## **ENSTA**

# The new ENSTA ParisTech campus has moved to the Palaiseau site.

#### CLIENT

SOGEPROM and ADIM Ministry of Defense

#### **TEAM**

Patriarche/Lacoudre (Architecture)
Partners:
SLG paysage, Incet, Scyna 4, ACV, GECOB, COTEC,
COTEBA
Credits:
Photos: ©11h45 et ©Nicolas Borel

#### **KEYPOINTS**

Clarity of flows. Encourage exchanges. Planted facades. Large, landscaped park.

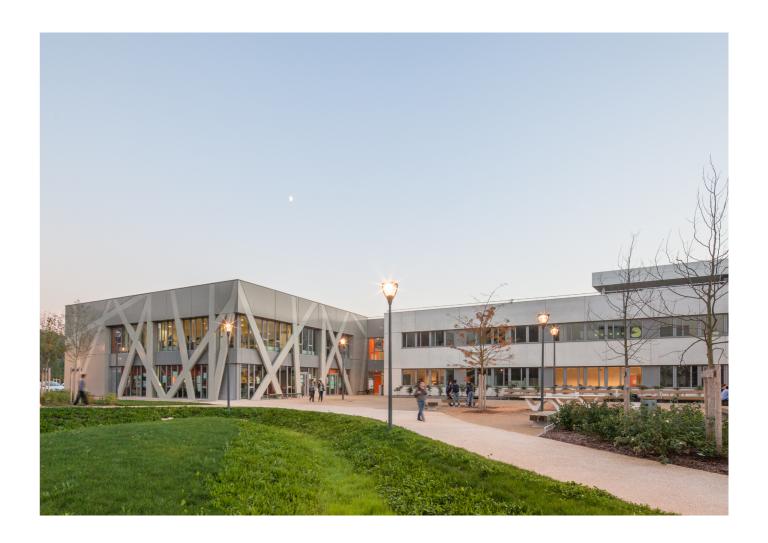
#### SUSTAINABILITY

Certification " NF bâtiment enseignement démarche HQE - Certivea ".

The project, carried out within the framework of the ParisTech programme, aims to make the Saclay plateau a centre of scientific excellence at world level.

Located in a landscaped park, the building houses the general teaching, the Applied Mathematics Unit (UMA), a research area: the Applied Optics (LOA) laboratories, the Mechanics Unit (UME) and the Chemistry and Processes Unit (UCP) laboratories, as well as shared spaces: administration offices, a library, two lecture theatres and a cafeteria.







### A campus with trees

The new ENSTA ParisTech campus has taken over the Palaiseau site by integrating itself into the geometry of the Polytechnique's structural axes while offering a new landscape identity at the heart of the site. We decided to build the school, the main building of ENSTA ParisTech, along the boulevard in order to create a vast landscaped park at the back.

This park is made up of large planted lawns which frame the new accommodation buildings, thus allowing the theme of a tree-lined campus to be developed. The "outdoor conviviality spaces" fit naturally into the design of the hilly park to encourage places of exchange and conviviality.

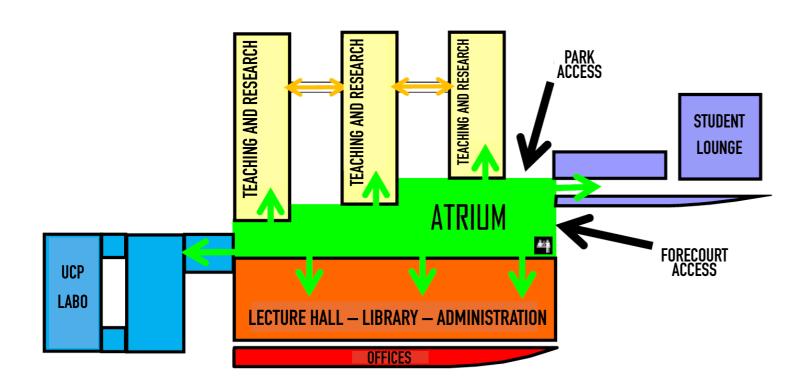
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### **Intentions**



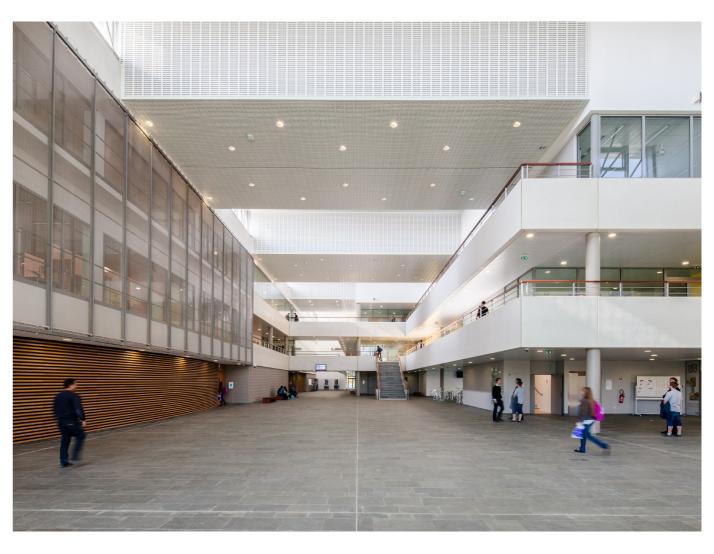
The architectural design of the ENSTA ParisTech school corresponds to the organisation of the interactions between the services and expresses the specificity of the differentiated typologies (collective services or teaching spaces), all grouped around a "Hub", the atrium.

The atrium distributes all of the School's activities through transparent passageways that reflect the interactions and exchanges of this community. Its generous size welcomes all the students and the holding of major events. The atrium distributes all the School's activities by transparent corridors that reflect the interactions and exchanges of this community.





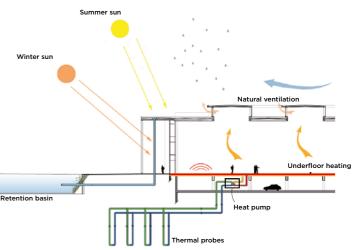




### Renewable energy



The Ensta ParisTech campus is certified The project has been awarded the "High Environmental Quality" label in both the construction and operating phases. The choice to use renewable energies makes this a project pilot in the field of sustainable development.



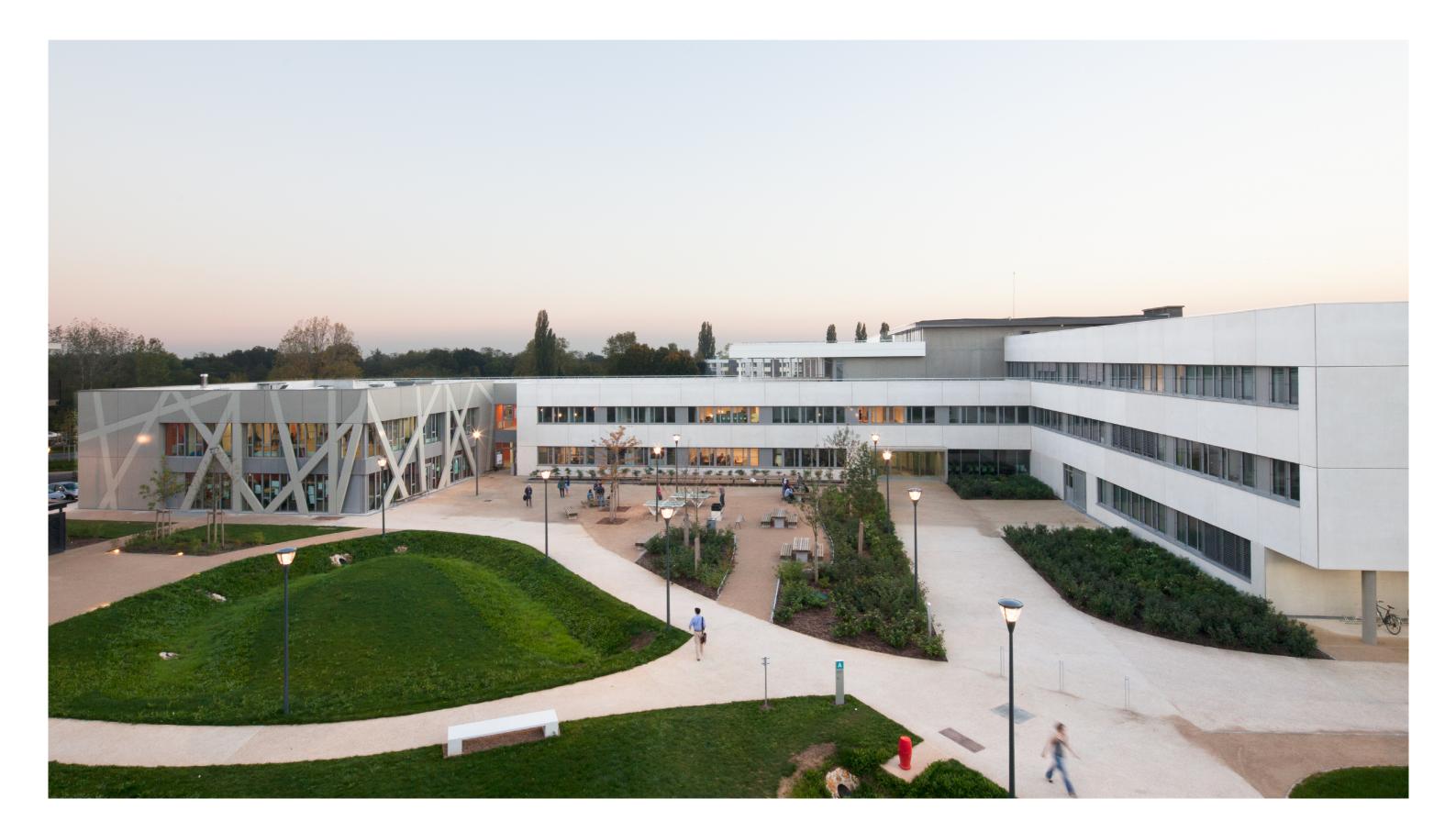
#### **High Environmental Quality (HEQ)**

Several energy sources are combined to supply the entire project: low-temperature geothermal heating, domestic hot water production by solar panels and photovoltaic electricity.

Energy losses are controlled by external insulation that increases the building's inertia (including green roofs) and a double-flow ventilation system.

### Rainwater management integrated into the landscape

In order to preserve the environment, the organisation of the landscape has taken into account the treatment of rainwater based on a system of five "vegetated" retention basins with regulated discharge of the stored rainwater into the river system.



### **ENSTA**

Typology

GFA

20 900 m<sup>2</sup>

Cons

Construction cost

Status

**Equipment, Education** 

46 M€

Location
Paris, France

Completed 2012
Project delivery

**Design and production**