



PRESENTATION

MIREO Project: Transforming Energy Rehabilitation with Innovation and Technology

The **MIREO Project (Comprehensive Methodology for Optimized Energy Rehabilitation)** was created with the goal of revolutionizing the energy rehabilitation sector through **innovative, industrialized, and sustainable solutions**. By integrating advanced technologies such as **artificial intelligence, computer vision, modular construction, and 3D printing**, MIREO aims to reduce execution time and costs, optimize energy efficiency, and improve people's quality of life.

A Response to Sector Challenges

The energy rehabilitation sector faces multiple technological barriers that hinder its scalability and efficiency. MIREO addresses these challenges with a **comprehensive approach** that covers all phases of the process:

- **Intelligent diagnostics and planning:** Predictive models to prioritize interventions based on environmental, social, and economic impact.
- **Smart assistance in project drafting:** Artificial intelligence and advanced data capture to optimize time and accuracy, supporting professionals and enhancing efficiency in the design process.
- **Industrialized and sustainable construction systems:** Modular rehabilitation, 3D printing, and highly recyclable materials to ensure efficiency and circularity.
- **Optimized construction management:** Computer vision and AI algorithms for real-time supervision.
- **Impact monitoring:** Precise evaluation of the energy, environmental, and social benefits of each intervention.

A More Sustainable and Efficient Future

MIREO aligns with the principles of the **New European Bauhaus**, promoting an **inclusive, sustainable, and high-quality architectural** approach to energy rehabilitation. Through a collaborative framework involving public administrations, private companies, and citizens, the project seeks to democratize access to innovative solutions, ensuring that energy rehabilitation becomes a real driver of change in the fight against climate change and the improvement of social well-being.

Join the transformation of the sector and be part of the future of energy rehabilitation with MIREO.