

# ITPS

**Instituto de Investigación de Tecnologías  
Para la Sostenibilidad**

Leading research institute dedicated to developing innovative sustainability technologies for a cleaner, more efficient future.

# Mision & vision

Aims to be a reference in research and development of technologies that promote sustainability.

## Research Excellence

Conducting cutting-edge research in sustainability technologies with measurable environmental impact.

## Technological Neutrality

Exploring diverse technological approaches without bias toward specific solutions or methodologies.

## Global Collaboration

Building partnerships with international research institutions and industry leaders.

# Development Timeline

**September 29, 2023**

Establishment of ITPS: Official founding of the institute marks the beginning of our sustainability research mission.

1

**July 18, 2024**

Director Election: Juan Antonio Melero elected as director, providing strategic leadership.

2

**November 20, 2024**

ITPS Inauguration Day: Grand opening ceremony with distinguished guests from academia and industry.

3

**July 1, 2025**

First Summer Course: Launch of educational programs expanding our academic reach.

4

**November 18, 2025**

First conference of young researchers at ITPS.

5

**41**

**Active Projects**

Including 6 Horizon Europe

**77**

**Total Researchers**

Including 45 PhD and 32 predoctoral researchers

# Research Impact by the Numbers

Over the past five years, ITPS researchers have demonstrated exceptional academic productivity and global impact through high-quality publications and international collaborations.

835

Academic articles

16,2

Average citations

1,15

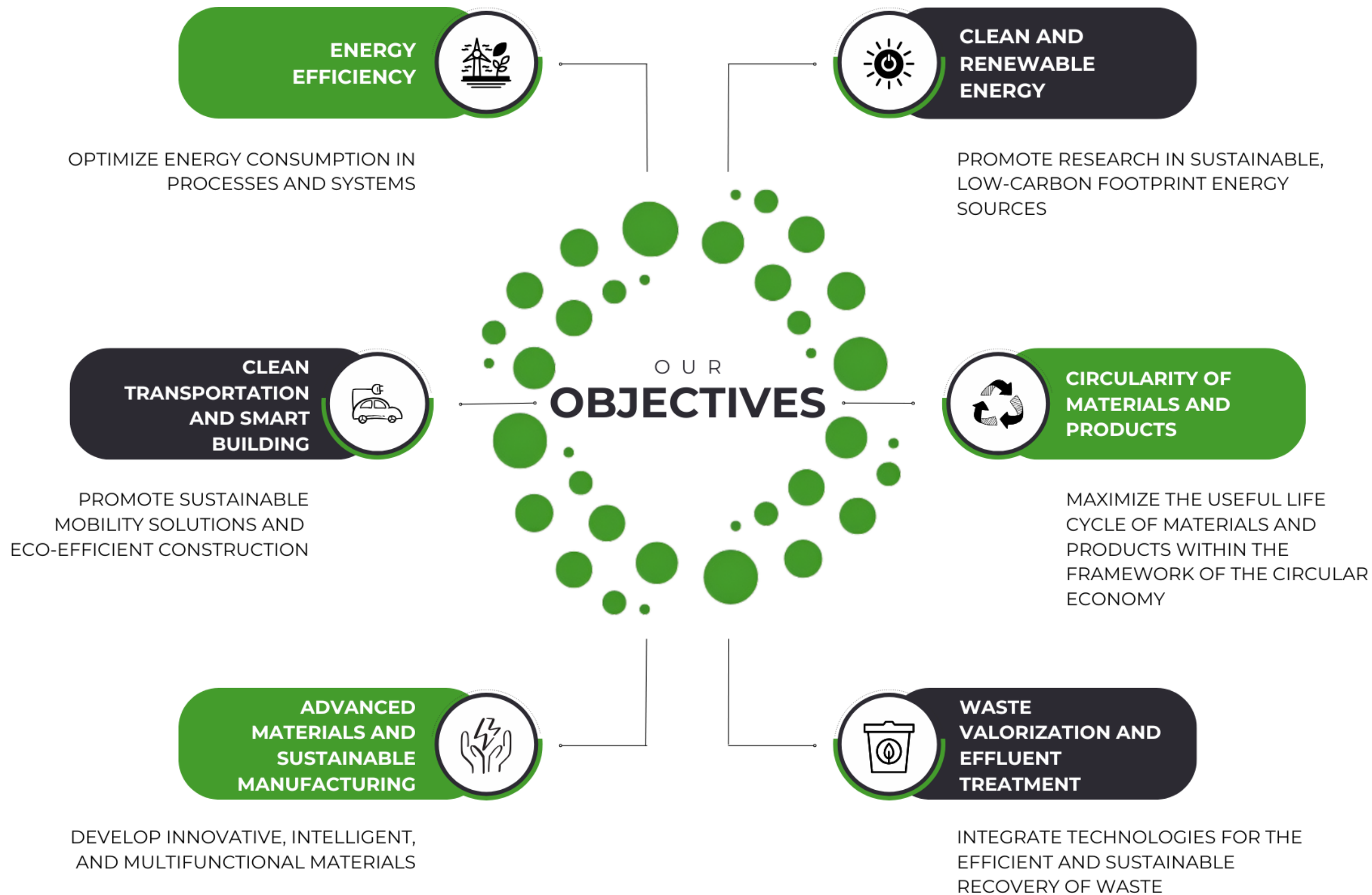
Field-Weighted Citation Impact

## Top-Tier Publications

- 338 publications in Top 10% journal percentiles
- 667 publications in Q1 journals
- 173 outputs in Top 10% citation percentiles

## Global collaboration

314 international collaboration publications demonstrate our commitment to global research partnerships and knowledge exchange.



Aligned with the sustainable development goals



# Scientific and technological areas

## Pollution Reduction Technologies

Mitigation of air and water pollution, industrial emissions reduction, and emission analysis methods.

## Clean and Renewable Energy

Hydrogen systems, solar technologies, and energy storage solutions.

## Sustainable Mobility and Infrastructure

Clean fuels, smart grids, sustainable materials, energy-efficient cities, and nature-based urban solutions.

## Advanced Materials and Manufacturing

Smart materials, low-carbon manufacturing, biomaterials, and sustainable industrial design.

## Circular Economy

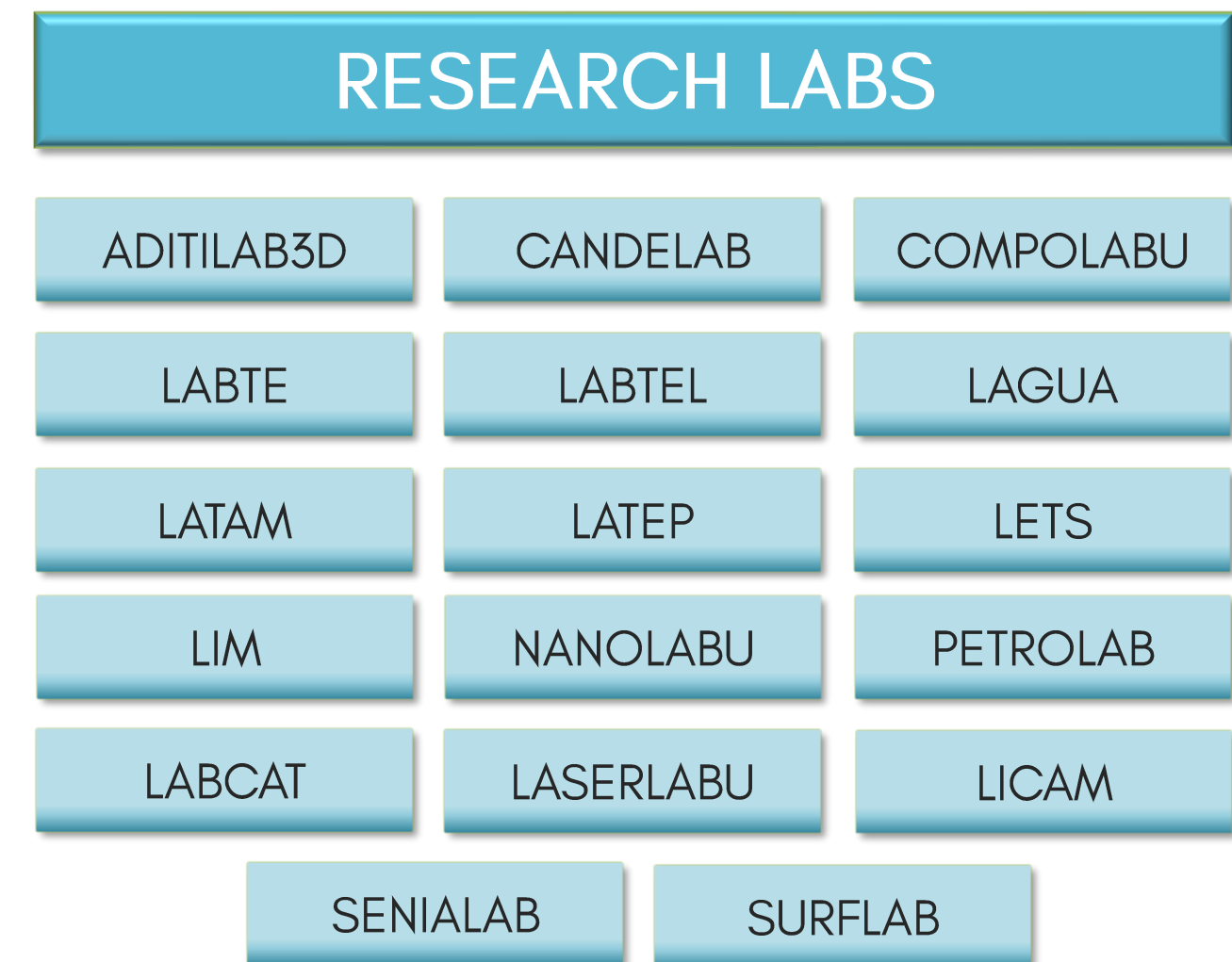
Recycling of polymers, metals, and ceramics; waste valorization and bioproducts from residual streams.

## Sustainability Assessment

Environmental, economic and social impact analysis, material circularity, and planning for renewable and nature-based solutions.

# Multidisciplinary Research Excellence

ITPS brings together 9 high-performance research groups and 17 laboratories of the URJC laboratory network to tackle complex sustainability challenges through integrated approaches.



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Research Chairs

SMARTE2 Digitalization and Energy Efficiency + Circular Economy

At ITPS we believe that sustainability is fundamental to the progress and well-being of our society, and we will work tirelessly to innovate and create a more sustainable future.

THE FUTURE IS BRIGHT, AND  
IT'S GREEN

Thank You