

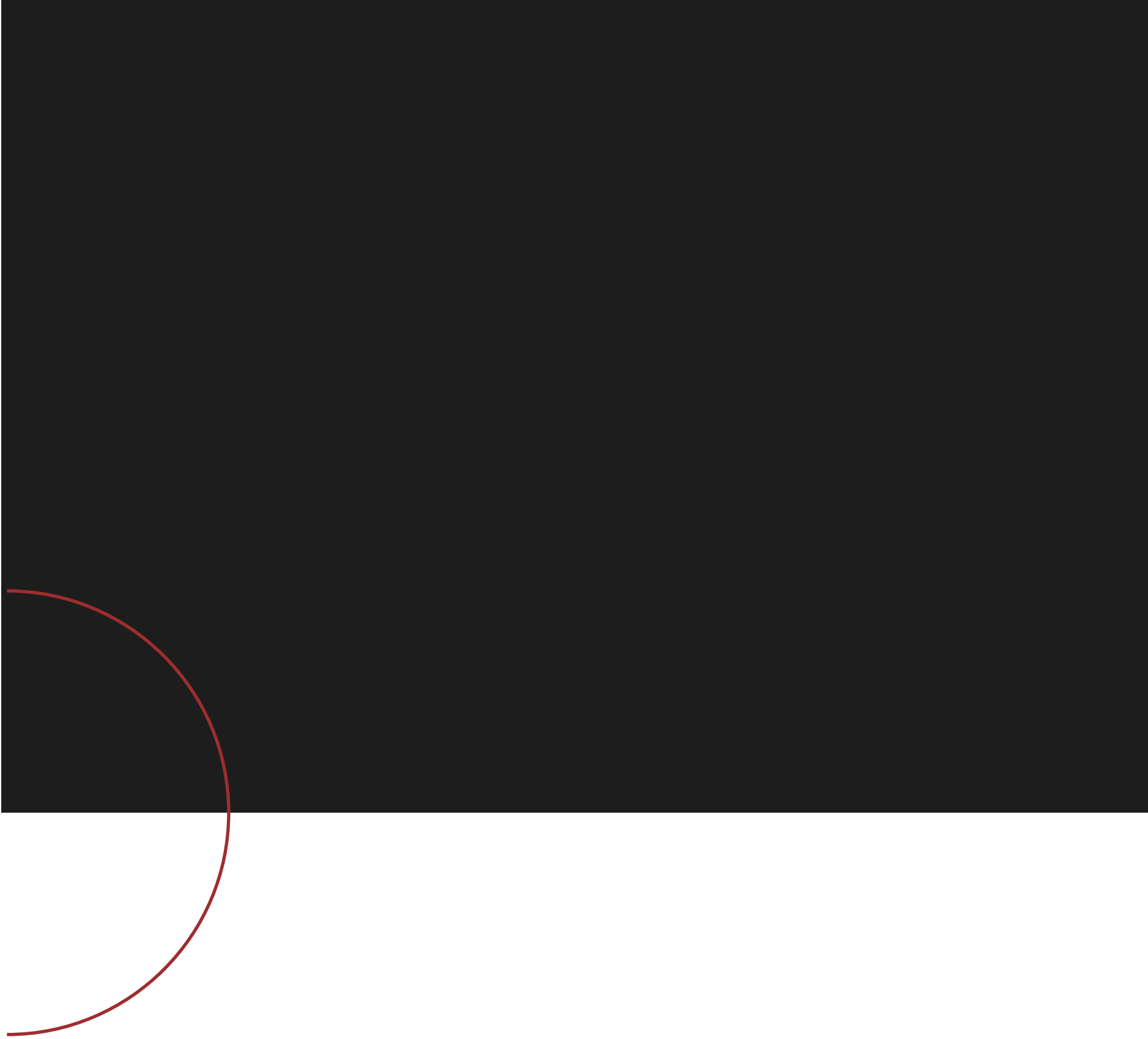


Riio

DIGITAL PLANNING

BELIEVE IN RISING INNOVATION

ROME - MILAN



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■ ABOUT

Rilo Digital Planning provides engineering services with high technological and innovative content, directed at private clients and entities with the aim of analyzing and enhancing the best technological solutions linked to the world of construction and industry 4.0. Rilo Digital Planning is active between Rome and Milan.

OUR STORY

Rilo Digital Planning was born in 2018 as an engineering and architectural firm characterized by a strong belief in technological innovation.

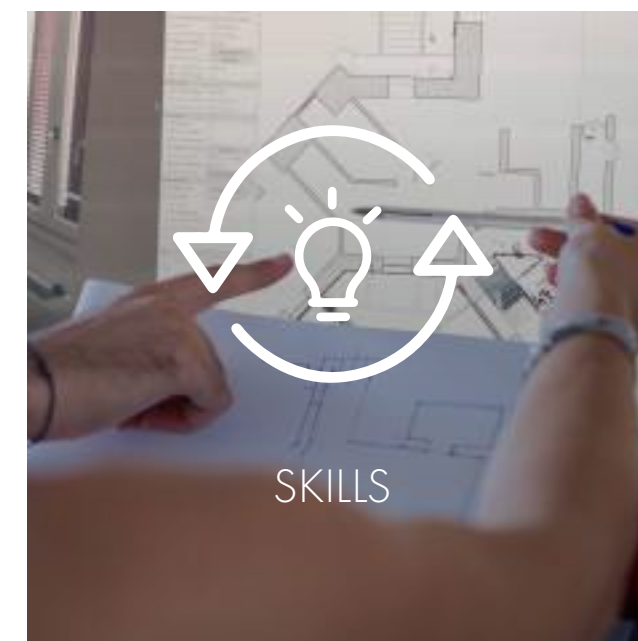
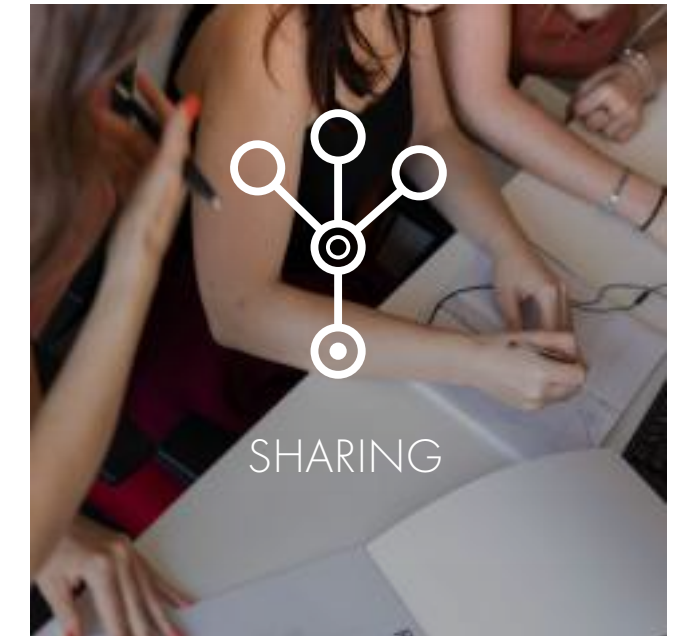
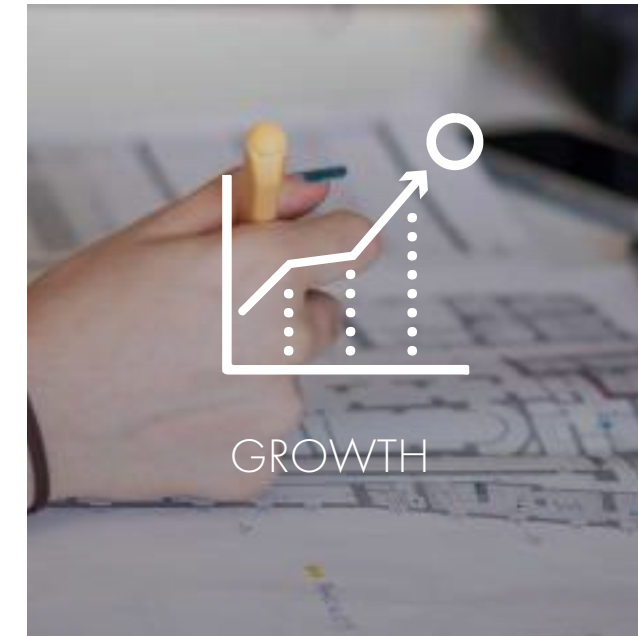
The approached methodology considers the use of digital tools as one of the founding principles to face and solve the technical and managerial problems of traditional processes involved in both the design and management spheres.

■ ABOUT

OUR VALUES

Rilo Digital Planning finds perfect synthesis in a dynamic environment where engineering expertise and innovation technology live together, emphasizing the potential of the new digital process. One of our principal aims is to be recognized as promotor of new ideas, focusing on projecting them in order to make them concrete.

Rilo Digital Planning creates an environment made of individuals who share the same desire of professional growth in an innovative context.



■ ABOUT

OUR GROWING ACHIEVEMENTS

+

>1000 K

SQUARE METERS OF
BUILDING MADE DIGITAL

+

>100 K

SQUARE METERS OF
BUILDING MANAGED WITH
DIGITAL TECHNOLOGIES

+

>40 MLN

AMOUNT OF MEP
SYSTEMS DESIGNED

■ ABOUT

OUR TEAM

+160%

Team Growth
over the past year

18

ENGINEERS

4

ARCHITECTS

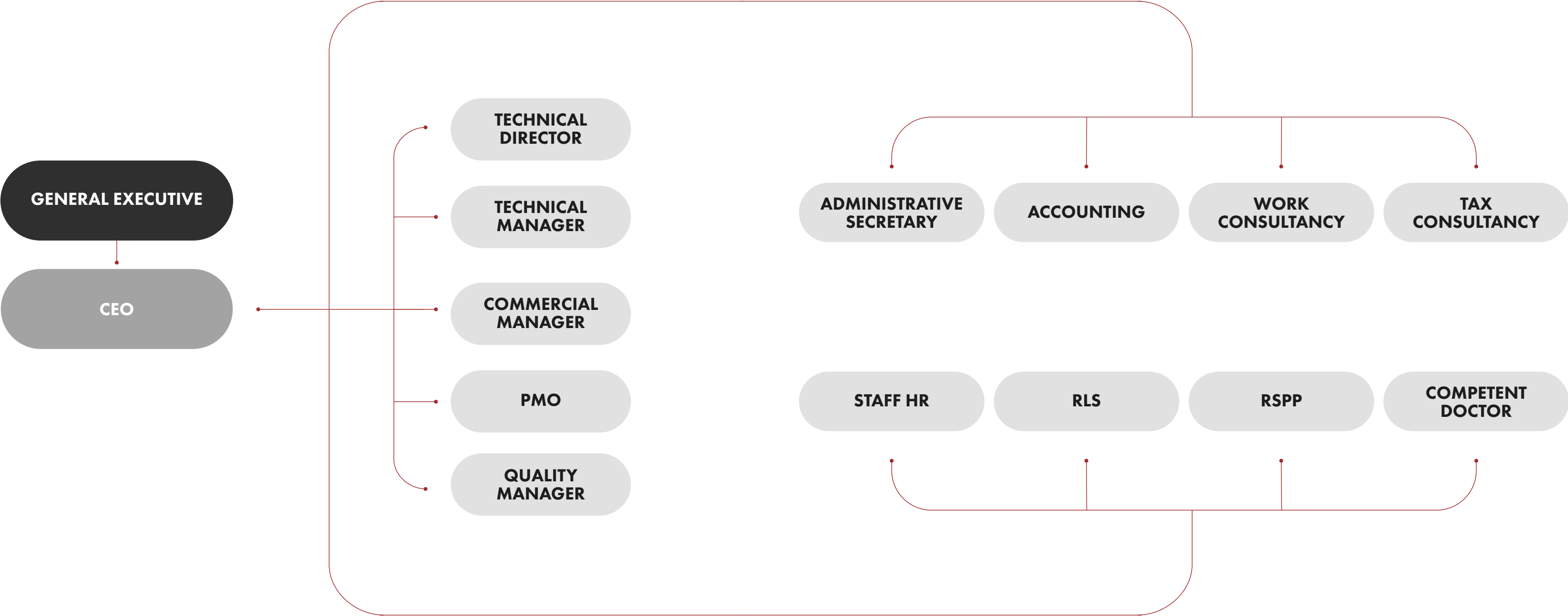
53%

WOMEN

47%

MEN

ORGANIZATION CHART





.BUSINESS UNITS



DESIGN & CONSTRUCTION

Mechanical system | Electrical system | Buildings



DIGITAL FOR REAL ESTATE

Project Management | Facility Management | Modeling & Survey



ENERGY & SUSTAINABILITY

Leed | Well | Wiredscore



RESEARCH AND DEVELOPMENT



■ BUSINESS UNITS

DESIGN & CONSTRUCTION

MECHANICAL SYSTEM

Design of plant systems in all levels of the design and building process.



ELECTRICAL SYSTEM

Design of electrical components within civil construction.



CONSTRUCTION

Design and development of the building and architectural systems integrated with components.



CONSTRUCTION MANAGEMENT

Supervision of complex construction processes and compliance with design criteria through innovative management.



CONSTRUCTION SITE SIMULATIONS

Virtual reproduction of the construction system aimed towards the analysis and feasibility of the construction.



BUILDING INFORMATION MODELLING

Use of digital BIM methodologies and computational techniques for the development and control of the design process.





■ BUSINESS UNITS

DIGITAL FOR REAL ESTATE

di.RE is one of the business units of Rilo Digital Planning that is responsible for bringing technological innovation to the Real Estate sphere, that one most involved in investments for bringing its facilities to maximum performance.

Rilo Digital Planning has developed an articulated approach in the different phases of the management process, able to respond to the needs of the sector.

- **di.PM** PROJECT MANAGEMENT
- **di.FM** FACILITY MANAGEMENT
- **di.DD** DIGITAL DUE DILIGENCE

POINT CLOUD SURVEYS

Through 3D laser scanning technology, it is possible to automatically acquire three-dimensional coordinate points. The generated cloud of points can be used to create digital models of surveyed buildings.



BIM MODELLING

Building Information Modeling (BIM) is a methodology for designing and rendering 3D models. The BIM model can be understood as a digital database of the building, containing both geometric and informational data.



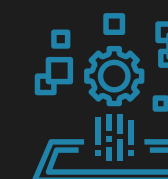
CONSTRUCTION 4.0

Construction 4.0 is an evolution of the traditional construction site that uses digital technologies to improve efficiency and productivity of construction processes. Through process digitalization, it will be possible to access information in real-time, improving work quality and reducing production times.



DIGITAL MAINTENANCE

Digital maintenance refers to an approach that uses digital technologies to manage maintenance processes. Monitoring the operation and consumption of systems allows for reducing equipment downtime and improving efficiency, control, and quality of maintenance activities.





■ BUSINESS UNITS

ENERGY & SUSTAINABILITY

Rilo Digital Planning deals with energy and sustainability within real estate. Design issues and construction processes are guided by technical awareness and knowledge of energy processes.

Professional commitment is embodied in numerous experiences in the certification processes according to the international and environmental protocols most widespread both in the design phases and in site management.



WiredScore AP

CERTIFICATION PROTOCOLS

Consulting and support for the process of certification both in the design phase and during the construction phase.



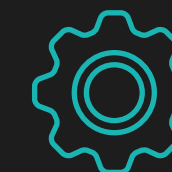
ENERGY SIMULATIONS

Prediction of energy behavior through dynamic simulation on digital model assessment and renovation strategy aimed at energy savings.



ASSESSMENTS AND DIAGNOSIS

Technical and economic assessment and renovation strategy aimed at energy savings.



ENERGY UPGRADES

Technical engineering and architectural development for energy and regulatory compliance.





■ BUSINESS UNITS

RESEARCH & DEVELOPMENT

Rilo Digital Planning invests about 10% of its resources every year towards further research and development.

Topics include the principles of analytical and statistical computation, data processing in BIM models as well as the installation of sensors connected with dynamic monitoring and regulatory systems.

ARTIFICIAL INTELLIGENCE

Data analysis for automated process.



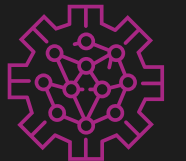
PREDICTIVE COMPUTING

To ensure maximum functionality and maintainability.



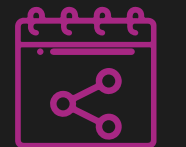
BLOCKCHAIN E IOT

Information and data connected to the internet.



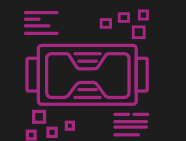
EVENTS AND CONFERENCES

Sharing and participating in the most important industry events.



VIRTUAL REALITY

Simulated reality for reliable vision and remote accessibility.



PUBLICATIONS

Research and publication of the notions developed in the main scientific channels.

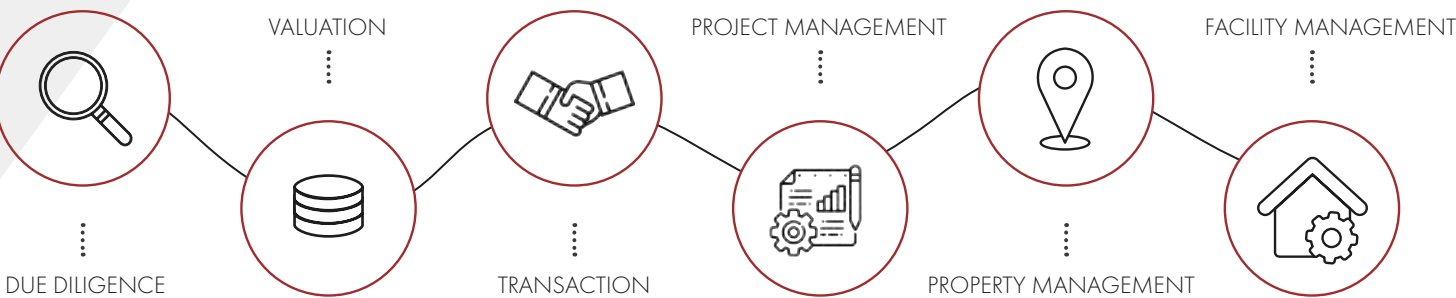


■ REAL ESTATE 4.0

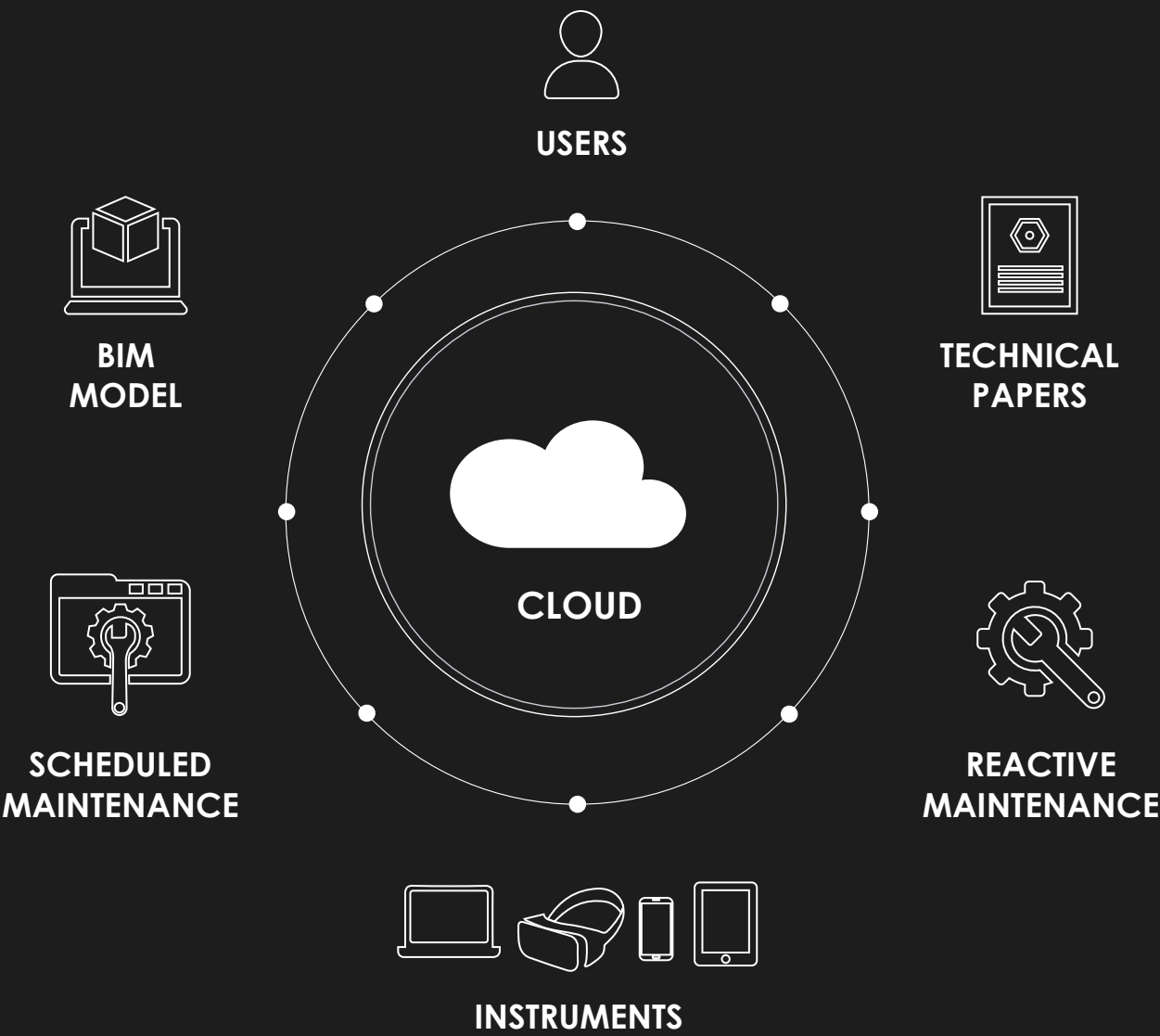
The digital revolution in real estate

BIM (Building Information Modeling) allows to constitute in a single space a digital database of the building, aimed at the management and optimization of resources related to the entire life cycle of the building.

The use of a digital approach to managing real estate, allows to optimize time and costs in the property operation phase.
The best cost-benefit ratio is consequently obtained when it is possible to use the digital innovation investment over the whole building process.



The adoption of cloud-based tools allows remote use, visualization of geometric data including virtual reality and consultation and managing of static data.





■ REAL ESTATE 4.0

DIGITAL SURVEY

Laser scanning surveying is an advanced technology that allows for:

- Extremely precise and detailed acquisition of the characteristics of a building or structure
- Automatic detection of all the geometries and shapes of the building
- Collection of data on measurements, distances, heights, as well as the presence of any lesions or deformations

Laser scanning surveying generates a "point cloud," which is a set of millions of digital points that represent the surface of the surveyed building or structure. With the point cloud, a complete picture of the situation can be obtained, any risks can be assessed, and the best intervention strategies can be defined. Subsequently, an extremely detailed and precise 3D model is created, which can be used for structural analysis and to design renovation or regulatory compliance interventions.



**LASER
SCANNER**



**DRONE
LASER**

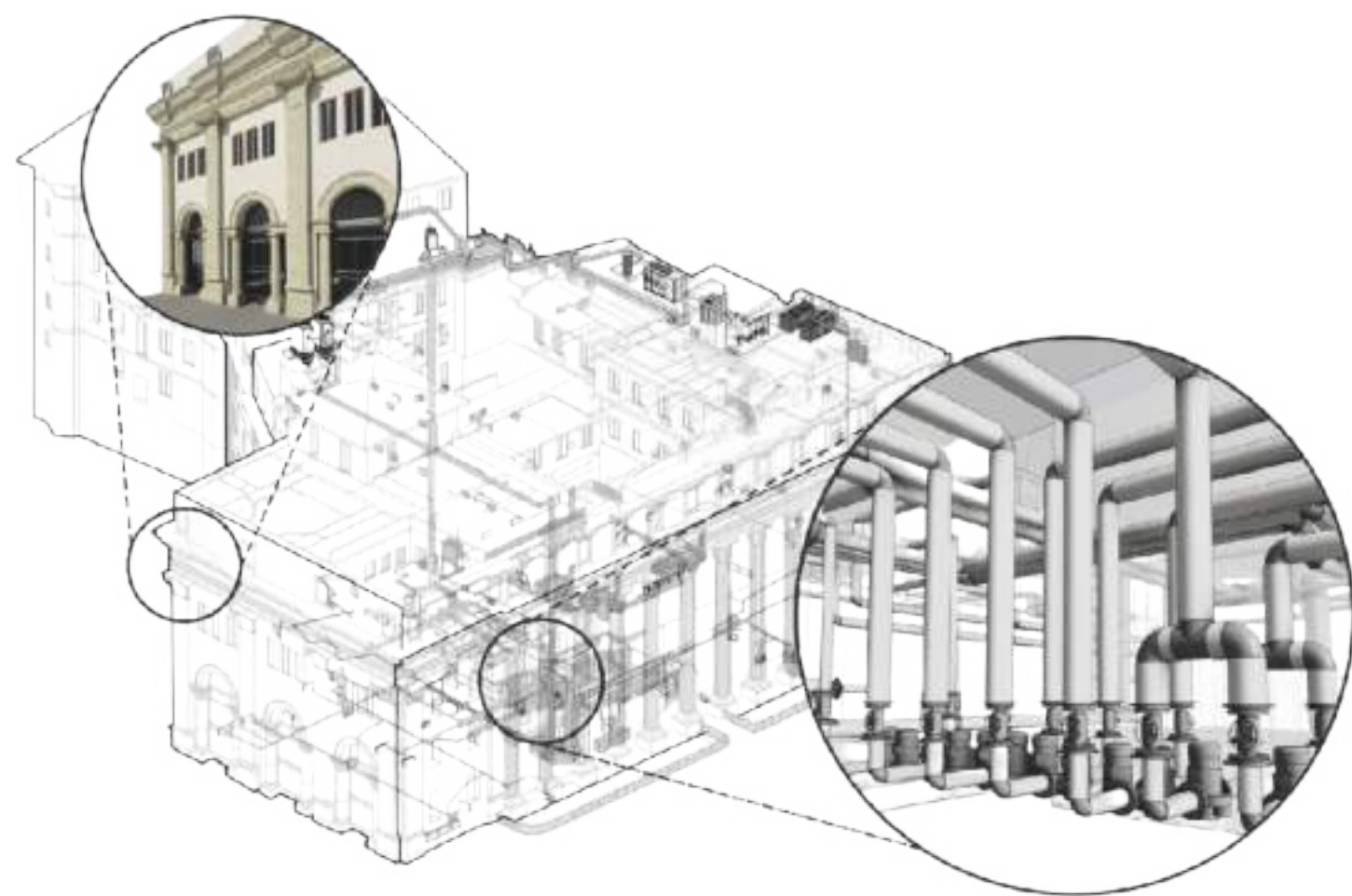


**LASER SCANNER
MOBILE**

■ REAL ESTATE 4.0

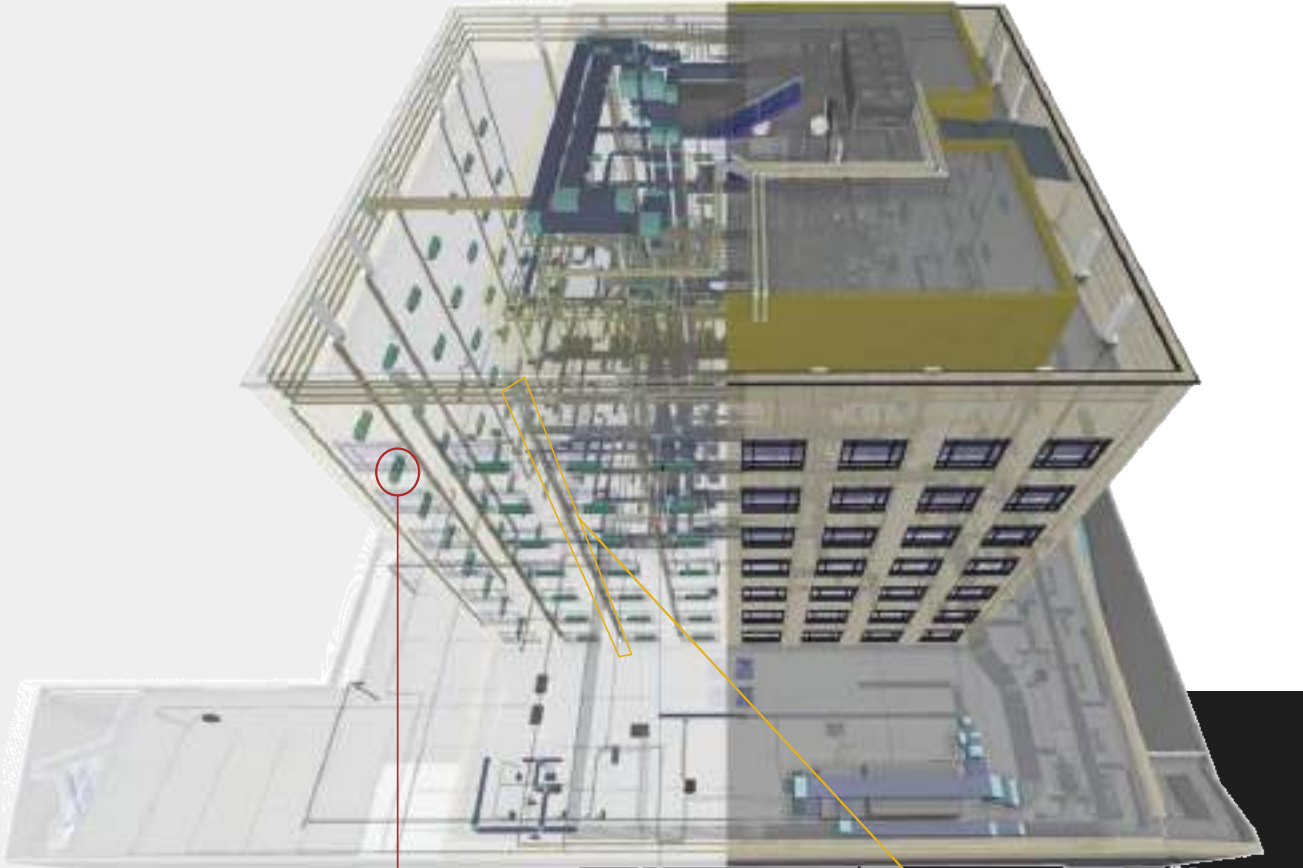
DIGITAL TWIN

Digitalization of the existing building with modeling of geometric components, managed in a custom platform customizable to the needs of the property.



■ REAL ESTATE 4.0

DATA ANALYSIS



Cloud management platform which works as a simple and fast interface that combines the information content of BIM models, enriching them with the information collected during reactive and planned maintenance.

The entire digitalization process results in increased efficiency and control in the totality of the management process. This prevents errors due to the loss of information, documents or data of any kind. Systems are developed to be used with simple tools, such as smartphones and tablets. And this way it is possible to set direct and indirect improvement targets aimed at cost savings and efficiency.

BENEFITS



TRANSPARENCY



EFFICIENCY



CONTROL



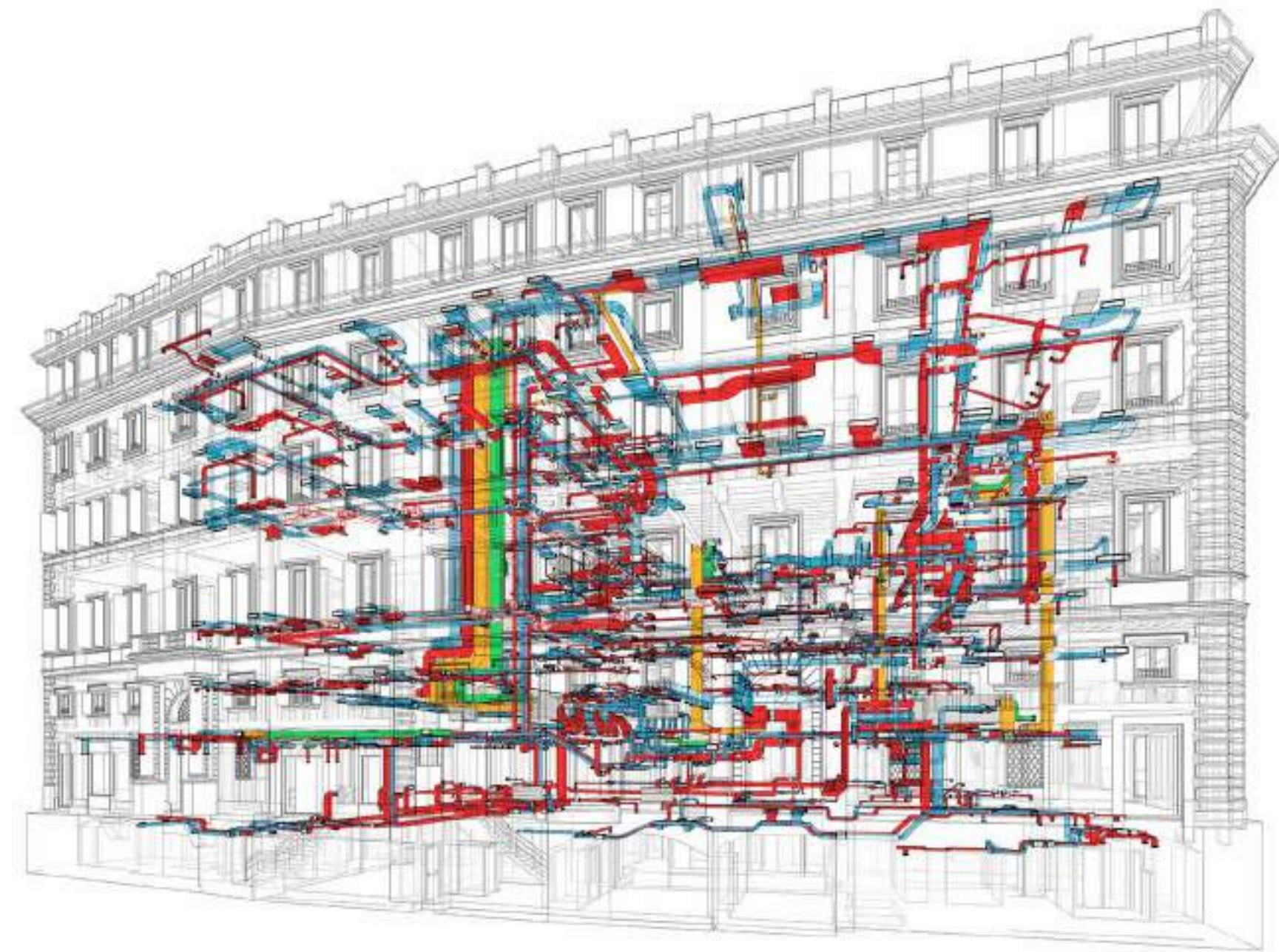
ACCESSIBILITY



■ PORTFOLIO

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GRAND HOTEL DE LA MINERVE - Oriente Express

5 STAR LUXURY HOTEL IN ROME

- Executive Design Mechanical Systems
- Design of Water and Sanitary Systems
- Electrical and Special Systems Design
- Specialist construction management
- Laser Scanner
- BIM Modeling

Surface: 11000 sqm

Location: Roma

Client: Hire Investment





HOTEL SEMINARIO - Orient Express

- Mechanical Systems Design
- Water and Sanitary Systems Design
- Electrical and Special Systems Design
- MEP Construction management

Surface: 2800 sqm

Location: Venice

Client: Devone SpA





HOTEL DONÀ GIOVANNELLI

- Mechanical Systems Design
- Water and Sanitary Systems Design
- Electrical and Special Systems Design
- MEP Construction management

Surface: 4000 sqm
Location: Venice
Client: DevOne SpA





STAZIONE OSTIENSE - Orient Express

- Mechanical Systems Design
- Water and Sanitary Systems Design
- Electrical and Special Systems Design
- MEP Construction management

Surface: 850 sqm
Location: Rome
Client: Arsenale SpA





LUXURY VILLA

- Mechanical Systems Design
- Water and Sanitary Systems Design
- Electrical and Special Systems Design
- MEP Construction management

Surface: 750 sqm
Location: Porto S.Stefano (Tuscany)
Client: Private





WiredScore
GOLD



S2C HEADQUARTER

- Executive Design Mechanical Systems
- Design of Water and Sanitary Systems
- Electrical and Special Systems Design
- Acoustic Design

- LEED Platinum Certification
- WELL Platinum Certification
- WiredScore Gold Certification

Surface: 4000 sqm
Location : Milano
Client: Arkè 3.0





EX BANCO NAPOLI

- Executive Design Mechanical Systems
- Design of Water and Sanitary Systems
- Electrical and Special Systems Design
- Acoustic Design

- Fire safety design
- Specialist construction management

Surface: 2000 sqm
Location: Salerno
Client: R.C.M. Costruzioni

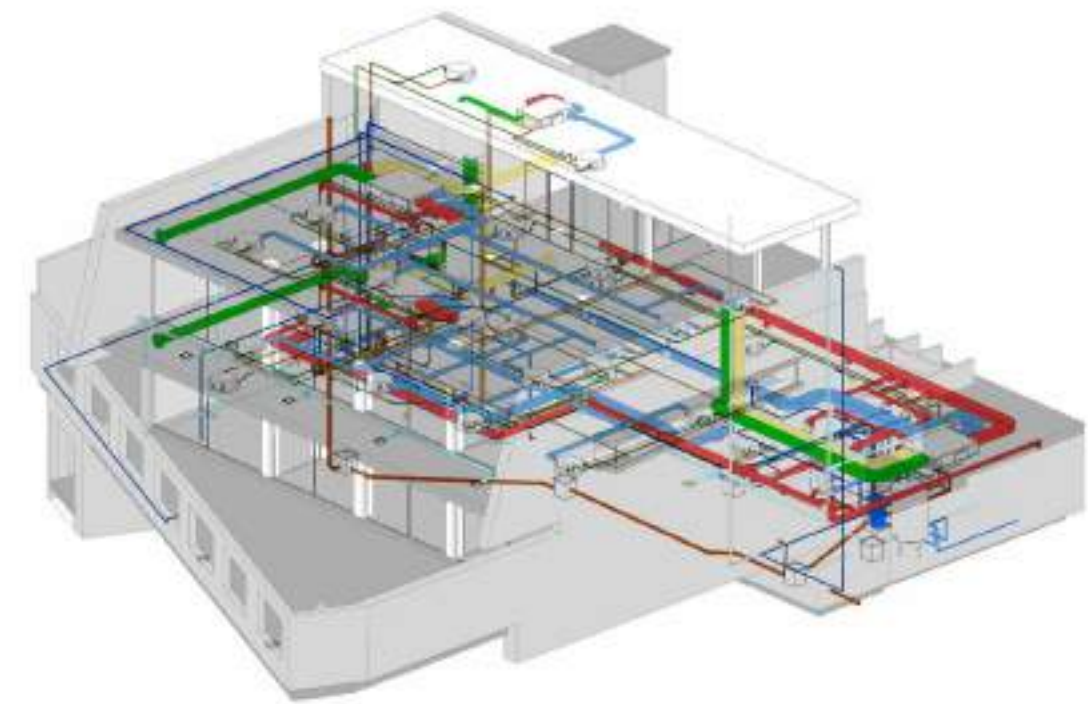




VIA LUCIANI 27

- Executive Design Mechanical Systems
- Design of Water and Sanitary Systems
- Electrical and Special Systems Design
- Acoustic Design
- Fire safety design
- Specialist construction management
- LEED Gold Certification

Surface: 1200 sqm
Location : Roma
Client: Luciani Immobiliare





VIA COMO 39

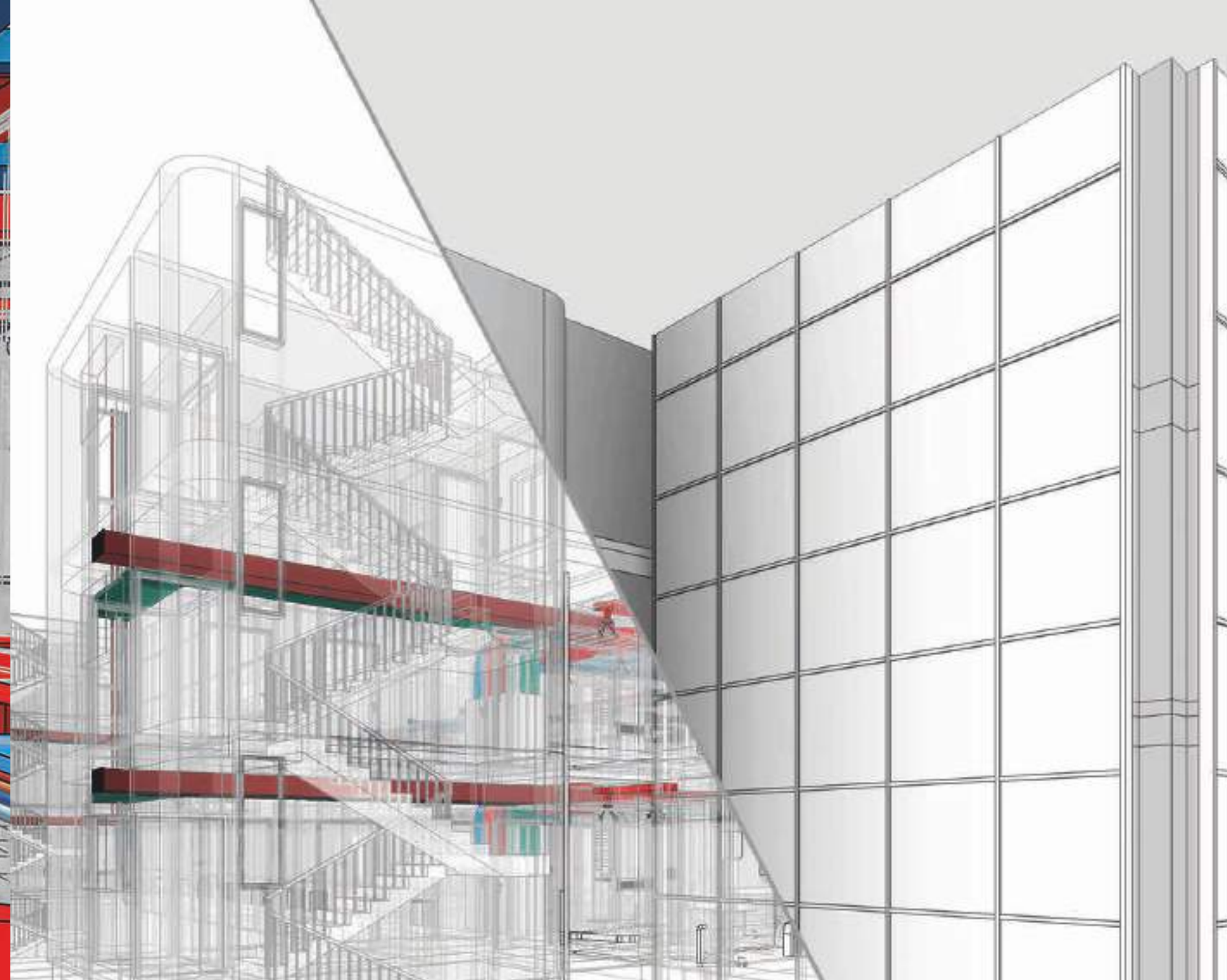
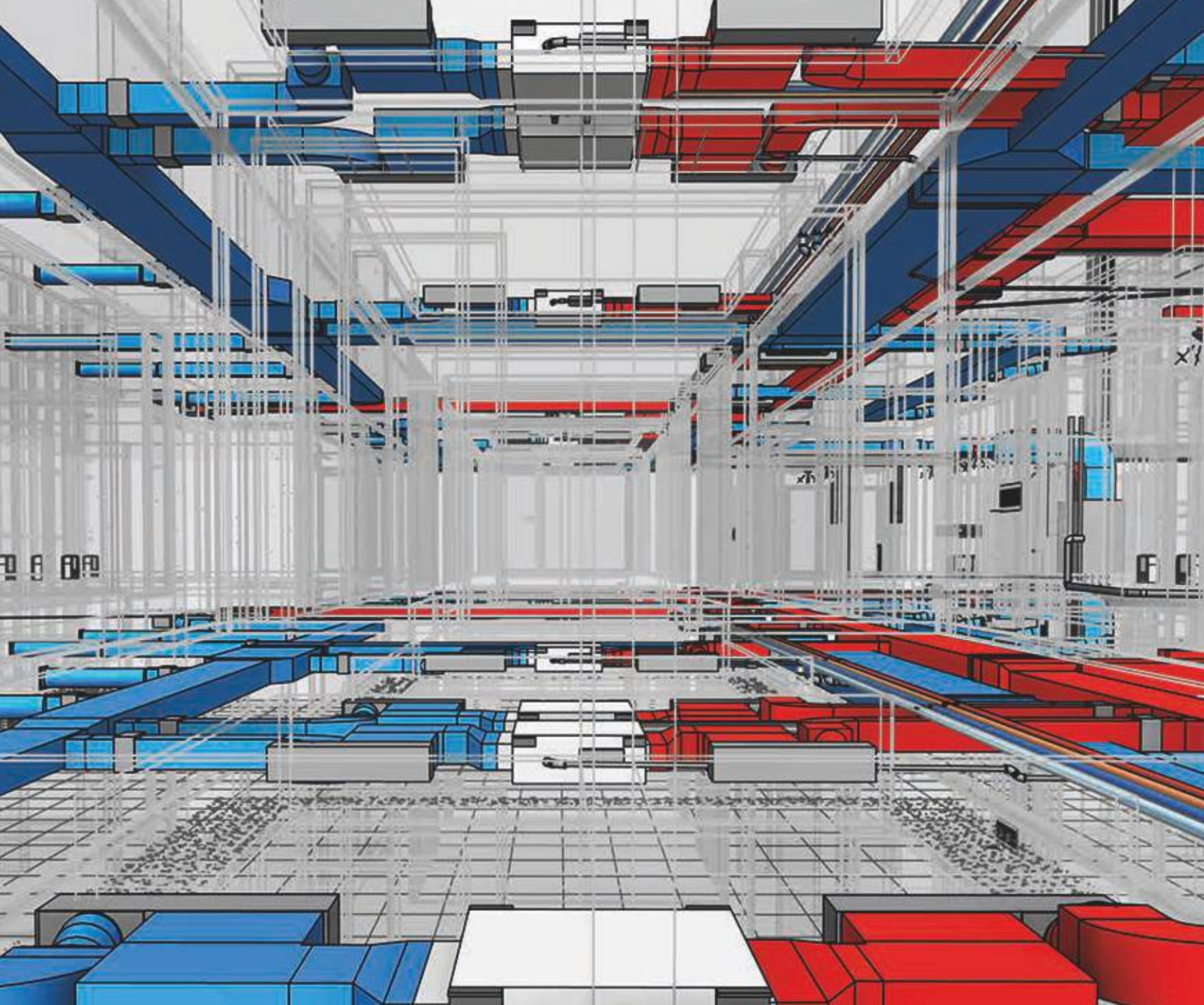
- 3D Laser scanner survey
- BIM model development
- Informational enhancement of the model
- PFTE impianti meccanici e elettrici

Surface: 25236 sqm

Location : Roma

Client: S2C S.p.A.





BUILDING A - MILANOFIORI (ASSAGO)

- Building Design
- Mechanical Design
- Plumbing Design
- Electrical Design

Surface: 4500 sqm
Location: Assago (MI)
Client: Gruppo Yard S.p.A





INDUSTRIAL BUILDING

- Mechanical Design
- Plumbing Design
- Electrical Design

Surface: 730 sqm
Location: Undisclosed
Client: Neosia S.p.A.





BARDANZELLU 8

- Executive Mechanical systems design
- Executive Electrical systems design
- Executive project Architectural
- Site technical direction

Surface: 2000 sqm
Location: Roma
Client: Italia Costruzioni





App Onsite per tablet



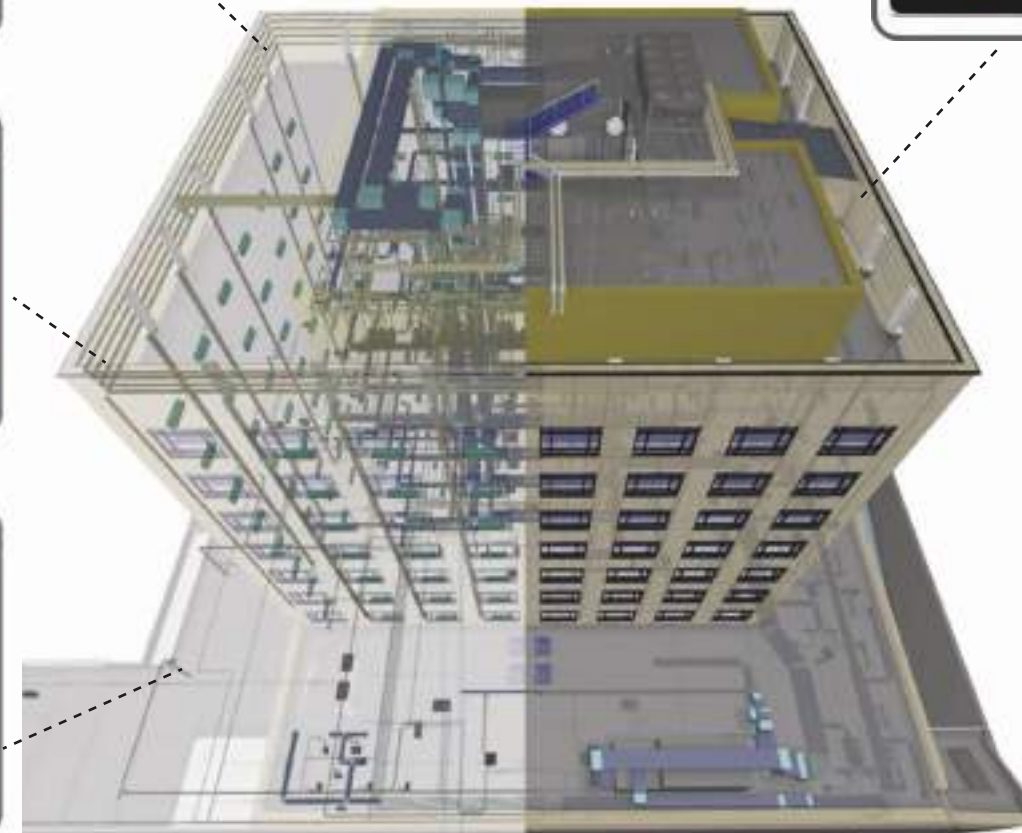
Augmented Reality



Asset Management



Visualizzatore BIM

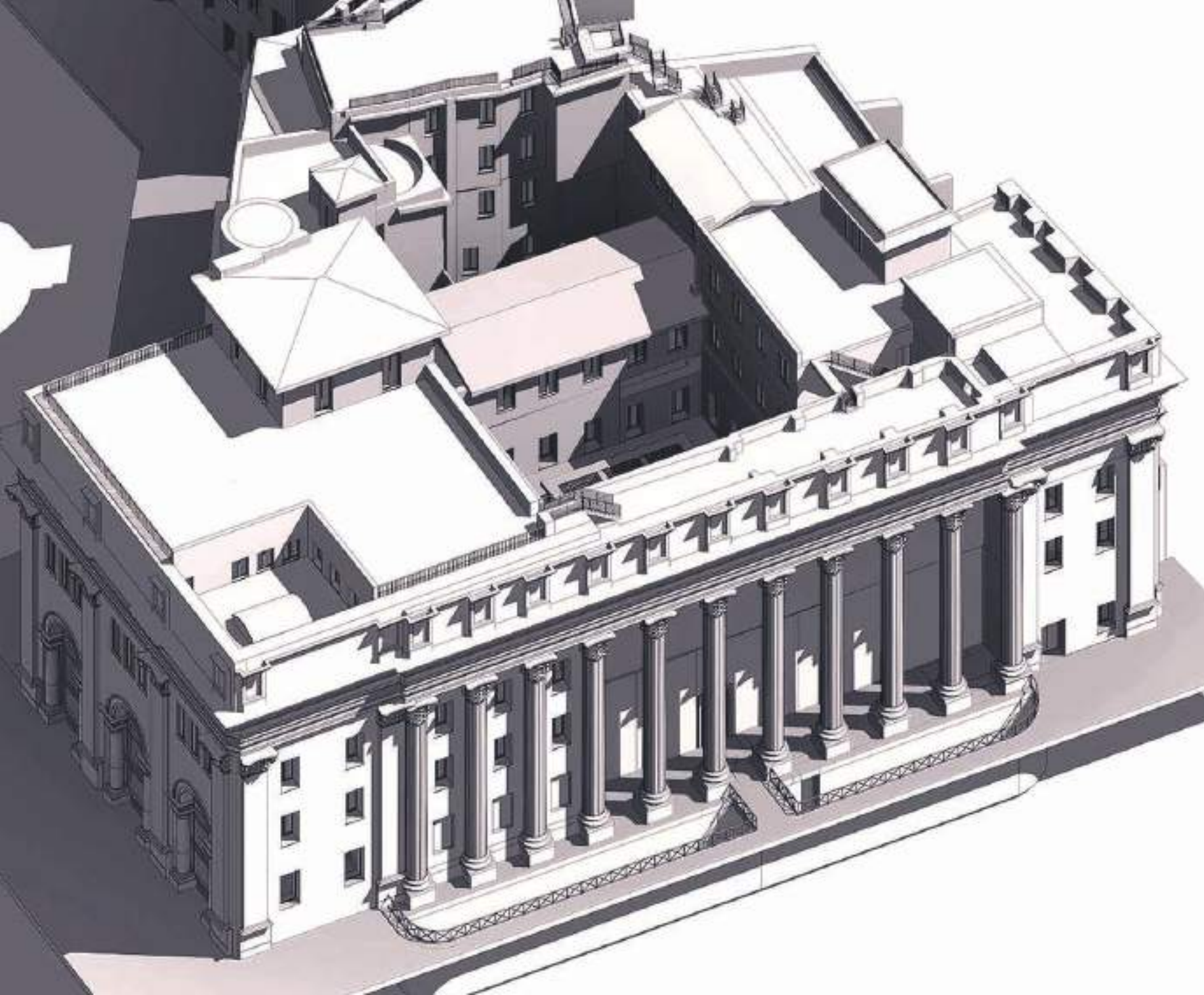


VIALE DELL'OCEANO INDIANO - OFFICES C.C.I.A.A. OF ROME

- Photogrammetric survey
- Digital twin
- Cloud management platform
- Digital maintenance tools

Surface: 11000 sqm
Location: Roma
Client: C.C.I.A.A. of Rome



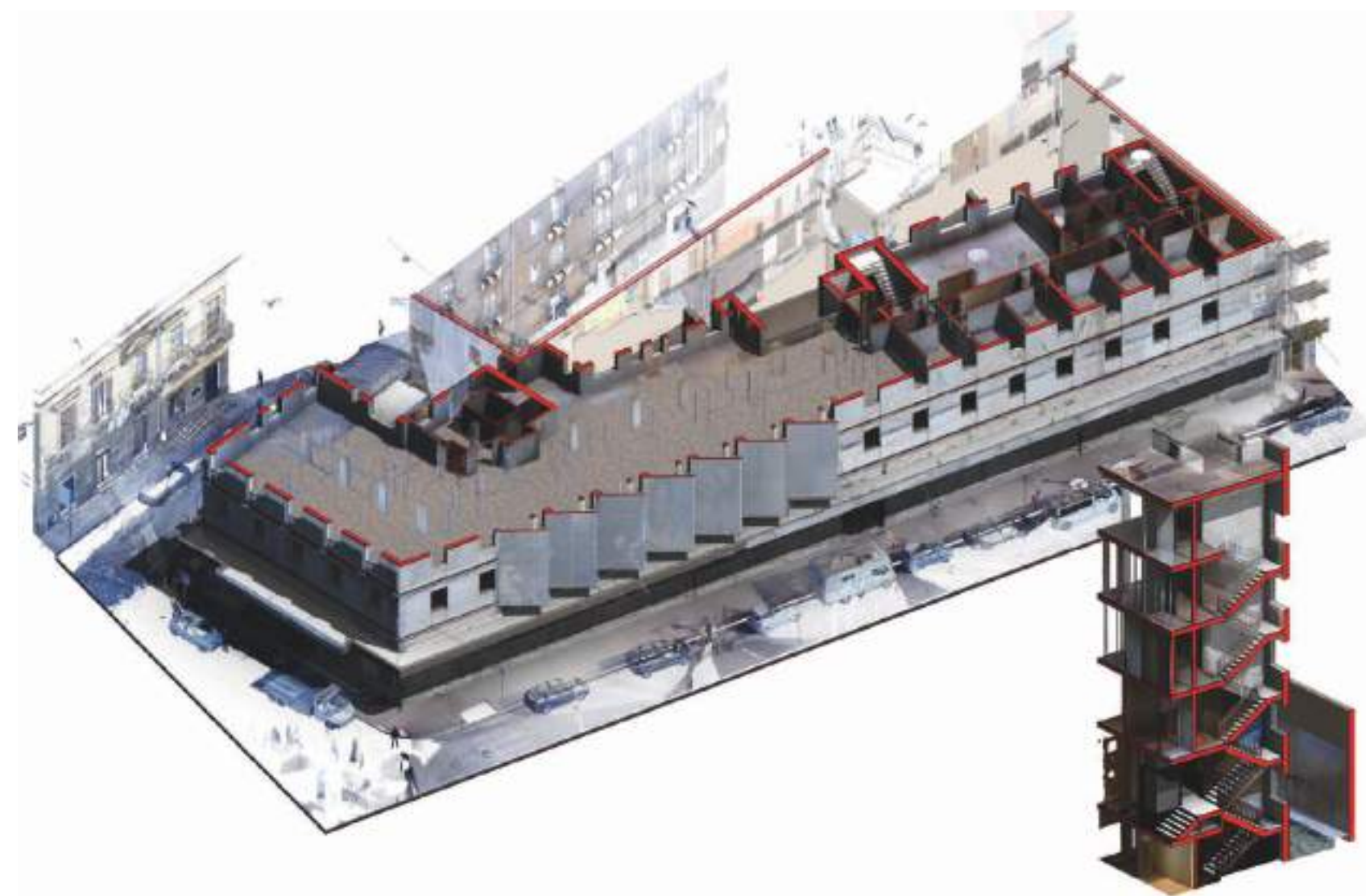


VIA DE' BURRO' - OFFICE HEADQUARTERS C.C.I.A.A. OF ROME

- Geometric survey with point cloud
- Digital twin
- Cloud platform for management
- Digital maintenance tools

Surface: 12000 sqm
Location: Roma
Client: C.C.I.A.A. of Rome





EX ALBERGO SCUOLA

- Due diligence
- 3D laser scanner survey
- BIM model development
- Model enhancement

Surface: 6500 sqm
Location: Siracusa
Client: Private





LOTTO 1 - EMILIA ROMAGNA - CASERMA MEDICINA

- 3D laser scanner survey
- BIM model development
- Informational enhancement of the model

Surface: 814 sqm
Location: Medicina (BO)
Client: Demanio Emilia-Romagna





DEMANIO ROMA CAPITALE - VILLA DORIA PAMPHILI

- 3D laser scanner survey
- BIM model development
- Informational enhancement of the model

Surface: 4275 sqm

Location: Roma

Client: Roma Capitale State Property Office





VIA ACHILLE PAPA 17

- 3D laser scanner survey
- BIM model development
- Informational enhancement of the model

Surface: 25236 sqm
Location: Roma
Client: S2C S.p.A.





HOTEL CURSULA

- LEED Administration
- LEED Technical Administration

Surface: 2600 sqm
Location: Cascia (PG)
Client: Cifolelli Edilizia





NEST SEGRATE

- LEED Technical Administration

Surface: 21000 sqm
Location: Segrate (MI)
Client: HTR Bonifichè S.r.l





BERNINA 7

- Technical site management

Surface: 26749 sqm
Location: Milano
Client: HTR Bonifiche S.r.l





ED.G.E. - EDIFICI GARIBALDI EXECUTIVE

• Wirescore Certification

Surface: 22600 sqm
Location: Milano
Client: Antirion sgr



■ OUR REFERENCES



CBRE

HTRBONIFICHE





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www.linkedin.com/company/rilo-digital-planning

■.CONTACTS