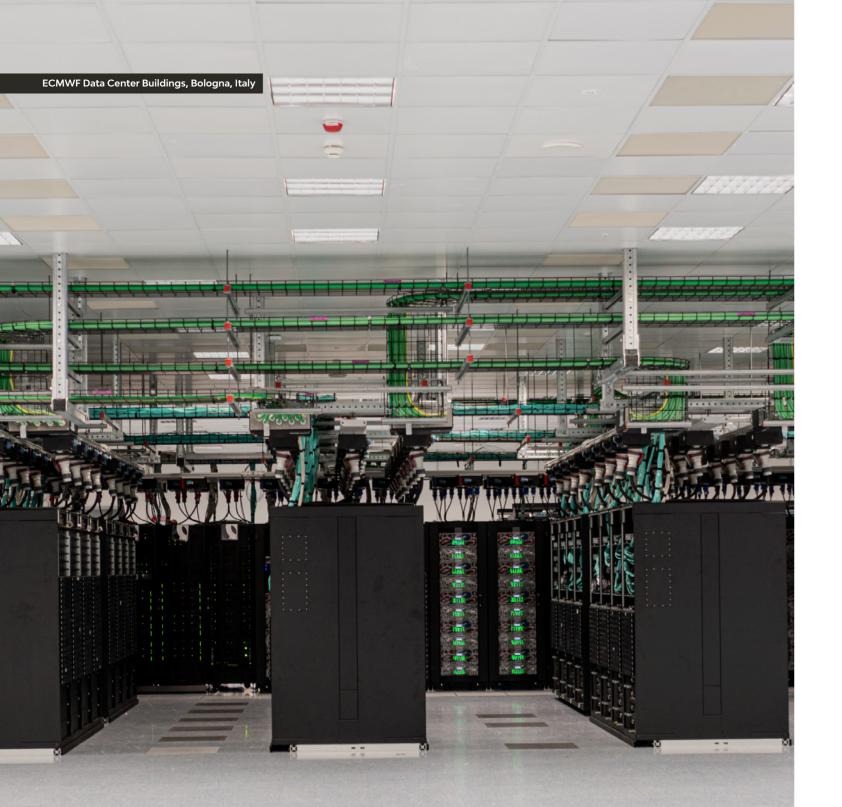


▲ DATA CENTER PORTFOLIO

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WE USE A FLEXIBLE METRIC, CENTERED ON PEOPLE AND FUNCTIONS. SYNTHESIS

PISA MILAN BELGRADE ODENSE COPENHAGEN PARIS GENEVA

TALLINN

▲ PROFILE

Creating a better reality

Architecture, landscape and technology conceived as a source of inspiration and enrichment of everyday life.

ATI Project is an international firm specialized in **integrated** design in the field of architecture and engineering, committed to the development of **sustainable** buildings with a reduced environmental impact.

The studio was established in 2011 by Branko Zrnic and Luca Serri, founders dedicated to research in bioclimatic architecture and renewable energy.

In just over a decade, the **team** has grown from 2 to 350 collaborators.

The initial outline of the office is the same that still drives its growth today: a young, visionary, technological studio that

13



YEARS OF CONSTANT GROWTH

TURNOVER IN EUROS



natively uses BIM to promote multidisciplinarity, as well as innovation and sustainability.

The complexity and number of projects reflect the internationality of the studio, which today, in addition to its headquarters in Pisa, has offices in Milan, Belgrade, Odense, Paris, Copenhagen, Geneva and Tallinn.



INTERNATIONAL OFFICES



1+ Milion of m²

OF COMPLETED OR ONGOING PROJECTS

ATI Project CREATING A BETTER REALITY





▲ DATA CENTER

ECMWF Data Center Buildings

A meteorological centre in Bologna's former tobacco factory

The new ECMWF Data Center, European center for medium-term weather forecasts, is characterized by the high degree of complexity of the intervention, on a global level.

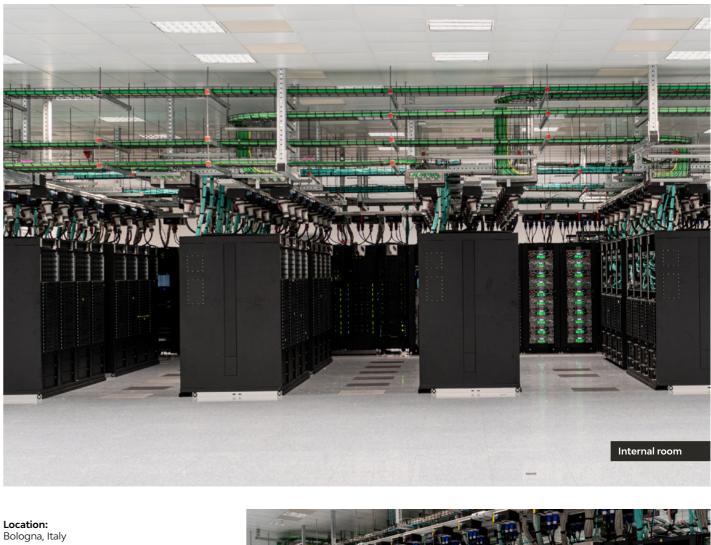
The meteorological center covers an area of about 20.000 square meters and is inserted within a part of the area of the former Tabacchi Factory in Bologna, designed and built by the architect Pier Luigi Nervi in the 1950s and subjected to protection by the Cultural and Landscape Heritage of Emilia-Romagna for its high historical and engineering value.

The need therefore consisted in refunctionalizing part of the existing complex by creating a complex

infrastructure to establish the data center and - at the same time interacting respectfully with the preexisting architectural context.

Function and conservation find their synthesis through the advanced use of BIM, which accompanied the project management throughout the construction phase and for all disciplines, up to the development of the as built.

This methodology becomes the starting point for an **optimized management** of the structure, a need increasingly aimed at the **sustainability** of the complex and the **safeguarding** of an architecture created by an internationally renowned designer.



Typology: Renovation

Year: 2018 - 2022

Status: Design & construction completed

Budget: € 42.8 mln (IT technologies not included)

Dimensions: Approx. 17.000 sqm project surface, 9.000 sqm building surface

Client: RTP Frimat - Site - Gianni Benvenuto

Activities: Constructive BIM Design and Project Management, including Cloud point survey, shop drawings and As built

Credits:

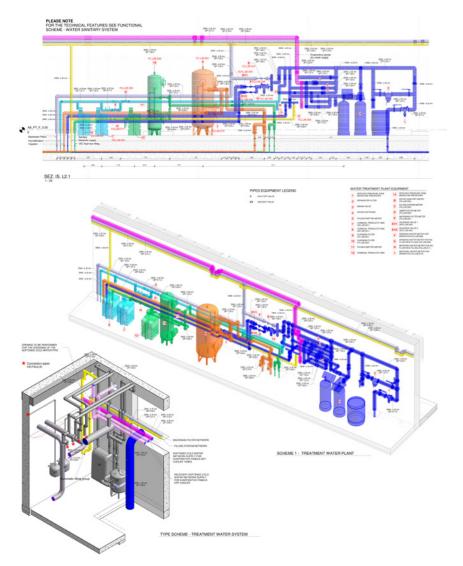
Architectural Design and Coordination: GMP Architekten Von Gerkan, Marg and Partner Plants Design: Studio T Structural Design: Werner Sobek Stuttgart Landscape: LAND Italia



Ground floor plan - Buildings B2 & B3



MEP details



Photos

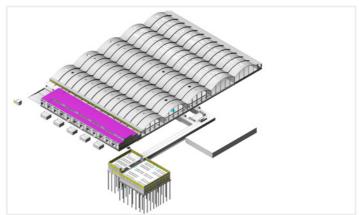


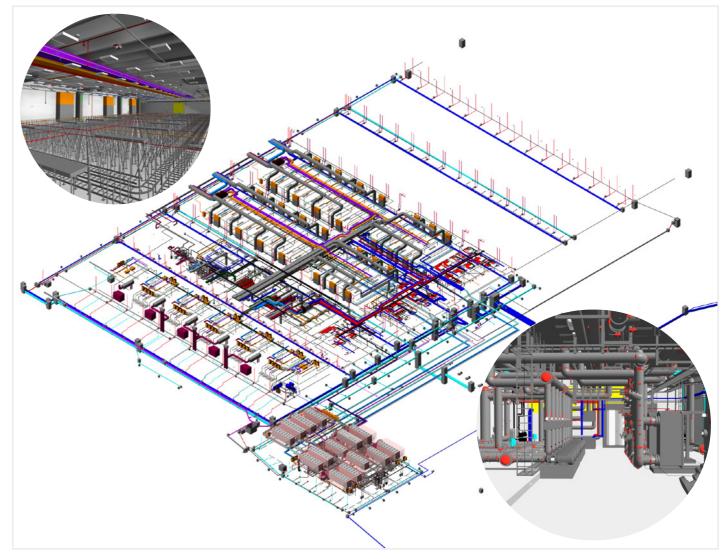


BUILDING DATA

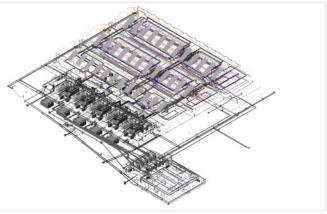
- Power: 10 MW electric power
- Housing 80%+ of the national computing power and 20% of the European
- Main HPC (high performance computer) hosted: Atos, Leonardo, Lisa
- 5 DRUPS of 2 MW each, for a total of 10 MW

Model screenshots









ATI Project | CREATING A BETTER REALITY



This university hospital embodies several key concepts, combining sustainability, integration with the context, innovation, well-being and functionality in a single project.



▲ HEALTHCARE

Nyt OUH University Hospital

Perfect harmony between technology, context and comfort

The project for the **New Odense University Hospital** is a **complex** organism, both from a technological and urban perspective; providing a space where the relationships between patients, local community and environment weld.

The structure is composed of four blocks, hosting clinics, day hospital, offices and educational labs, crossed horizontally by two connection trajectories which shape a number of spaces, at times introverted and

immersed in the green landscapes and at times extroverted towards the city.

The **integrated design** of Nyt OUH has been developed thoroughly in BIM technology, performing a computerisation of the project, through which space, aesthetics and technology work together towards defining one of the biggest hospitals in Europe.



Location: Odense, Denmark

Typology: New construction

Year: 2018 - ongoing

Status: Design completed, construction in progress (80%)

Dimensions: 250.000 sqm

Budget: € 700 mln

Client: JV (CMB+ITINERA)

Activities: Preliminary, detailed and executive design (architecture, structures, MEP including electrical systems and cooling systems for the two redundant data centers), Project Management support

Awards:

The Plan Award 2019 - Category: Future Hospital BIM & Digital Award 2018 - Category: Public Buildings

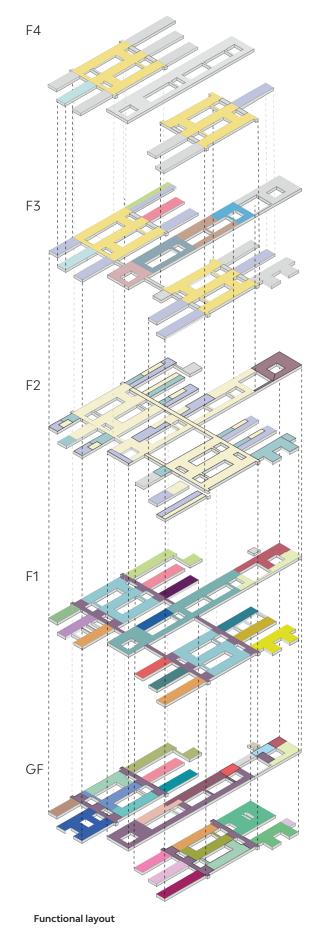
Credits: Project concept: C.F. Moller Render: MTSYS Photo: Andrea Zanchi







ATI Project CREATING A BETTER REALITY



F4 - FLOOR 4

- Mixed inpatient wardintensive care Office and administration sect.
- Emergency inpatient ward

F3 - FLOOR 3

- Child psychiatry sect.
- Office and administration sect.
- Pediatric inpatient ward and inten. care Clinical biochemistry and
- Mixed inpatient wardintensive care
- Emergency inpatient ward

F2 - FLOOR 2

Simulation center Technical area

F1 - FLOOR 1

- All departments
- Clinical immunology lab. dept.
- Training center sect. (SUND)
- Intensive care sect.
- Radiology operating dept.
- Child psychiatry sect. Pediatric inpatient ward and inten. care
- Maternity and pregnancy inpatient ward

GF - GROUND FLOOR

- All departments
- Child psychiatric inpatient ward
- Pediatric inpatient ward and inten.care Nephrology and dialysis dept.
- Cardiology operating dept.
- Radiology dept.
- Neonatal medicine sect.
- Day hospital sect.
- Cardiovascular medicine sect.
- Emergency room
- Clinical pathology lab. dept room
- Clinical immunology lab. dept.
- Fertility center

- Clinical genetics lab. dept. Clinical pathology lab. dept.
- pharmacology lab. dept.
- Clinical microbiology lab. dept.
- Office and administration sect. Staff facilities
- Operating dept.
- Lung medicine sect.
- Emergency inpatient ward
- Mixed investigation and treatment sect.
- Hematology and rheumatology dept.
- Oncology dept.
- Pharmacy sect.
- Training center sect. (SUND)
- Allergology and dermatology dept.
- Chapel
- Radiotherapy dept.
- Pharmacy sect.
- Nuclear medicine dept.
- Mixed investigation and treatment sect.
- Ophthalmology and dentistry sect.
- Gastroenterology mixed sect.
- High isolation inpatient ward







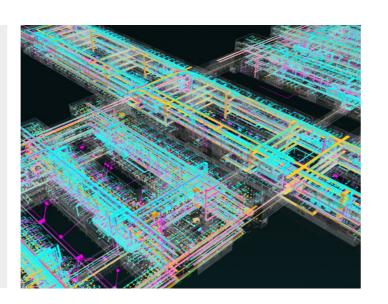
- Otorhinolaryngology sect.

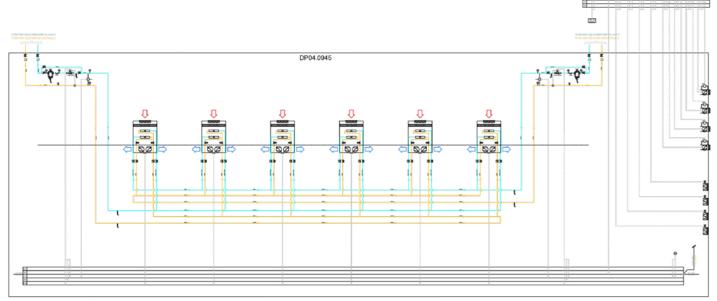
- Endoscopy dept.

BUILDING DATA

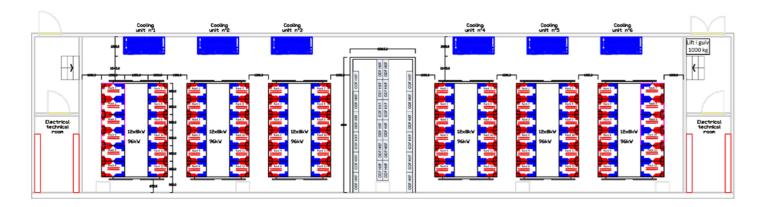
- N+1 diesel rotary drUPS on medium voltage as backup supply
- 26 medium/low voltage substations
- 35 MW installed trasformers
- 2 Data server rooms
- 2 medium voltage ring supplies
- Redundancy busbar between Power Centers
- Double power supply PDUs
- Double power supply cooling machines

Data centers cooling functional scheme



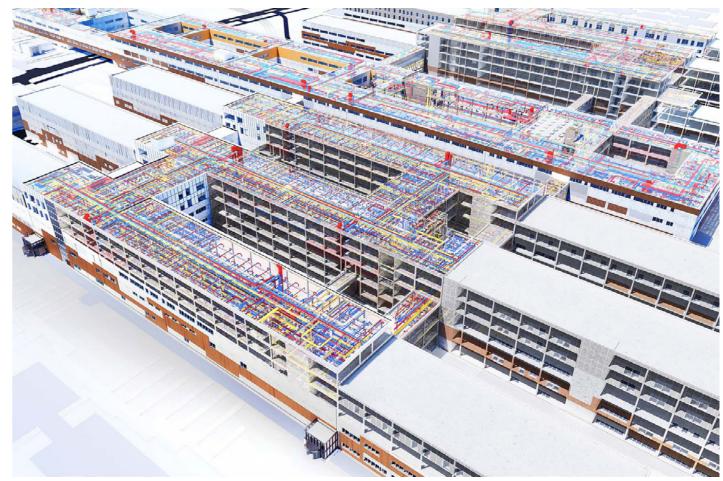


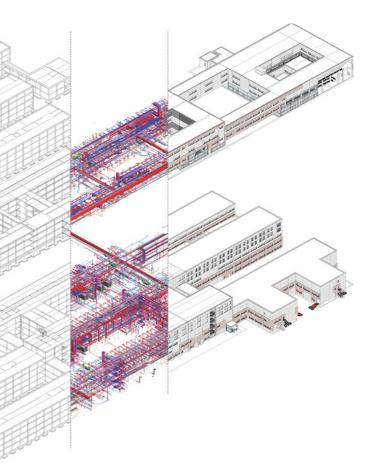
Data server layout



BIM model overview

BIM model detail





ATI Project CREATING A BETTER REALITY



A perfect combination of quality and sustainability. The added value lies in the concerted and shared effort of the various professionals involved.



▲ HEALTHCARE

Bispebjerg Hospital

A reference point for the territory and healthcare. The new Copenhagen hospital

The project for the **new Bispebjerg** hospital represents a key intervention within the vision proposed by the Capital Region of Denmark for the development of health care services in the area.

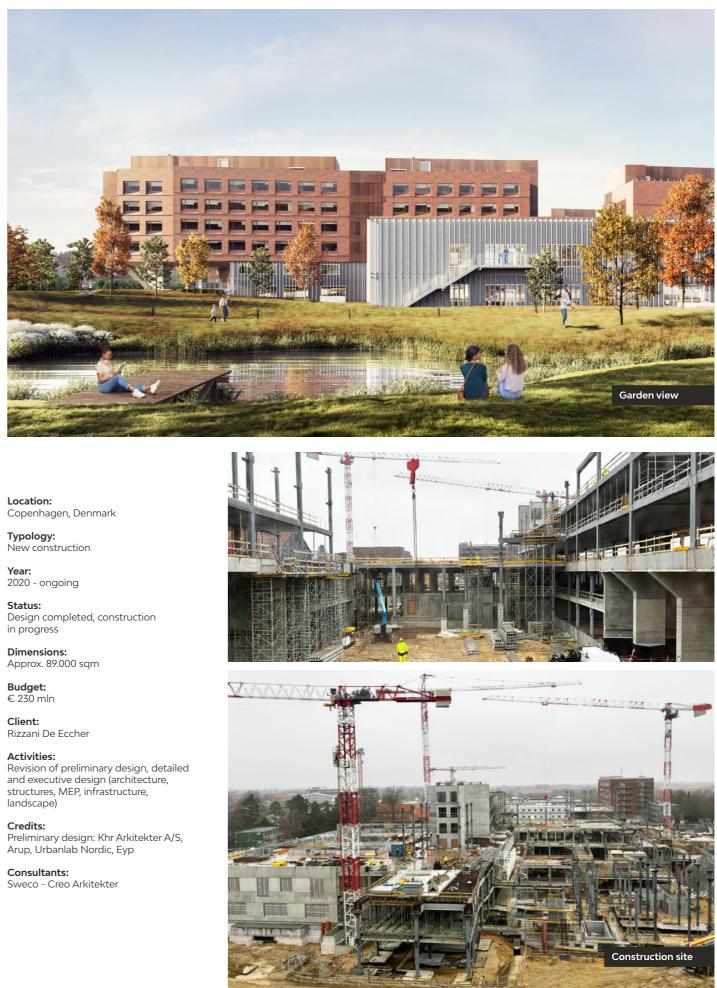
The architectural complex develops in an area of **approximately 77.500** sqm, within which six pavilions host a dense and widely articulated functional program.

There are three key departments: emergency, operation and radiology. These are adjeced by departments with the most contact with patients, such as pediatrics and woman & child. Operating rooms, laboratories, connection tunnels and services complete the programmatic layout,

making the new facility a state-of-theart hub for the entire region.

In the new hospital, the design disciplines intersect forming a technological unicum with a decisive language, that is at the same time perfectly integrated from a landscape and environmental point of view.

It is an intervention of great logistical and institutional importance; and was made possible thanks to the transversal nature of the BIM methodology, which allows to articulate each phase of the life cycle of the new building in compliance with the purposes of the project vision and with a careful control of construction times and costs.



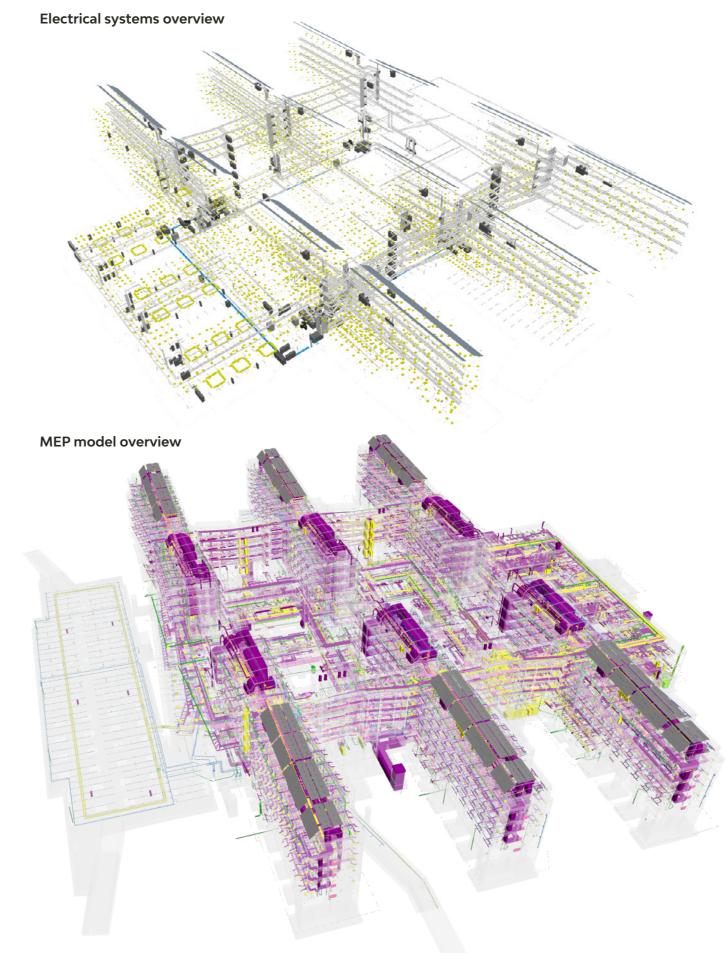


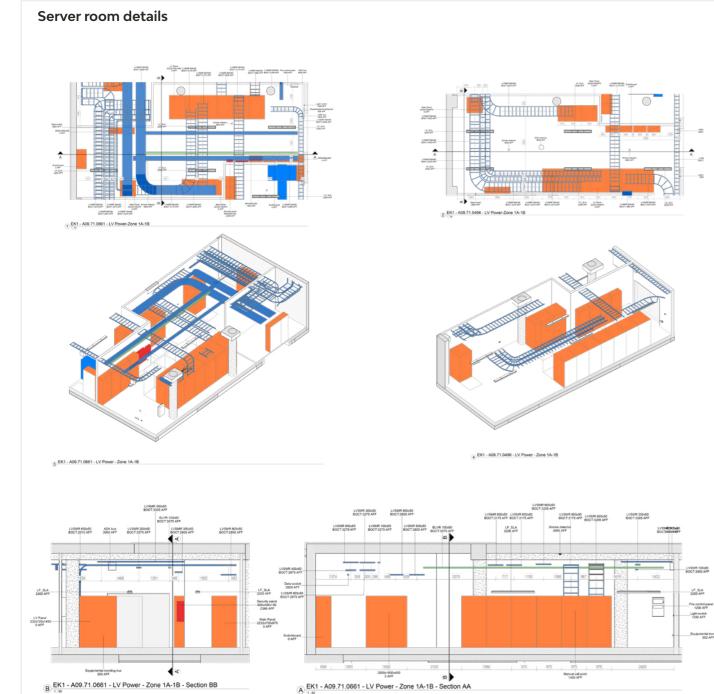


BUILDING DATA

- 12 MW of installed electrical power
- 3 transformer rooms
- Diesel generators to support 100% redundancy for 3 days
- 2 Data centers
- Nearly zero energy efficiency building







ATI Project | CREATING A BETTER REALITY



An avant-garde and highly functional complex, in which the technological envelope expresses sensitivity towards the surrounding area, becoming a distinctive landscape element.

▲ HEALTHCARE

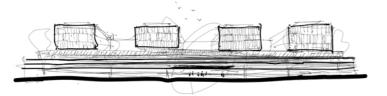
Tallinn Hospital

Architecture dedicated to care. A hospital connected to the surrounding landscape

The project of the **new Tallinn Hospital** is developed on the limestone hill of Maarjamäe, in the natural setting of the Estonian capital's bay.

Modern, technological, and sustainable, the complex harmonises with the most contemporary requirements of hospital facilities and is divided into **two volumes**, which house the outpatient and treatment functions and move along the longitudinal axis of the volumetric matrix, coinciding with the main covered corridor.

At the top of the building are the **wards**, which emphasise the perimeter of the

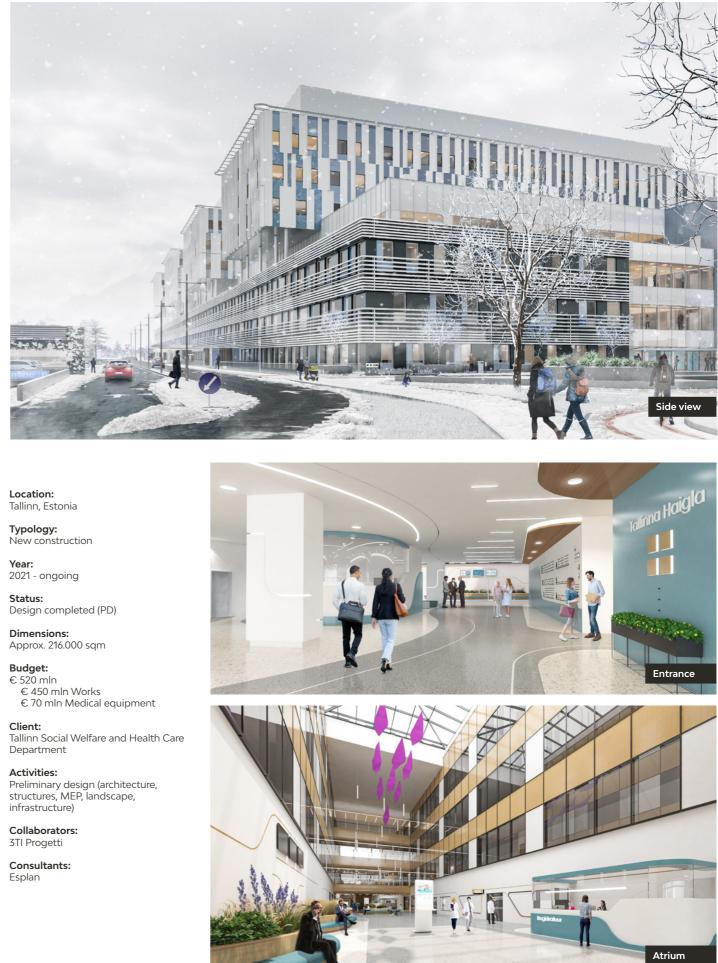


volume and maximise the contribution of natural light.

Hospital areas are interconnected by transverse passages, following free directions, alternating with **elevated** gardens, informal meeting spaces and views of the park, the sea, and the city, participating in the psychophysical wellbeing of staff and users.

The **envelope** dialogues with its surroundings and moves in overlapping registers through slight folds that intercept the light, reflecting it in a play of reverberations, capable of dematerialising the mass of the base volume.

Outside, the green campus reflects the architectural textures of the building, becoming part of the landscape.





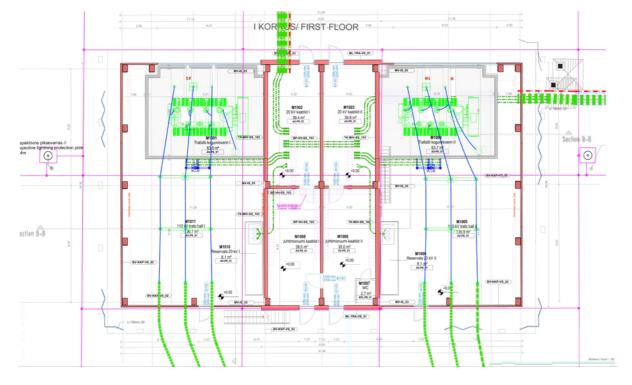


BUILDING DATA

- 30 MW of installed electrical power
- 4 transformer rooms
- diesel generators to support 100% redundancy for 3 days
- 140 air handling units
- nearly zero energy efficiency building

Transformer substation 110/20 kV - layout





Transformer substation 110/20 kV - electrical scheme

