

NET Engineering

Company presentation



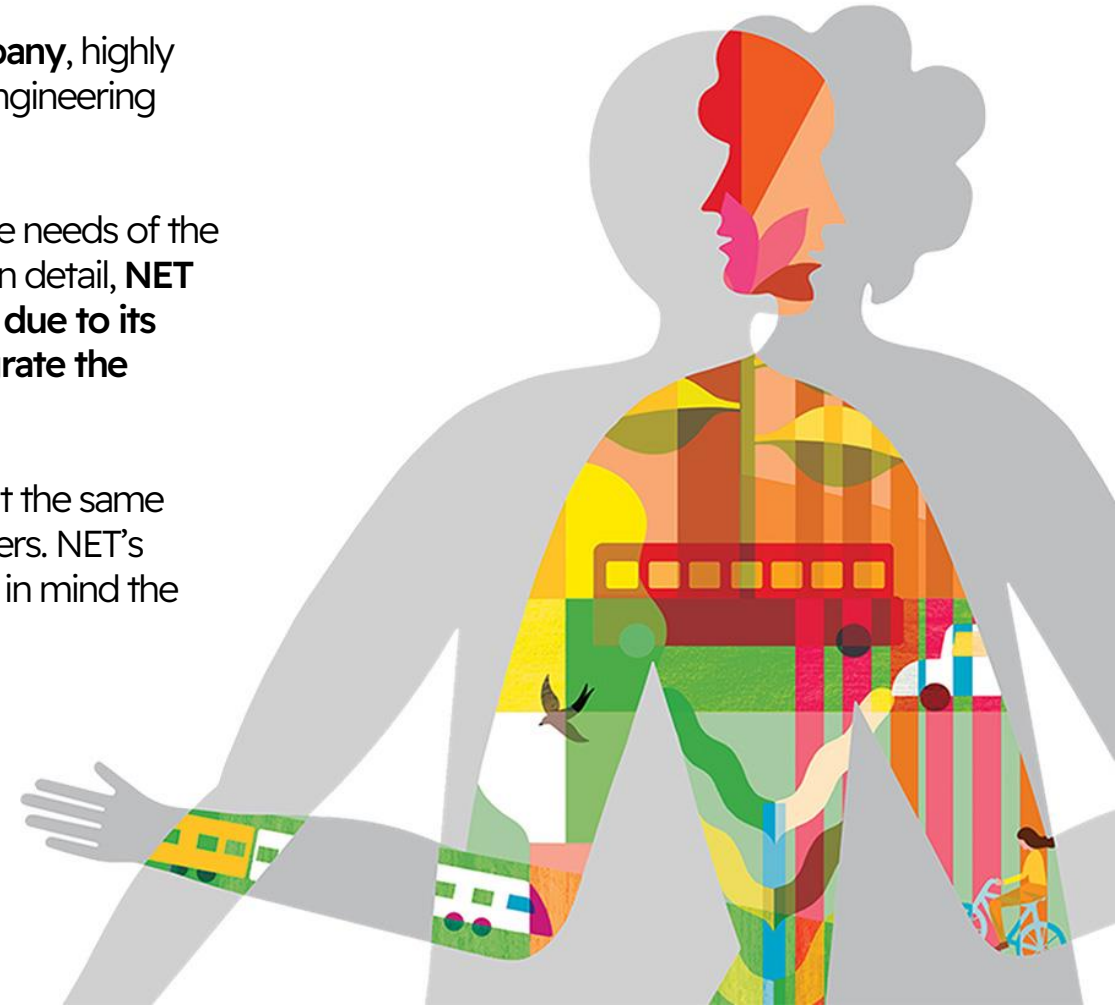
Imagine
Think
Design

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



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

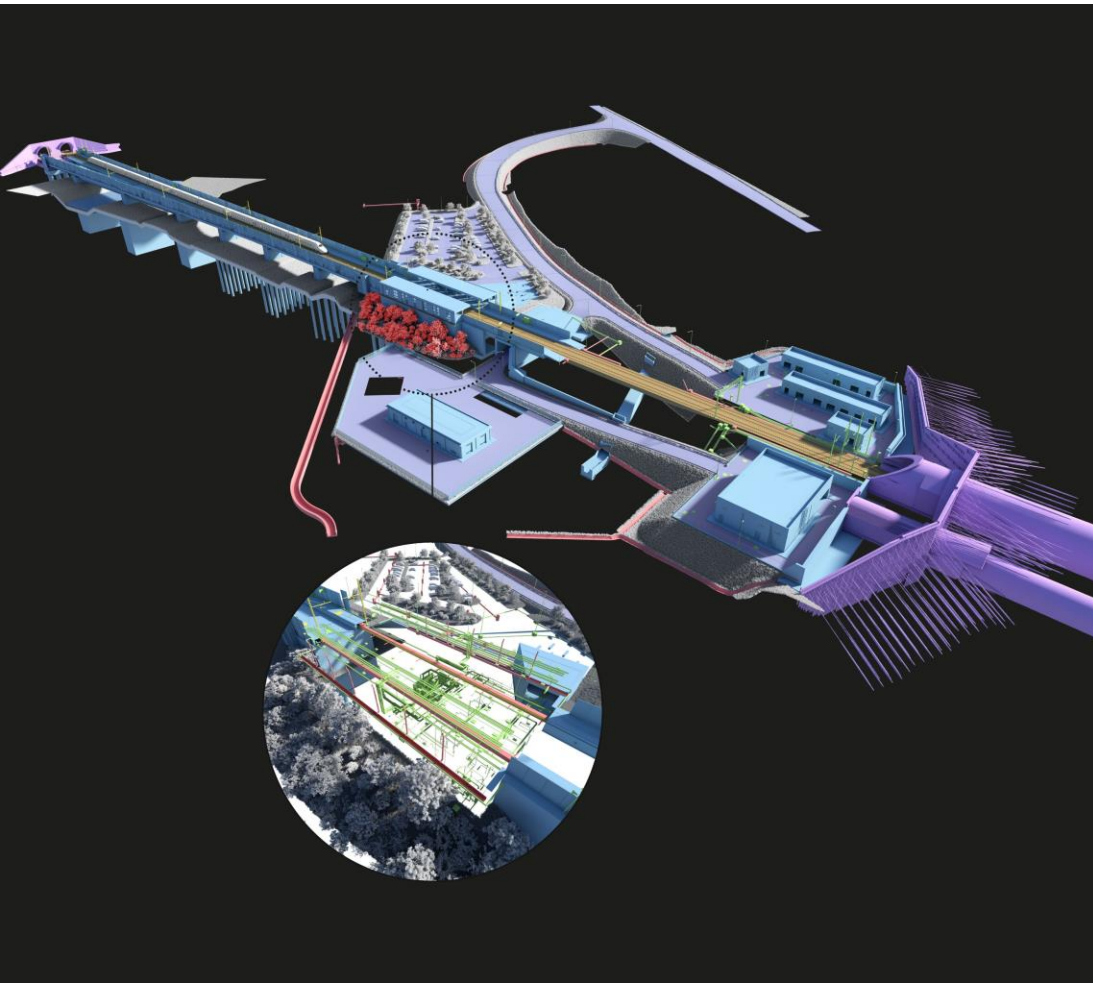
BIM

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

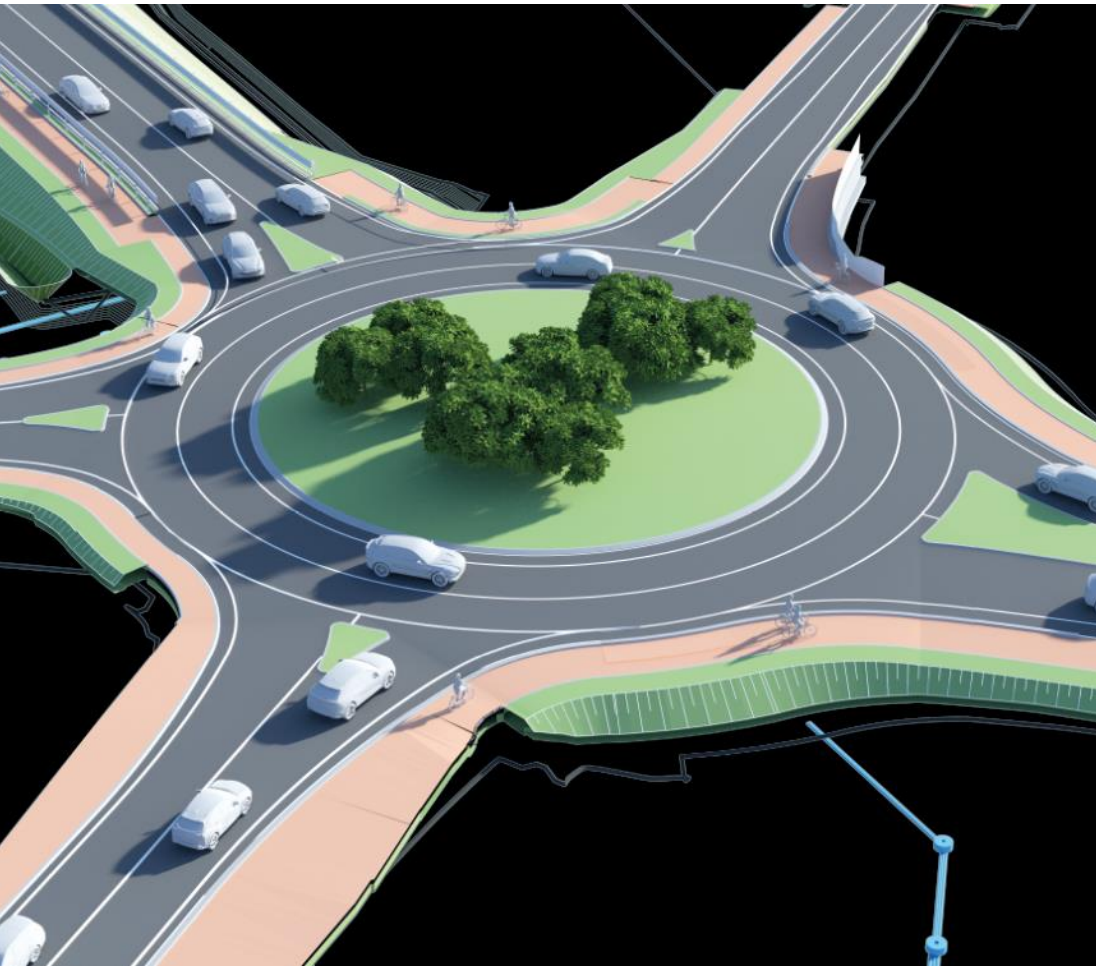
Work organisation: identification of working methods, division of tasks, setting priorities and deadlines

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**

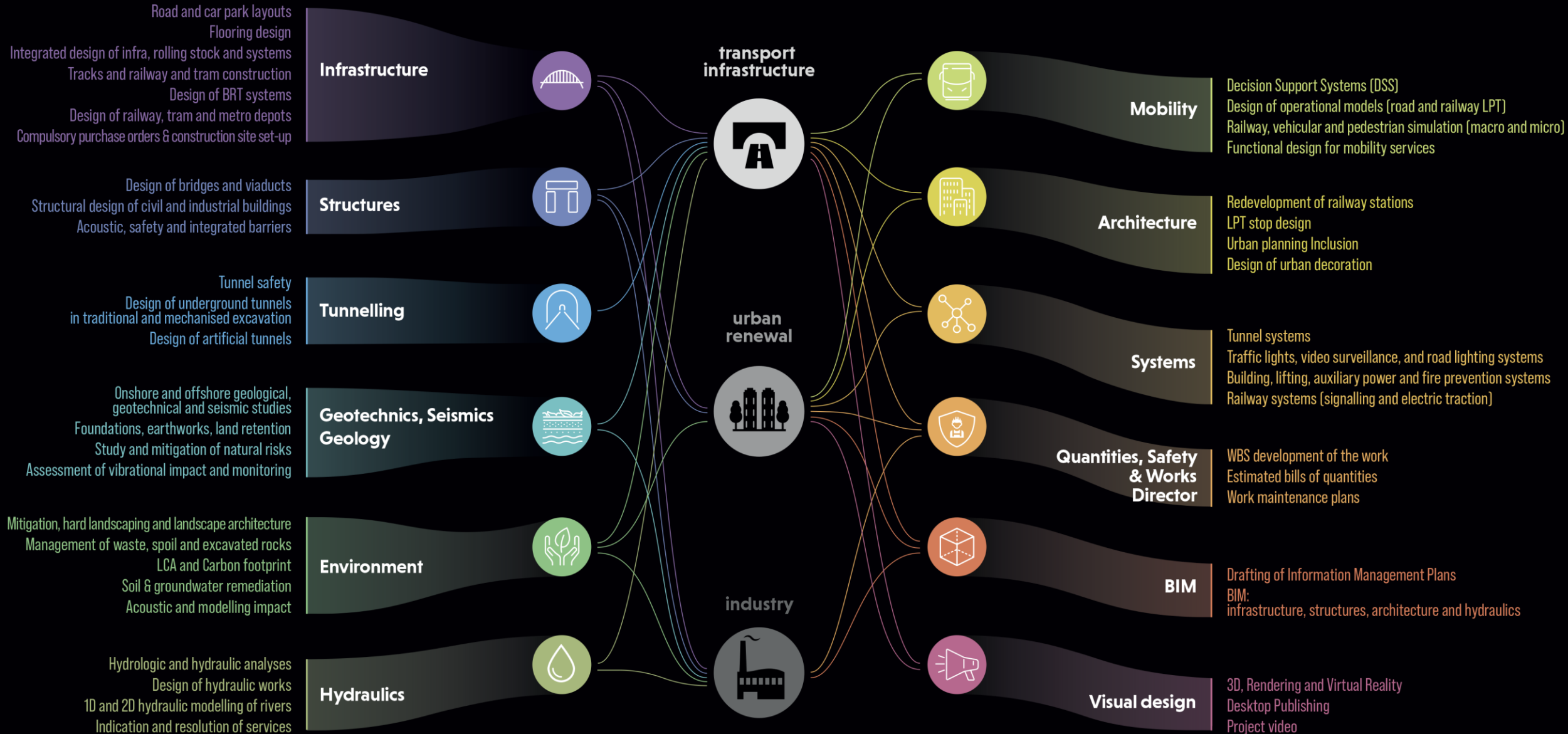


**Urban
renewal**



Industry

Disciplines and technical competences





Transport 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

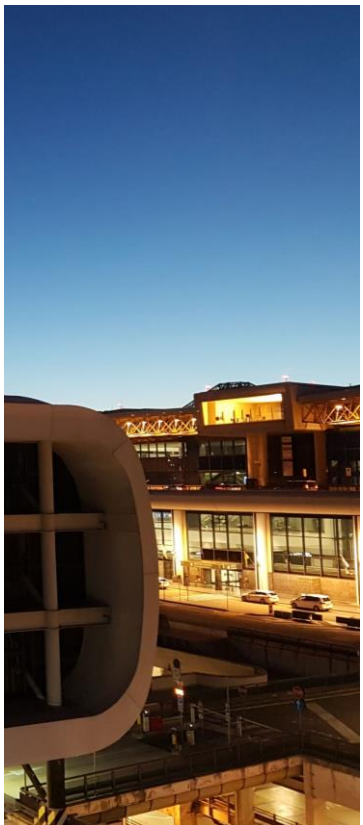
Ghana Road Authority

World Bank





Mobility | Main projects



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.



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



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





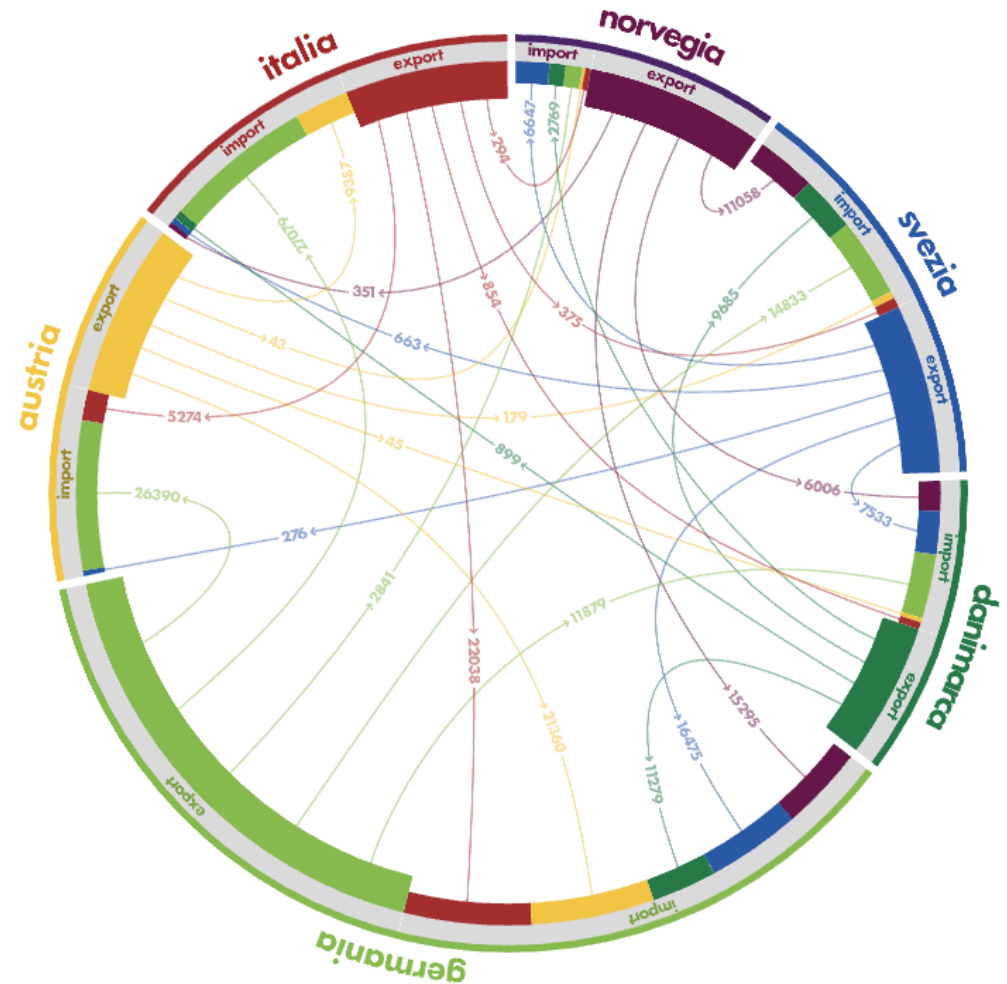
Mobility

Main projects

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.



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



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



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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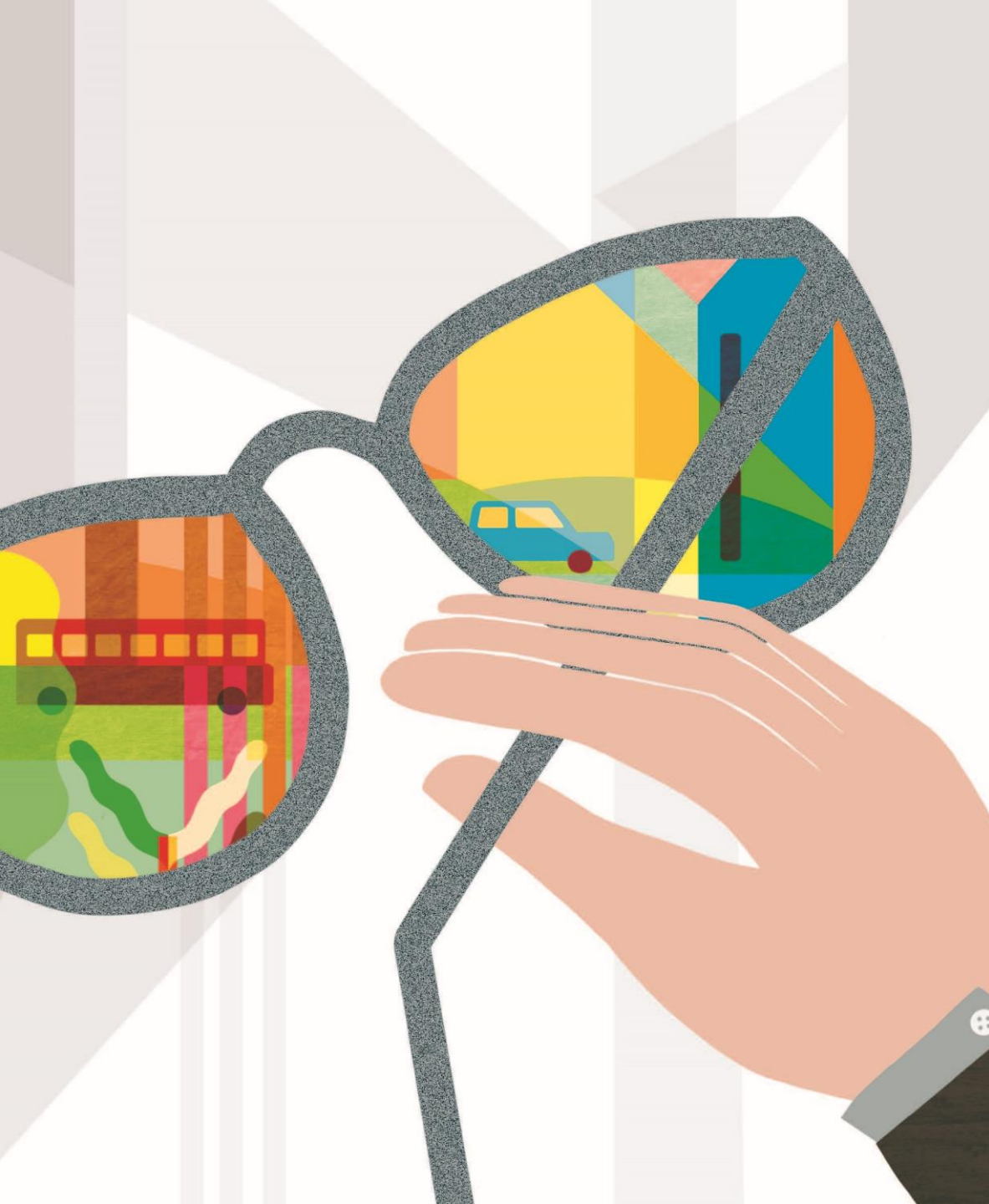
sharing

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-italia.com

