



universidade de aveiro
theoria poiesis praxis

University of Aveiro

portugal

a campus with ideas portugal



cooperation



promoting science



creativity in a distinctive campus



growing international character



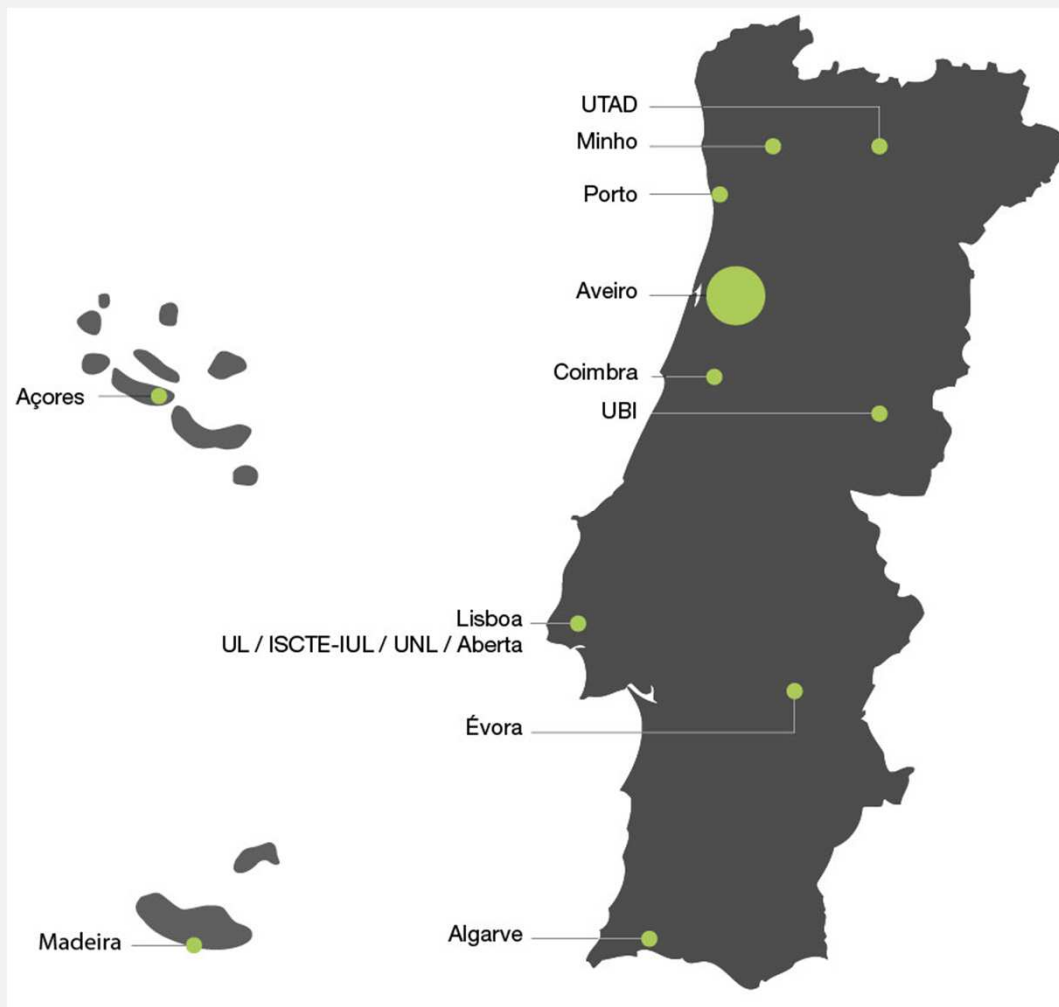
a wide network



excellence in research



located in Portugal's Central Region





University of Aveiro

- ✓ **young (1973) Institution, innovative – education, research, cooperation, tech transfer**
- ✓ **binary system – about** 15 000 students, 900 teaching staff, 120 researchers, 300 pos-docs
 - University (16 Departments)
 - Polytechnic schools (since 1997, 4 schools)
- ✓ **Public foundation with private law**
- ✓ **Yearly budget** ~ 130 M€

<https://www.ua.pt/>





University of Aveiro: rankings



amongst the Top 100 best young universities (under 50) in the world
Times Higher Education

amongst the Top 500 best world universities (several rankings)

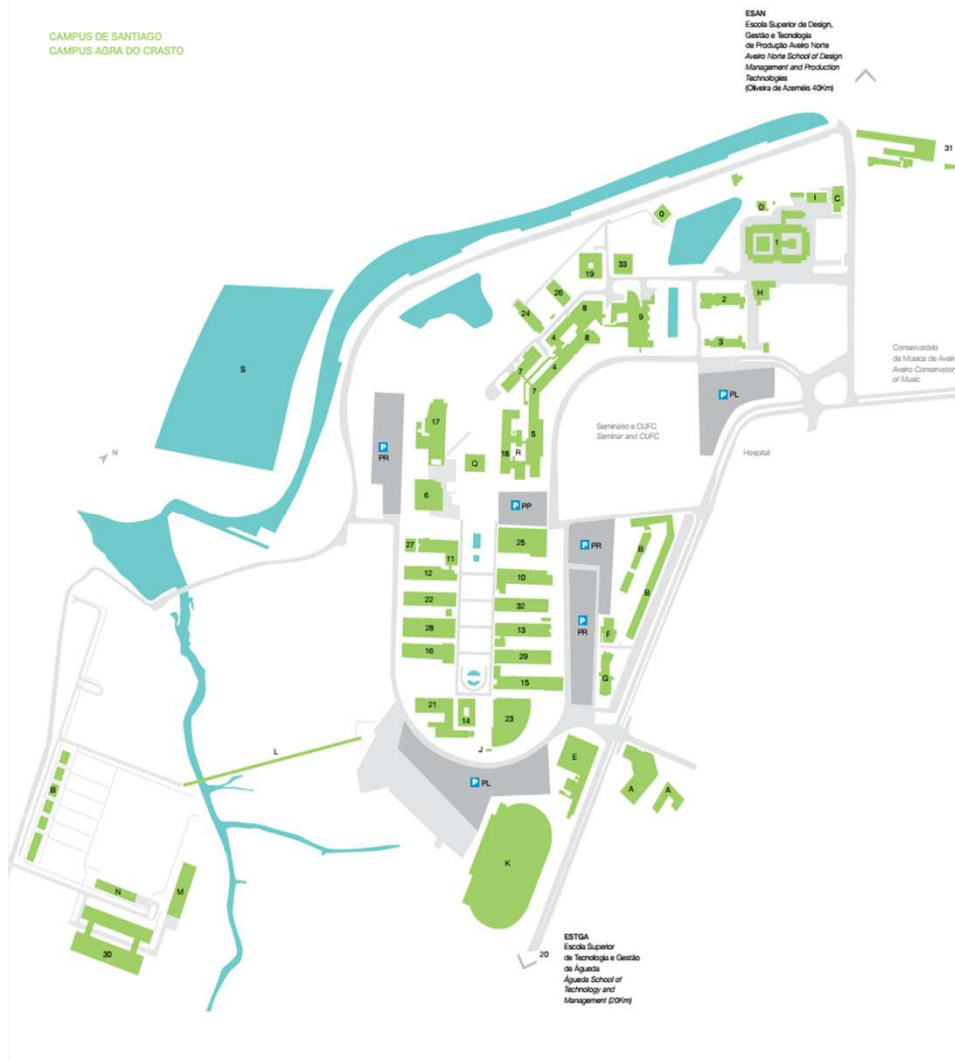
positions in NTU world ranking:

Engineering (173), Mechanical Engineering (131), Materials (114, 20 in Europe), Maths (144), Chemical Engineering (161), Environment/ Ecology (233), Chemistry (194), Agriculture (247) and Civil Engineering (260)





University of Aveiro: 16 departments



engineering

- › Electronics and Telecommunications
- › Environment and Planning
- › Ceramics and Glass Engineering
- › Mechanical Engineering
- › Civil Engineering

education

- › Sciences of Education

science

- › Chemistry
- › Biology
- › Physics
- › Mathematics
- › Earth Sciences

others

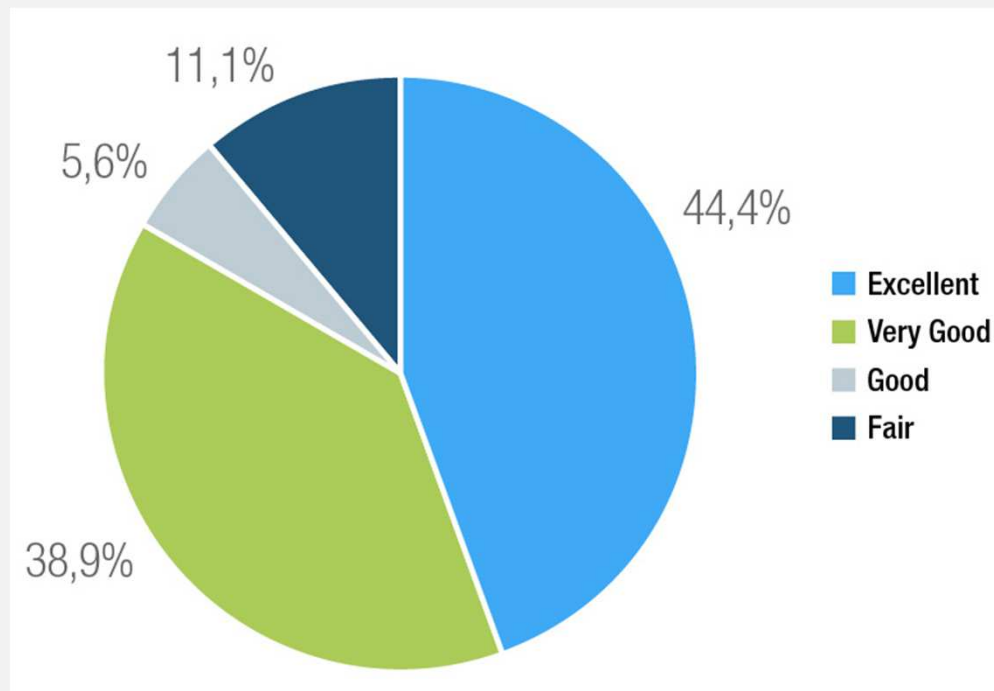
- › Languages and Cultures
- › Media and Arts
- › Social and Political Sciences
- › Health Sciences
- › Economics, Management and Industrial Engineering





University of Aveiro: Excellence in Research

18 Research Units (4 Associate Laboratories) evaluated by international panels



top research areas

- materials science and engineering
- environment and marine sciences
- electronics and telecommunications
- health sciences





CICECO

CICECO-Aveiro Institute of Materials

CICECO is the largest Portuguese institute in the field of materials science and engineering,

- 48 academic staff, 32 full-time researchers and,
- In December 2013, 91 post-doctoral associates, 119 PhD students, and ca. 77 other students.

CICECO is one of the most productive research institutes in the country in all scientific areas. Between 2002-13 we have produced:

- an average publication of **4.5 SCI papers per year** per academic staff or full-time researcher;
- almost **3808 SCI papers** (many in top journals);
- **99 patents**;
- 204 PhD theses.
- In 2011 we published more than 450 SCI papers.

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ciceco
aveiro institute of materials



CICECO

CICECO main lines of expertise are:

L1- Information and Communication Technology

L2- Energy and Industrial Applications

L3- Sustainability and Health

Biorefineries, Biobased Materials and Recycling

L4-Computind and Modelling

**macromolecular
and lignocellulosic
materials**

CICECO-UAveiro

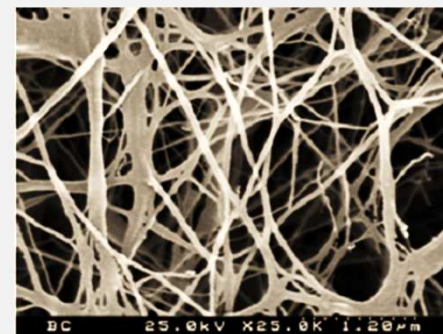




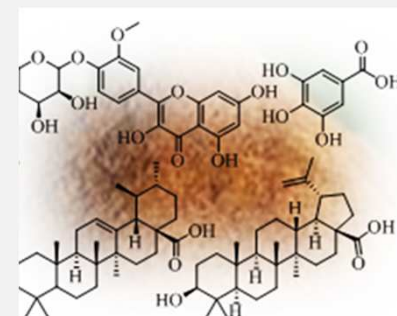
CICECO

Main activities

- **New materials from (nano)cellulose fibers and other polyssacharides**
(PulpBleach FP6; Sustainpack FP6; Sunpap FP7)
- **High value low molecular weight compounds from agro-forest residues**
(WaCheUp FP6, ERA-NOEL FP6, Afore FP7)
- **New Polymeric materials from renewable resources (e.g. polyesters, polyurethanes, etc.)**

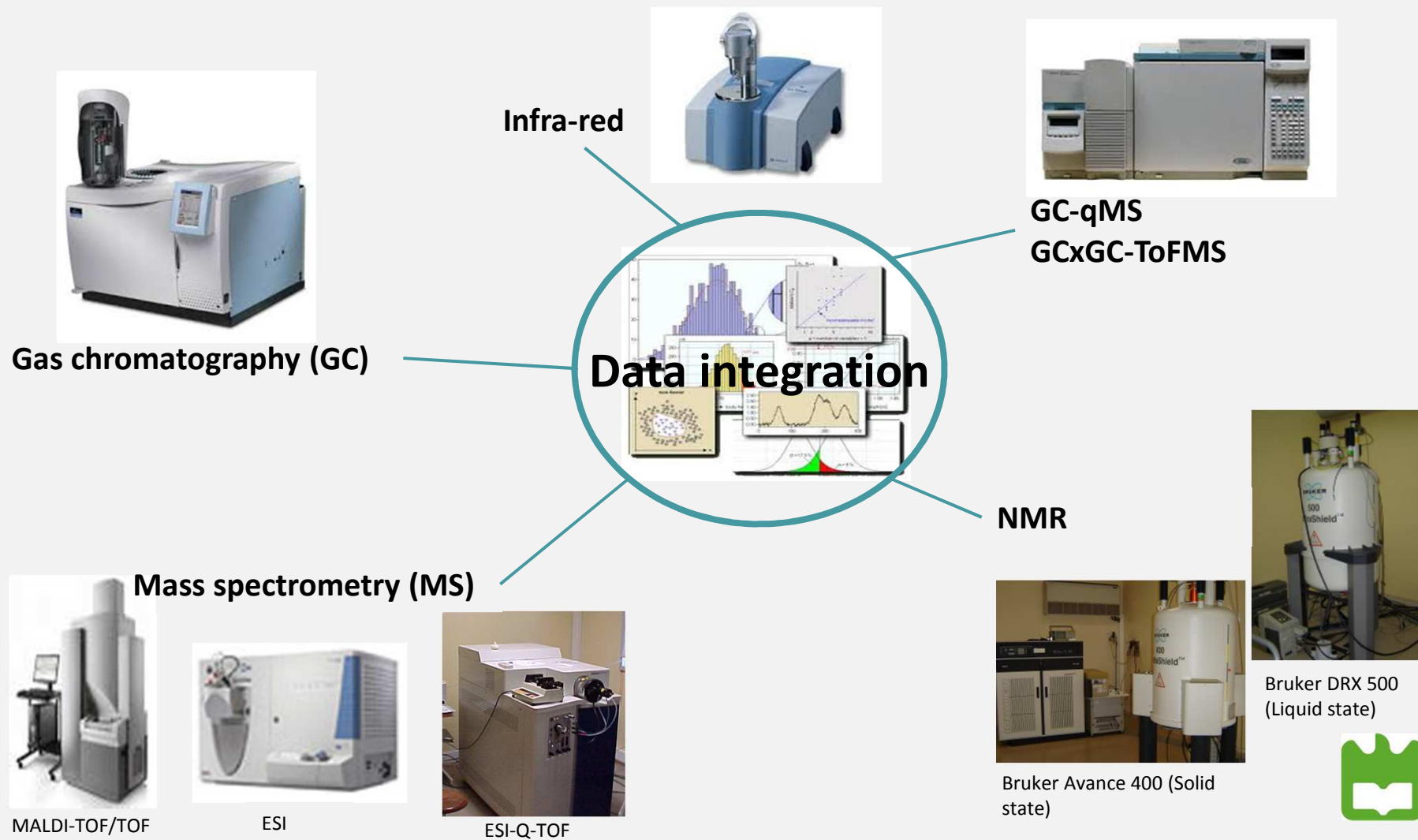


macromolecular
and lignocellulosic
materials
CICECO-Aveiro





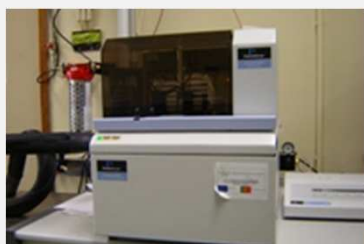
University of Aveiro: Instrumental facilities





University of Aveiro: Instrumental facilities

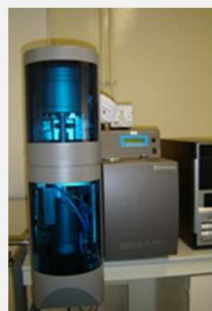
➤ Compounding and thermal /mechanical analysis



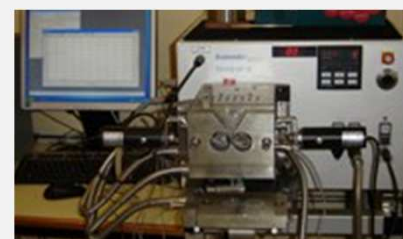
DSC



DMA



TGA



Polymers processing



Mechanical tester

➤ SEM/TEM/AFM/XRD



SEM



TEM

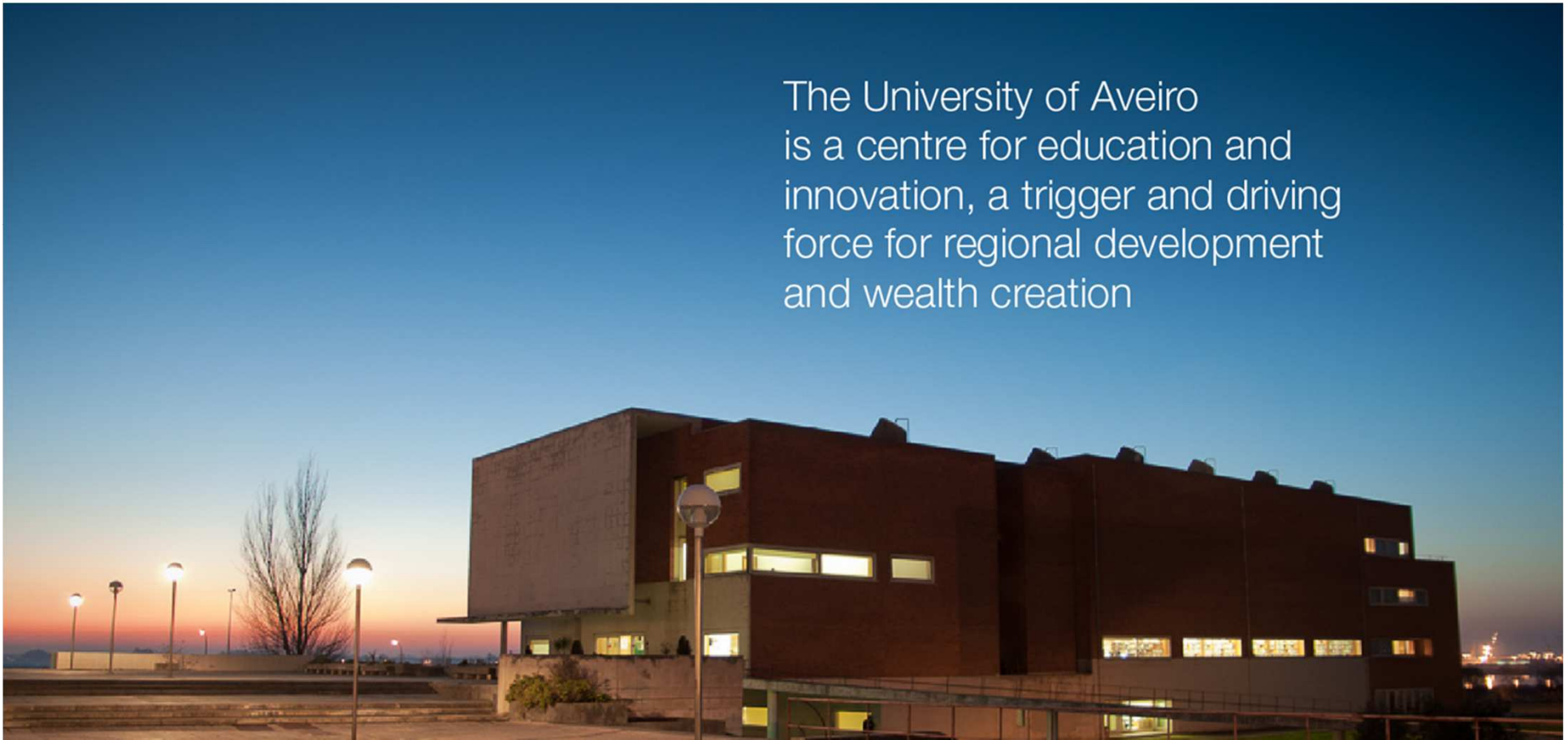


XRD



a campus with ideas portugal

The University of Aveiro
is a centre for education and
innovation, a trigger and driving
force for regional development
and wealth creation



COST Action FP1405
Active and intelligent fibre-based packaging –
innovation and market introduction (ActInPak)



ActInPak is a pan European (COST) network of the leading experts in active and Intelligent packaging of over 50 institutes and universities of 28 different countries.

The main objective is to develop a knowledge-based network on sustainable, active and intelligent fibre-based packaging in order to overcome current technological, industrial, and social limitations that hinder the wide deployment of existing and newly developed solutions in market applications.

http://www.cost.eu/COST_Actions/fps/Actions/FP1405

<http://www.actinpak.eu>

<https://www.linkedin.com/groups/COST-FP1405-ActInPak-8254568/about>