



**THE CYPRUS
INSTITUTE**

Research • Technology • Innovation

OUR INSTITUTE – OVERVIEW



A research and educational institution suited to a **knowledge economy**, taking advantage of the Cyprus «**gateway**» niche.

A European institution, for the **Eastern Mediterranean** based in Cyprus.

A non-governmental institution devoted to the **public benefit** and for **advancing peace and prosperity in the region**, using science and technology.

OUR MISSION

RESEARCH

Produce novel research approaches for Cyprus and the region

EDUCATION

Achieve educational excellence through post-graduate programs

RELEVANCE

Deliver output that is relevant to industry and society

HUB

Act as a science and technology hub for the region

PARTNERSHIPS

Leverage local and international partnerships



OUR VISION

To help foster the development of a knowledge-based economy in Cyprus through cutting edge scientific research and education that has regional as well as international significance.

Cyl is being developed as a gateway for research and technology in the Eastern Mediterranean Region to and from the EU.



STRATEGIC PRIORITIES



RESEARCH ACHIEVEMENTS

Secured

>€22,5m

Competitive Grants

Scientific

>250

Publications

Active

34

Research Projects

Cyl

105

Researchers and Faculty

Research

11

Laboratories



OUR RESEARCH CENTERS

Our
Fundamental
Building
Units

Energy, Environment & Water (EEWRC)

Science Technology in Archaeology & Culture (STARC)

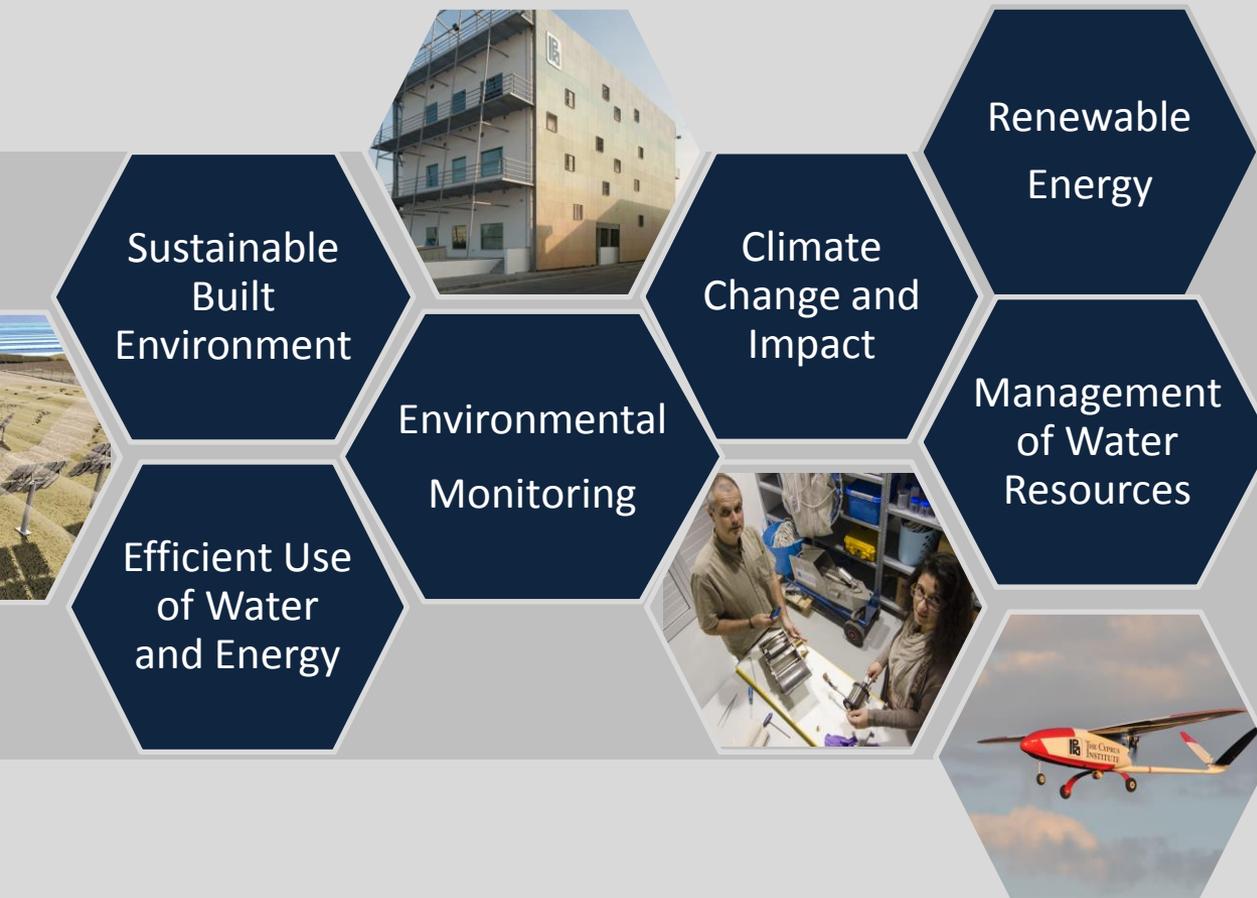
Computation-Based Science & Technology (CaSToRC)



Energy, Environment and Water Research Center



EEWRC: Primary Research Thrusts



Active

21

Projects

Founding

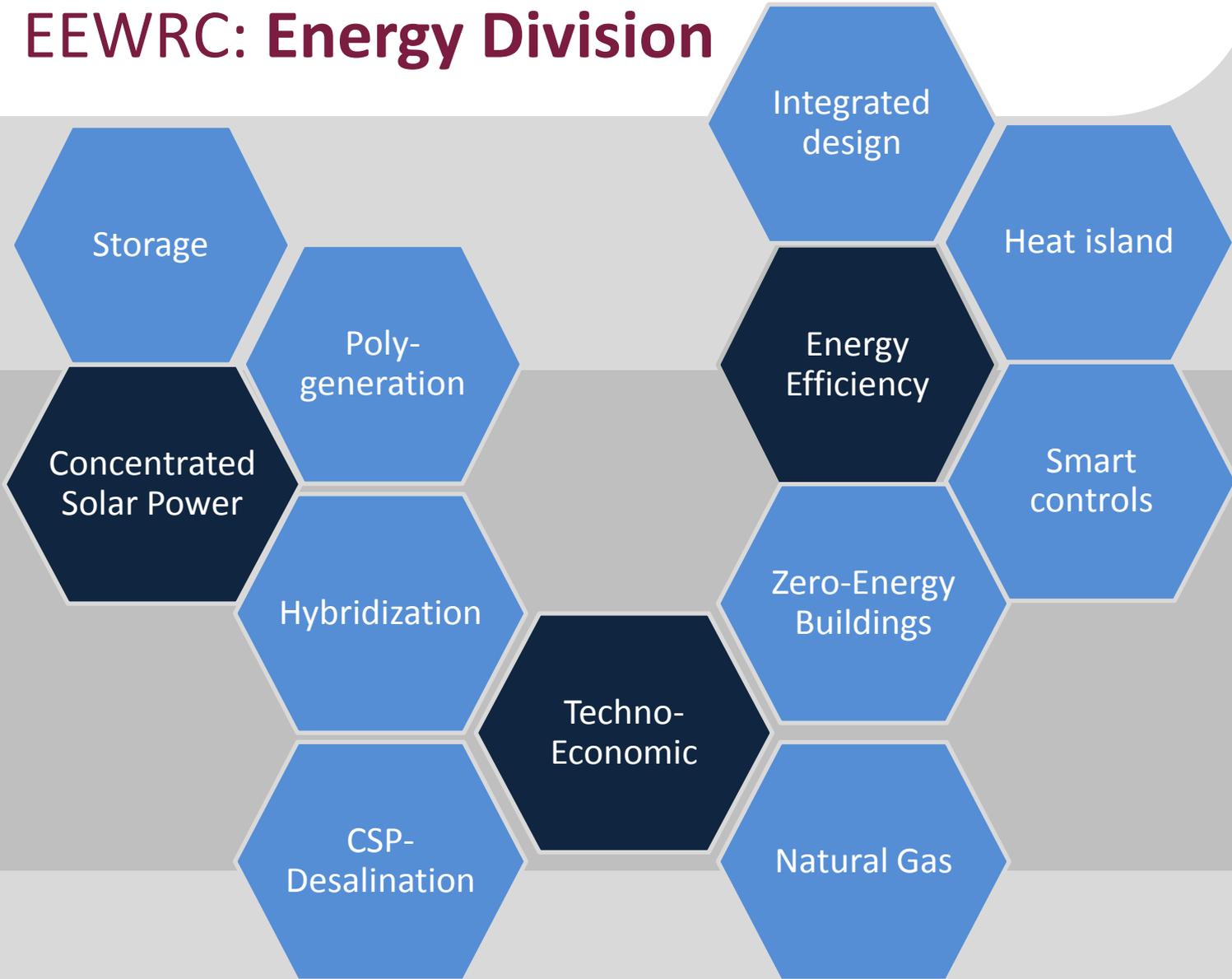


Massachusetts
Institute of
Technology

Partnership



EEWRC: Energy Division



Active

3

Research thrusts



EEWRC: Energy Division

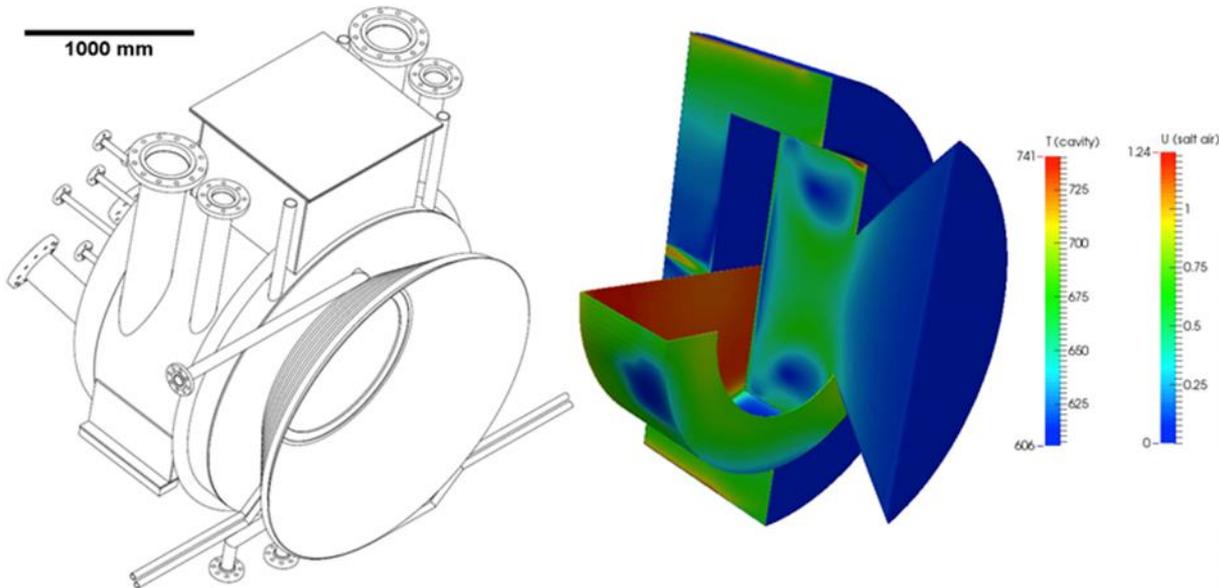
Active

9

Energy
Projects



Integrated Storage and Receiver (iSTORE)



Left: Isometric mechanical drawing of the iSTORE receiver installed at the PROTEAS facility

Centre: CFD simulation of the temperature and velocity profile of both the molten salt and the air mass in the cavity expected at its peak performance. A patent has been applied for by Cyl.

Right: iSTORE being delivered at the Pentakomo site.



Facilities and Laboratories

Platform for Research, Observation, and Technological Applications in Solar Energy PROTEAS

Inaugurated on 3rd October 2015. Attending
President Anastasiades and
EU Commissioner Carlos Moedas



Funding secured by the European Research Area (ERA) Chair and the Energy oriented Centre of Excellence for computer applications for Solar Energy Research



EUROPEAN UNION



THE REPUBLIC OF CYPRUS



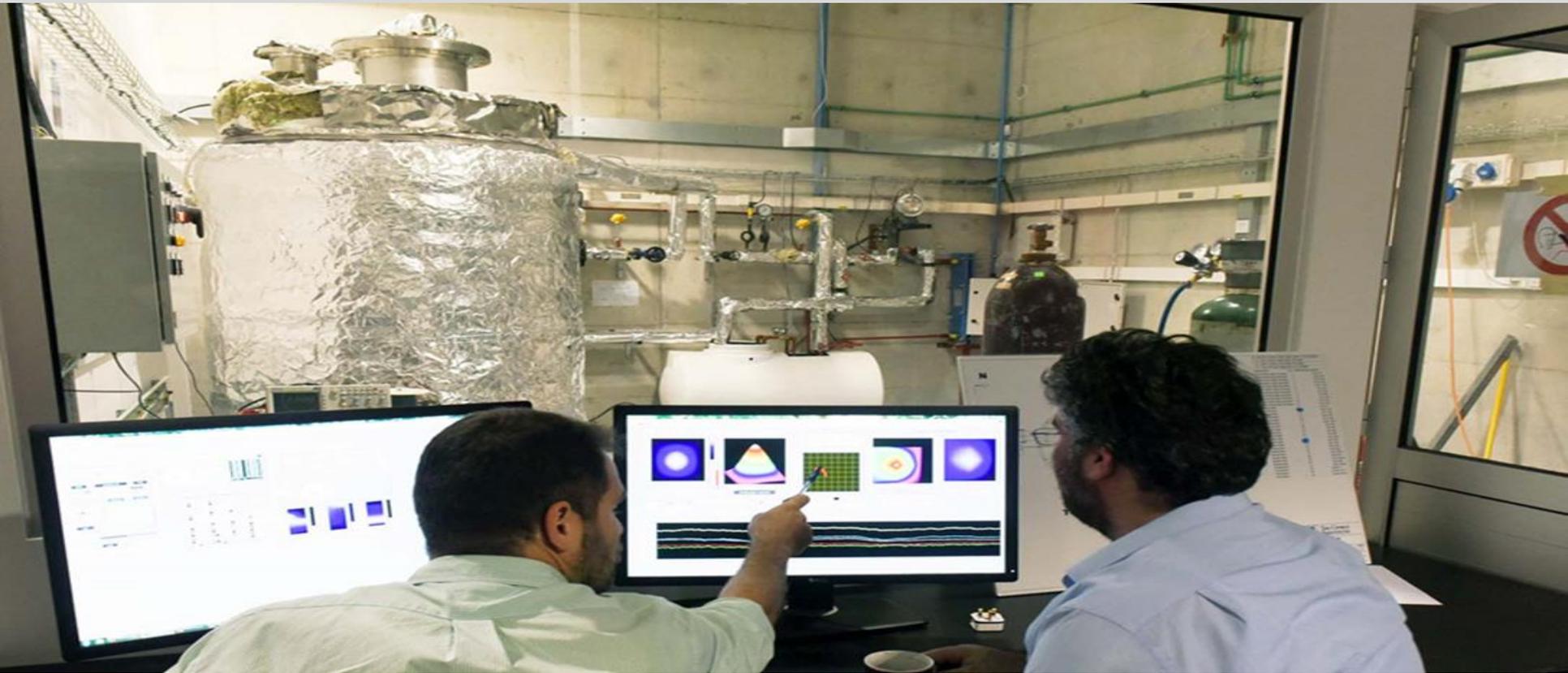
DEPARTMENT OF CONTROL

www.cyi.ac.cy

The project is co-financed by the Cohesion Fund of the EU

Facilities and Laboratories

The Thermal Energy Storage Laboratory (TESLA)

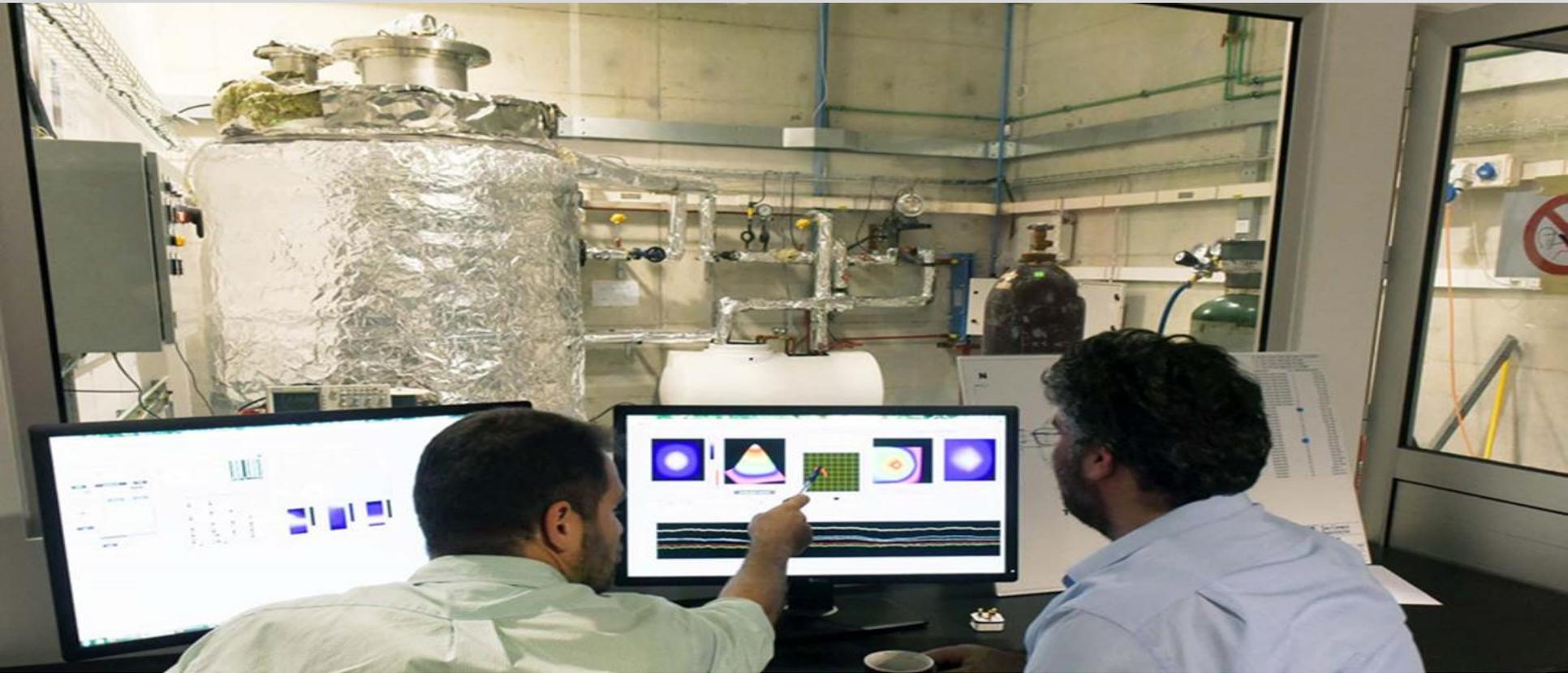


- Development and tests of advanced thermal energy storage concepts
- Understand and characterize thermal decomposition of nitrate salts
- At Athalassa Campus since early 2013



Facilities and Laboratories

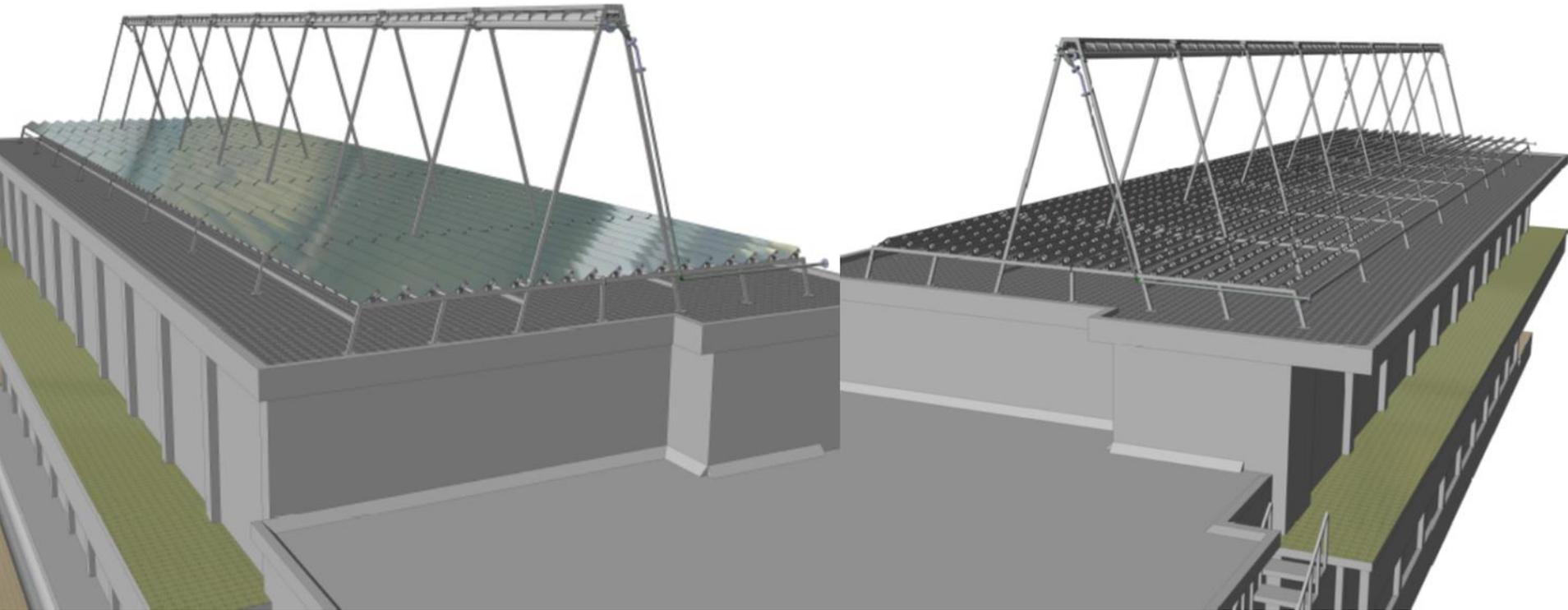
The Solar Energy and Desalination Laboratory



- Design, construct and evaluate performance of a Multiple Effect Distillation unit for seawater desalination
- At Athalassa Campus since 2010



Energy: future plans



Solar-thermal power technologies for island and coastal environments, including: Desalination, Storage, Poly-generation, Hybridization, Mediterranean Built Environment , Techno-economic capability

Science and Technology in Archaeology Research Center



STARC



STARC: Primary Research Thrusts



Active

10

Projects

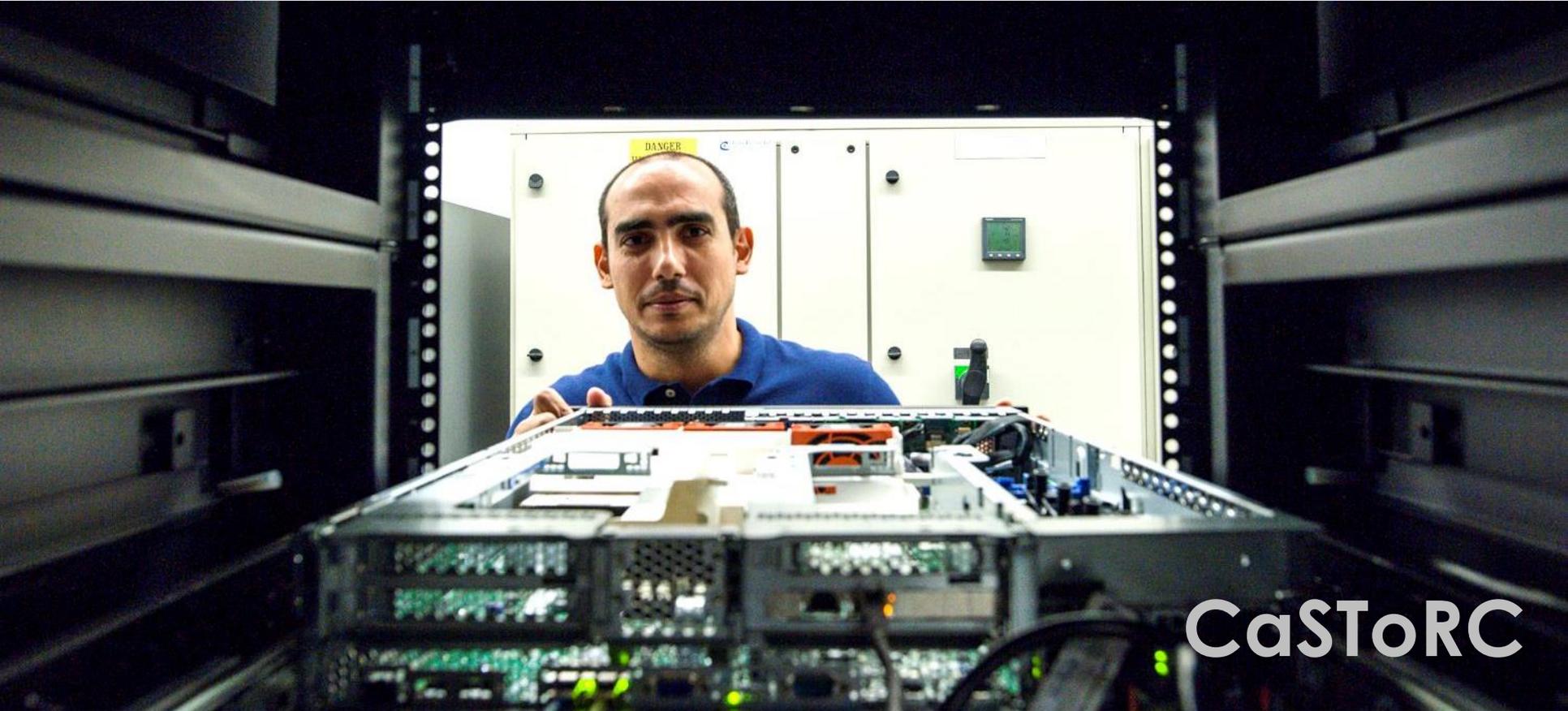
Founding

CENTRE DE
RECHERCHE
ET DE
RESTAURATION
DES MUSÉES
DE FRANCE

Partnership



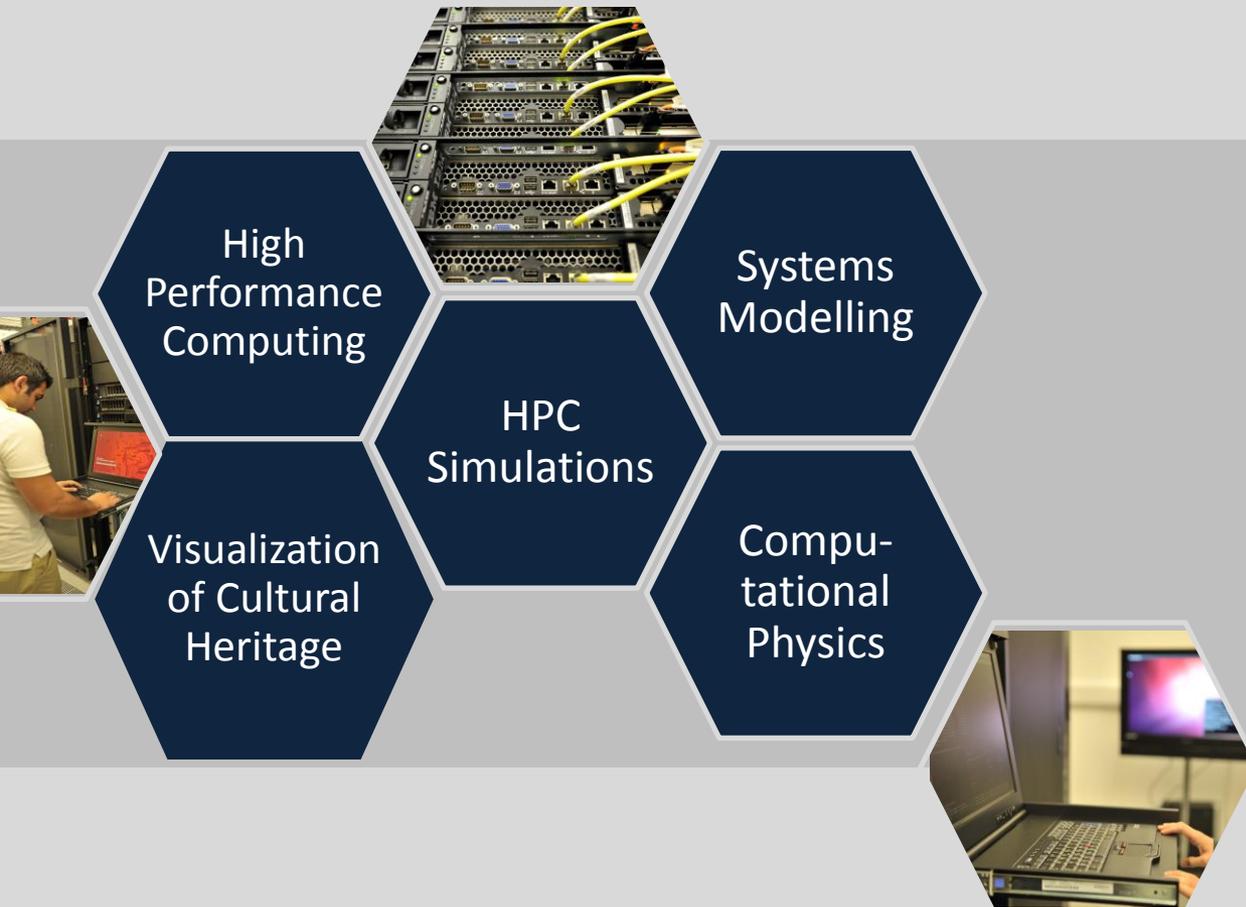
Computation-based Science and Technology Research



CaSToRC



CaSToRC: Primary Research Thrusts



Active

3

Projects

Founding



Partnership



OUR FLAGSHIP PROJECTS

Unmanned Systems Research Laboratory



STARLab - Mobile Laboratory of Archaeometry



OUR FLAGSHIP PROJECTS

Cy-Tera (Supercomputer for Eastern Mediterranean)



Cogeneration of Electricity & Desalinated Seawater using Concentrating Solar Power (CSP-DSW)



The project is co-financed by the Cohesion Fund of the EU

OUR FLAGSHIP PROJECTS

Visualization Laboratory



Dioptra: The Edmée Leventis Digital Library of Cypriot Cultural Heritage



DOCTORAL PROGRAMS

PhD

3

Programs

Digital Cultural
Heritage

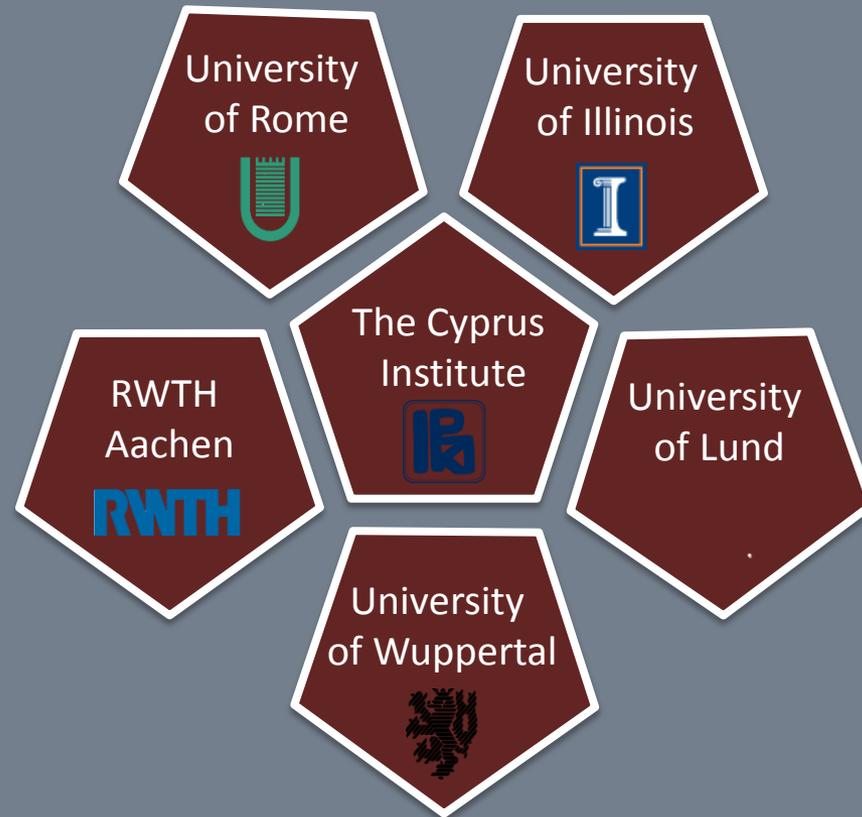
Computational
Sciences

Energy,
Environment
and
Atmospheric
Sciences

A small number of enrolled doctoral candidates
High calibre, directly linked to research activities



Dual Doctoral Degrees



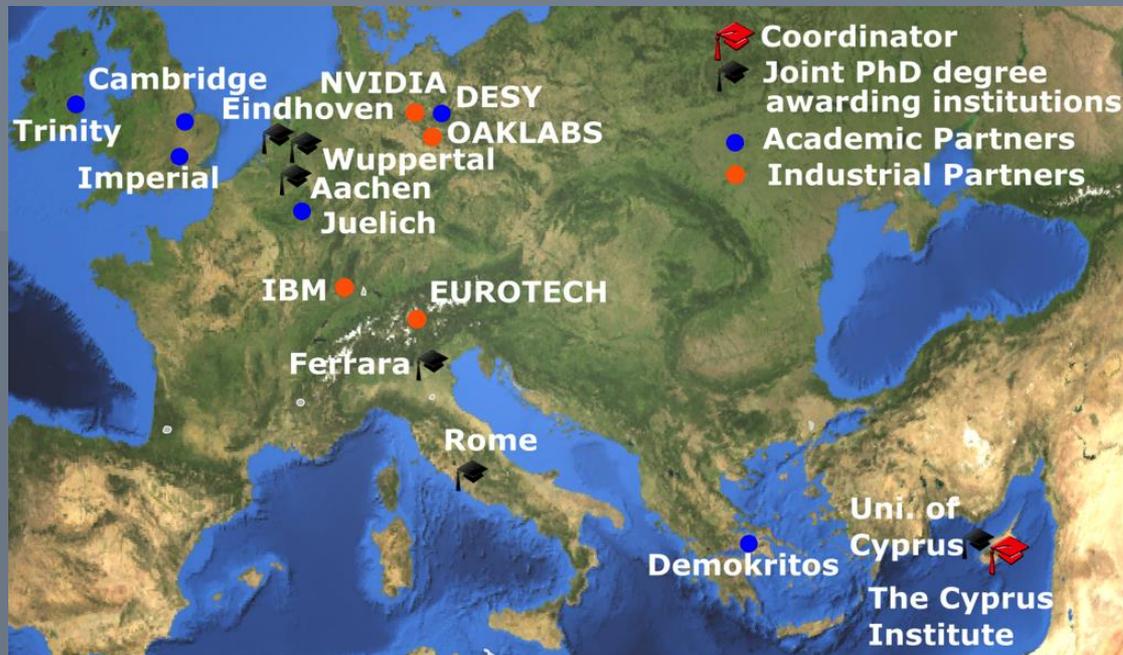
Agreements for dual doctoral degrees with world-class institutions

EDUCATIONAL PROGRAMS



European Joint Doctorate Program

High Performance Computing in Life Sciences, Engineering and Physics



15 Marie Skłodowska-Curie fellowships in:

- *Lattice QCD*
- *Turbulent and Complex flows*
- *Computational Biology*
- *Modelling and algorithms*
- *HPC architectures and technologies*



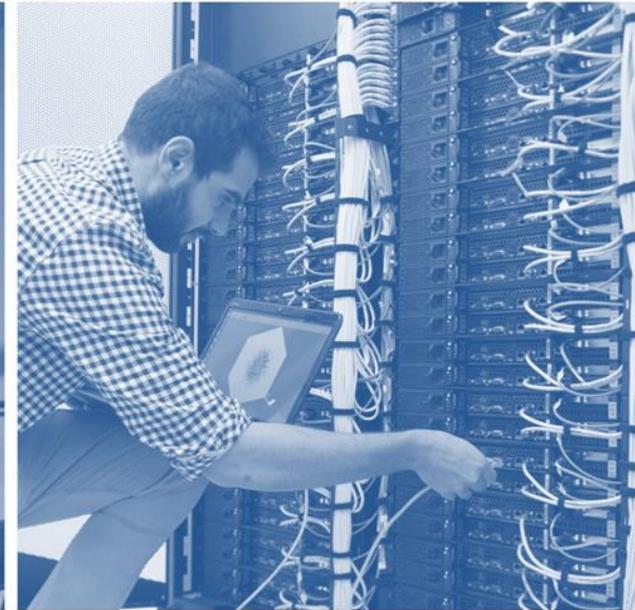
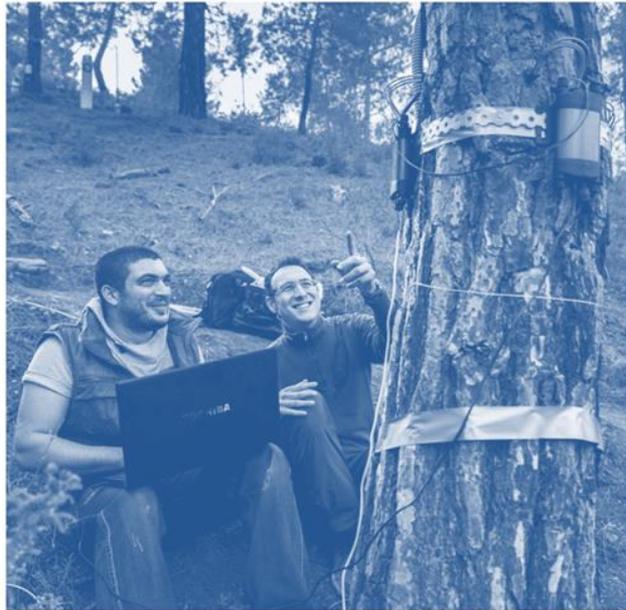
EDUCATIONAL PROGRAMS

Masters Programs in the same fields of study

Energy, Environment and
Atmospheric Sciences

Digital Cultural Heritage

Computational Sciences



Linked to the Doctoral Programs



EDUCATIONAL PROGRAMS



MSc program in Energy

MSc program on Sustainable integrated Energy and Environmental Design of Buildings and open spaces



OUTREACH ACTIVITIES

Solar Car Challenge

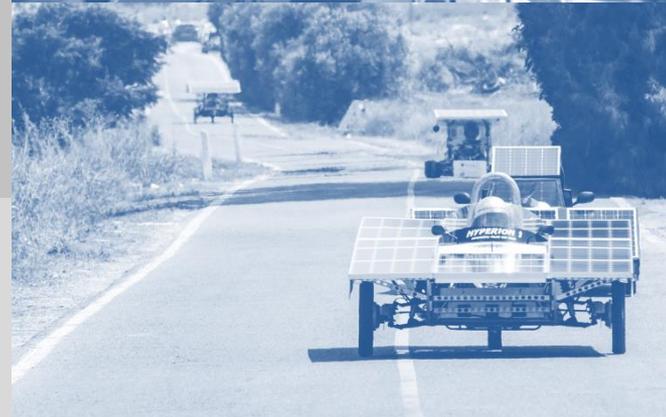
Researchers Night

School Visits

Public Lectures

Seminars

Workshops



PARTNERSHIPS

STRATEGIC PARTNERSHIPS



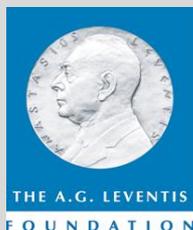
MAX-PLANCK-GESELLSCHAFT



Massachusetts
Institute of
Technology

CENTRE DE
RECHERCHE
ET DE
RESTAURATION
DES MUSÉES
DE FRANCE

FOUNDATIONS & ORGANIZATIONS



CORPORATE PARTNERSHIPS



Electricity
Authority
of Cyprus





H.E. Mr. Nicos Anastasiades
(Honorary Chair)
President of the Republic of
Cyprus



Prof. Dan-Olof Riska
(Chair)
Finish Society of Science
and Letters



Dr. Andreas Pittas
(Chair, Executive Committee)
Founder and Chairman,
Medochemie, Cyprus



Prof. Edouard Brézin
(Chair, Scientific Advisory
Council)
École Normale
Supérieure, France

**Governed by an
internationally acclaimed
Board of Trustees**

BOARD OF TRUSTEES



Honorary Trustees





**THE CYPRUS
INSTITUTE**

Research • Technology • Innovation