



PLANIA
Ingegneria

Planning, Engineering, Environment and Territory

Profile

PLANIA Ingegneria is a multidisciplinary society of designers, planners, engineers, consultants and technical specialists offering a broad range of professional services.

Based in Narni Scalo, Italy, the Company provides all the services in the fields of civil and industrial engineering, geotechnics, as well as architecture, interior design, environment and territory.

We continually challenge ourselves to explore new horizons and seek better solutions through insight, innovation and integration.

By working together creatively from the start of a project, architects and engineers combine their knowledge to devise integrated, sustainable design solutions, to ensure consistency and personal service.

We work both directly with clients and in partnership with Sammi S.r.l. which is one of the most important companies in the designing and industrial mechanical plant manufacturing sector.

Our collaboration may range from a purely advisory role to the delivery of a major package of design within the context of larger projects.

PLANIA is specialized in:

- Technical and economics feasibility analysis
- Design of structures: concept design, detail design, construction project and shop drawings
- Construction management and accounting
- Construction supervision
- Security plans
- Static and technical-administrative testing
- Rehabilitation of Existing Structures
- Consultancy

“The best design comes from a completely integrated approach from conception to completion”.

- **Civil** Concrete and Steel Structures; Dynamic Analysis; Geotechnical Engineering; Foundation Design; Earthquake Engineering; Rehabilitation of Existing Structures; Seismic Vulnerability of Buildings
- **Industrial** Mechanical Industrial Plants, Material Handling Systems, Silos, Design of Structural and Mechanical Systems, Movable Structures
- **Environmental** Landscape Planning, Environmental Engineering
- **Infrastructure** Roads Engineering, Car Parks, Civic Buildings
- **Architecture** Building Design; Functional Distribution Design; Interior Design and Render.

SPECIALIST STRUCTURAL ENGINEERING

SEISMIC ENGINEERING

EXISTING STRUCTURES REHABILITATION

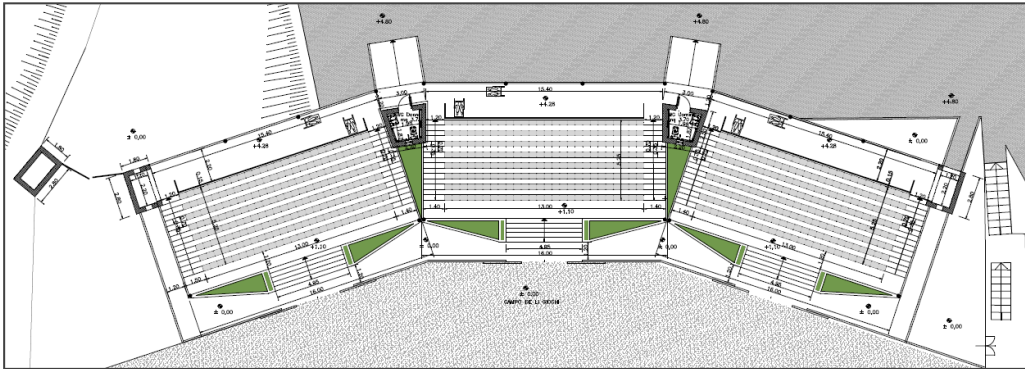
Structural Engineering Services require knowledge of industry standards, innovation, well-trained engineers and extensive domain experience.

PLANIA Ingegneria undertakes conceptual, preliminary and detailed design projects in the areas of Structural Engineering Design and Analysis.

Our structural engineering team strives to reduce product design cycle time as well as ensure cost effectiveness.

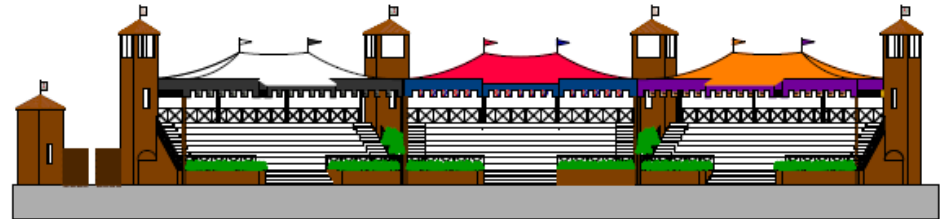
We are conversant with major international building codes and practices and can work proficiently for almost all nations.

1. Specialist structural engineering

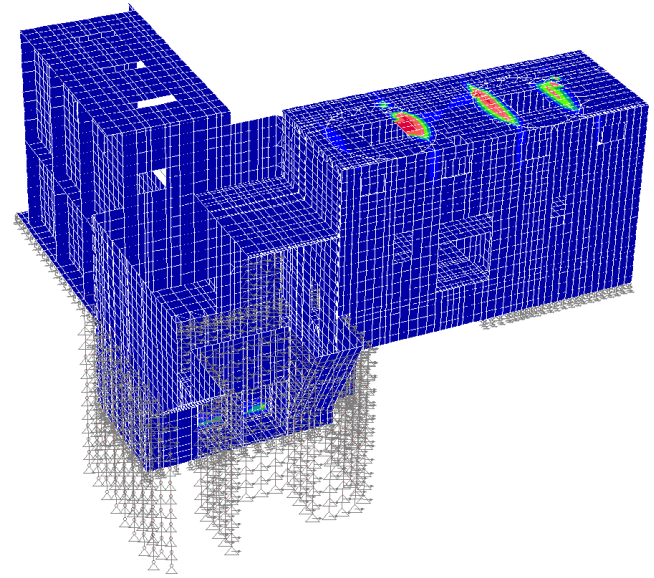
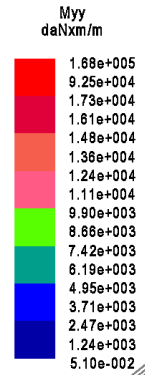
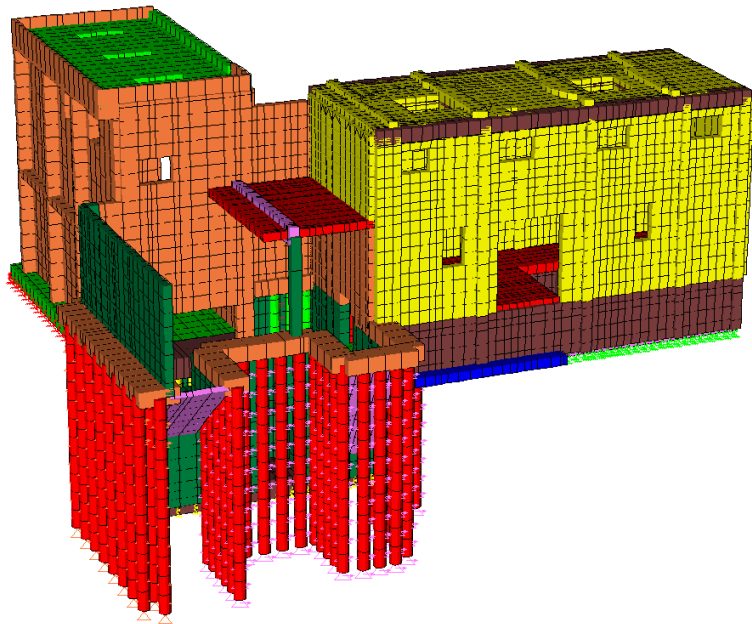


Sport facilities design

MUSEETTO INTERNO CAMPO DE LI GIOCHI

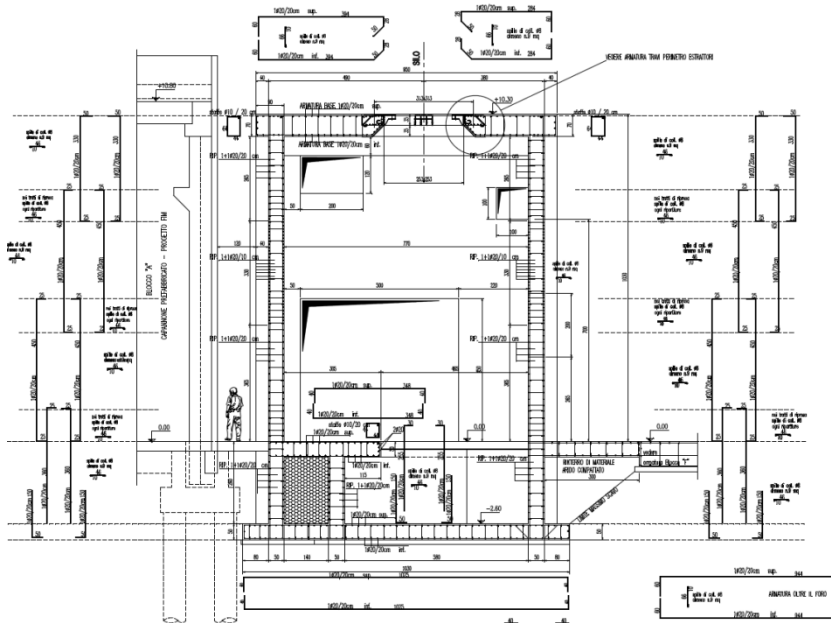


2. Specialist structural engineering



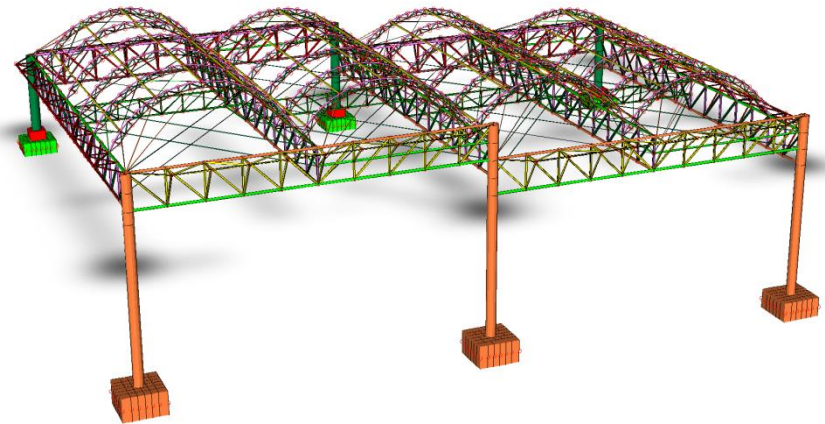
PLANIA supports all phases of structural engineering design process, right from design...

3. Specialist structural engineering



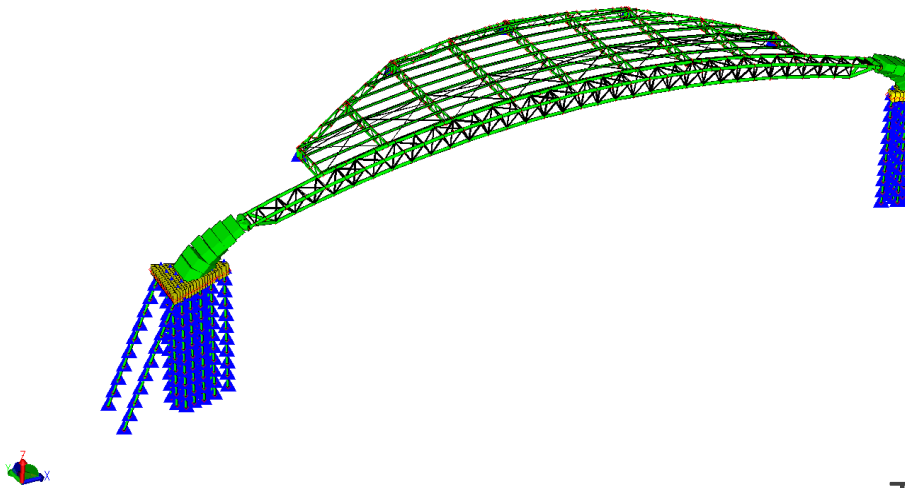
...to construction documentation and construction management .

4. Specialist structural engineering



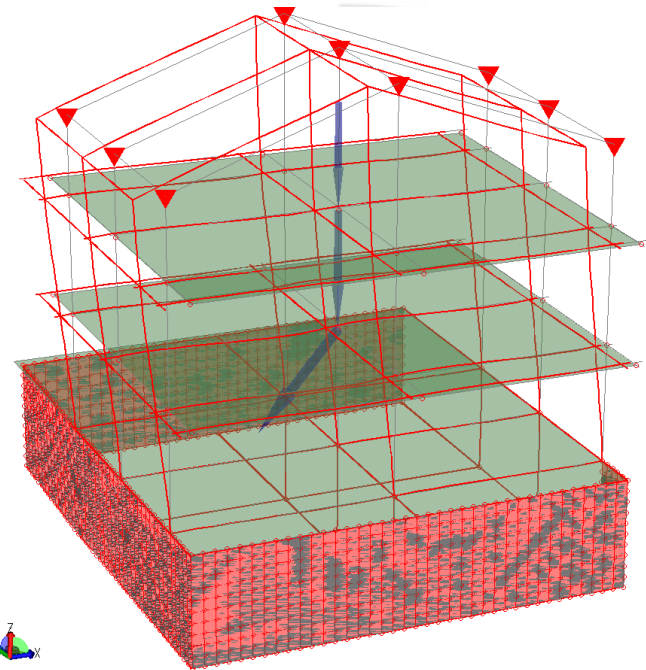
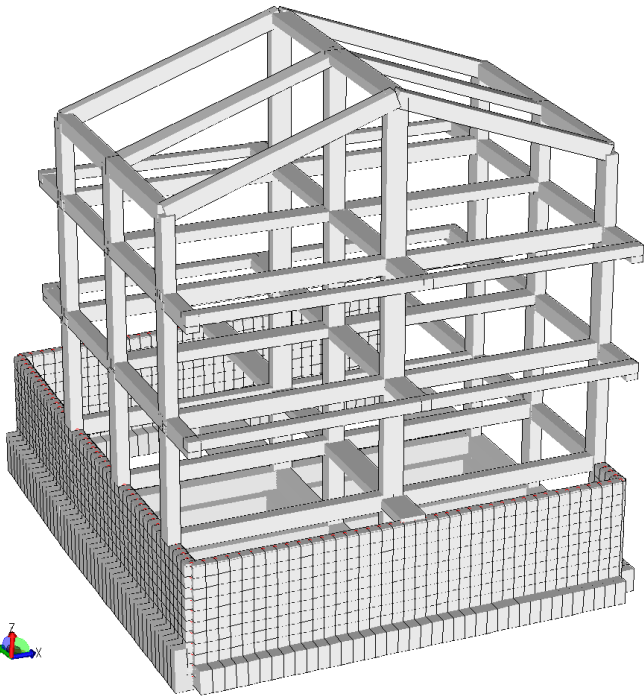
Amelia ancient walls- temporary cover after collapse in 2005

5. Specialist structural engineering



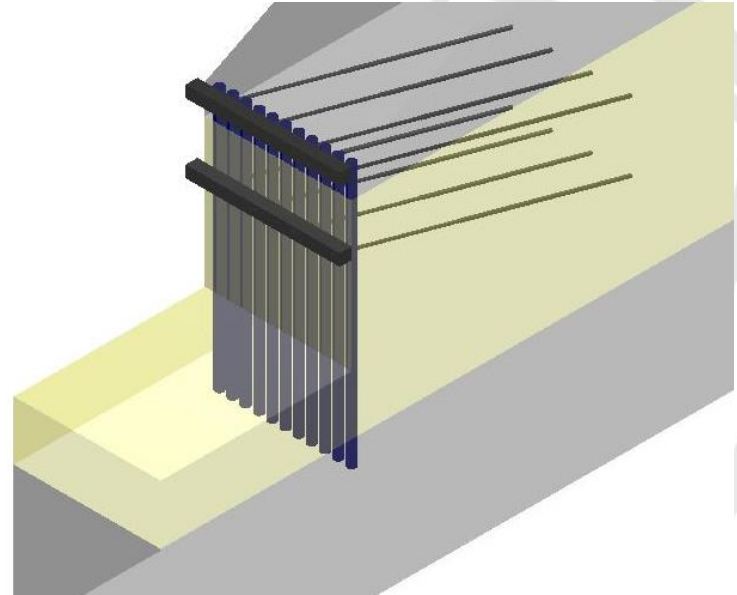
Trieste sport facility- bleachers cover

6. Seismic engineering



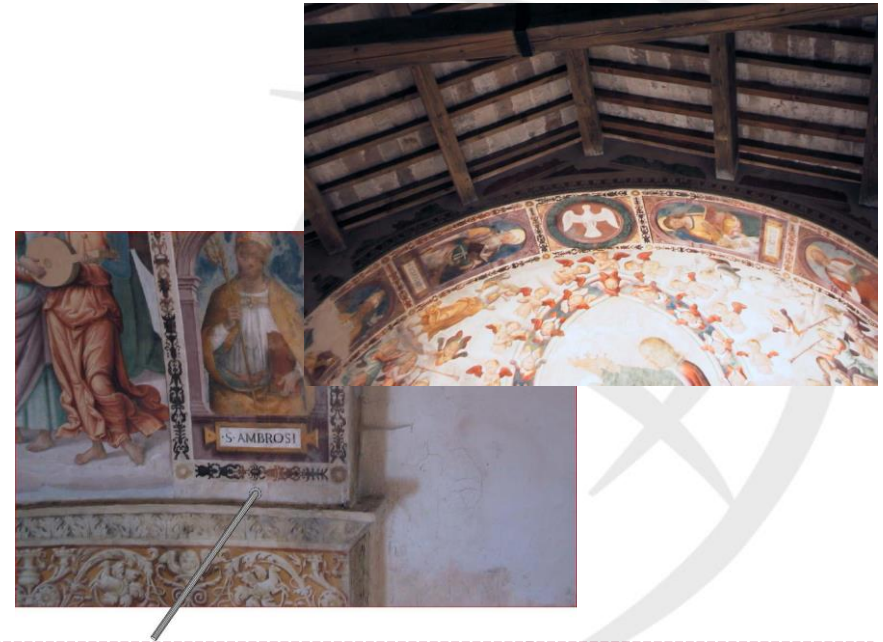
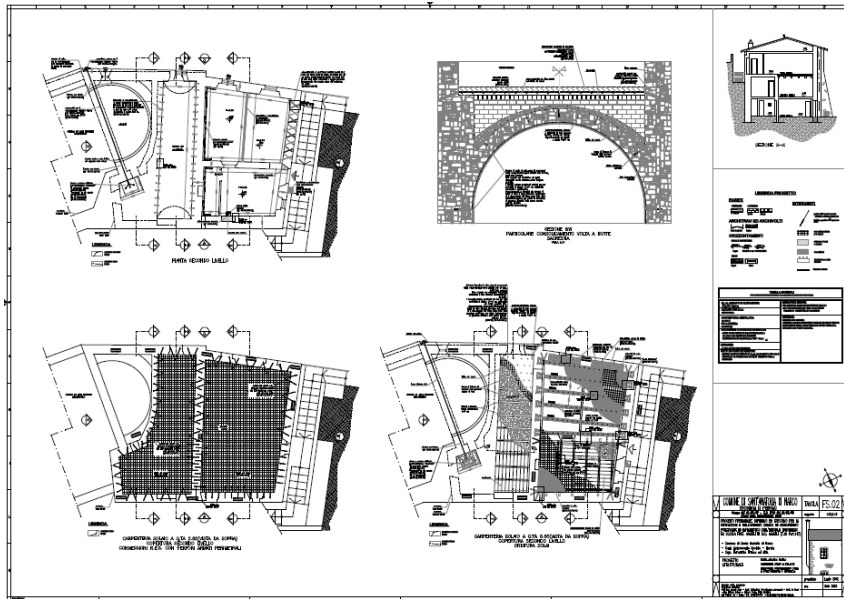
Using numerical simulation tools, PLANIA takes a realistic approach to the assessment of seismic performance, by examining the dynamic response of a structure and its foundation together.

7. Geotechnic



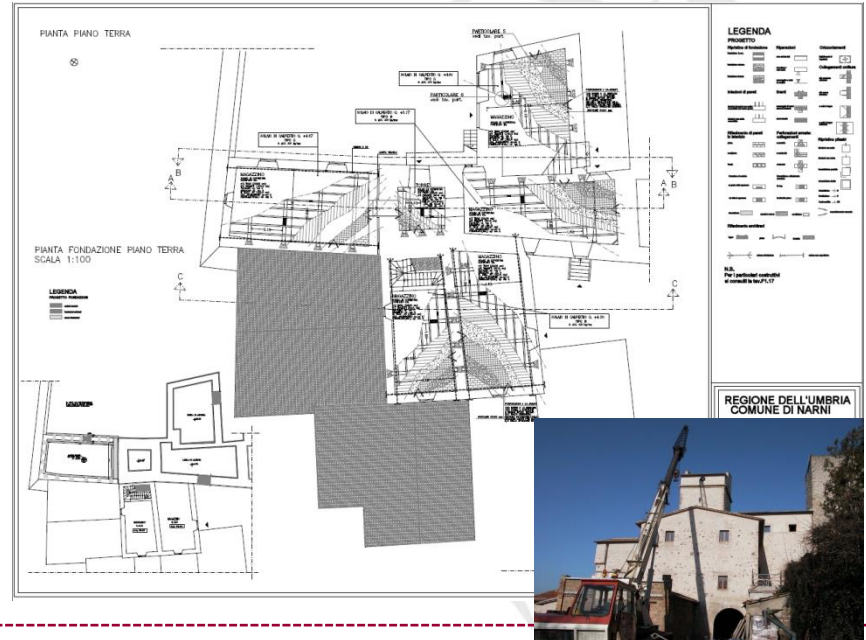
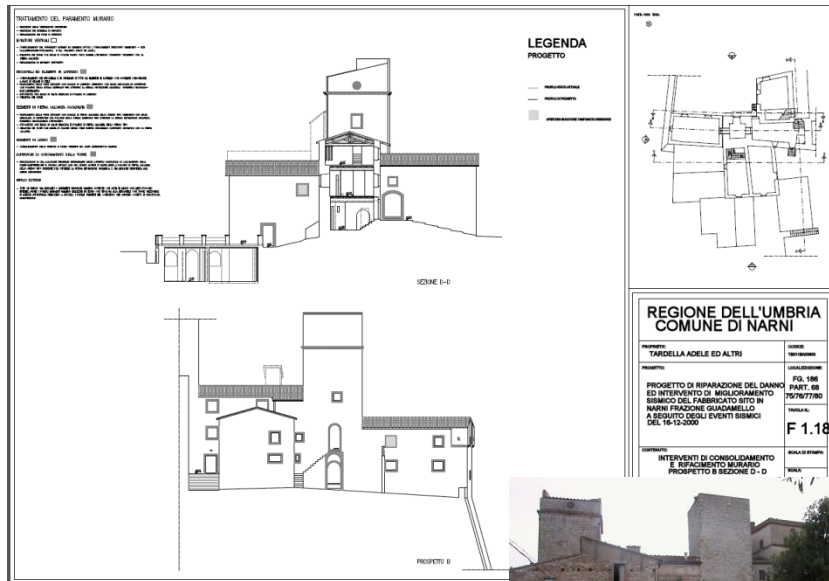
Propped retaining walls

8 Existing structures rehabilitation



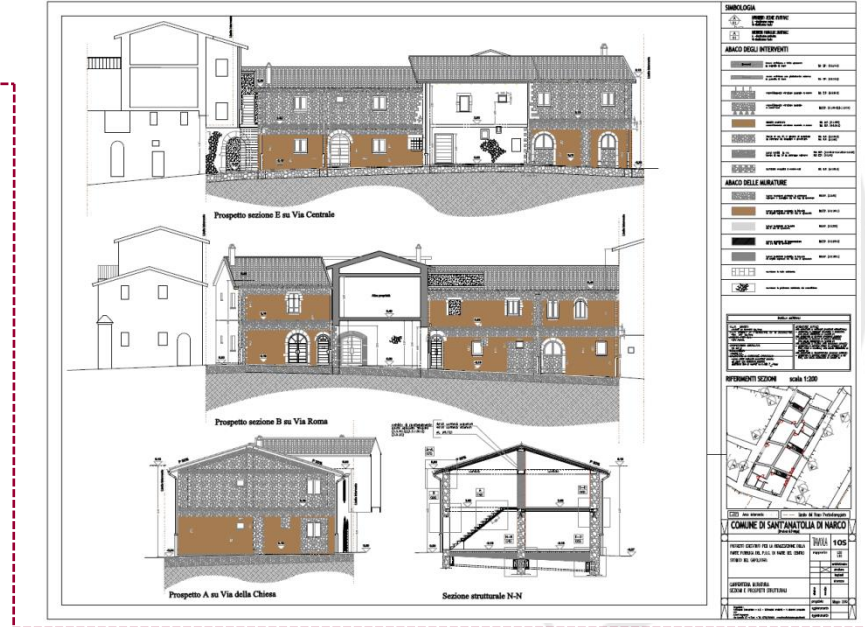
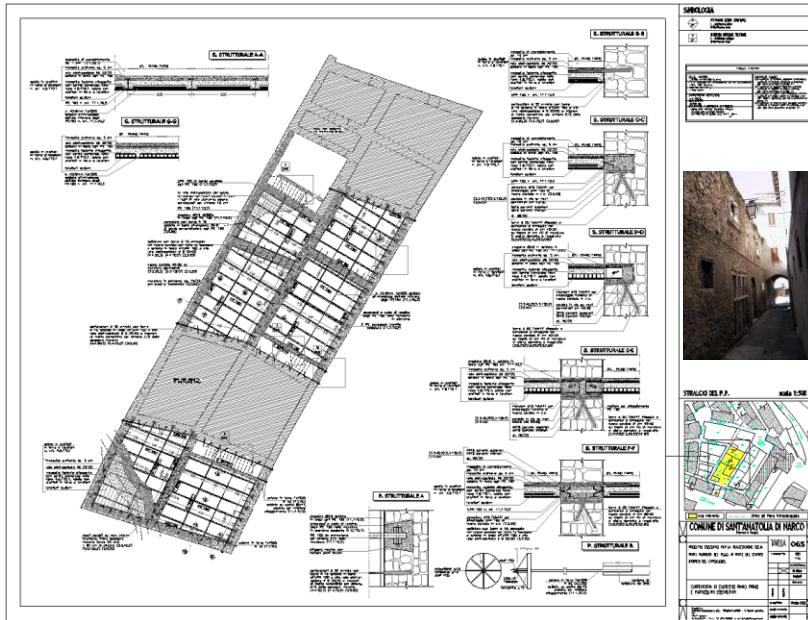
PLANIA provides services for evaluation and strengthening for historical valuable buildings preservation.

9. Existing structures rehabilitation



Historical Village of Guadamello (Narni).

10. Existing structures rehabilitation



Sant'Anatolia di Narco.

MECHANICAL INDUSTRIAL PLANTS

MATERIAL HANDLING SYSTEMS

SILOS

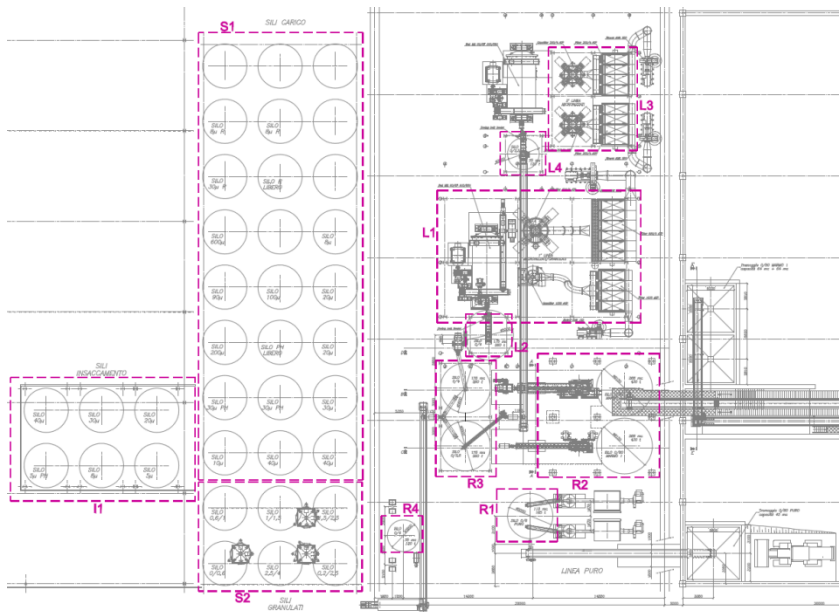
LOADING SYSTEMS

PLANIA has an experience in a wide array of industrial projects including material handling, silos and machine foundations for vibrating equipment.

PLANIA's engineers adapt their structural analysis approach to conform to Client requirements and structural standards. This will allow the input of information in the form of an easy-to-use graphical interface and intuitive input methods such as sample AutoCAD drawings.

The end result will be complete structural detail drawings, layout of plans, elevation, section and legends in 2D or 3D formats as per requirements

1. Mechanical industrial plants

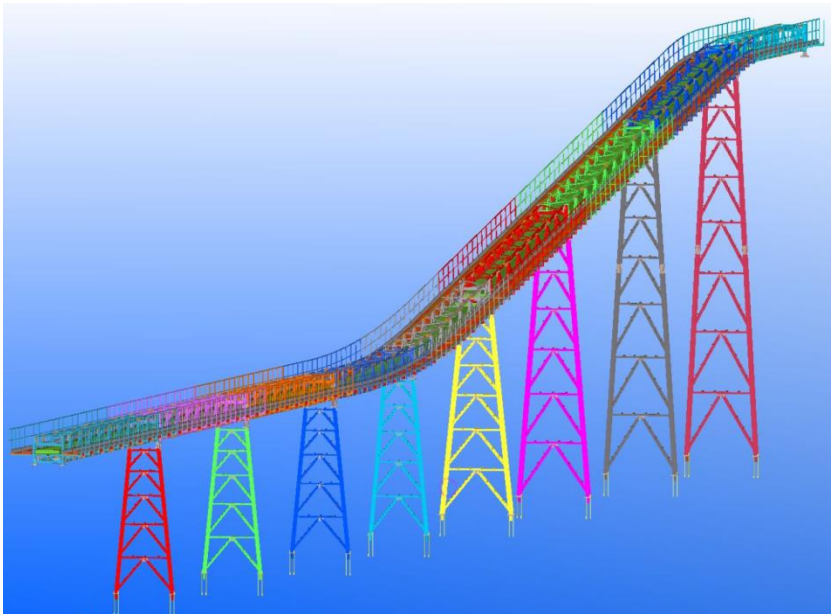


For any part of plant and for any steel structure has been provided:

- tridimensional structural calculation model
- preliminary weight estimation
- preliminary evaluation of stresses transmitted to foundations

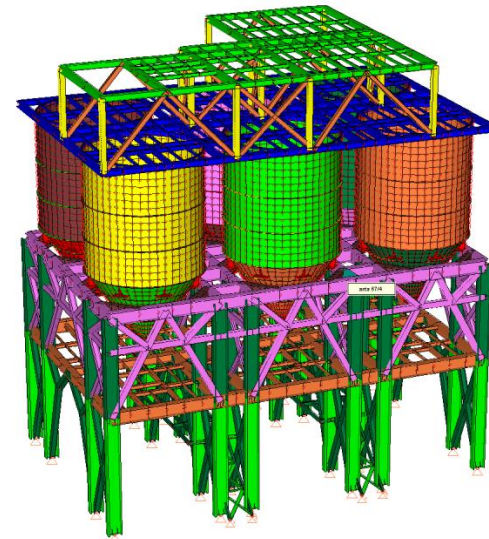
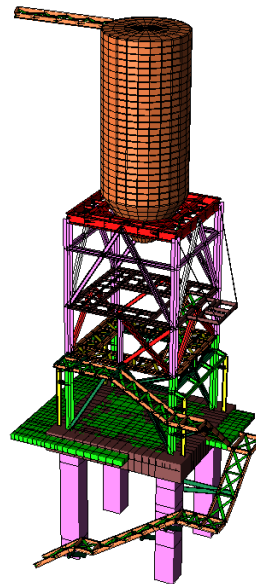
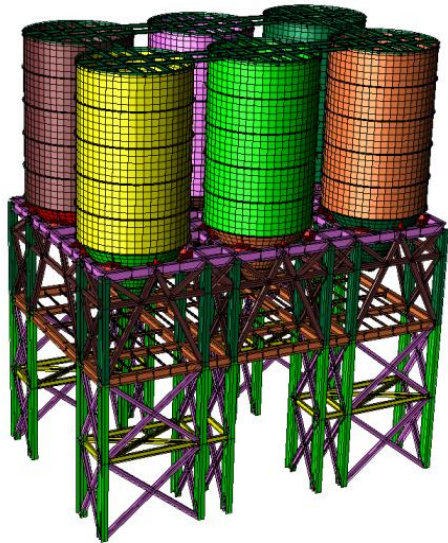
Preliminary study of the feasibility of structural steel structures for new production plant

2. Material handling systems



Conveyor belt, bridges and...

3. Silos



...silos for industrial plants.

4. Material and assembly list, 3d model

COMPUTO MATERIALIE SEZIONI

ELEMENTO FINITO TRAVE

GRUPPO NUMERO: 1 - MEMBRES SUPERIEURES

Materiali	Cod. Mater.	Sezione	Cod. Sez.	Profilo	lunghezza	Volume	Peso
Acer	1	Fs	3	HEA 200	+7.732+001	+4.1628+001	+3.2664+003
Acer	1	Fs	6	HEA 140	+1.557+002	+4.8202+001	+3.8228+003

GRUPPO NUMERO: 2 - MEMBRES INFERIEURES

Materiali	Cod. Mater.	Sezione	Cod. Sez.	Profilo	lunghezza	Volume	Peso
Acer	1	Fs	3	HEA 200	+7.744+001	+4.1622+001	+3.2704+003
Acer	1	Fs	6	HEA 140	+1.552+002	+4.873+001	+3.8228+003
Acer	1	Fs	10	HEA 130	+3.458+002	+8.8228+001	+6.9328+003

GRUPPO NUMERO: 3 - MONTANTS

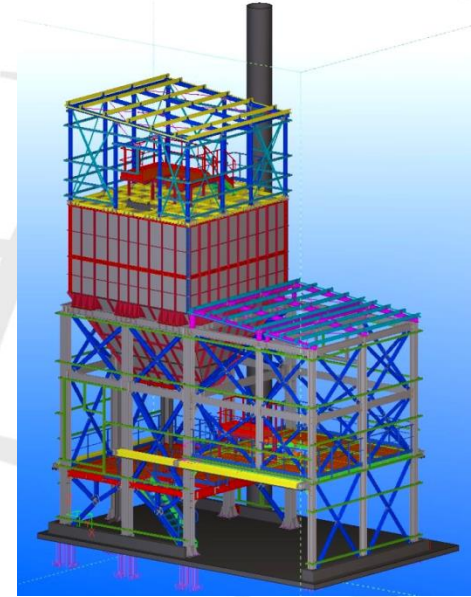
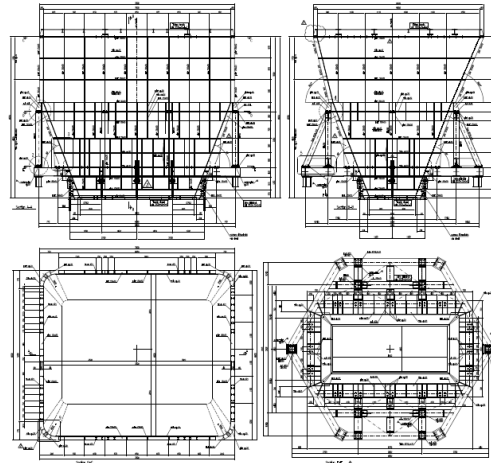
Materiali	Cod. Mater.	Sezione	Cod. Sez.	Profilo	lunghezza	Volume	Peso
Acer	1	Fs	1	HEB 200	+1.325+001	+1.9528+001	+1.2274+003
Acer	1	Fs	2	UP P 100	+9.620+001	+1.2292+001	+1.0714+003
Acer	1	Fs	17	UP P 80	+1.200+001	+1.3202+002	+1.0284+002
Acer	1	Fs	19	HEB 220	+1.324+001	+1.2058+001	+9.4584+002
Acer	1	Fs	22	HEB 220	+1.408+001	+1.2628+001	+1.0074+003
Acer	1	Fs	24	HEB 220	+1.324+001	+1.2058+001	+9.4584+002
Acer	1	Fs	28	HEB 220	+1.416+001	+1.2292+001	+1.0124+003
Acer	1	Fs	38	UP P 80	+2.880+002	+3.1628+001	+2.4874+003
Acer	1	Fs	40	UP P 120	+4.800+001	+8.1628+002	+6.4064+002

GRUPPO NUMERO: 4 - TRAVERSES INFERIEURES

Materiali	Cod. Mater.	Sezione	Cod. Sez.	Profilo	lunghezza	Volume	Peso
Acer	1	Fs	6	HEA 140	+1.610+002	+5.0558+001	+3.9684+003

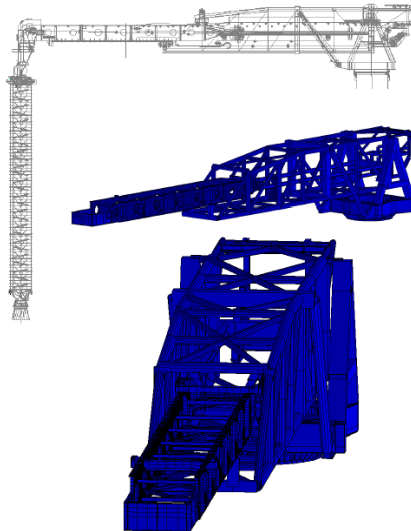
GRUPPO NUMERO: 5 - DIAGONALS INFERIEURES

Materiali	Cod. Mater.	Sezione	Cod. Sez.	Profilo	lunghezza	Volume	Peso
Acer	1	Fs	7	L 70x 7	+2.272+002	+2.1368+001	+1.8716+003
Acer	1	Fs	18	L 80x 8	+1.257+002	+8.8828+002	+6.8164+002
Acer	1	Fs	34	L 80x 8	+1.800+001	+2.224+002	+1.7464+002



PLANIA can provide construction material lists and shop drawings.

5. Loading systems



PLANIA also works in partnership with Sammi Srl for studying loading systems.

LANDSCAPE PLANNING

PLANIA offer a complete array of land planning services ranging from due diligence and master planning to detailed site design.

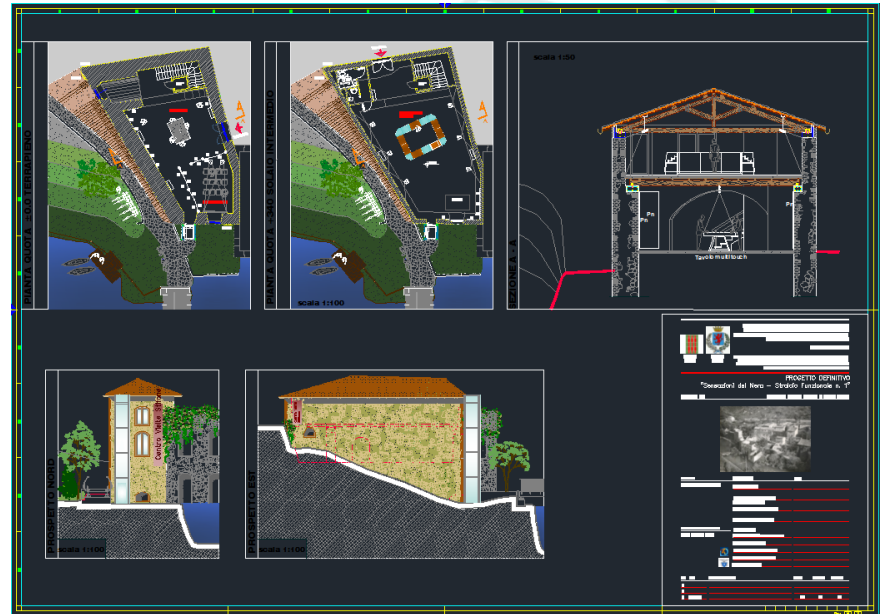
ENVIRONMENTAL ENGINEERING

PLANIA provides early feasibility analyses in conjunction with concept planning and results in designs that can be successfully executed in the real world.

The Landscape Architecture and Drafting Services provided include: master planning, site planning and design, site analysis and evaluation, project management, cost estimation.

2. Landscape planning

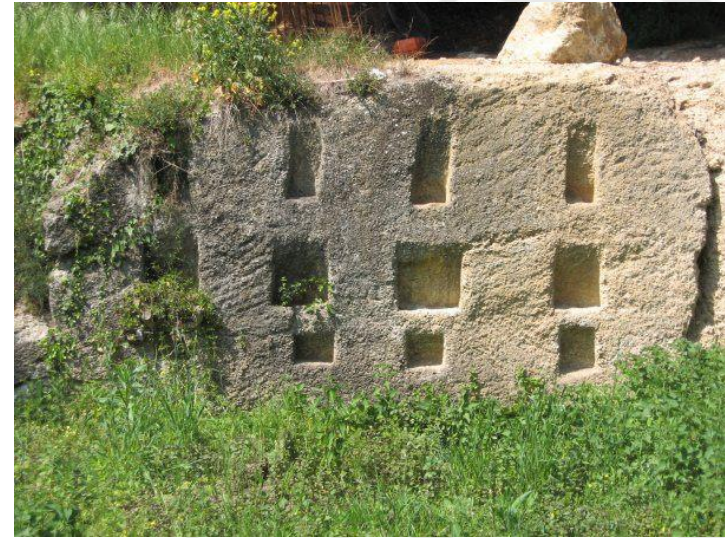
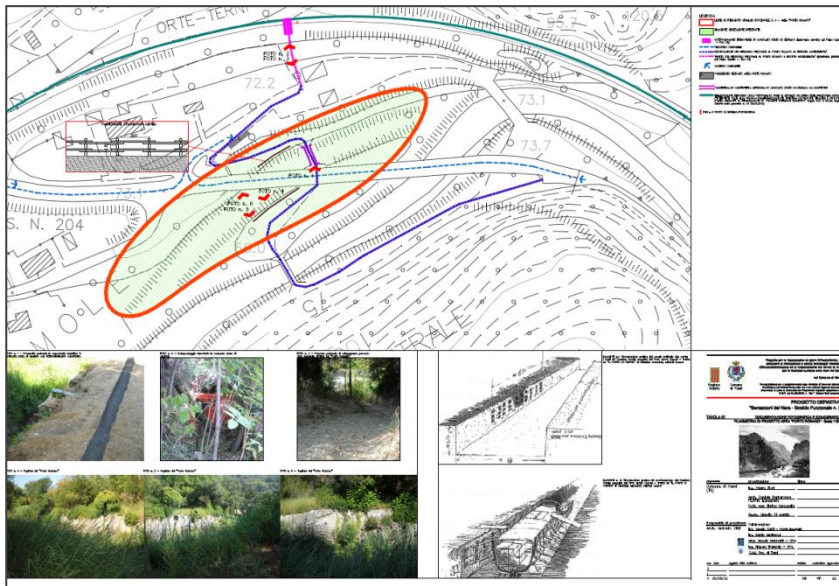
First functional step.



Gorges of “Nera” river requalification: projections centre; tourist reception centre; trekking and rafting services.

3. Landscape planning

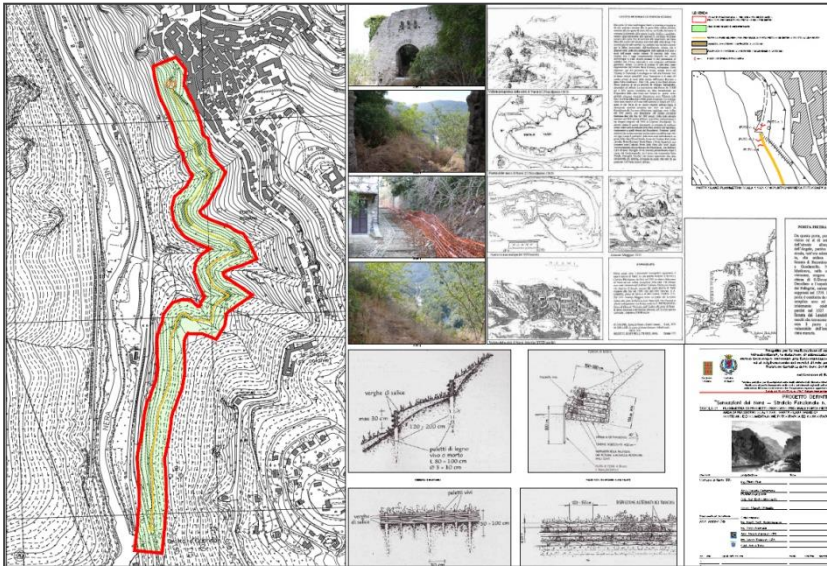
Second functional step.



Retraining and safety implementation of
“Roman Shipyard”

4. Environmental engineering

Third functional step.



Natural paths requalification

ROADS ENGINEERING

CAR PARKS

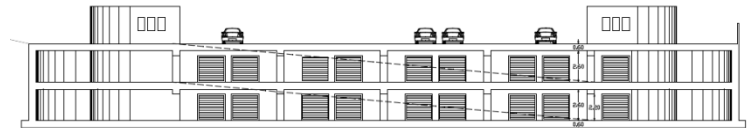
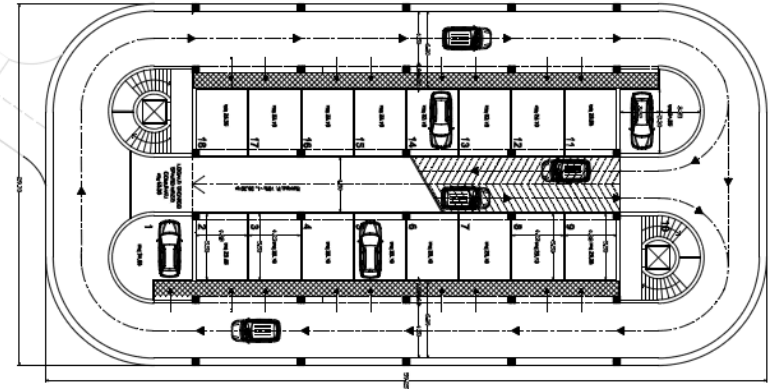
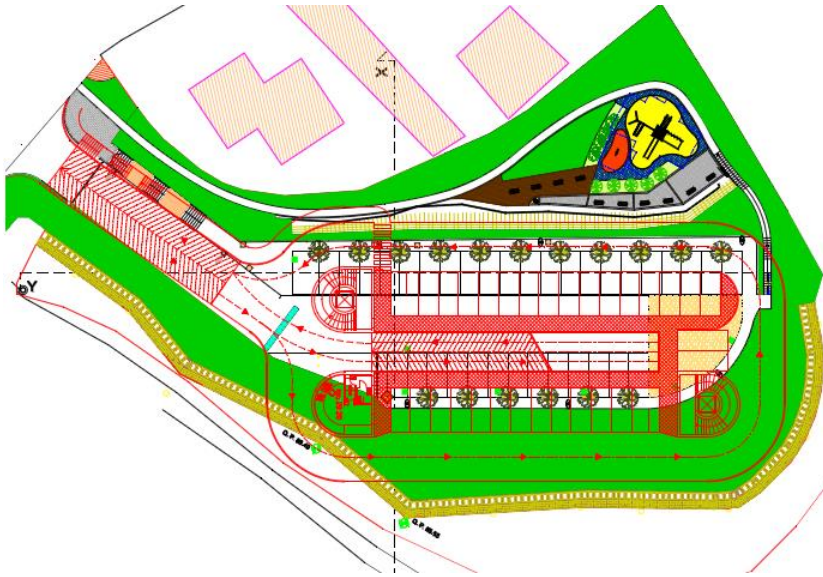
CIVIC BUILDINGS

PLANIA Ingegneria provides the following engineering services:

Design: study and development activities aimed at the dimensional and functional definition of the procedures necessary for construction of an infrastructure in its entirety

Works Supervision: activities for the technical-accountancy and administrative coordination, supervision and control for execution of an infrastructure project, in compliance with the contractual commitments assumed by a contractor with a contracting authority

3. Car parks



Feasibility study of a multi storey car park

5. Civic Buildings



Technical assistance in yard by eng. Sarti Angelo, technical director of PLANIA Ingegneria

BUILDING DESIGN

We create comprehensive drawings that aid builders, contractors, and other such people involved in construction with sequential data helpful in construction process

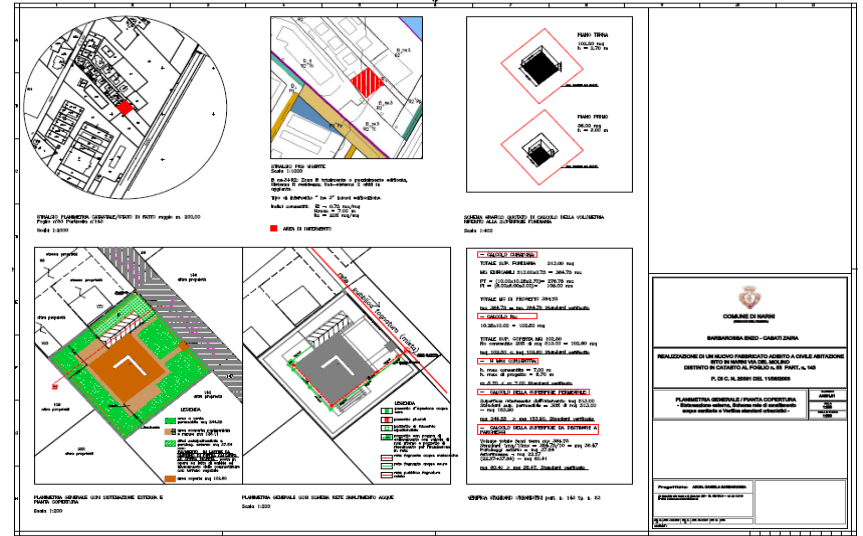
FUNCTIONAL DISTRIBUTION DESIGN

Our distribution designing services help Client beautify their building architectures and enhance value of their constructions.

INTERIOR DESIGN AND RENDER

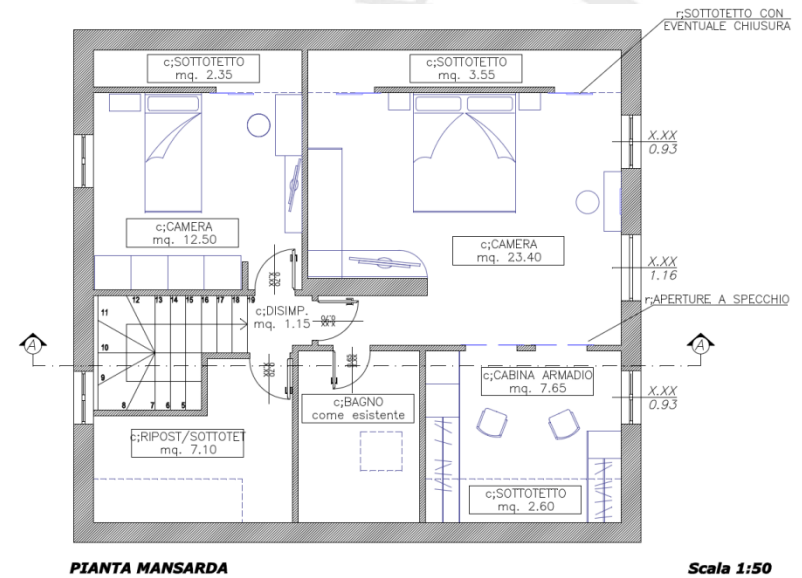
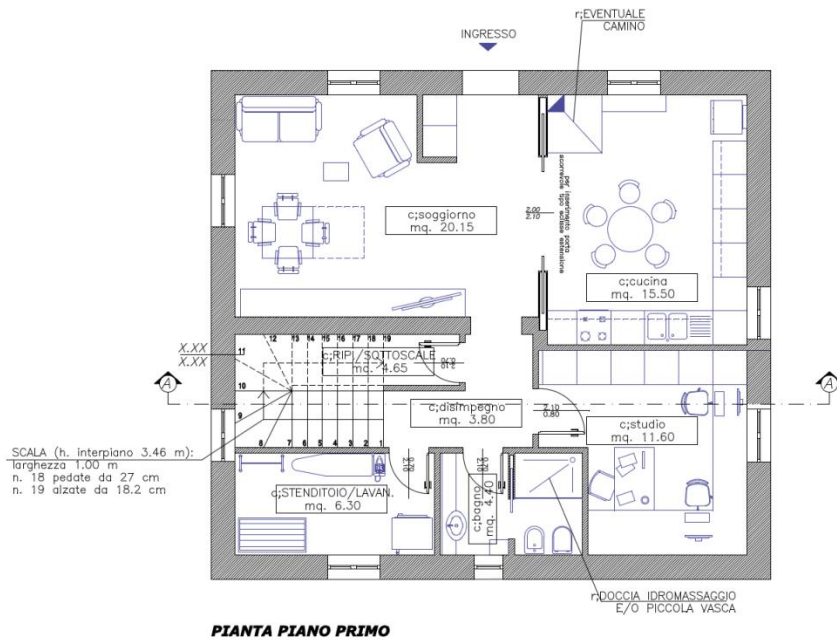
3D models gives detailed visualizations of buildings with intricate details of texturing and light elements for commercial, residential or industrial structures

1. Building design



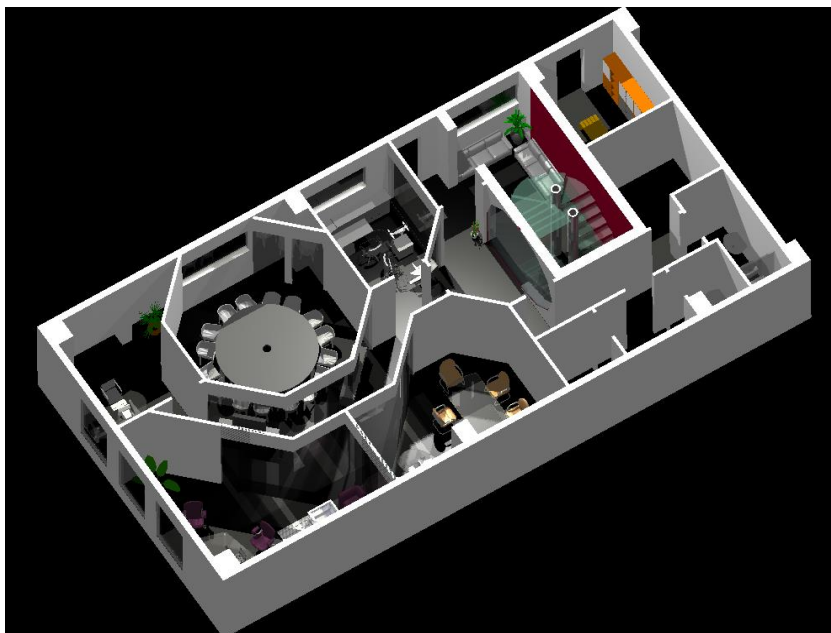
Site master plan

2. Functional Distribution Design



Home living spaces distribution

4. Interior design and render



5. Interior design and render





PLANIA Ingegneria Srl

Via del Parco, 26 - 05035 Narni Scalo (Terni) – ITALY

Ing. Angelo Sarti

Technical Director

Tel. +39.0744.733135

Fax +39.0744.737406

P.IVA: 01478780552

MAIL: plania@plania.it



SAMMI Srl

Via Tuderte, 388 - 05035 Narni Scalo (Terni) – ITALY

Mr. Floriano Bussetti

General Director

floriano.bussetti@sammi.it

Mr. Mirko Sbrenna

Sales Manager

Mirko.sbrenna@sammi.it

www.plania.it



PLANIA

Ingegneria

Planning, Engineering, Environment and Territory