

THE NEW HOSPITAL 'SAN CATALDO' IN TARANTO

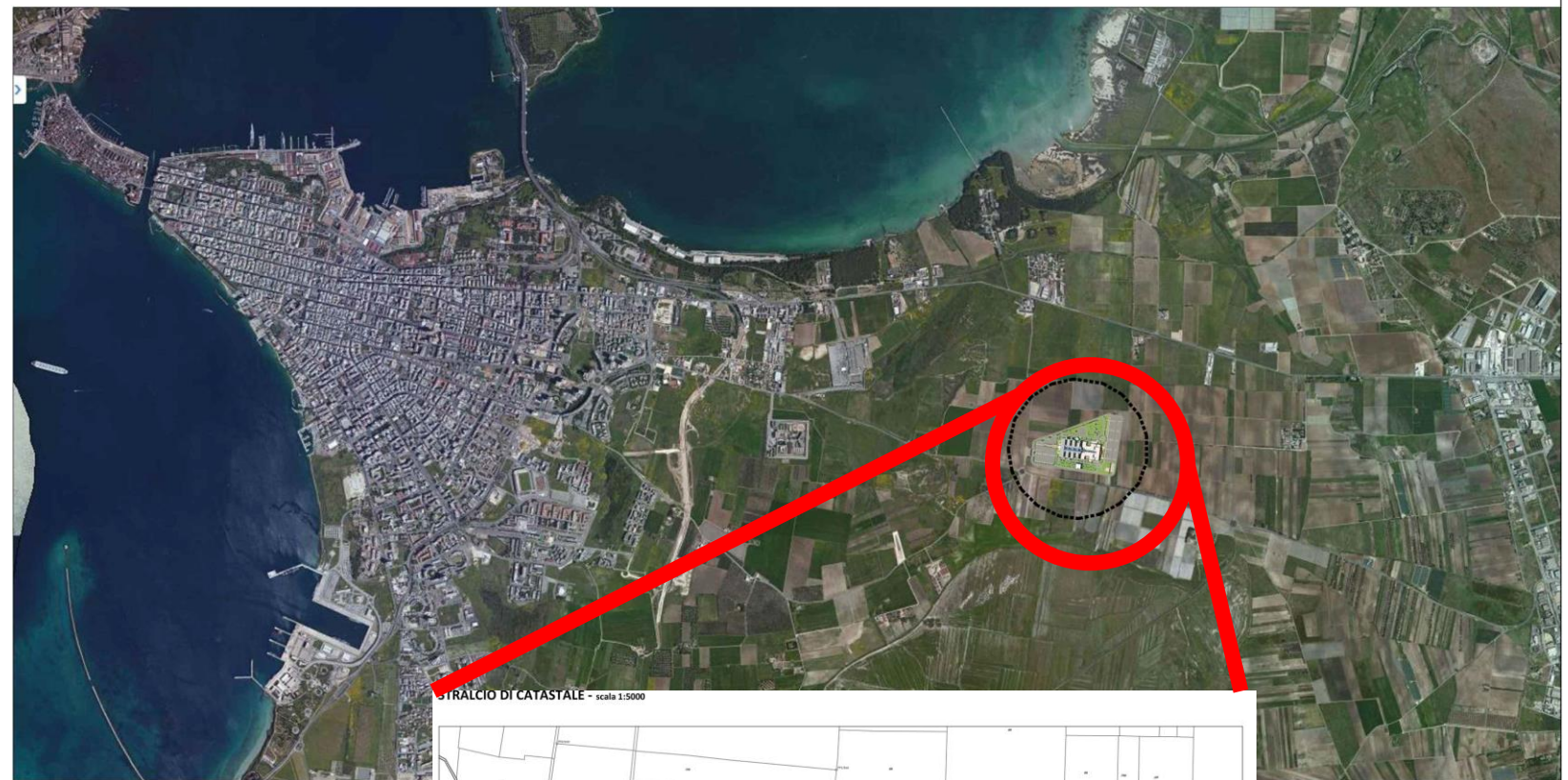


Eng. Tommaso Carrera
Technical Area
ASL Taranto

THE NEW HOSPITAL 'SAN CATALDO' IN TARANTO

The area identified for the construction of the new San Cataldo hospital is located in the eastern area of Taranto. The surface, in addition to being free of particular constraints, is typified by the Taranto General Town Plan as an area intended for services of public interest: hospitals.

ORTOFOTO CON SOVRAPPOSIZIONE VOLUMI DI PROGETTO

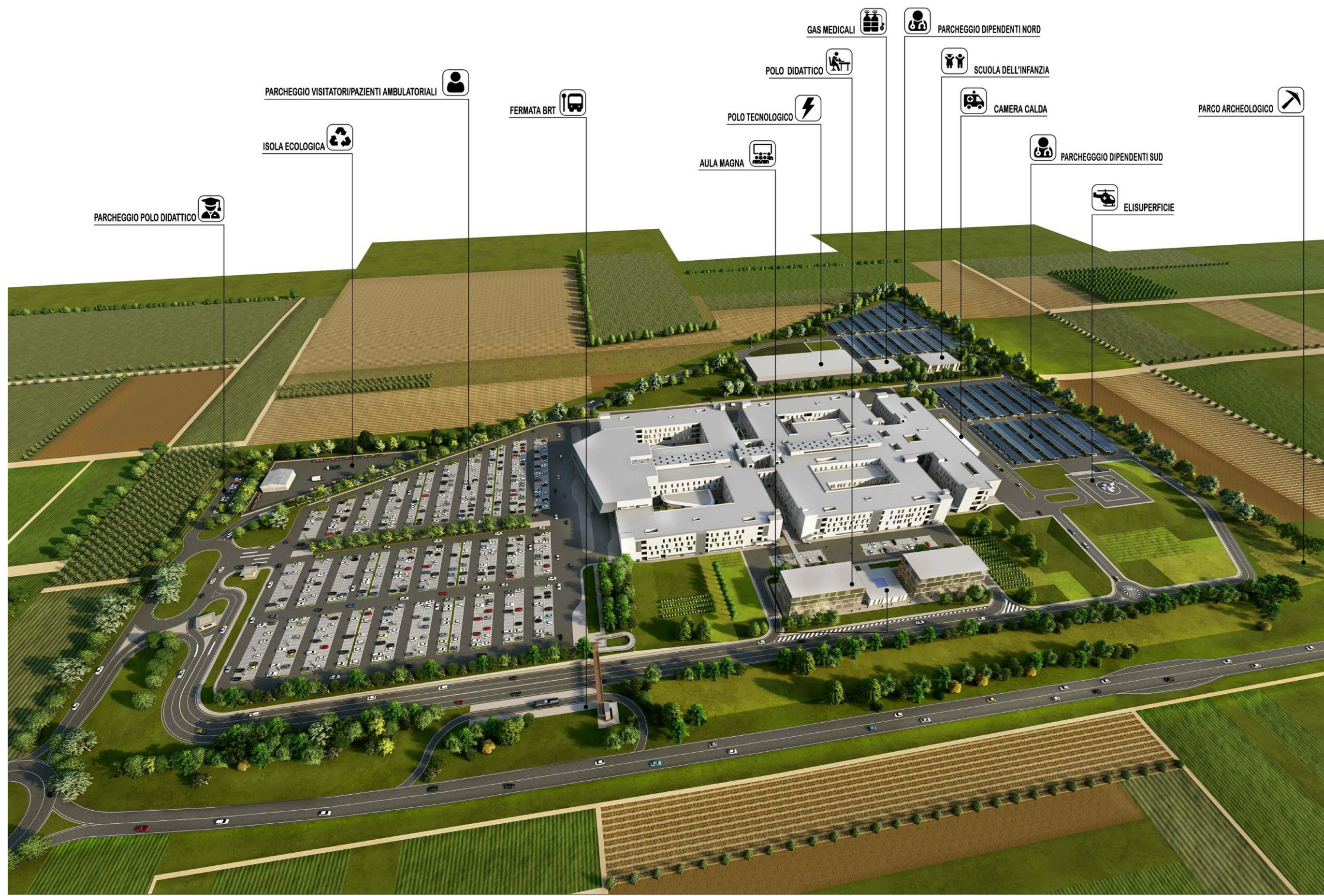


STRALCIO DI CATASTALE - scala 1:5000



THE NEW HOSPITAL 'SAN CATALDO' IN TARANTO

THE EXECUTIVE PROJECT WAS APPROVED IN JUNE 2018



THE NEW HOSPITAL 'SAN CATALDO' IN TARANTO

Characteristics of the hospital:

- 723 hospital beds
- 70 doctor's surgery
- 28 diagnostic rooms
- 19 surgical rooms
- 28 intensive care beds
- 178,60 m² per hospital bed
- Total area: 226.000 m²
- built volume: 603.000 m³
- built surface : 42.900 m²
- sanitary surface: 138.000 m²
- public car parks – 1116 parking spaces
39.669,10 m²
- employee parking – 1170 parking spaces
51.691 m²

Timeline

- work start : December 2020
- end of works : June 2024
- activation of the hospital : December 2025

investment amount: € 312.500.000 :

- € 207.500.000 – construction works
- € 105.000.000 - equipment and furniture

THE NEW HOSPITAL 'SAN CATALDO' IN TARANTO

The sustainability and greening

The Project is developed taking into account the national action plan on Green Public Procurement (PANGPP) approved with a Ministerial Decree dated 11/10/2017 of the Italian Ministry of the Environment and Protection of Land and Sea. In particular, the project requires compliance with the following minimum environmental criteria:

- **Selection of candidates**
 - **Environmental Management System**
 - **Human rights and working conditions**
- **Insertion/integration in the natural landscape**
- **Arrangement of green areas**
- **Reduction of land consumption and maintenance of soil permeability**
- **Energy supply**
- **Energy balance and coverage percentages thanks to renewable energy sources**
- **Reduction of the impact on the surface and underground hydrographic system**

THE NEW HOSPITAL 'SAN CATALDO' IN TARANTO

The sustainability and greening

➤ Selection of candidates

- **Environmental Management System**
- **Human rights and working conditions**

Especially, the Contractor is in possession of an EMAS registration (Regulation no. 1221/2009 on the voluntary participation by organisations in a Community eco-management and audit scheme), and certification according to the ISO14001 standard or according to environmental management standards based on the relevant European or international standards

The Contractor is required to respect the principles of social responsibility by undertaking commitments relating to compliance with minimum social standards

THE NEW HOSPITAL 'SAN CATALDO' IN TARANTO

The sustainability and greening

In 2018, ASL TARANTO opened an invitation to tender for the project. The offers received from economic operators has been also evaluated for the following reward aspects:

- Use of concrete with a minimum content of recycled material > 5%
- Use of bricks for walling and floors with a minimum content of recycled material > 10%
- Use of steel for structural uses with a minimum content of recycled material > 70% (in the case of electric furnace steel) and > 10% (in the case of integral cycle steel)
- Use of plasterboard sheets for partitions and false ceilings with a minimum content of recycled material > 5%
- Use of recycled or reused plastic components > 30%

THE NEW HOSPITAL 'SAN CATALDO' IN TARANTO

The sustainability and greening

➤ **Insertion/integration in the natural landscape**

The executive project incorporates the results of the environmental analyzes carried out in the procedure for verifying eligibility for an environmental impact assessment

➤ **Arrangement of green areas**

Greenery used in external arrangements are non-allergenic or with low allergenic power and of significant aesthetic quality; autochthon

➤ **Reduction of land consumption and maintenance of soil permeability**

surface area of intervention: 226,297.30 m²

public green area 81,065.95 m²

private green area 2,263 m²

public parking area 39,669.10 m²

private parking area: 51,691 m²

The use of draining asphalt has been envisaged for the entire project road system, while sidewalks, pedestrian paths and public and private car park stalls will be made with self-locking elements in perforated blocks for "Erborella" type grass paving. Therefore 60% permeable surface is guaranteed.

THE NEW HOSPITAL 'SAN CATALDO' IN TARANTO

The sustainability and greening

- **Energy supply**
- **Energy balance and percentage of coverage thanks to renewable energy sources**

The new hospital complex was designed to comply with the parameters set by the European Directive 2010/31/EU on energy performance in buildings. In particular, the objective was to achieve a "nearly zero energy building", and to obtain the A3 energy classification according to the Regione Puglia provisions or according to national legislation (DPR 59/09, DL 28/ 11 and D.I. 06/26/2015).

Especially, the project of the new hospital complex involves the implementation of the following main energy supply strategies (electrical and thermal) from renewable or sustainable sources:

- 2 trigenerators of 2 MWe each for a total of 4 MWe (production of electricity and thermal energy from gas)
- 2 photovoltaic fields for a total of 3 MWp to cover personnel parking (production of electricity from renewable sources)

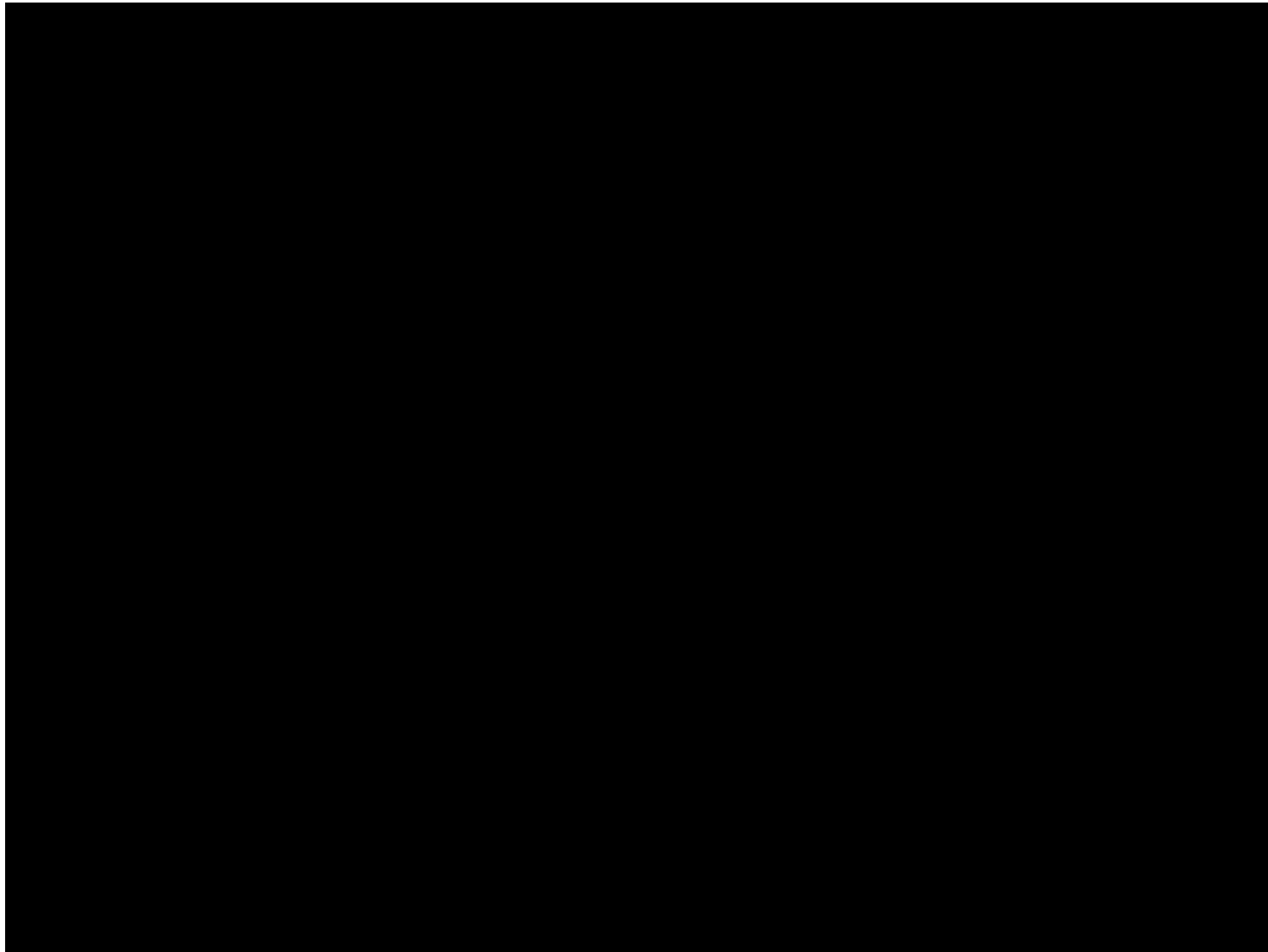
- **Reduction of the impact on the surface and underground hydrographic system**

The project includes a rainwater and wastewater collection and treatment system that takes into account the principles of sustainability and reduction of environmental impacts.

Given the importance of the covered surfaces, which overall reach approximately 42,000 m², it's been decided to allocate part of the rainfall captured by the roofs for reuse by accumulating it in dedicated tanks for reuse as water for firefighting or irrigation.

THE NEW HOSPITAL 'SAN CATALDO' IN TARANTO

WORK IN PROGRESS...



THE NEW HOSPITAL 'SAN CATALDO' IN TARANTO



THE NEW HOSPITAL 'SAN CATALDO' IN TARANTO

Thanks for your attention

Eng. Tommaso Carrera, Technical Area , ASL Taranto

Contact: tommaso.carrera@asl.taranto.it