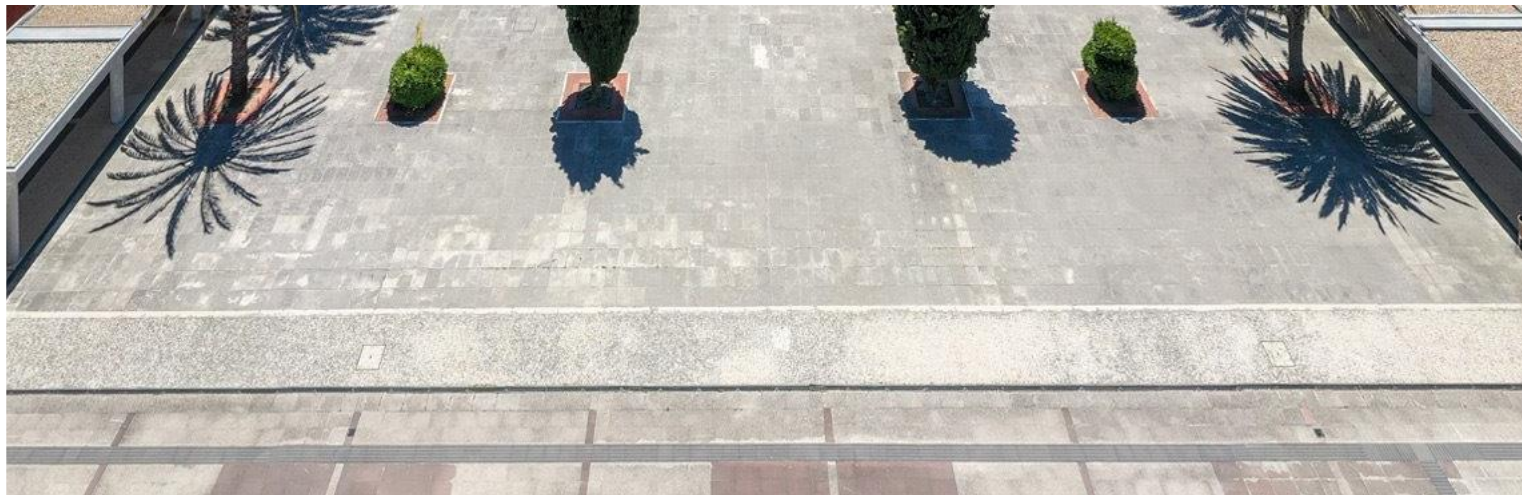




# UAveiroGreenBuildings



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# UAveiroGreenBuildings objectives

- UAveiroGreenBuildings project aims to contribute to:
  - Development and implementation of construction projects demonstrating economic and environmental benefits
    - Promoting responsible disposal of building materials that are harmful to health or environment.
    - Promoting the use of environmentally friendly (ecolabelled) building materials.
  - Application and promotion of methodologies and innovative technologies, as well as projects promoting cooperation between companies to reduce construction and demolition waste and promote materials and products incorporating materials recovered from waste.





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## UAveiroGreenBuildings promoter

- The University of Aveiro being aware of the importance for the environment of reducing construction waste, as well as the need to use materials and products that incorporate materials recovered from waste, aims to be a living and experimentation laboratory in the area from circular economy to construction:
  - A significant number of University of Aveiro buildings, over 30 years old, require rehabilitation works as a result of their intensive use and the need to adapt them to new functionality, sustainability and energy efficiency requirements.







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Cluster Habitat Sustentável

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## UAveiroGreenBuildings partnership

- UAveiroGreenBuildings project aims to develop a methodology, based on the principles of sustainable construction and the circular economy, for buildings rehabilitation and maintenance projects. It has two essential partners:
  - Cluster Habitat Sustentável;
  - EVRIS Foundation.
- This partnership aims the development of a transversal methodology, based on the principles of circular economy, with direct application on architecture projects for the rehabilitation and maintenance of the University of Aveiro buildings.

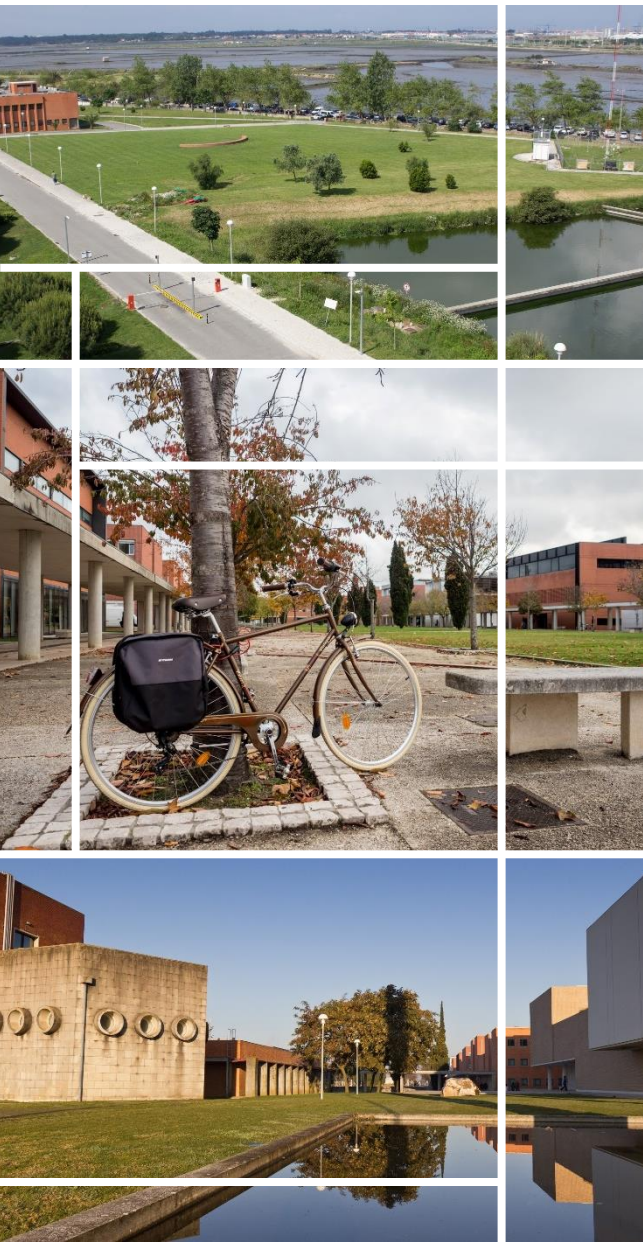




# UAveiroGreenBuildings

## expected outcomes

- Mandatory use of materials incorporating components from recycled materials in **Construction and Demolition Waste Management Plan**:
  - Effective **flow control** of the handling of demolition materials record;
  - A **guide of measures** or assumptions for inclusion in specifications of the different specialties;
  - Round **passports for buildings and components**;
  - Development and application of **environmental product declarations**;
  - Demonstration projects for the **implementation of the EC's LEVEL (S)** system.







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# UAveiroGreenBuildings

## expected outcomes

- A **management tool** in the logic of the principles of **sustainable construction and circular economy** and develop a methodology for validating the application of the principles of sustainable construction and circular economy, being a factor to consider in **decision-making** and project development, since Preliminary Program.





# UAveiroGreenBuildings

## expected outcomes

- With this set of changes, it is expected to:
  - Increase in the **use of secondary raw materials**, reaching the target of **15%**;
  - Increased prevention and **reduction of Construction and Demolition Waste**, as well as recycling or other forms of recovery, reaching the target of **70%**;
  - Use of at least **5% of recycled materials** or that incorporate recycled materials, in relation to the total amount of raw materials used on site.

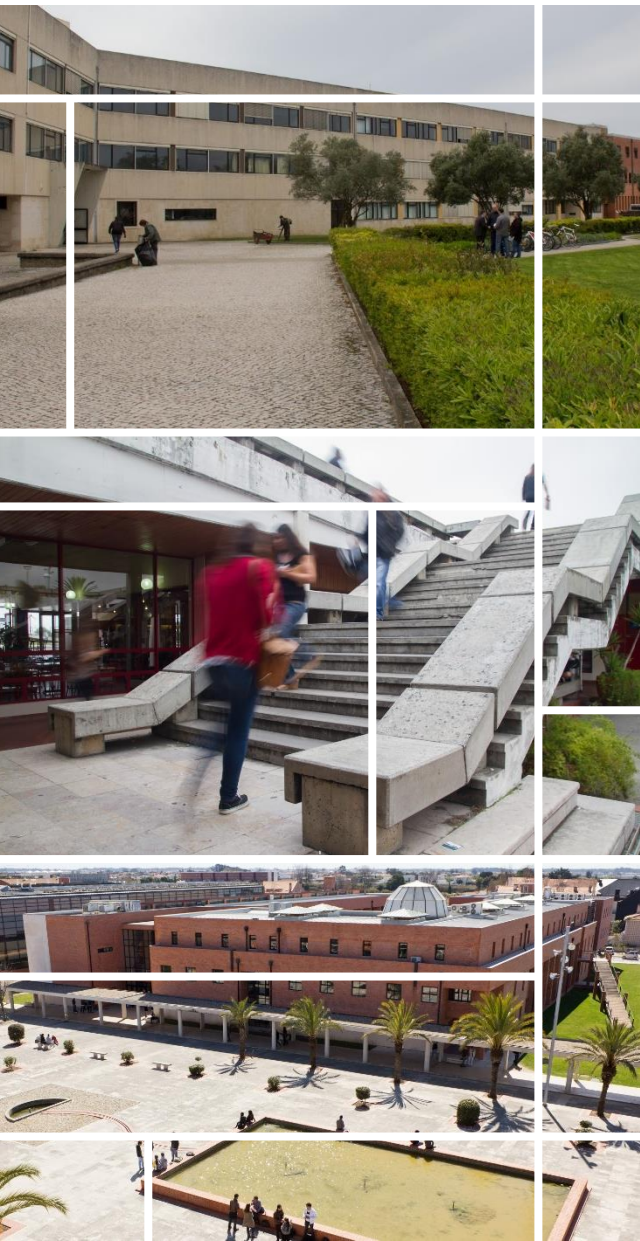




# UAveiroGreenBuildings

## implementation context

- The development of a transversal methodology, based on the principles of circular economy, with direct application to **architectural projects** for the rehabilitation and maintenance of the University of Aveiro buildings.
- The methodology implementation will be tested in architectural projects of **5 buildings**:
  - Environment and Planning Departament;
  - Electronics, Telecommunications and Informatics Departament;
  - Social, Political and Territorial Sciences Departament;
  - Mathematics Departament;
  - Central Technical Zone.







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# UAveiroGreenBuildings pilot

- The **pilot** will be the **Central Technical Zone**.
- The Central Technical Zone is a central space in University of Aveiro, which mainly combines support services and fruition spaces. The intervention in this building includes demolition works of walls, doors, floors and ceilings with the objective to make it more energy efficient using reuse materials.





## UAveiroGreenBuildings dissemination

- After project conclusion, the procedures will be **monitored and evaluated for their effectiveness**, as well a periodic review for continuous improvement of environmental performance of University of Aveiro.
- In addition, it is also intended to be **disseminated at national level**, giving greater visibility to the results of the project.

