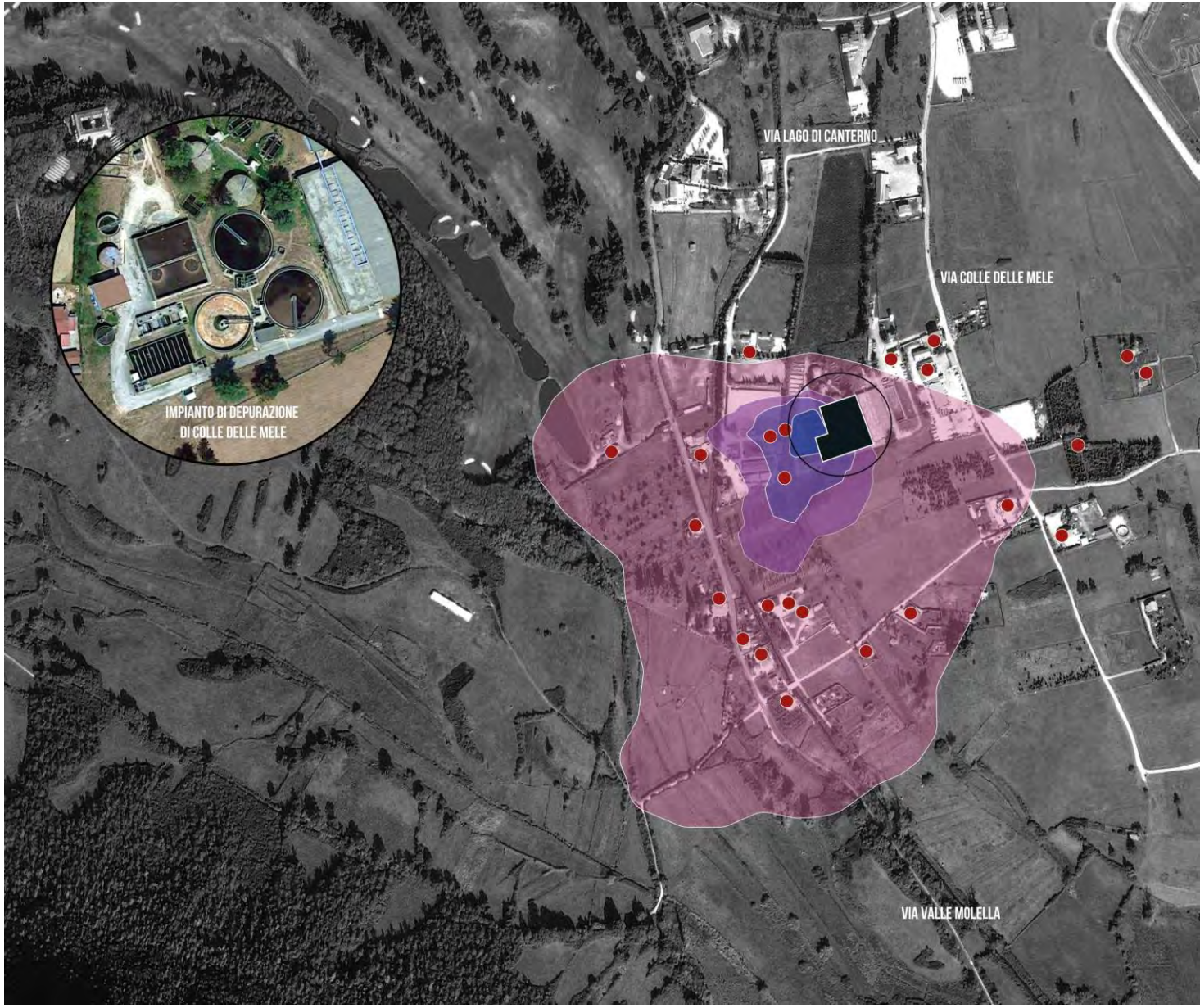
What: Geotechnical consultancy for the FEED phase: critical analysis of the geotechnical available surveys (surveys, CPT tests, geophysical tests), study of the structures foundations and planning of the additional investigations for the next phase of the project (up to the detailed design)

Industry
Main projects

Odor impact studies for treatment plants

Client: ACEA SpA

What: As part of the modernization project of some treatment plants, NET Engineering supported ACEA in the preparation of the preliminary environmental study, in particular with regard to the air matrix. The studies conducted by NET concerned: air quality and meteorological conditions, impacts during the construction phase, impacts during operation.



Industry
Main projects

Reconstruction of industrial and civil buildings

Client: Sorin Group

What: Project and Construction Management, High Surveillance Activities on the works and Procurement Management in the reconstruction of industrial and civil buildings at the Sorin Group headquarters in Mirandola (MO) following the earthquakes that hit Emilia Romagna in May 2012. The headquarters covers an area of 95,000 square meters (14 buildings).

Construction costs: 15 M euro

Industry
Main projects

Reconfiguration of the cargo terminal Calata Bettolo (Port of Genoa)

Client: SECH

What: Detailed design in the railway sector for the new location of tracks, of transtainer cranes, of systems for moving locomotives and unloading rail tankers. Design of systems, lighting and underground services, environmental study, safety and signaling plan.

Industry
Main projects

“Italo” high-speed train depot and maintenance workshop - Nola (Naples)

Client: NTV SpA - Italian private rail operator

What: Project Management Consultancy, detailed design review, supervision of works and Coordination of Safety during Construction (CSE). The plant covers an area of 140,000 square meters and consists of: a platform equipped for carrying out the washing activity, a maintenance area and garage workshops.

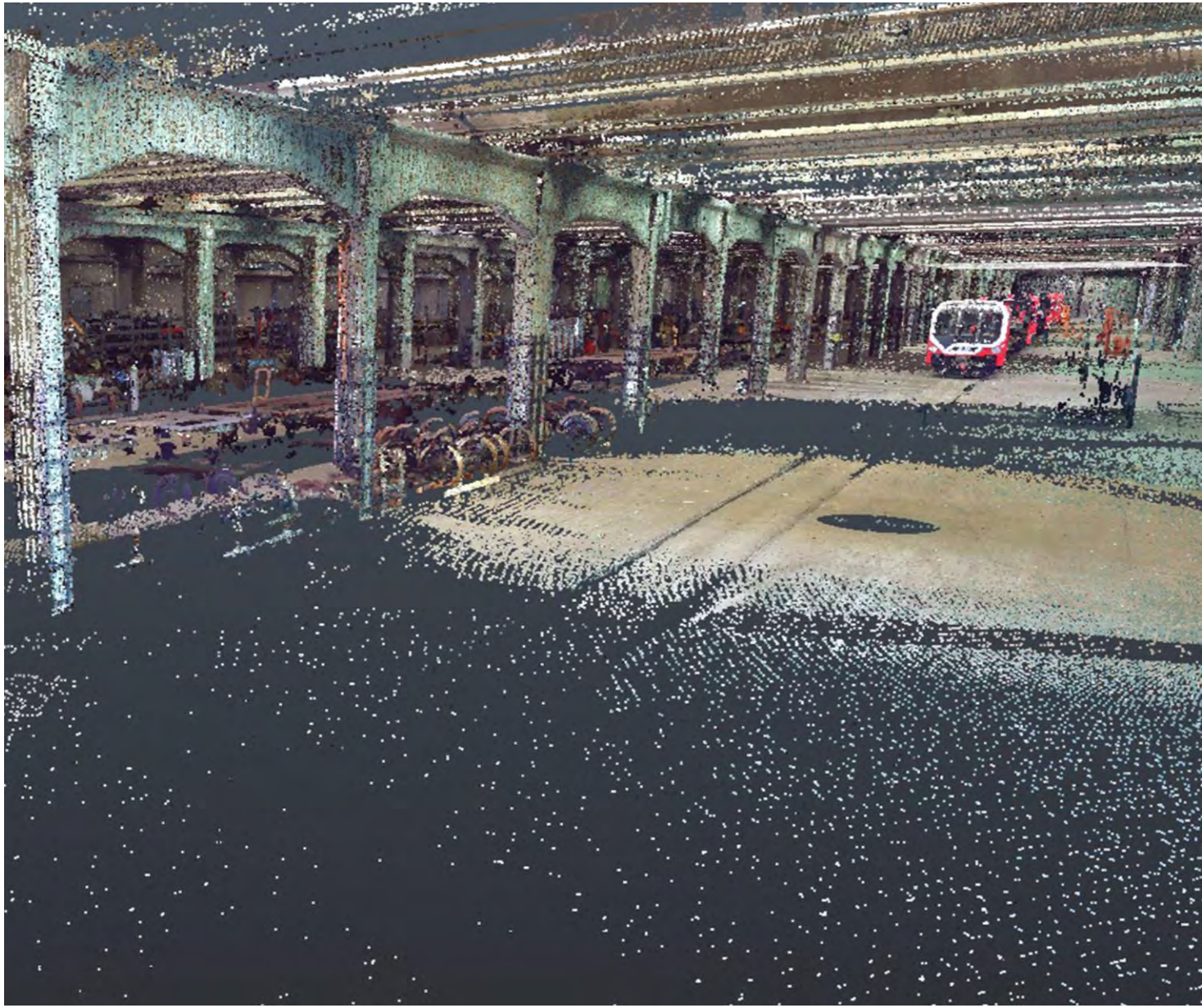
Construction costs: 53 M euro

Industry
Main projects

Restructuring of the mechanical railway workshop in Segrate-Pioltello (Milan)

Client: Mercitalia maintenance (FS Group)

What: Preliminary, detailed and construction design for the rehabilitation of a 21,550 m² building and 68,000 m² of external areas (existing railway yard and yard). The project - developed in B.I.M. - includes the upgrading of the production layout of the workshop and the addition of services.



Industry
Main projects

Rehabilitation of the railway depot of the “Val Venosta – Malles” line (Bozen)

Client: South Tyrol Transport Structures Company

What: Preliminary, detailed, construction design and works supervision for the enlargement of the existing shed to allow the storage of new rolling stock and the execution of routine maintenance operations.

Construction costs: 3 M euro

Industry
Main projects

Bus depot in Hamburg (Germany)

Client: Hamburg Hochbahnf – Local Public Transport Company

What: Preliminary, detailed and construction design for the architectural, structural and plant engineering component of the new "Gleisdreieck" electric bus depot in Hamburg. The depot, which at the end of the works will be the largest in Europe, is sized for a fleet of 240 vehicles.

Construction costs: 12 M euro

Industry
Main projects

Cologne railway tram depot (Germany)

Client: KVB AG – Local Public Transport Company

What: Preliminary, detailed and construction design for the enlargement of the area for the storage and maintenance of the rolling stock for the regional railways and the Cologne tram network. The new complex consists of: main storage shed, material storage shed, office building, two minor technical buildings.

Construction costs: 53 M euro

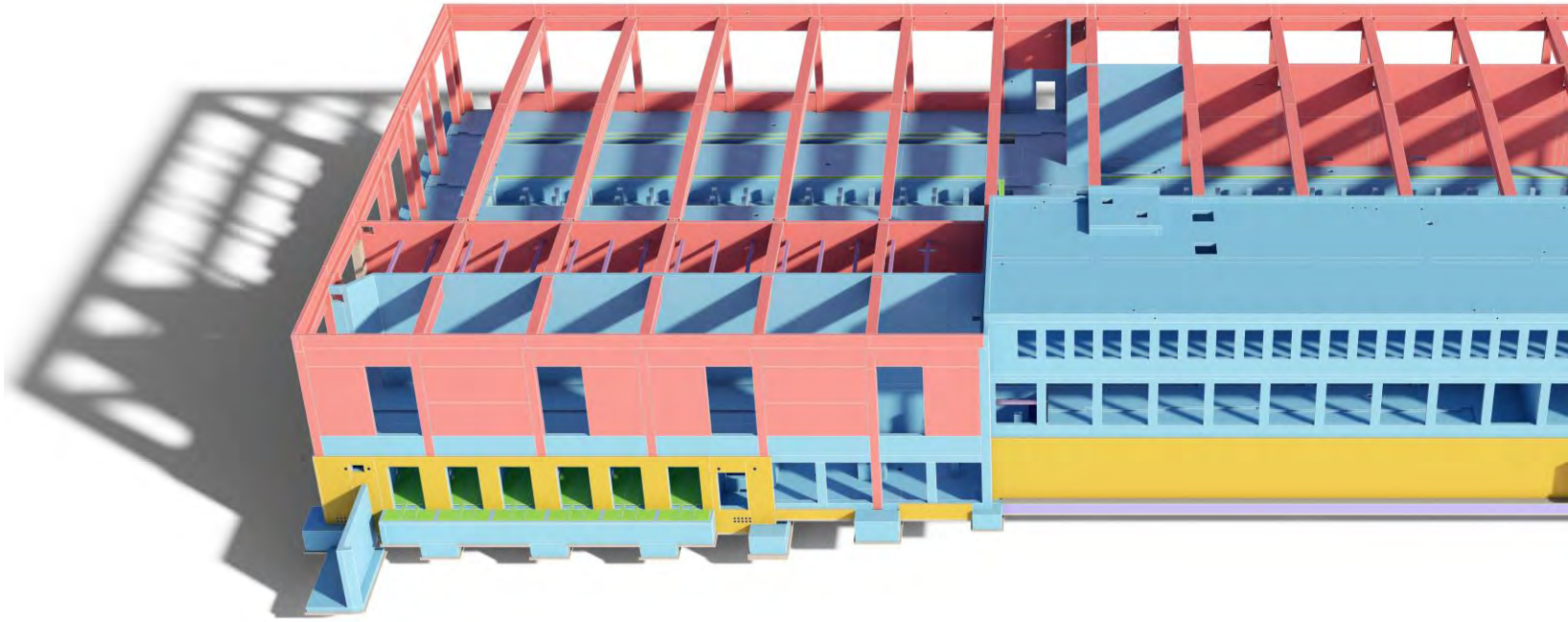
Industry
Main projects

Essen tram depot (Germany)

Client: VIA Verkehrsgesellschaft - Local Public Transport Company

What: Preliminary, detailed and construction design for the enlargement and modernization interventions of the Essen depot, in order to house a fleet of 153 trams and 52 light meter vehicles. The designed systems concern: main depot, workshop for both trams and trains, trolley maintenance room, washing area, spare parts warehouse, storage for maintenance materials.

Construction costs: 26 M euro



From projects to the method

excellence

We read the markets and clients' needs ahead of time by collaborating with them and identifying the best design solutions. **We manage complex projects** harnessing our high-level, specialized skillset, and our ability to always enrich it.

understanding

We consider projects as a whole; we manage them by holding all their pieces together and, at the same time, recognising each piece's specific challenges. **We effectively embrace and overcome their complex nature, and we produce practical, measurable solutions**

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sharing

We promote **stakeholder engagement** through clear planning, **effective communication and complete information** since the early stages of each project.

sustainability

We treat sustainability as a responsibility not as an ideal, but rather as a practical criterion. Our method starts with a **risk analysis** and develops a **number of possible solutions**, identifying the potential downside to each one of them.

Research and Development

Collaboration with universities

Sustainable Infrastructure Association

Association for European Transport

Institute for Building Information Modelling Italy

Collaboration with start-up

Communities of Practice

Research and Development

Collaboration with universities

NET Engineering is part of the Advisory Board of the master's degree course in Mobility Engineering at the Polytechnic of Milan, has developed partnerships and collaborates with the engineering faculties of various universities throughout the country.

Research and Development

Sustainable Infrastructure Association

NET is a member of the Sustainable Infrastructure Association where it makes an active contribution to the ‘Life Cycle Assessment (LCA) for sustainable infrastructure’ work group which aims to facilitate LCA assessment for specific construction processes.

Research and Development

Association for European Transport

NET Engineering is the first engineering company in Italy to join the Board of Directors of the main European organization of transport experts. As a member of the Board of Directors, NET benefits from the network of 200 professionals - from over 35 countries - who adhere to the AET, accesses the main results of research conducted at European level in the field of mobility, participates in discussion boards with some of the most important players in this sector in Europe and contributes to defining the themes at the center of the annual European Transport Conference.

Research and Development

Institute for Building Information Modelling Italy IBIMI

NET Engineering is a member of the Institute for Building Information Modelling Italy - IBIMI buildingSMART Italy, where it leads, in collaboration with the University of Padua, the working group that brings together the operators of Italian Airports, with the aim of generating a homogeneous knowledge base on the subject of BIM and playing an active role in the development of international standards, in synergy with the research carried out by buildingSMART International.

Research and Development

Start-ups and innovative companies

NET Engineering collaborates with start-up aimed at planning the future of urban mobility by designing experimental public transport systems, flexible, scalable, shared mobility services and promoting sustainable mobility. NET develops partnerships with innovative companies and academies active in experimenting with new materials and construction technologies

Research and Development

Communities of Practice

At the same time, NET Engineering promotes research and development internally in the sphere of the Communities of Practice, places for the sharing, exchange and enrichment of knowledge and participants' skills on the topics of common interest. NET also sustains the professional growth of all those who take part in the Community.

NET ENGINEERING

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