

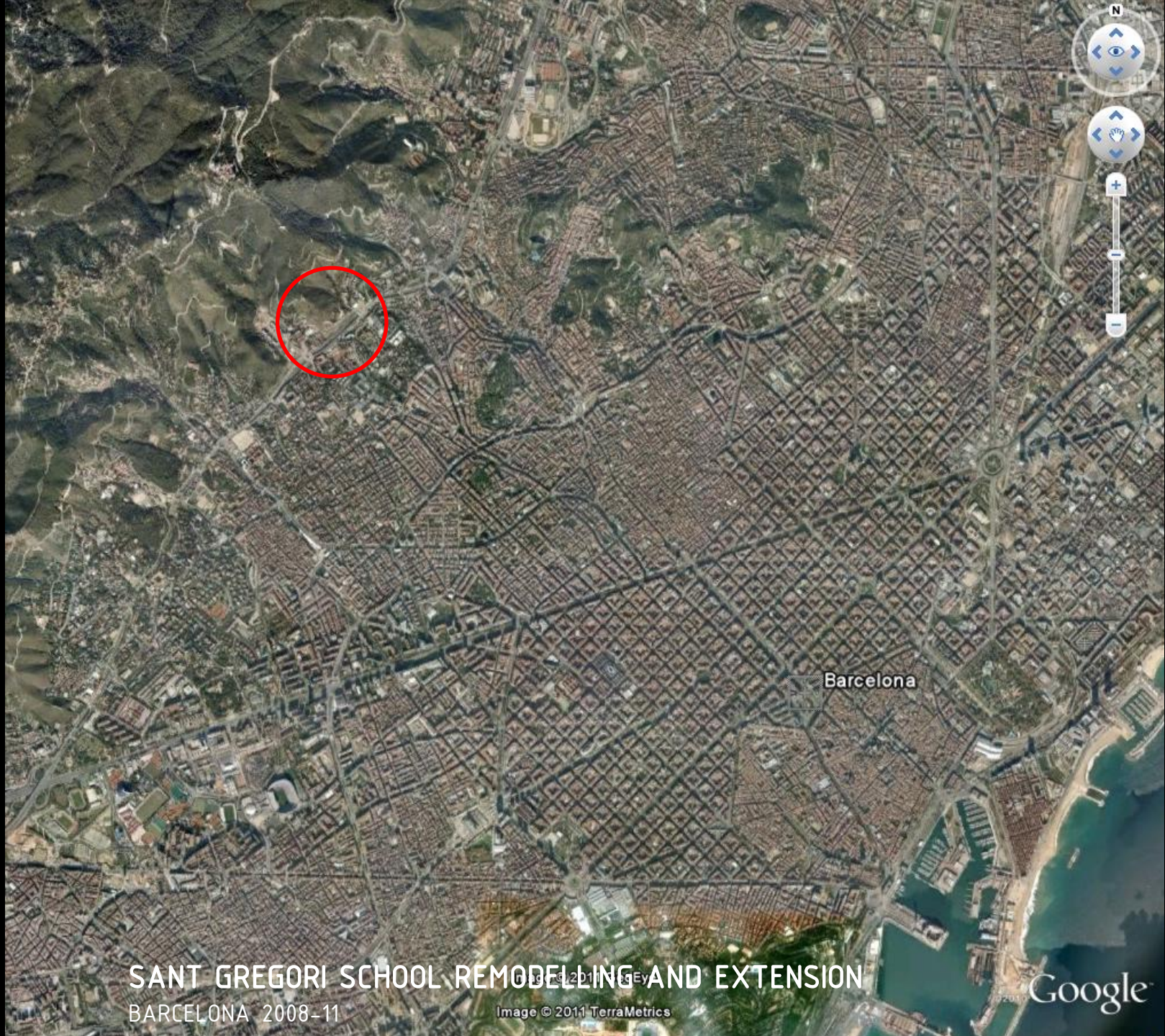
SANT GREGORI SCHOOL REMODELLING AND EXTENSION

BARCELONA 2008-11

2014 AIA - CAE CONFERENCE

Barcelona April 27-30 2014

COLLECLERC



SANT GREGORI SCHOOL REMODELLING AND EXTENSION
BARCELONA 2008-11

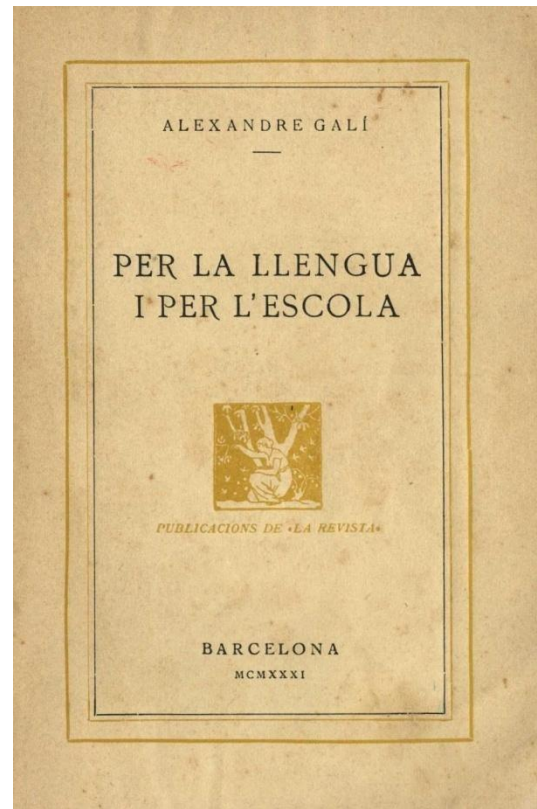
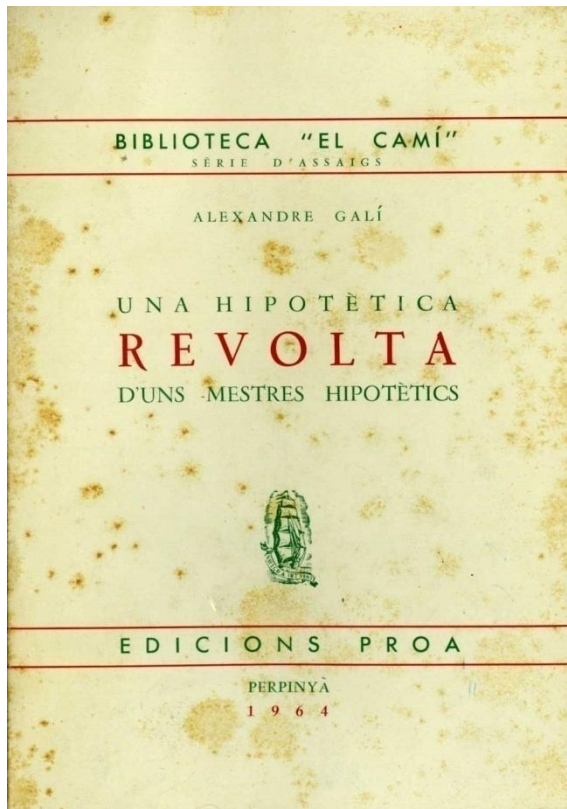
Image © 2011 TerraMetrics

Google



BETTER ENVIRONMENT FOR LEARNING...since its very inception...

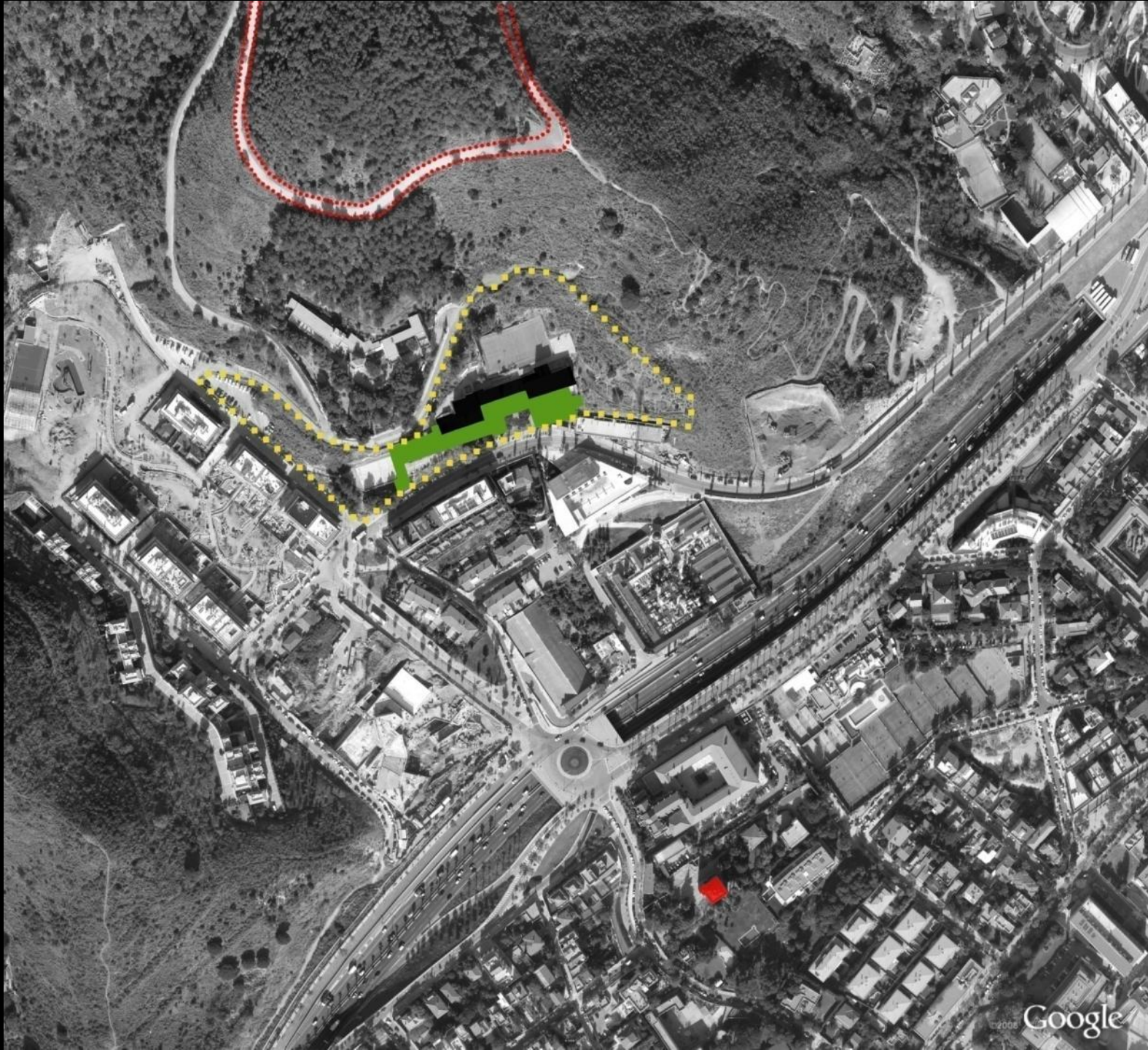
St. Gregory's School was founded in 1955 by Jordi Gali, son of the famous pedagogue **Alexander Gali**, and is run today by his daughter Montserrat Galí. The place was and continues to be privileged at the foot of the Collserola Mountain with splendid views towards Barcelona and the sea.



Since its inception, the principles that have dominated his teaching are collected in the following ideas:

-Work so as to gain adequate training of **intelligence, autonomy, habits and methods of work, discipline and joy in the study, scientific rigor, breadth of vision, spirit of observation and critical capacity.**

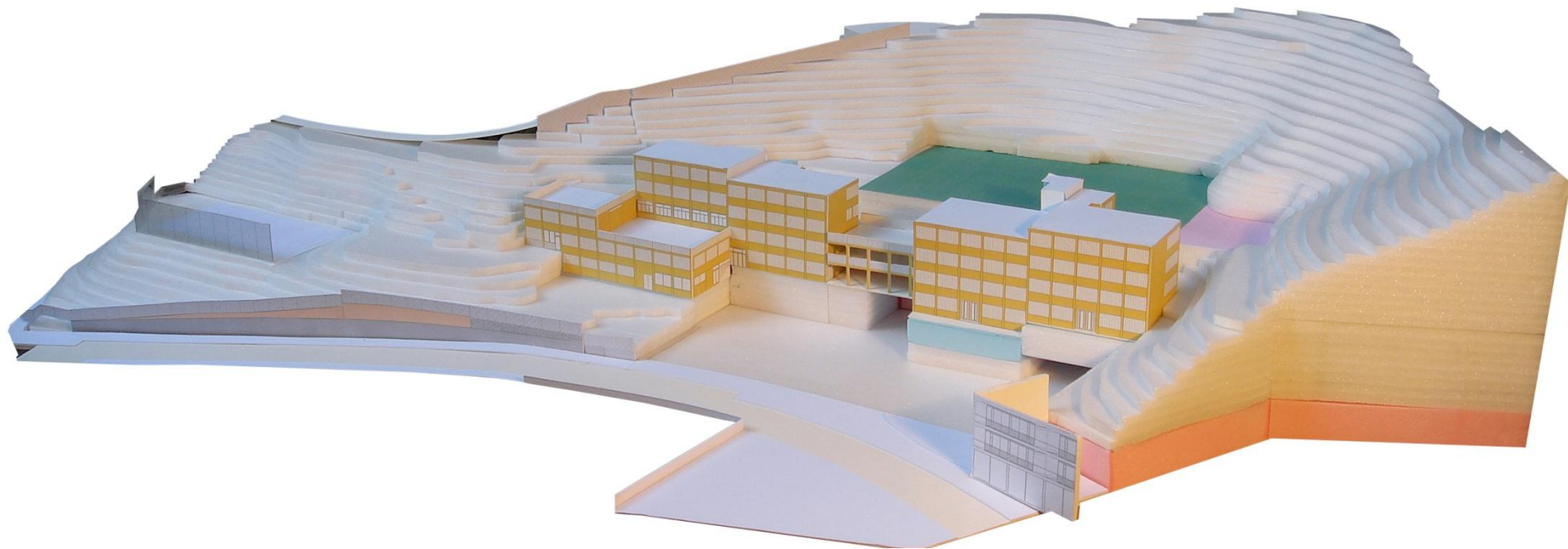
-Consider **complementary activities**, computer, library, theater, music, plastic arts, swimming, sports, languages, summer courses and camps, **as an extension of the school beyond the classroom**, critical to deepening cooperation, and teamwork skills and different sensitivities of each person.





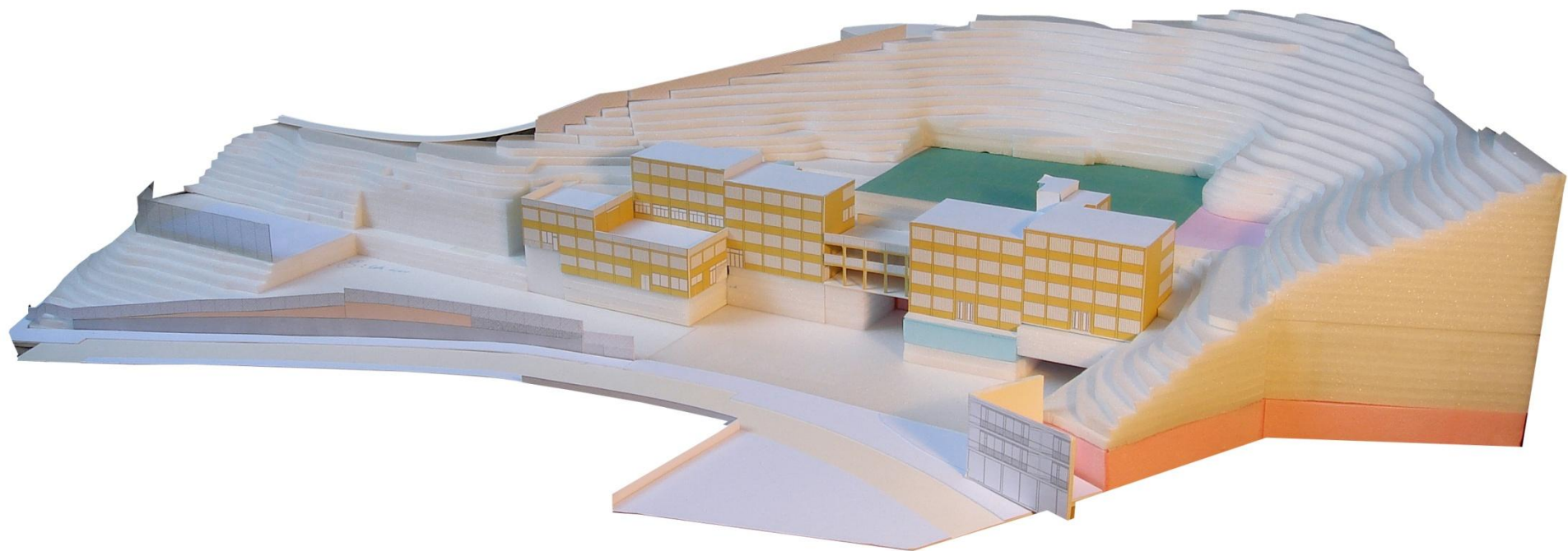
HOW ARCHITECTURAL DESIGN IMPROVES THE LIVES OF OUR TEACHERS AND STUDENTS

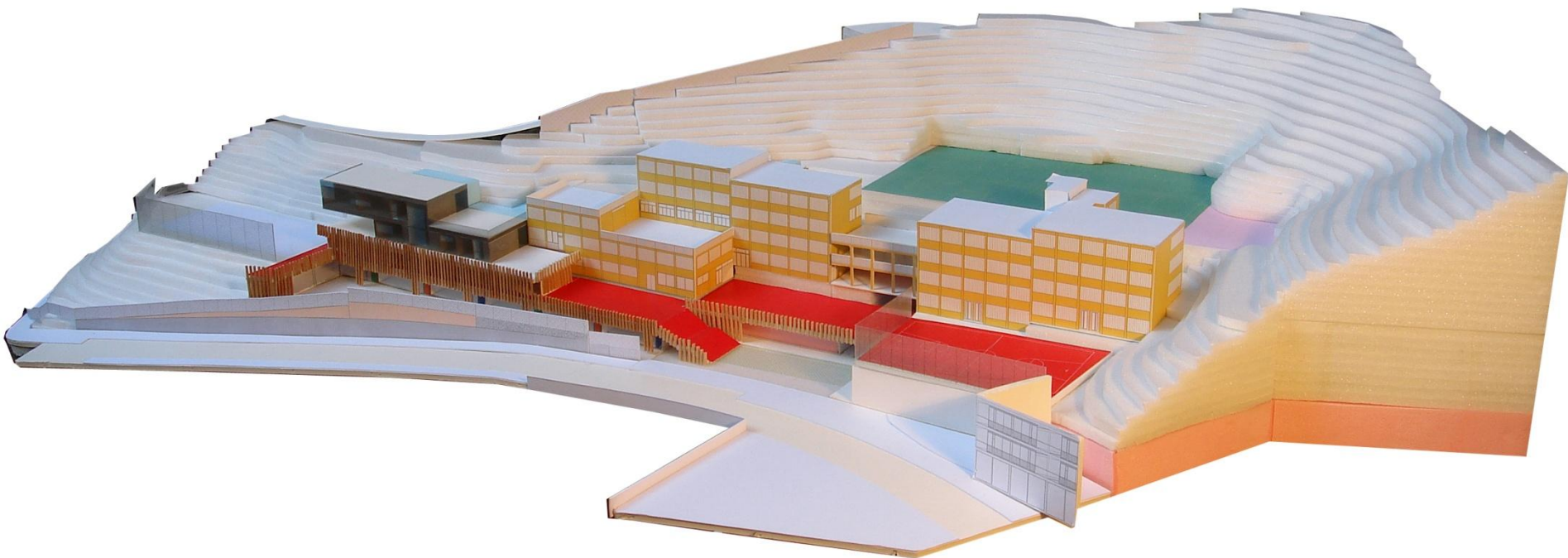
The project consists in the extension of the existing 1966 school by Jordi Bonet and 1974 phase by Jordi Figueres to include more classrooms, the full kindergarten cycle and integrate a school of music with its corresponding auditorium.



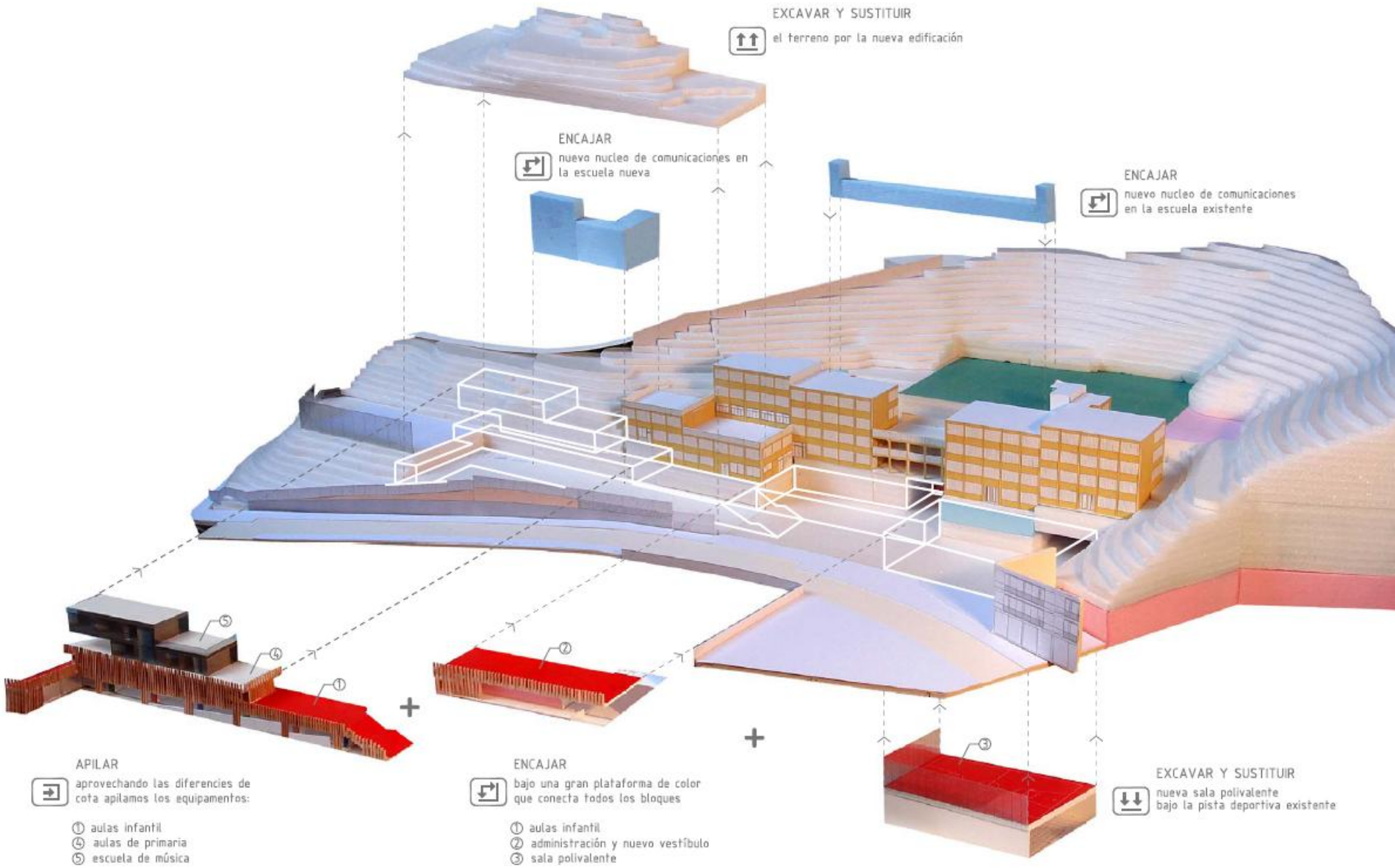
The design aims at:

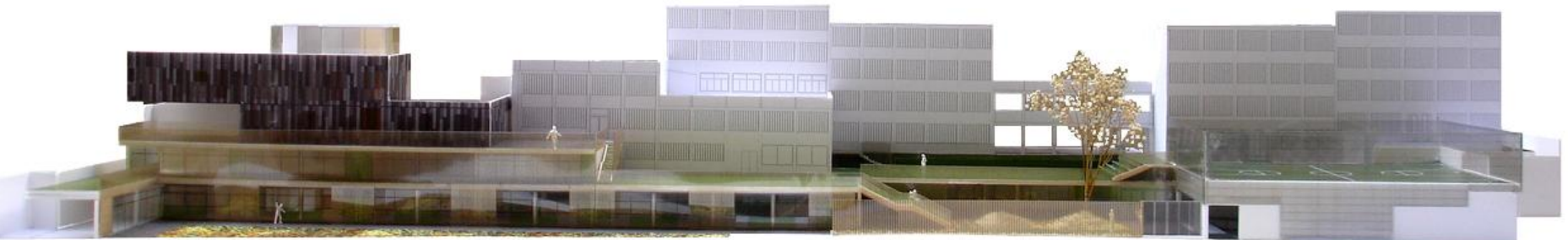
-improving street connection by extending the school **downwards**, creating a **new base echoing original setbacks** but **filling earth fills with new common program**.





-Introducing a network of links between playgrounds and old and new programs to create an **infrastructural project of connections, a fusion between old and new to create a polyvalent complex.**



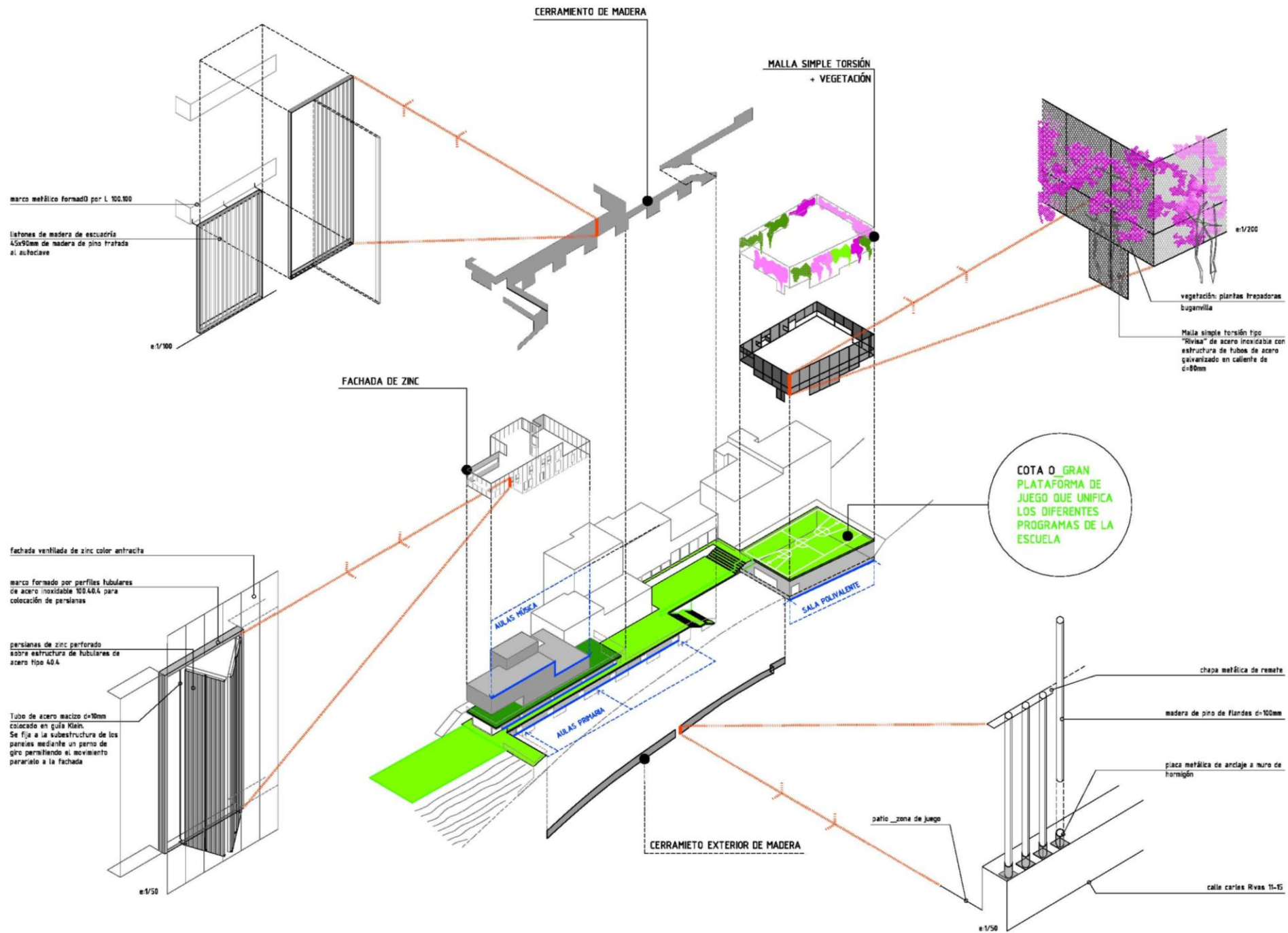


-**acoustic benefits:** the long horizontal base turns out to be, as its users have noticed, a good way to refrain the sound from transmitting vertically to other classrooms.

OMNIPRESENT GREEN

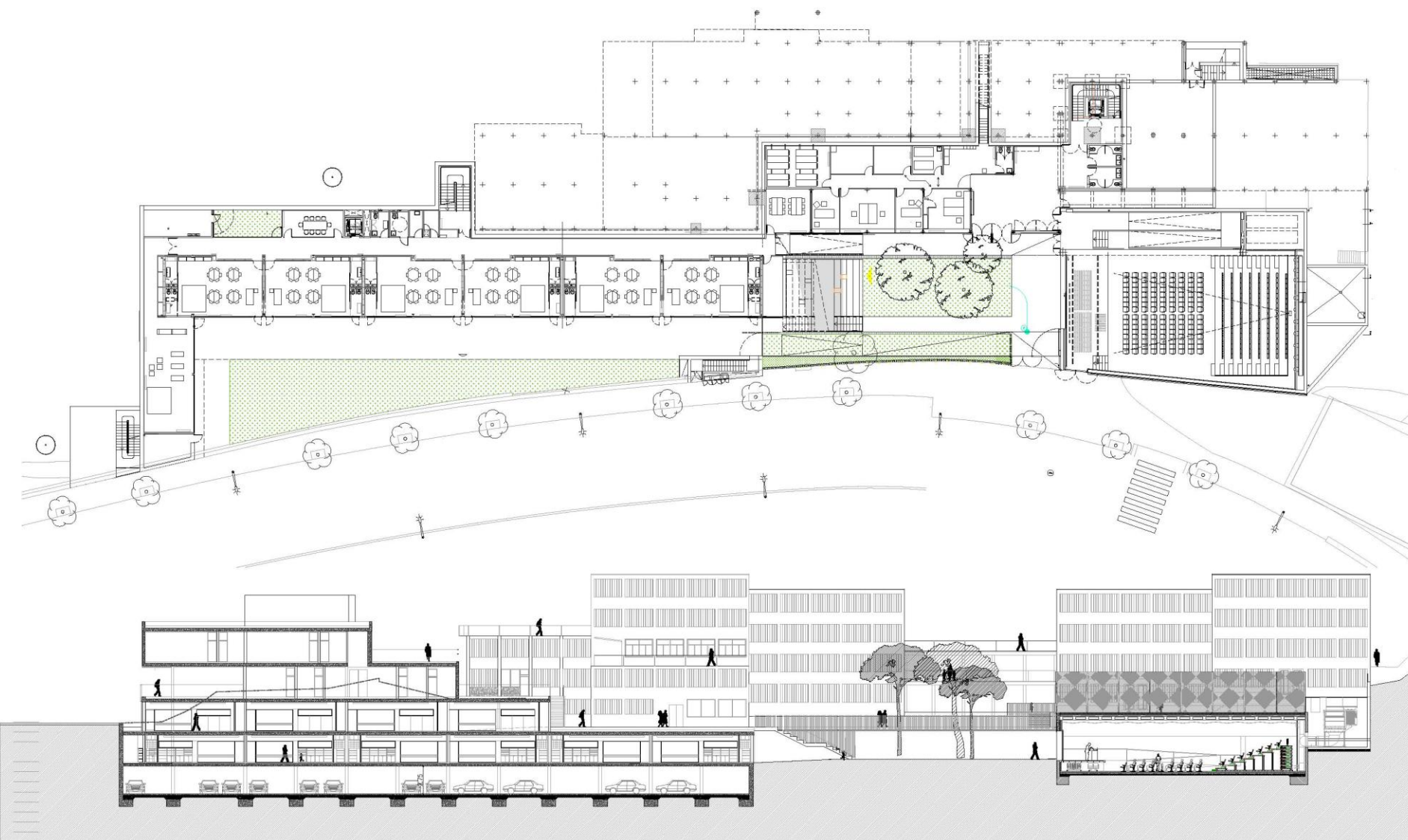
-maintain the green facade of the school. Concentrate the buildings, leave **as much landscape as possible** and make the **roofs green**.

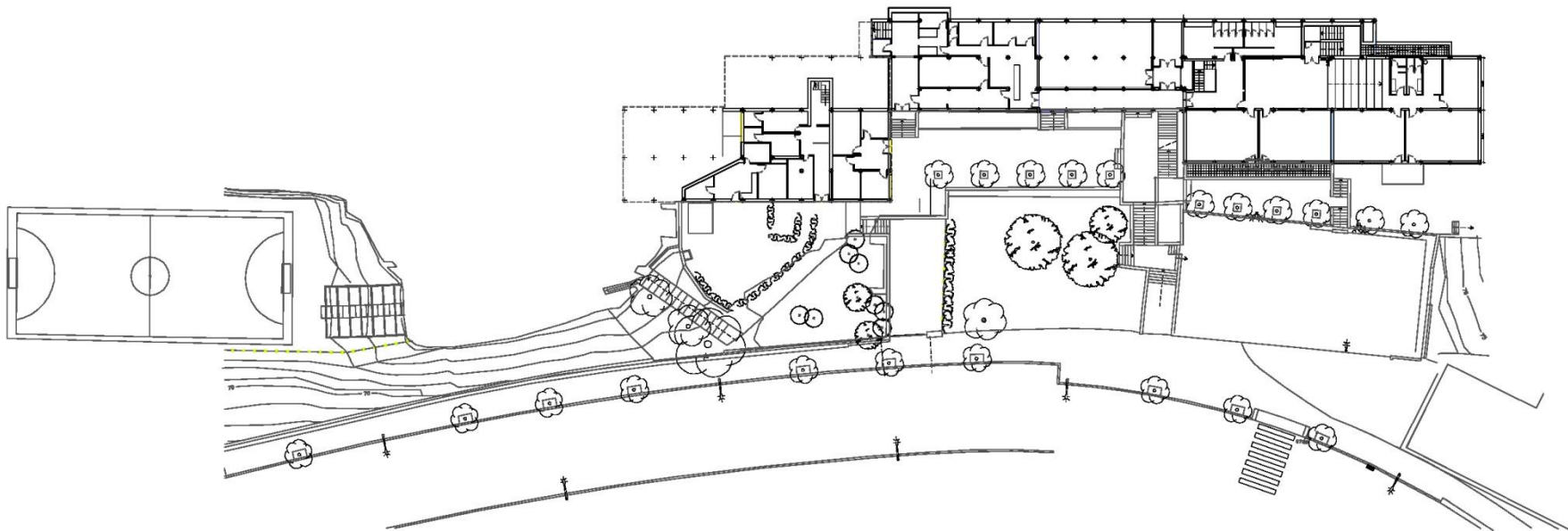
AXONOMETRÍA DE ELEMENTOS DE CONTROL CLIMÁTICO



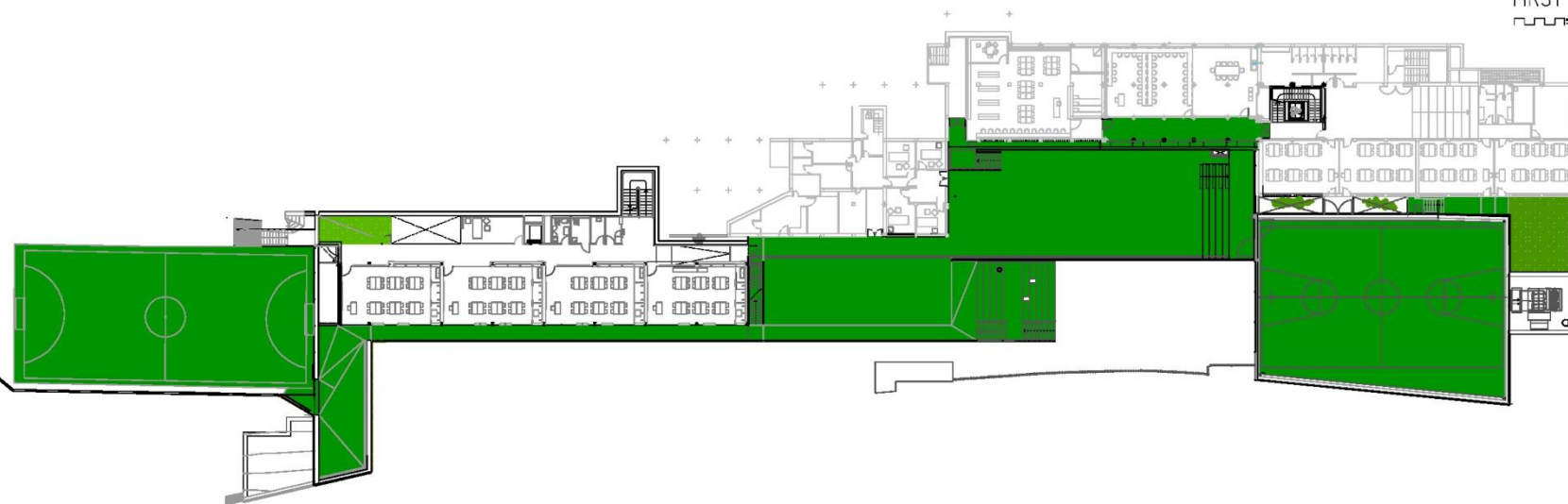


GROUND FLOOR
15



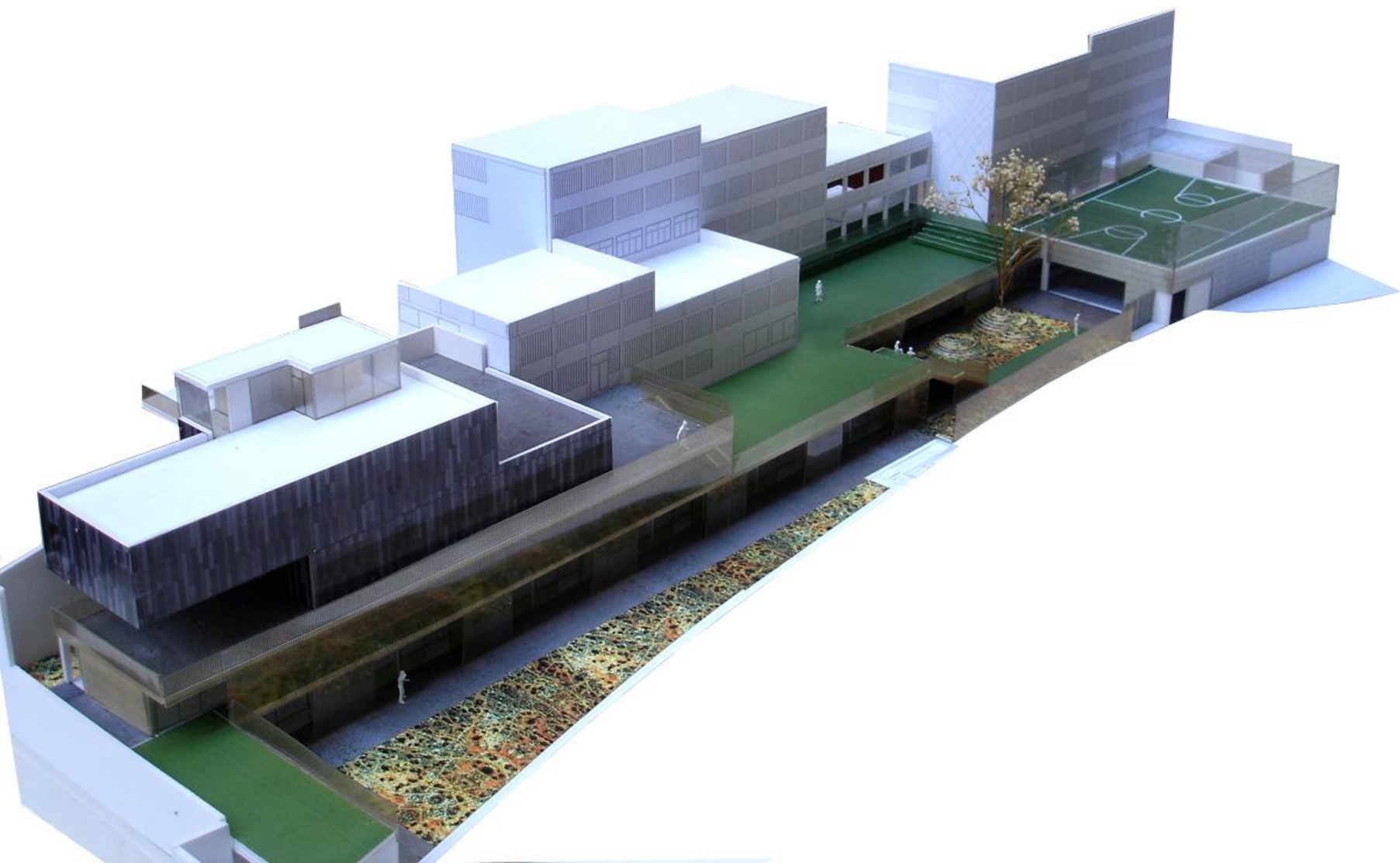


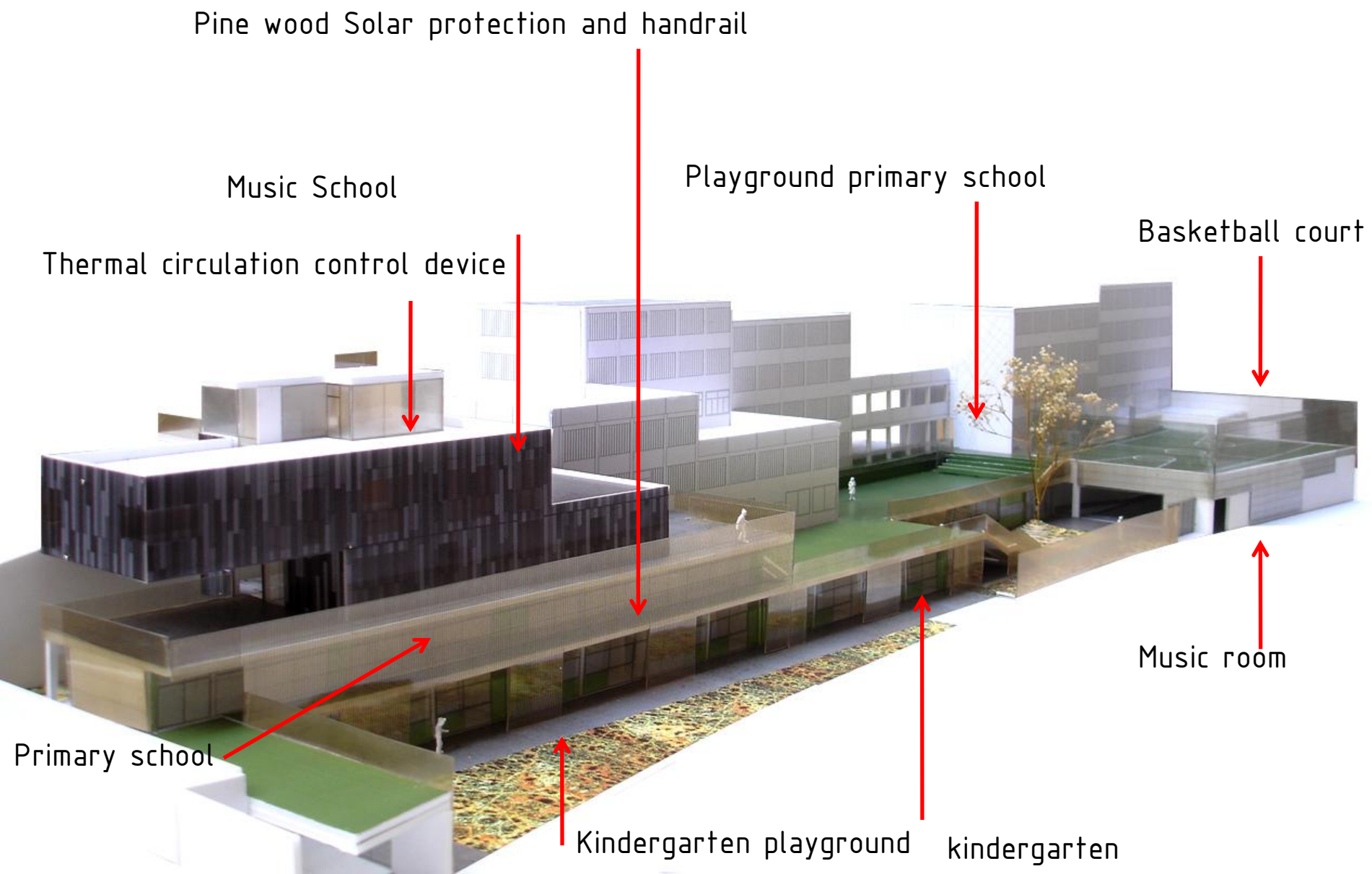
FIRST FLOOR 2008



FIRST FLOOR 2011







Pine wood Solar protection and handrail

Music School

Playground primary school

Basketball court

Thermal circulation control device

Music room

Primary school

Kindergarten playground

kindergarten





THE EXCAVATION COMPLETELY TRANSFORMS THE EXISTING PART AND IS REWARDED WITH THE HIGHEST ENERGY-SAVING RANKING IN SPAIN.

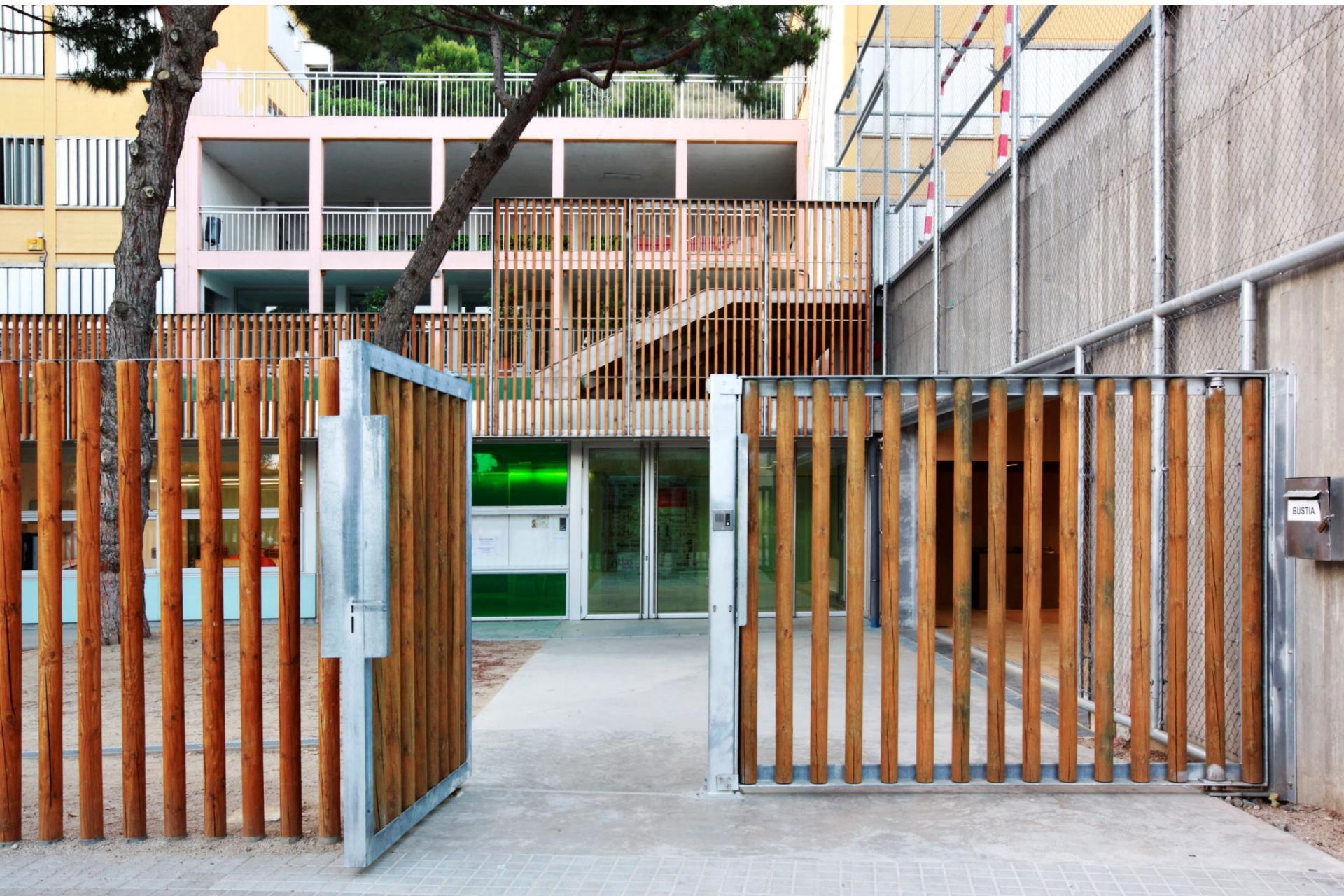




SANT GREGORI SCHOOL :ORIGINAL STATE











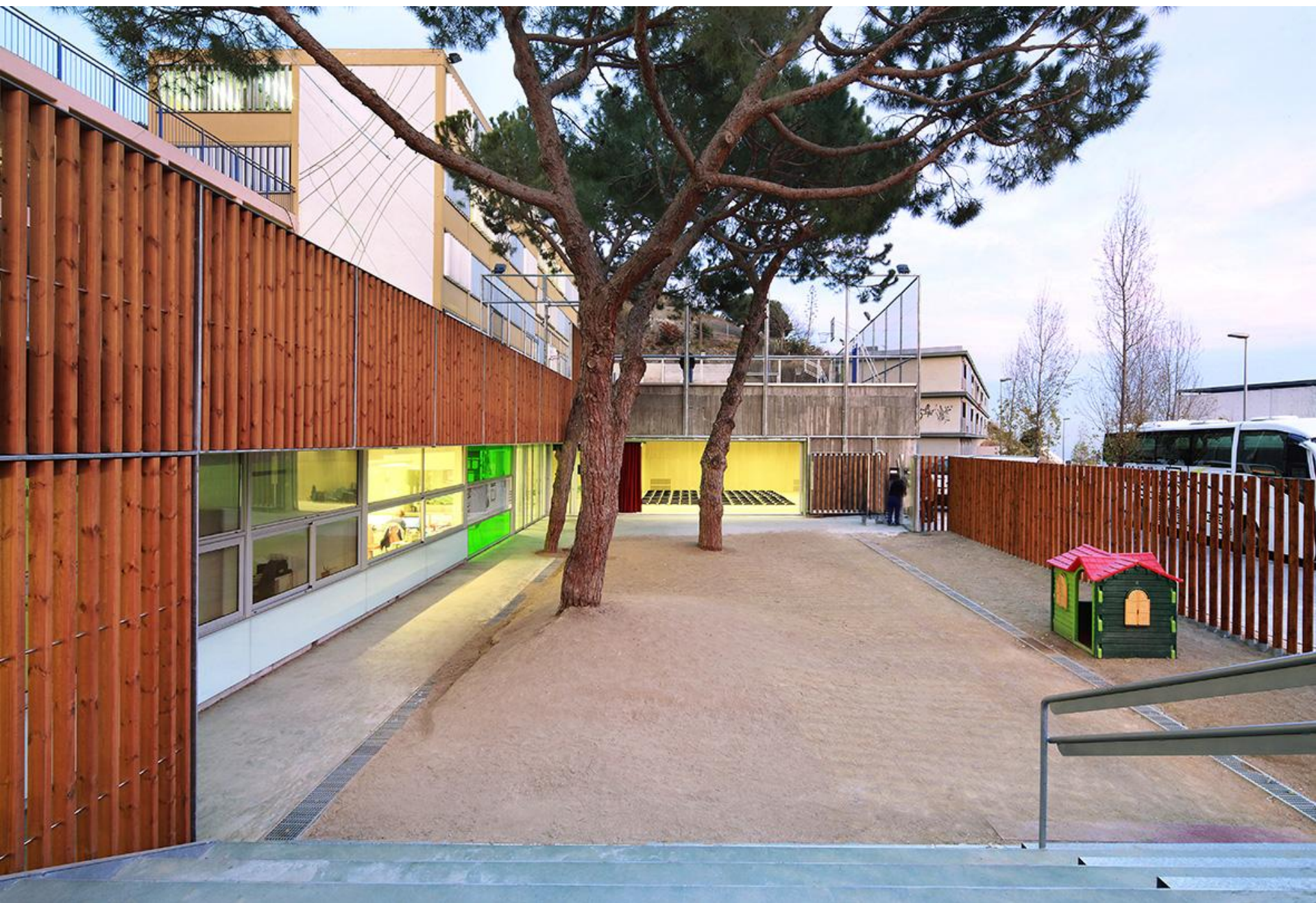
SANT GREGORI SCHOOL :ORIGINAL STATE











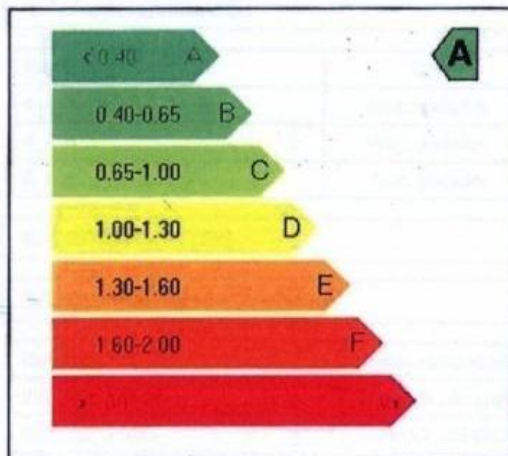








3. ETIQUETA Y VALORES TOTALES



Concepto	Edif. Obj.	Edif. Ref.
Energía Final (kWh/(m²·año))	69.9	312.3
Emissiones (kg CO2/(m²·año))	32.4	106.7


Eduardo Rodríguez Dosantos
 Ingeniero Técnico Industrial
 Col. Nº 17.596

Qualificació Energètica d'Edificis EDIFICI ACABAT

Més eficient



Menys eficient

Edifici AMPLIACIÓ I REHABILITACIÓ DE ST. GREGORI

Localitat / Zona climàtica Barcelona / C2

Ús de l'edifici EDUCACIÓ

Consum d'energia anual:

107.968,24 kWh/any
69,90 kWh/m²

Emissions de CO₂ anual:

50.045,36 kgCO₂/any
32,40 kgCO₂/m²

El consum d'energia i les seves emissions de diòxid de carboni, per a condicions normals de funcionament i ocupació, són les obtingudes pel programa

CALENER GT

El Consum real d'Energia de l'Edifici i les seves Emissions de Diòxid de Carboni dependran de les condicions d'operació i funcionament de l'edifici i de les condicions climàtiques, entre altres factors.

INFORMACIÓ ADMINISTRATIVA:

ADREÇA DE L'EDIFICI CARRER ARIMON, 17

Nº DE REGISTRE 46112901V01084611F0

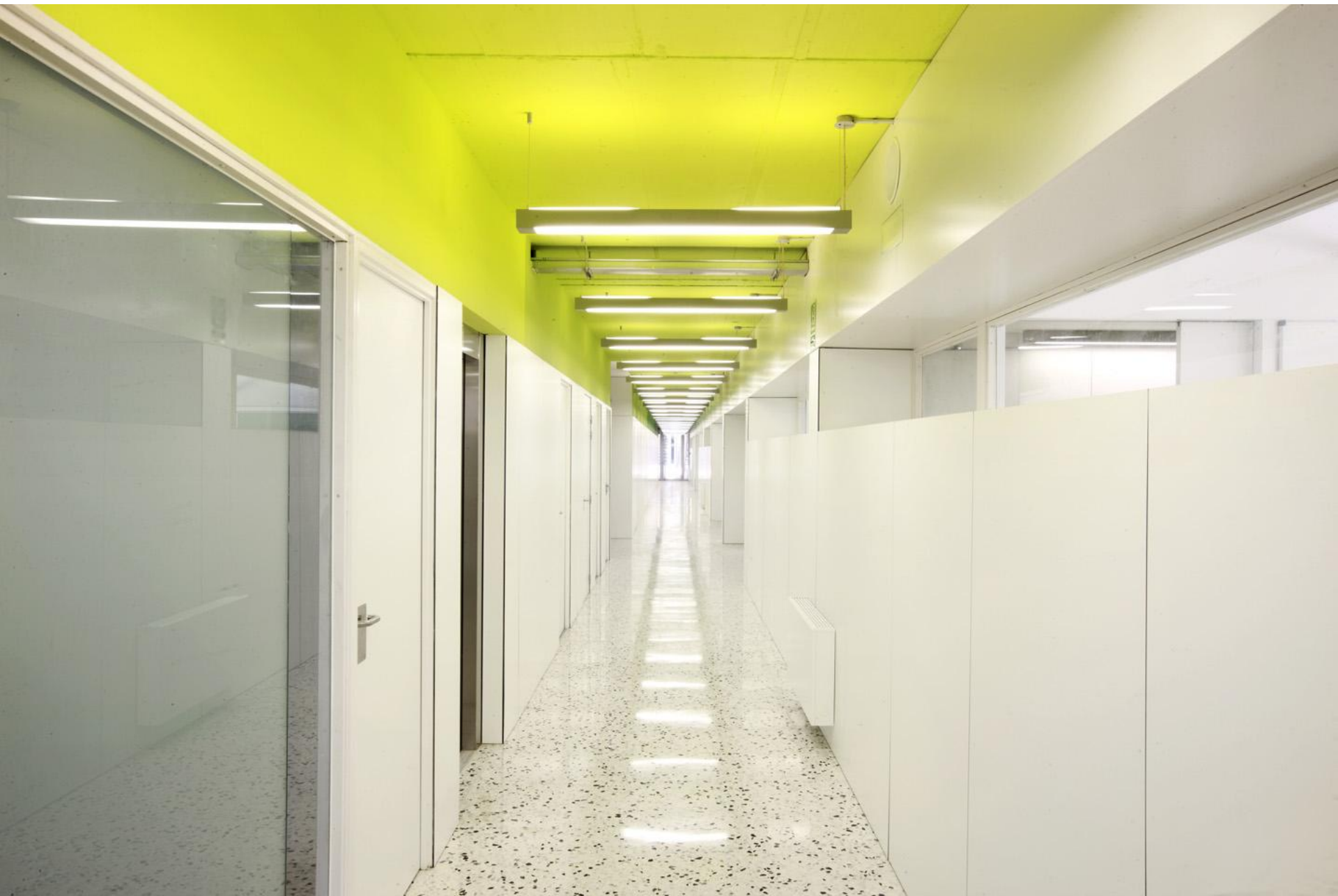
DATA D'EMISSIÓ 08/09/2011

VALIDESA MÀXIMA 07/09/2021



CLASSROOMS

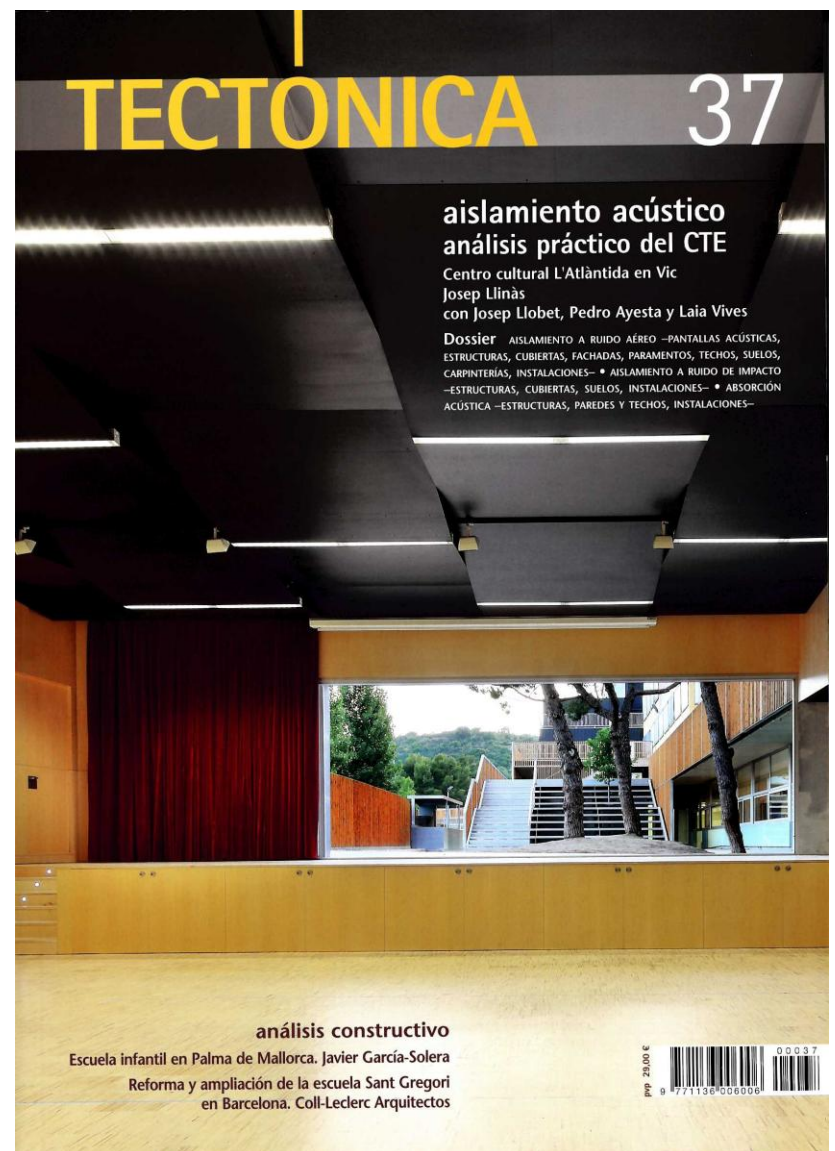
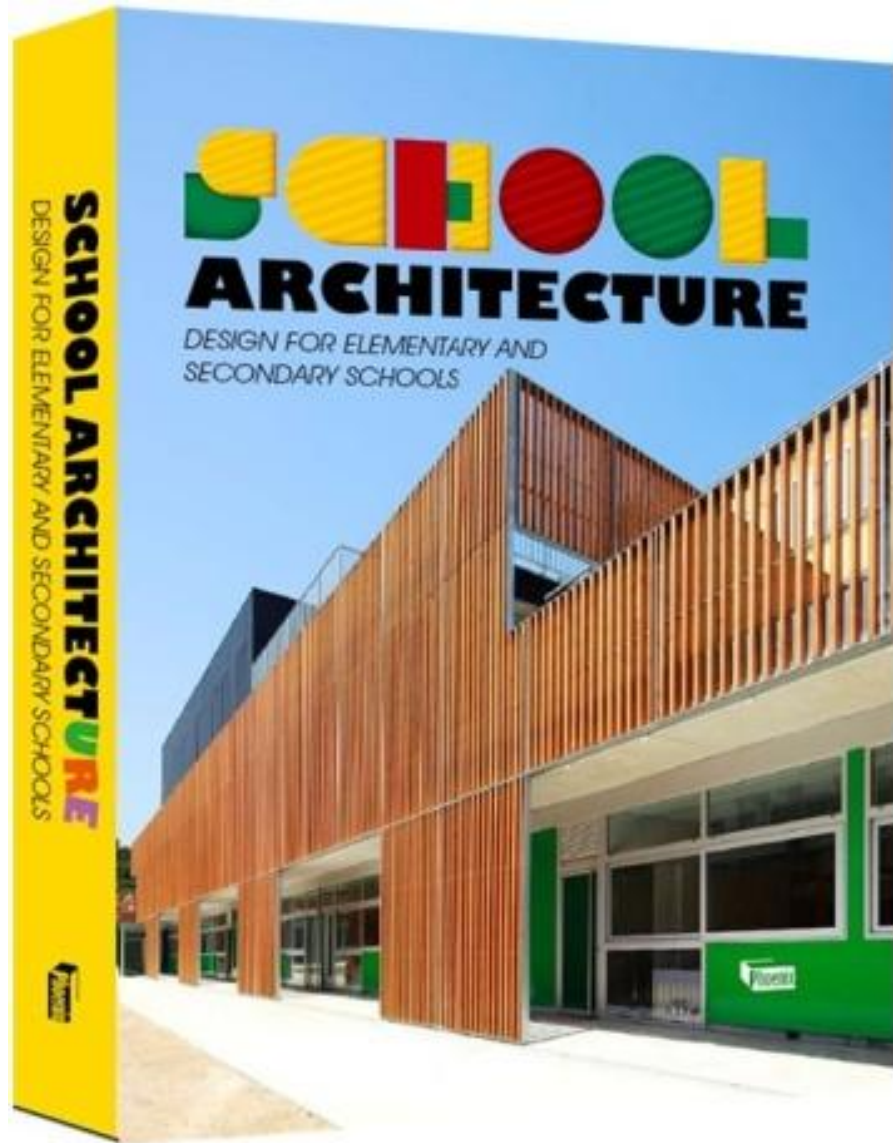
The space of the classrooms was meant to be **as transparent as possible** to the outside and inside of the building to promote **visual contact between different age groups**. Glass openings at floor







Corridor connections for playgrounds are strategically placed on the southward façade, to simultaneously create a **sun protection device** for the classrooms and **visually connect users**.



<http://www.santgregori.org/index.php/en/serveis/raco-de-pares/noticies?view=article&id=448>