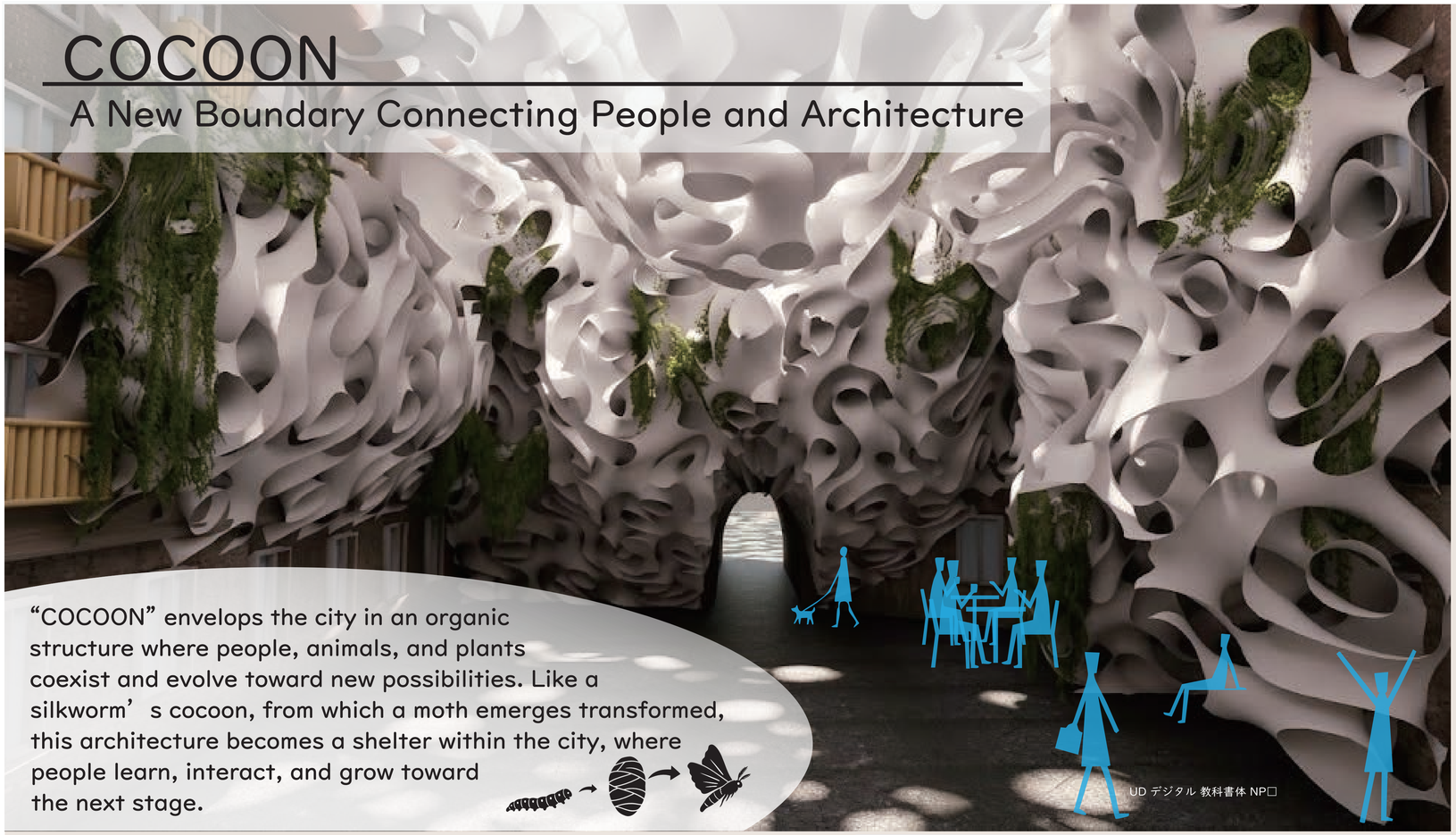
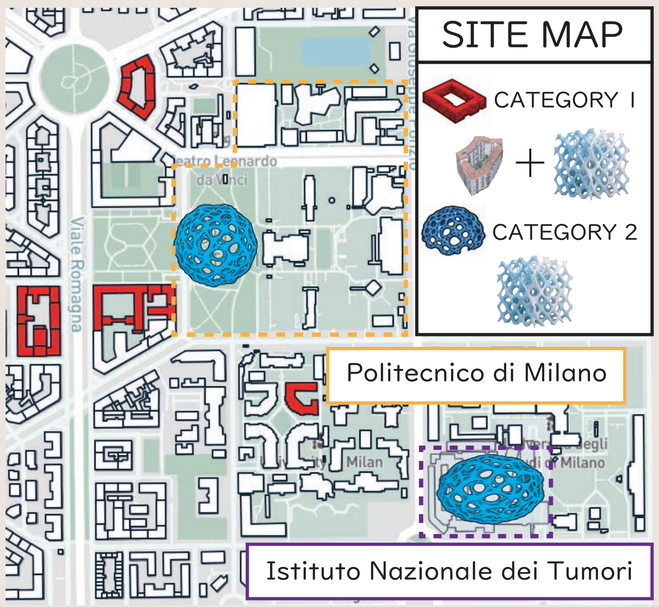
COCOON

A New Boundary Connecting People and Architecture



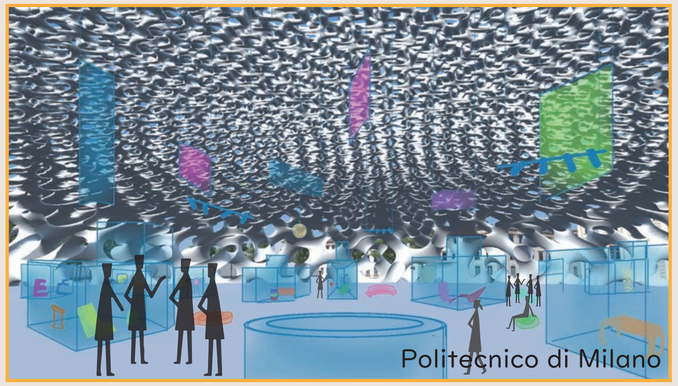
“COCOON” envelops the city in an organic structure where people, animals, and plants coexist and evolve toward new possibilities. Like a silkworm’ s cocoon, from which a moth emerges transformed, this architecture becomes a shelter within the city, where people learn, interact, and grow toward the next stage.

SITE MAP



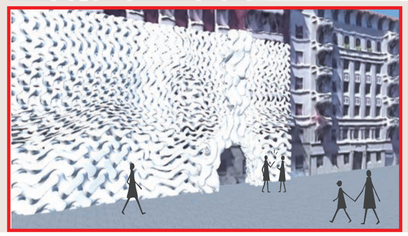
LANDSCAPE

Within the blurred boundaries created by COCOON, people are deepening their connections in various ways—through architecture, daily life, and events.









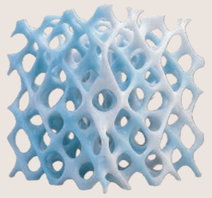






WHAT IS GYROID?

$$\sin(x)\cos(y)+\sin(y)\cos(z)+\sin(z)\cos(x)=0$$



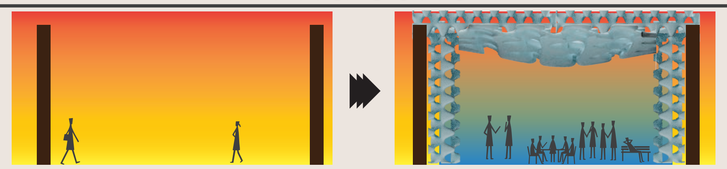
STRUCTURE
Lightweight Frame · Efficient Material
SOCIAL
Continuous Surface · Fluid Boundary
COMFORTABLE
Natural Ventilation · Thermal Control
BIOLOGICAL
Optimal Structure · Fractal Geometry



Microstructure of an Insect Wing

The cocoon employs a gyroid form, whose complex, continuous curves create a porous environment— allowing light, wind, and greenery to filter into the interior.

PLANING CONCEPT

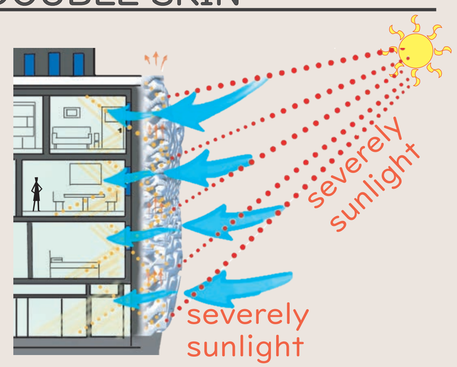


Within the COCOON, life finds its own climate

Across Città Studi, courtyards enclosed by buildings sit within the urban fabric, yet generate little activity or exchange. COCOON introduces a porous Gyroid membrane—continuous from street through building to courtyard—that draws in light and air, turning closed spaces into places where architecture and nature respond to one another. Here, students and local residents gather, crossing paths in their everyday lives.

ADOPT GYROID DOUBLE SKIN

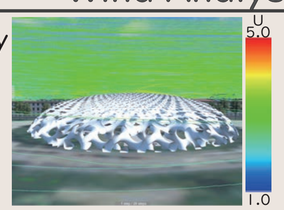
The Gyroid envelops the building as a double membrane, creating an air layer that moderates solar heat while releasing warmth through natural airflow. Its omplex curved surface diffuses light and guides ind, stabilizing the interior without echanical systems. This effect shifts with the seasons, as the membrane breathes year-round.



Wind Analysis Results

Summer Day

Stay Cool and Let the Breeze In During the Scorching Summer.



Winter Day

It serves as a shelter that blocks strong winds from the mountain range in winter.



