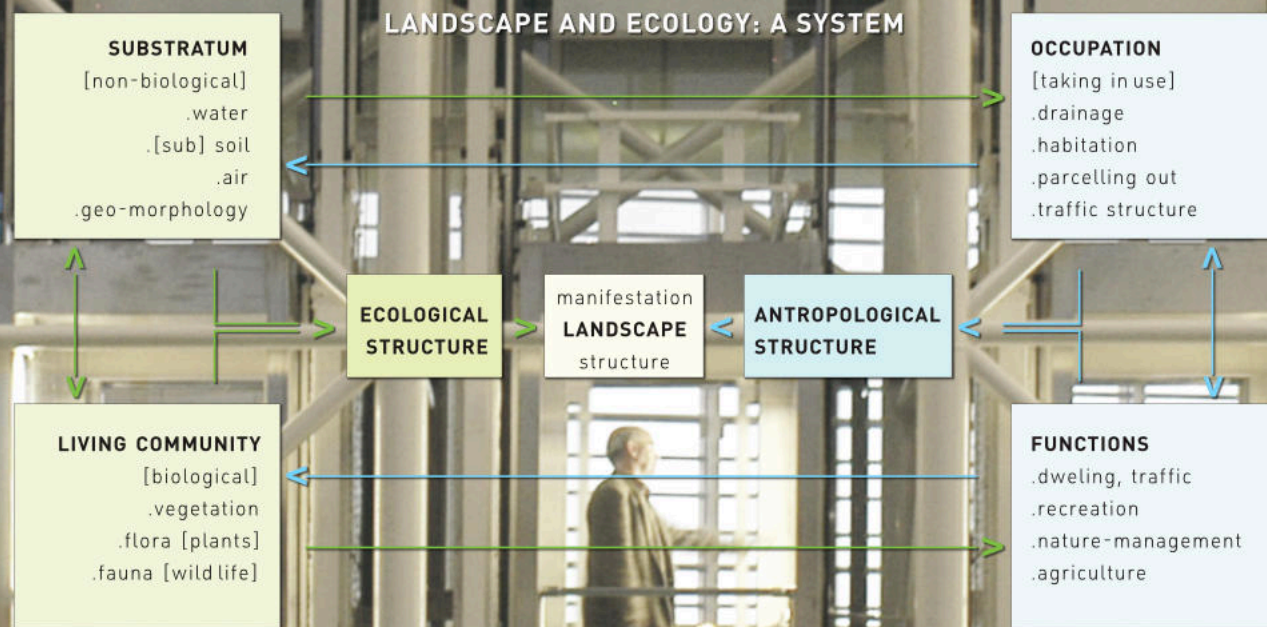




Sustainability

by **N L A**

Sustainability



8.

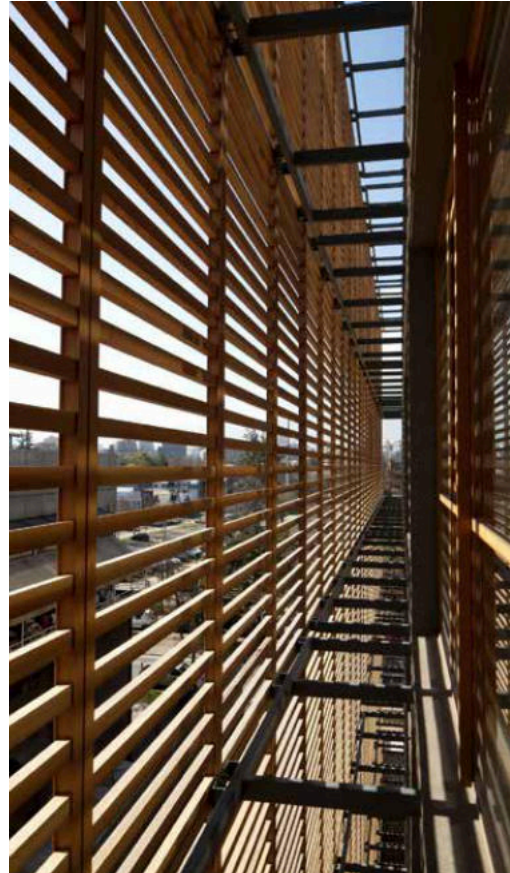
Sustainability should not be viewed as a FAD, but a standing commitment of every project at all stages. Solar energy, natural ventilation, correct building layout and implantation on site, thermal insulation of the envelope and solar shading are tools we use, to different extents, in almost all our projects. Our target is to design buildings as responsive environment & energy systems capable of using to their benefit all the environmental factors available, at low operating costs. Maximized energy efficiency made possible by this strategy, together with sound environmental performance, will result in new living standards and increased competitive advantage for the buildings. Master plans, as they dictate the design of future buildings, are the first element required to implement these principles. Bearing this in mind we adopted the specific methodology successfully applied by NLA in Europe's largest Sustainable Master Plan - the Ecocentre Masterplan of Ispra, Italy.

Sustainability Strategy

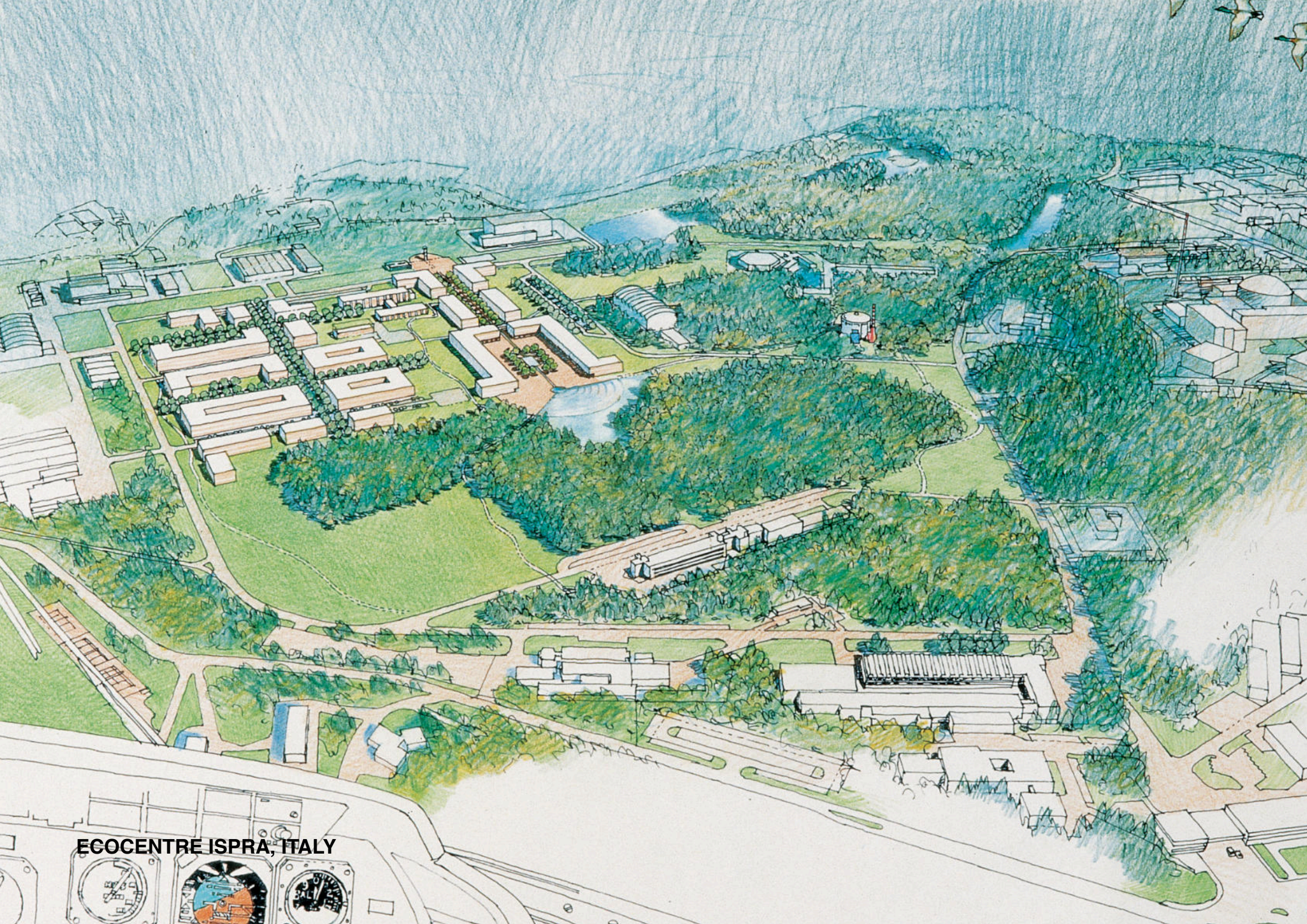


- Building to add value to environment, by integration and becoming part of pedestrian circulation network (cradle to cradle strategy);
- Minimize environments impact; Minimize ground impact by maximizing landscape integration;
- Passive architecture design
- User psychosomatic and environmental comfort
- Indoor air quality control
- Maximize Sustainable energy sources
- Maximize daylight and use of efficient lighting systems like LED technology
- Water management, by collecting and use of rainwater, and wasted shower
- water for irrigation;
- Garbage recycling collection and storage;
- Environmental conscious design;
- Reduction of operating and maintenance costs;
- Optimize energy use;
- Meet A Class for Portuguese energy certification;
- Target LEED Platinum Certification;
- Prepare to NET ZERO Building criteria;

Design for Sustainability



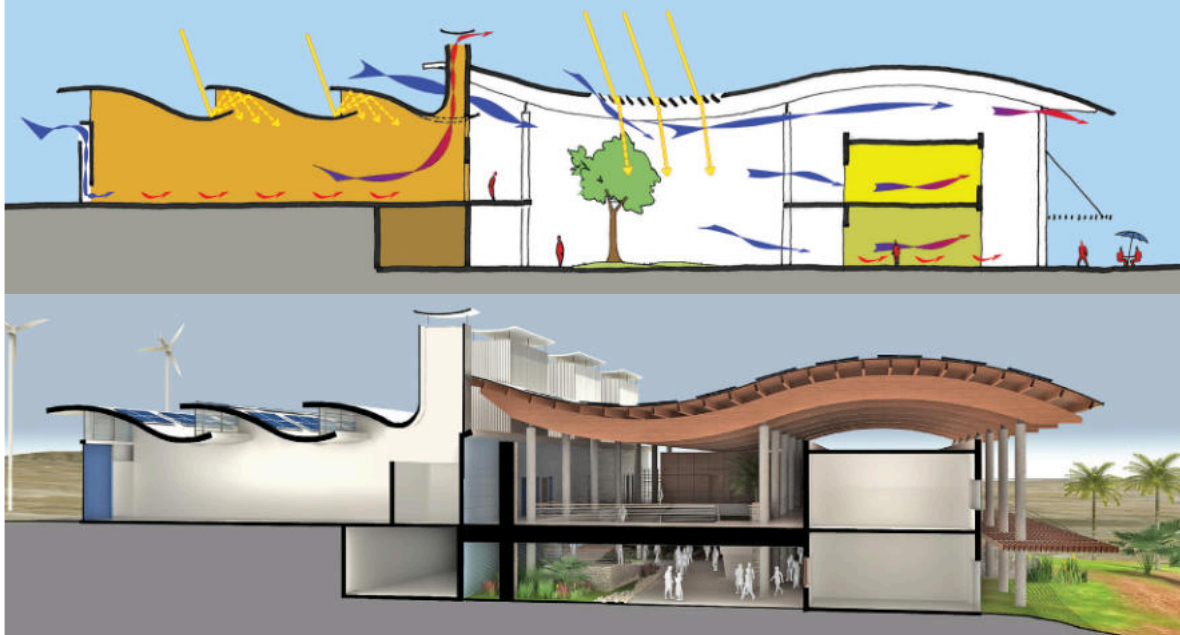
- Solar orientation E-W to reduce Summer solar gain
- Thermal inertia of the building;
- Sunshade panels in South and West facade;
- Atrium as a protected pedestrian street
- Natural ventilation of Atrium and units;
- Enhance use of daylight;
- Thermal insulation of building envelope;
- Use of environmental friendly materials;
- Roof top gardens as insulating system;
- Life Cycle Analysis



ECOCENTRE ISPRA, ITALY



RENEWABLE ENERGIES TRAINING CENTRE





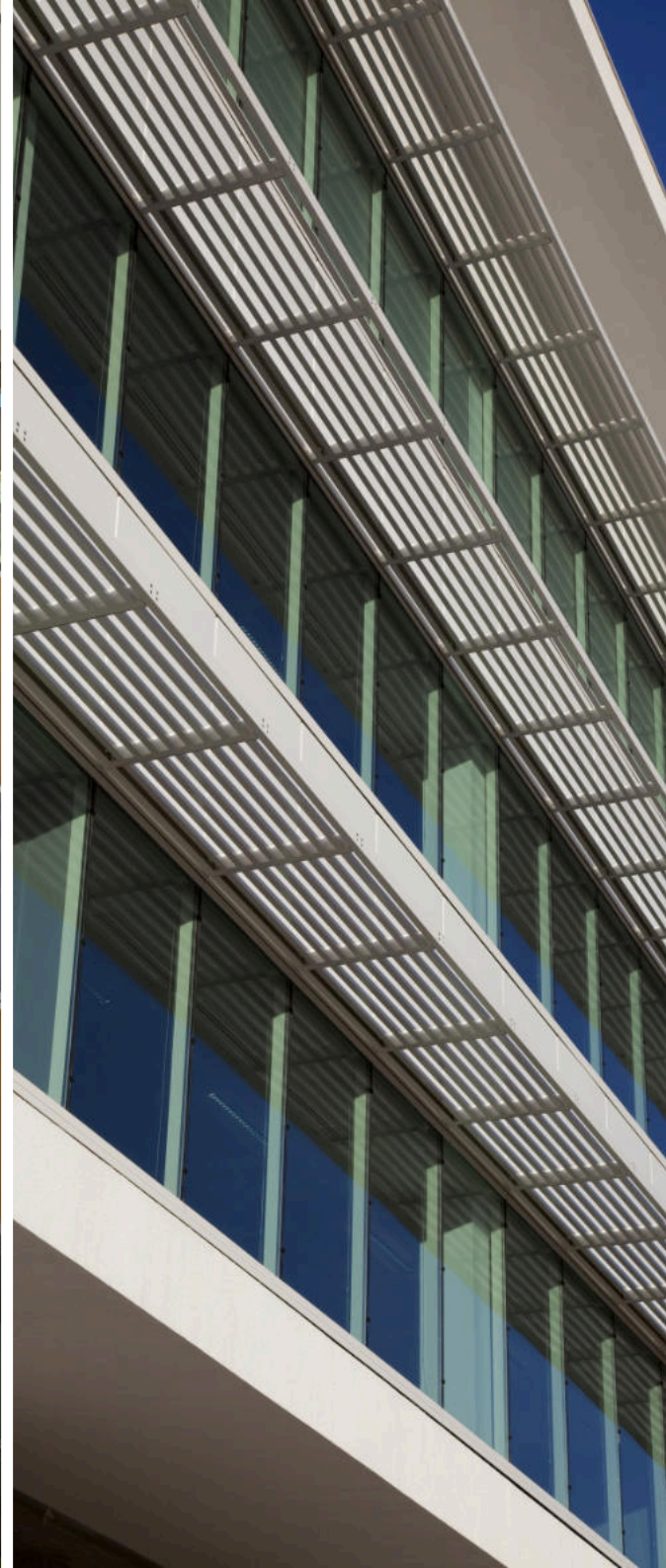
município do seixal

câmara
municipal

SEIXAL TOWNHALL



SEIXAL TOWNHALL





FATMA AND FAPESC HEADOFFICE SANTA CATARINA



IMPRESA AND SIC HEAD OFFICE



IMPRESA AND SIC HEAD OFFICE



IMPRESA AND SIC HEAD OFFICE



MYRIAD CRISTAL CENTER



MYRIAD CRISTAL CENTER



CAMPUS DA JUSTIÇA



CAMPUS DA JUSTIÇA





EPIC SANA ALGARVE *****



EPIC SANA ALGARVE *****



NLA - Nuno Leónidas Arquitectos, Lda. | Rua Calvet de Magalhães 244-29, 2770-022 Paço de Arcos | adm@nla.pt

www.nla.pt

N L A

nuno leónidas
arquitectos