

Education

by N L A



The design of a university campus or any given buildings devoted to Education implies a full understanding of the changes in teaching methodologies in recent times. In modern teaching, more than conveying knowledge it is important to create self-learning methods and stimulate curiosity. The new information technologies have created no less than a revolution in knowledge apprehension with direct outcome in the design of new teaching spaces. New Education facilities must be able, through a clever design, to potentiate the various teaching methods, whether formal or informal. The study of spaces for creation and transmission of knowledge through time since the Agora, followed by the Forum and the cloister and ending in the Amphitheater Room, all were designed and

meant to find new paradigms following the latest trends. Today, besides the more formal teaching spaces which must be equipped with state of the art technologies, it is important to foresee meeting and co-working spaces, exchange of ideas and experiences, both for individual and collective study. Such buildings, when designed by us, possess as main and common feature the creation of a central meeting space, a true dorsal spine from where all the alumnae and faculty flow connecting the functional spaces stem. We know the several and diversified cultures and geographies in order to better respond to all the challenges we're confronted with.



AGA KHAN ACADEMY MAPUTO

Mozambique | 2015 - ongoing

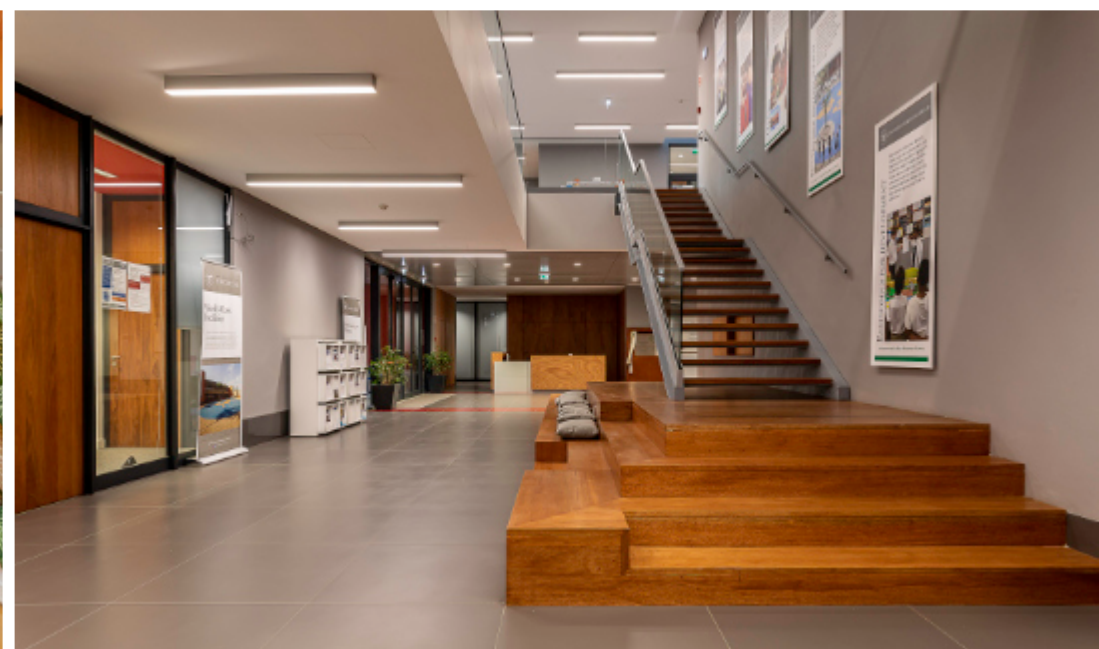




According to the teachings of the Ismaelite community, a Masterplan for an inclusive academy is born. In a permanent filled or empty game, the buildings organize themselves in an organic way - a student environment for 1.300 alumnae and 300 faculty. With a lodging capacity for the entire faculty and 600 students.

+ BUILDING SURFACE: 52.697m²





RENEWABLE ENERGIES TRAINING CENTRE

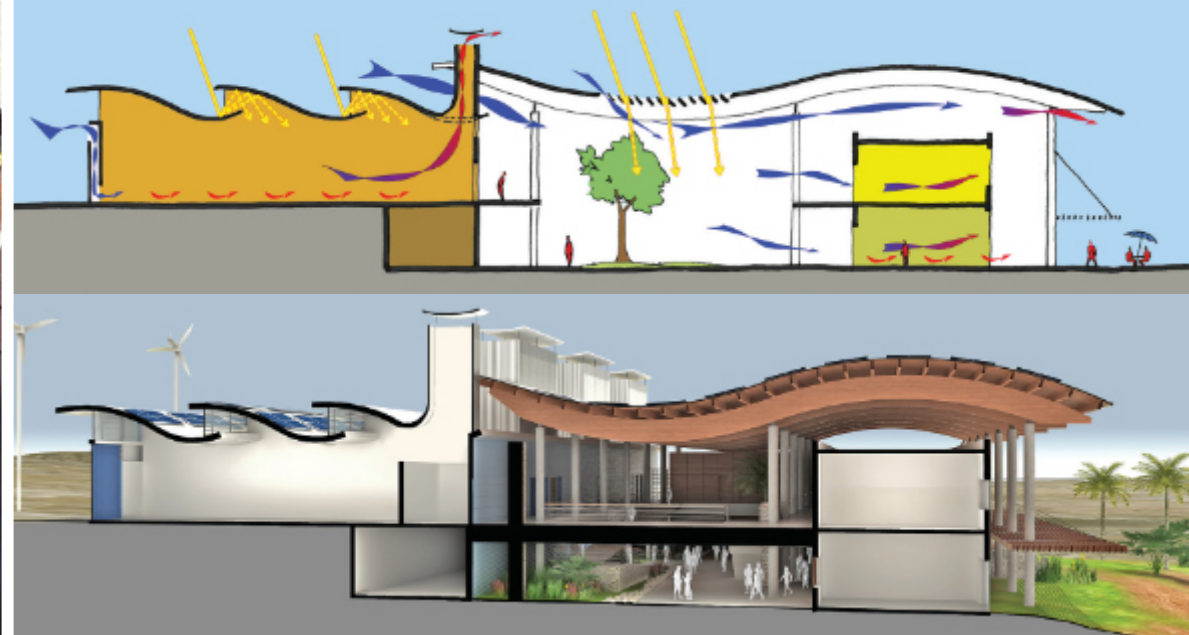
Cape Verde | 2010 - 2014

+ BUILDING SURFACE: 4090m²

+ 2 FLOOR

The building is a landmark in sustainable design, using dominant winds for its natural ventilation





PARK INTERNATIONAL SCHOOL ALFRAGIDE

Lisbon | 2023 - Ongoing

+ GROSS CONSTRUCTION: 9060m²













inspired

NATIONAL UNIVERSITY OF TIMOR LOROSA'É

East Timor | 2011

Located in the valley of Hera at the foot of a mountain, distant 8 kilometers from Dili. The natural fusion between Nature and Education - The East Timor Public University Campus Development Plan - with an expected 55.000 alumnae, 1.200 faculty and 600 employees.

+ MASTERPLAN: 367ha

+ BUILDING SURFACE: 583.735m²





Chapel and House of Education of the 'Escravas da Santa Eucaristia'

East Timor | 2011



COLLEGE OF AGRICULTURE OF EAST TIMOR' NATIONAL UNIVERSITY

East Timor | 2014



Located on East Timor's Hera Campus, UNTL is characterized by its bioclimatic and contemporary architecture - buildings enabled with natural ventilation and shading devices set off ground to prevent flooding and allow cross ventilation.

+ BUILDING SURFACE: 19.913m²



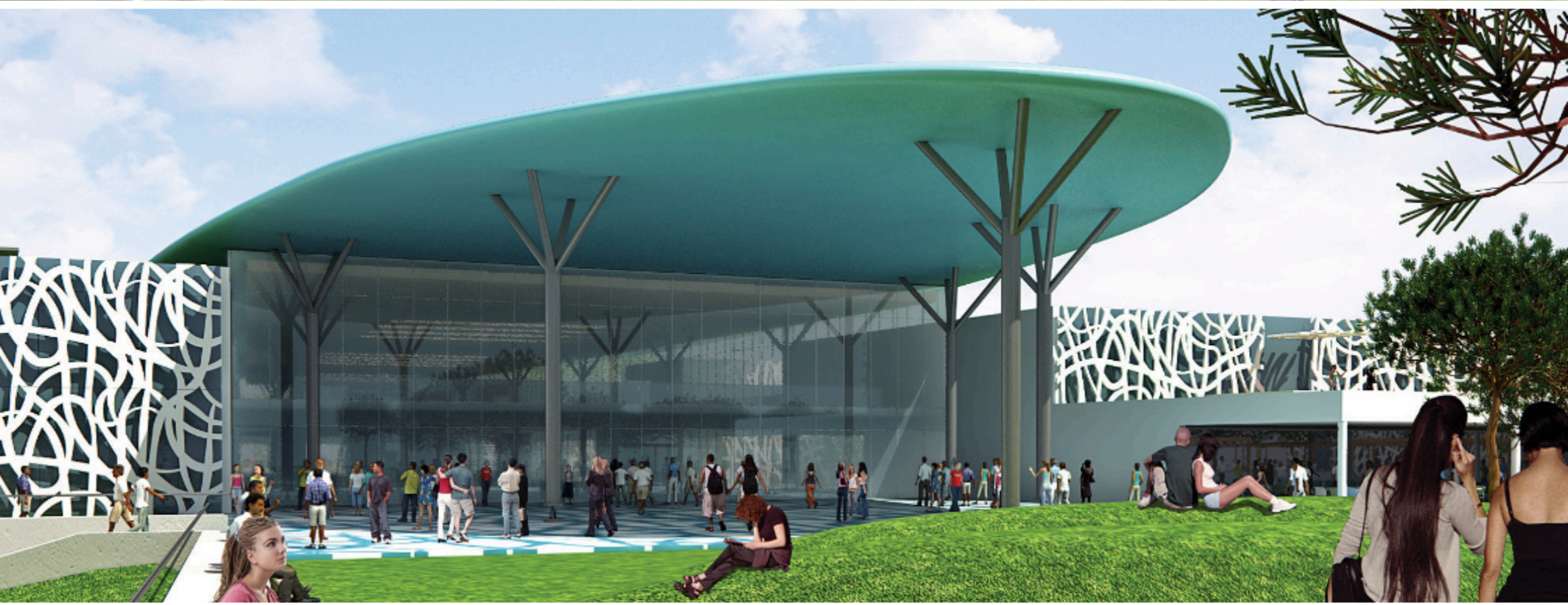
NOVA SCHOOL OF BUSINESS AND ECONOMICS LISBON

Portugal | 2013

Designed for XXI century university level teaching concepts, through its privileged location and using a central covered plaza for students and faculty to meet and interact. A surfboard-like rooftop structure surfing the waves' foam helps create the image that teaching can co-exist with leisure and fun.

+ BUILDING SURFACE: 64.237m²





LOSPALOS POLYTECHNIC

East Timor | 2011

From the initial starting point at 'Praça Cívica' the pedestrian axis connects the various buildings and departments of Los Palos Politechnic Campus

- + MASTERPLAN: 18ha
- + BUILDING SURFACE: 66.166m²



EAST TIMOR LANDMARK SCHOOLS

East Timor | 2011



The study of a prototype model for excellence schools in East Timor allows for the 12 college levels to be ministered under the same complex, for a population of 1.000 alumnae, including accommodations for faculty and students. The concept of an evolutionary school allows for its expansion as students' population rises. From the main entrance the central axis called 'Learning Street' runs along the complex until it ends at the sports area.



STUDENTS RESIDENCES

Tibar | 2010

Located on the outskirts of Dili, these students' residences stand out for their informality and relation with Nature through a modular and bioclimatic Architecture.

A ventilated rooftop in the line of the 'Mater Café' covers all the functional spaces.

+ BUILDING SURFACE: 1084,5m², 1 FLOOR



STUDENTS RESIDENCE

Cape Verde | 2011



The architecture in close dialogue with its surroundings under a modular pattern. Residential modules mingle with those of common areas for equipment and leisure.

+ BUILDING SURFACE: 3875m²

+ 3 FLOOR



FATMA AND
FAPESC
HEADOFFICE
SANTA
CATARINA

Brazil | 2012





Centered around the idea of minimizing the ecological footprint, a building with 'bioclimatic consumption zero' is born, with green facades and rooftops where Education and Research materialize themselves.

+ BUILDING SURFACE: 6.500m²

+ 7 FLOOR, 4 BASEMENT

INSTITUTE OF NATIONAL DEFENSE OF EAST TIMOR

East Timor | 2011

With tropical design principles in mind, the Campus is composed of three areas: Accommodation, Intellectual Teaching and Physical Training.

+ BUILDING SURFACE: 7372,75m²



ECOCENTRE ISPRA, ITALY

Italy | 1994

Re conversion of a nuclear research center into an ecological research center through the concentration of buildings in a central area, freeing huge green zones and allowing for ecological corridors.

+ MASTERPLAN: 18.5ha

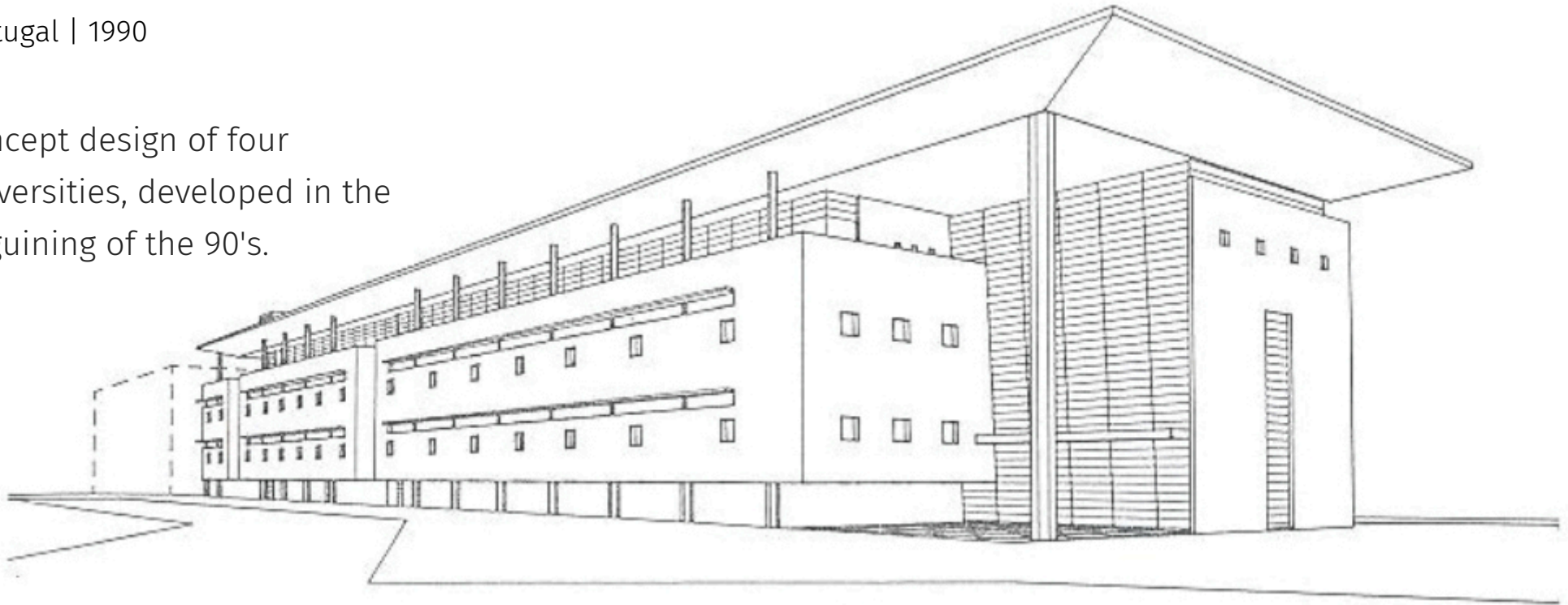
+ BUILDING SURFACE: 65.000m²



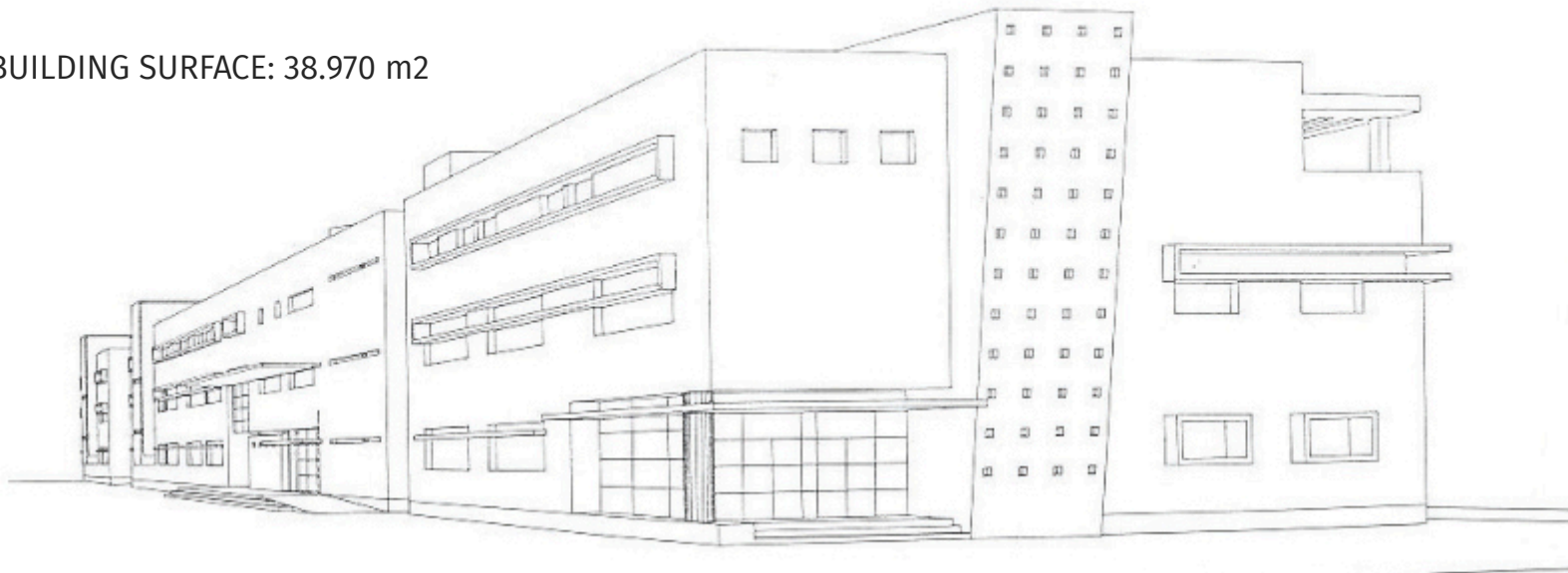
CONCEPT DESIGN OF UNIVERSITIES

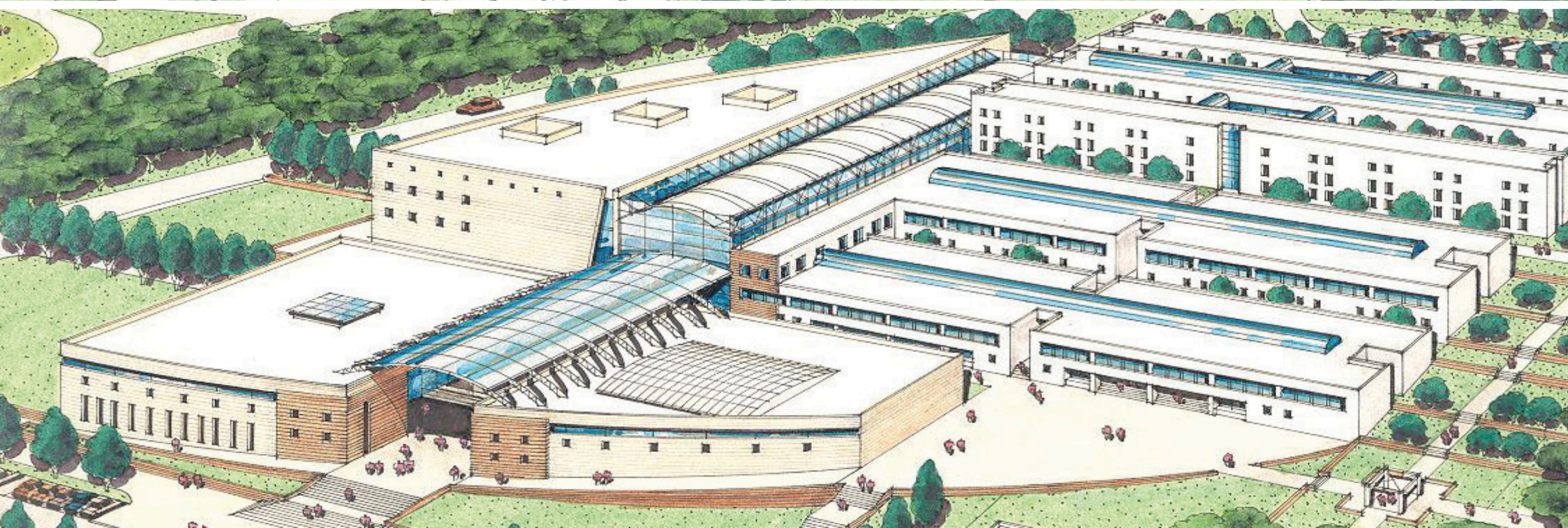
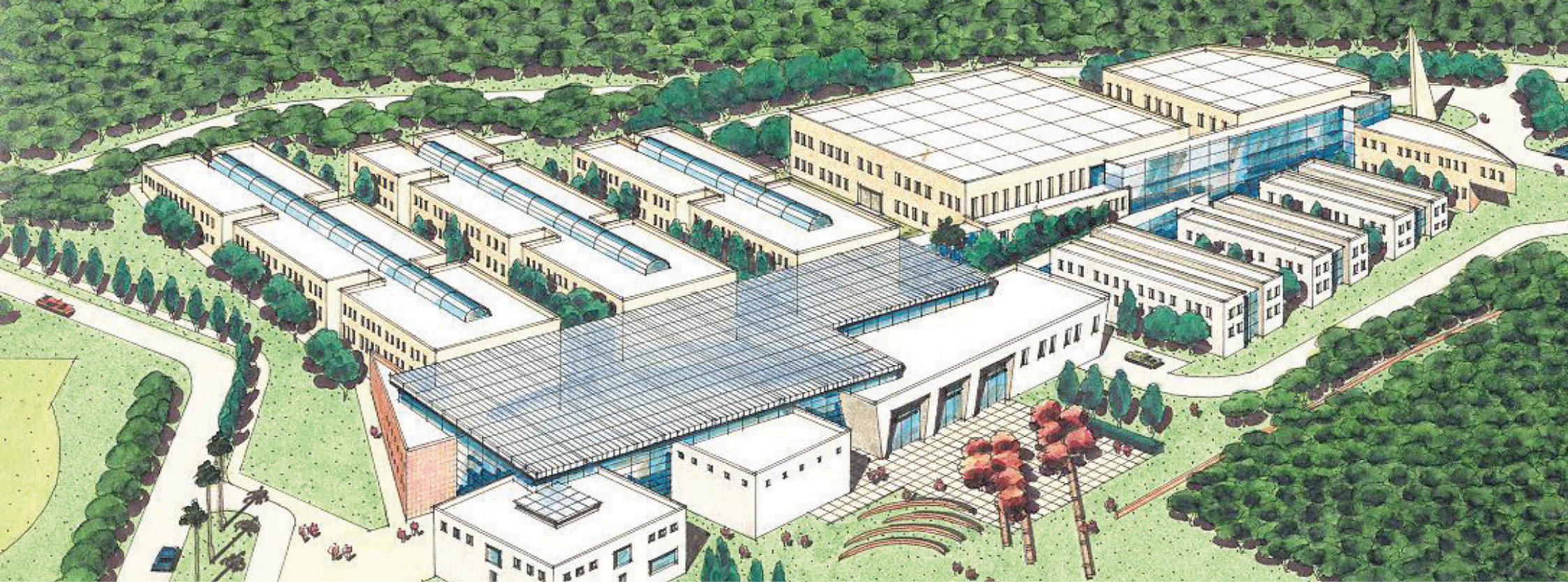
Portugal | 1990

Concept design of four universities, developed in the beginning of the 90's.



+ BUILDING SURFACE: 38.970 m²





NATIONAL INSTITUTE FOR SCIENTIFIC RESEARCH

Portugal | 1985

Center for Research in Physics where passive solar architecture principles were used. It was the first in Portugal with a ventilated ceramic facade.

+ BUILDING SURFACE: 4914m²

+ 3 FLOOR

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.

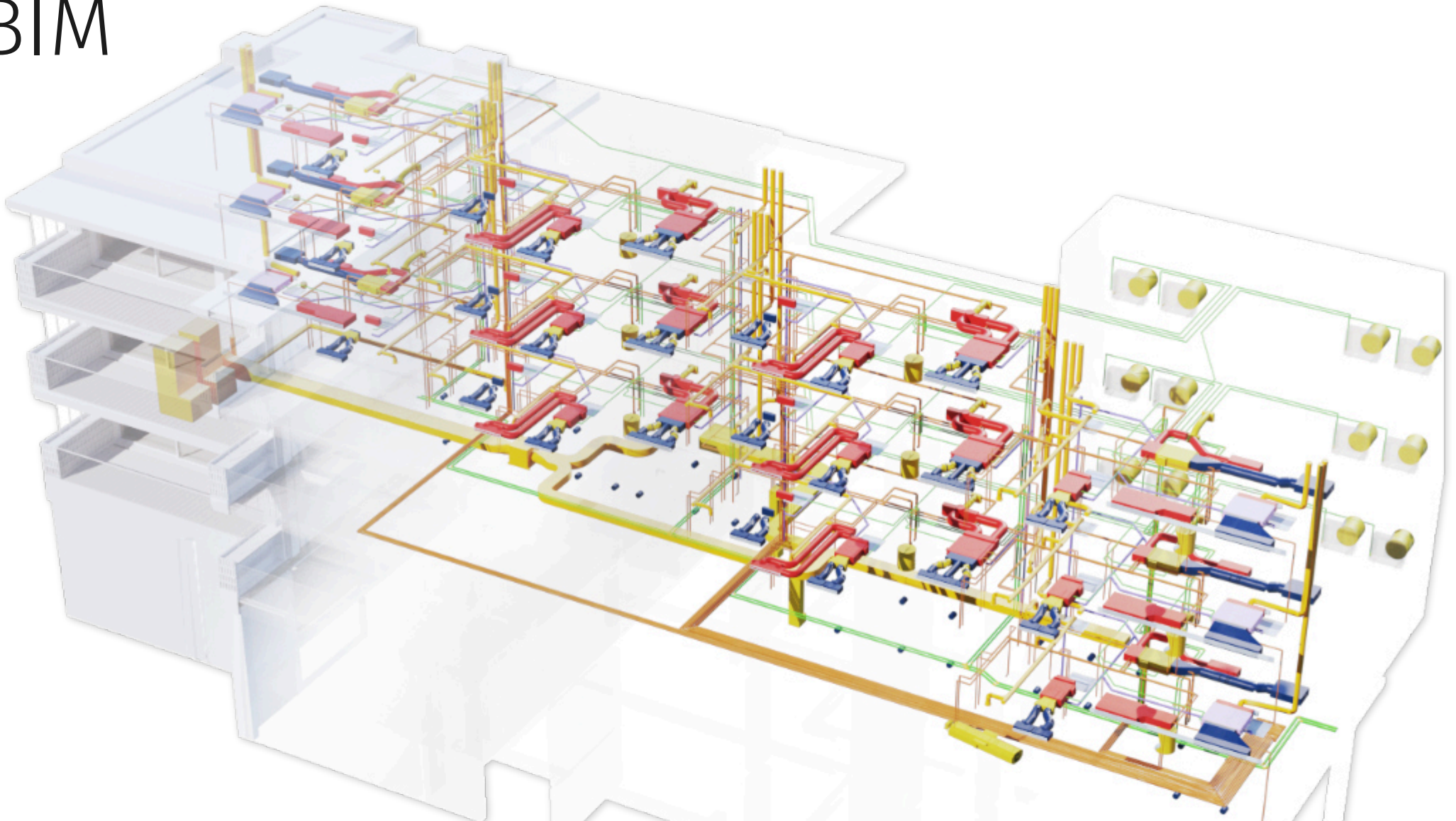
Quality

At NLA, each client is unique, with unique expectations and needs, to whom we offer a top level of customized service, through a rigorous methodology, one which looks at every single opportunity as unique, searching for optimal technological and innovative solutions with a strict compliance with timelines and a permanent cost control exercise. Our multi-disciplinary team is highly qualified and experienced, enabling us to follow all design stages, from early conception to final completion.

We count on the commitment, involvement and dedication of our collaborators and partners to achieve a common goal: Excellence. The Board at NLA is committed to make available the necessary resources so that the Quality Policy can be implemented by all our staff and partners, and the strategic objectives met, such policies being one of the keystones of NLA' strategic orientation.



BIM



With exponential worldwide BIM growth, NLA is on the frontline to master all its tools. We hold a team of architects and BIM specialists who work daily to achieve more coherent and sustainable projects and buildings. A dedicated procedures' strategy and standards is followed, allowing for better productivity and optimal inter-operability amongst teams. The main software is Autodesk Revit, with LOD (Level of Development) comprised between 200 and 300. We use Navisworks for BIM models' coordination, and we are introducing Civil 3D and Dynamo. Online platform Autodesk BIM 360 DOCS enables the client to keep track of the models' development. This cloud service manages the various uploads, viewing and sharing information and keeping an updated register of all files. Different team work in direct contact with one another based on latest versions even if stationed in different countries.

Education projects locations

NATIONAL INSTITUTE FOR SCIENTIFIC RESEARCH
PLANO DE URBANIZAÇÃO UNIVERSIDADE NOVA - ALMADA
CONCEPT DESIGN OF UNIVERSITIES
NOVA SCHOOL OF BUSINESS AND ECONOMICS LISBON
PARK INTERNATIONAL SCHOOL, ALFRAGIDE

ECOCENTRE ISPRA

RENEWABLE ENERGIES TRAINING CENTRE
STUDENTS RESIDENCE CAPE VERDE

FATMA AND FAPESC HEADOFFICE
SANTA CATARINA

NATIONAL UNIVERSITY OF TIMOR LOROSA'E
LOSPALOS POLYTECHNIC
EAST TIMOR LANDMARK SCHOOLS
STUDENTS RESIDENCES TIBAR
INSTITUTE OF NATIONAL DEFENSE OF EAST TIMOR
FACULTY OF AGRICULTURE OF EAST TIMOR NATIONAL UNIVERSITY
CHAPEL AND HOUSE OF EDUCATION OF THE 'ESCRAVAS DA SANTA EUCARISTIA'

AGA KHAN ACADEMY MAPUTO

NLA Worldwide

Brazil | Cape-Verde | Indonesia | Morrocco | Middle-East | Mozambique | Portugal | East-Timor



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