



RELS (Rénovation Énergétique de LogementS) project

Introduction

RELS project aims to promote the implementation of renewable energy sources and improve the energy performance in social housing dwellings in the Mediterranean region. The specific objective is to make visible and useful the best practices available and to develop and test a common model for energy renovation in social dwellings in some pilot projects by enhancing the cross-border cooperation among the countries involved.

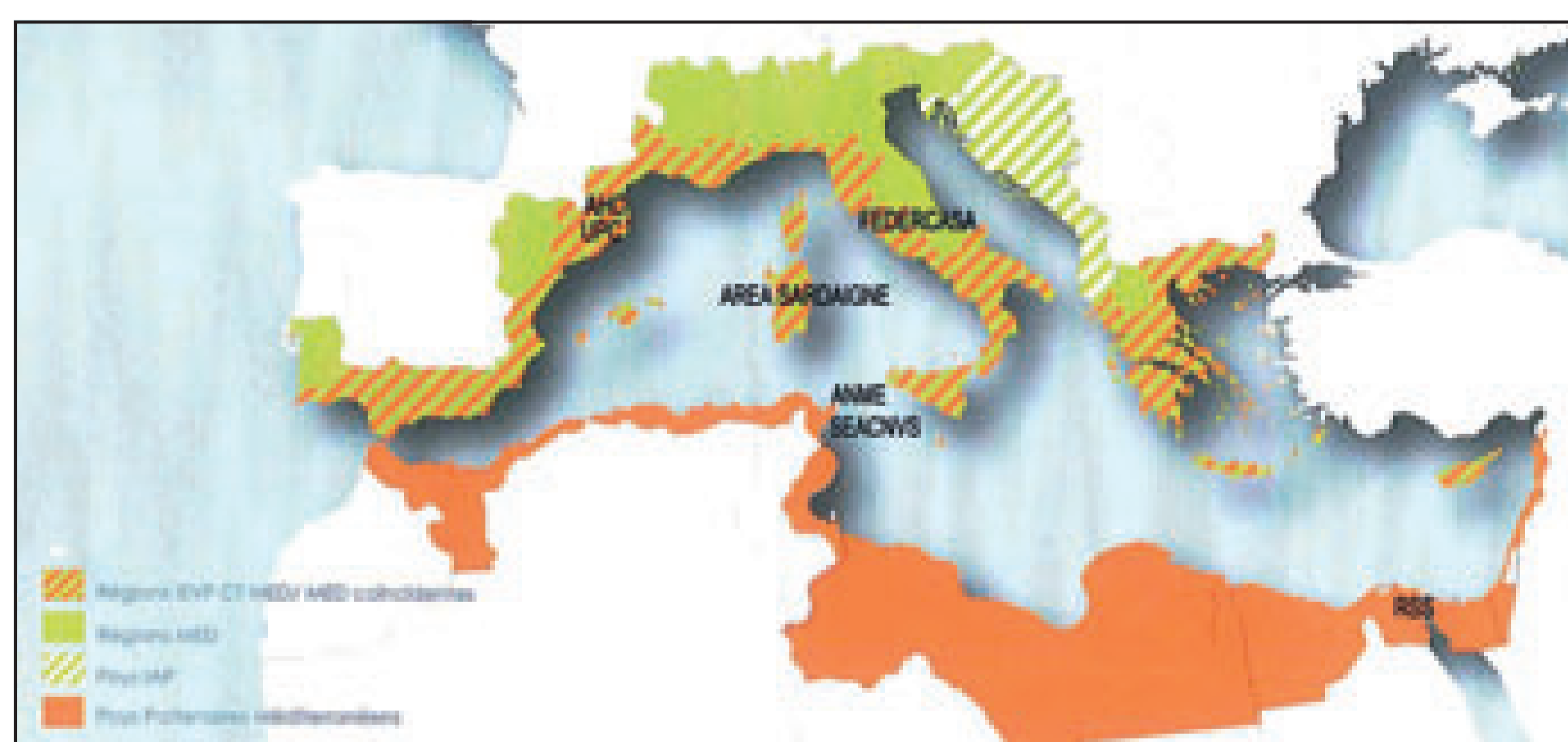
RELS is an ENPI CBC MED standard project.

The Mediterranean Sea Basin Programme is part of the cross-border cooperation component within the new European Neighbourhood and Partnership Instrument (ENPI) and its main objective is to contribute to promoting a sustainable and harmonious cooperation process at the Mediterranean Basin level by dealing with the common issues and enhancing its endogenous potential:

1. promotion of socio-economic development and enhancement of territories
2. promotion of environmental sustainability at basin level
3. promotion of better conditions and modalities for ensuring the mobility of persons, goods and capitals
4. promotion of cultural dialogue and local governance.

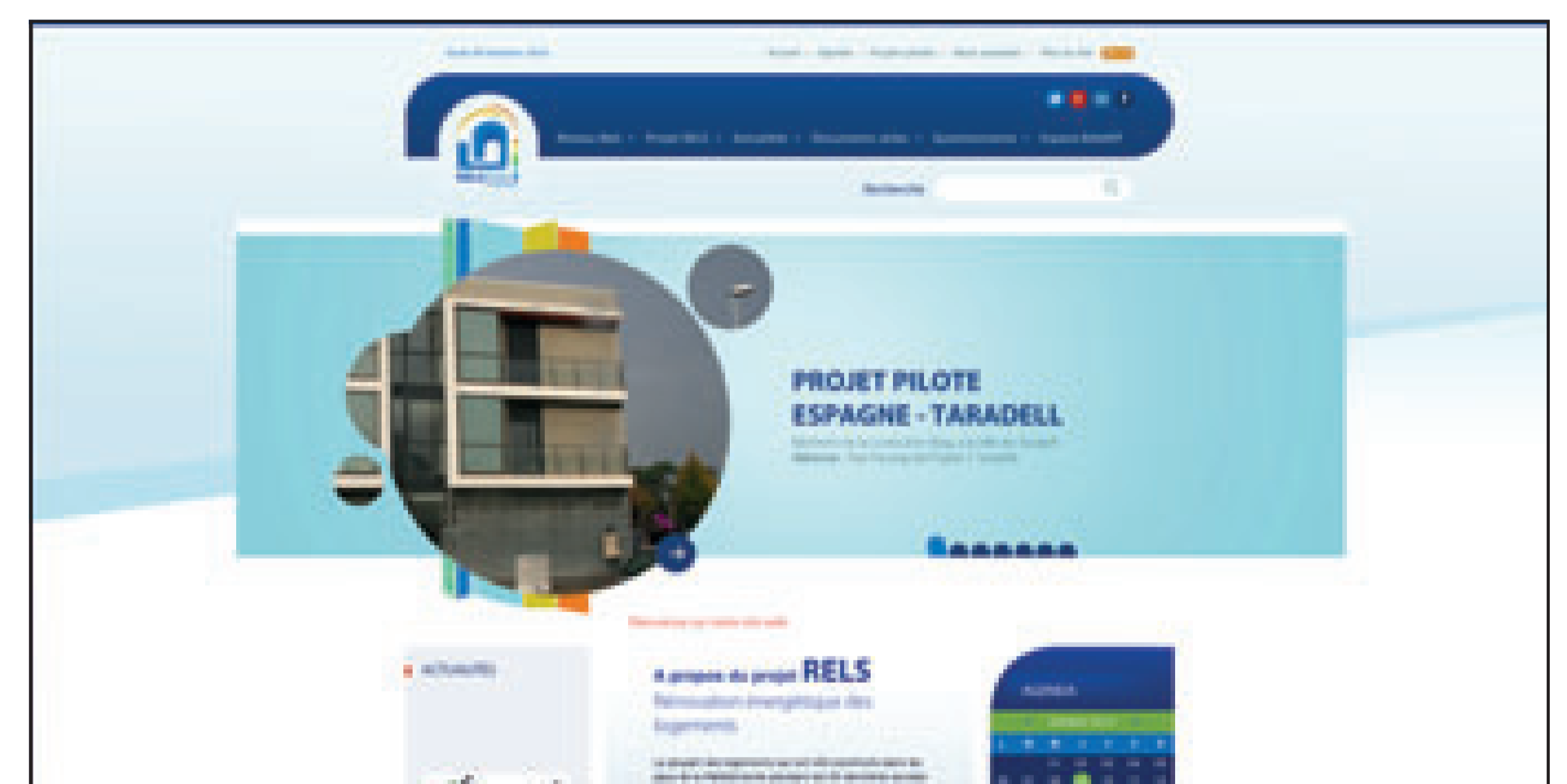
Partners

- Housing Agency of Catalonia (AHC, Spain).
- Polytechnic University of Catalonia (UPC, Spain).
- Housing Association of Italy (FEDERCASA, Italy).
- Company of Studies and Development of the Northern Coasts of the City of Sfax (SEACNVS, Tunisie).
- Regional Agency of Social Housing of Sardinia (AREA, Italy).
- National Agency for energy management (ANME, Tunisie).
- Royal Scientific Society (RSS, Jordan).



Results

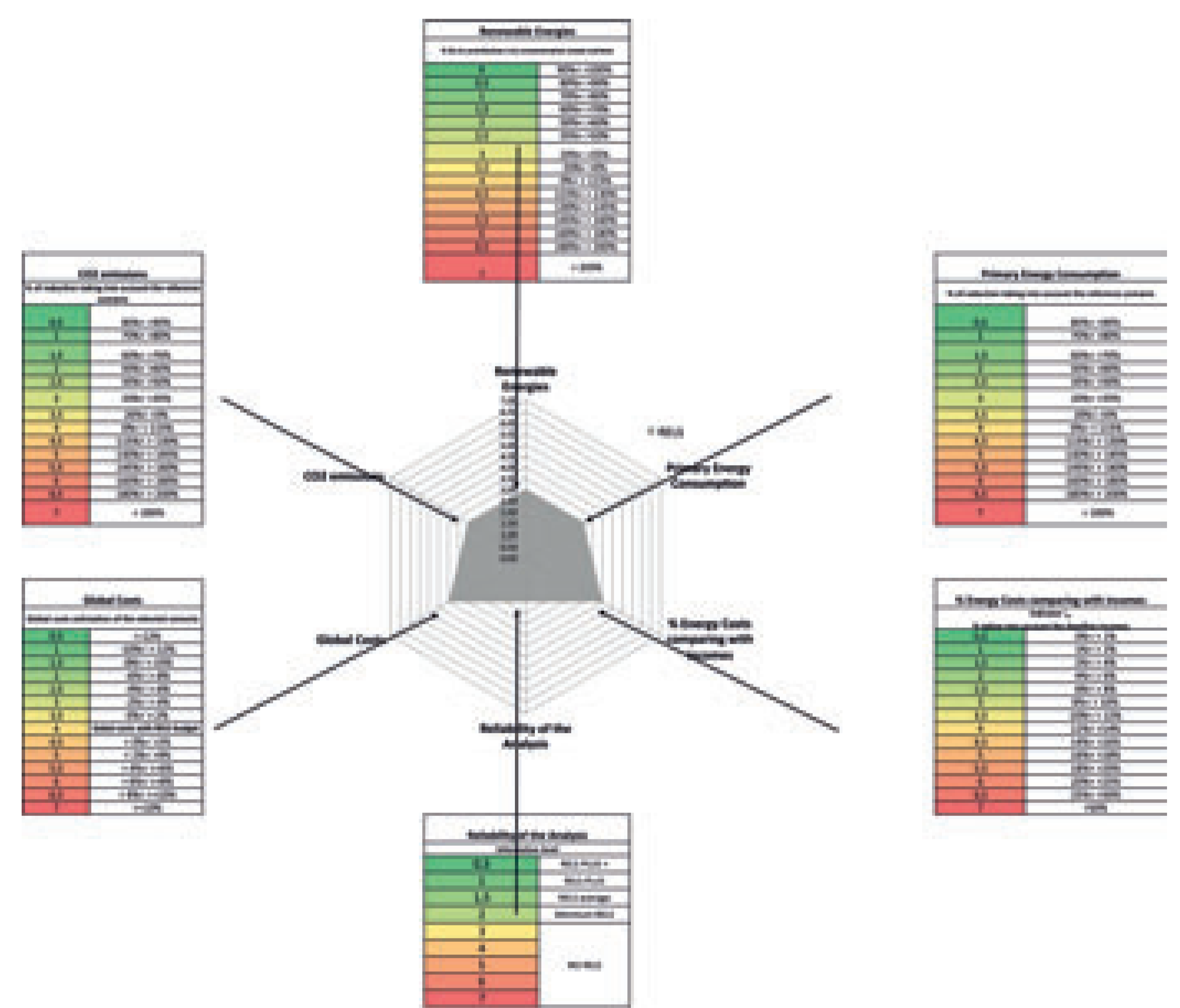
- Best practices of bioclimatic and energy performance construction and renovation in the Mediterranean region: **BAMEP (Base de données des meilleurs pratiques dans le domaine de la rénovation énergétique des logements)**, available in the website.



A validated **multicriteria model for energy renovation of Mediterranean buildings** taking into account the different steps in energy refurbishment projects (audit, monitoring, measures election, project development and implementation and energy performance validation).

As shown in the figure, the model includes the following vectors: renewable energies (RELS objective: 20%), savings in primary energy consumption (RELS objective: 20%), % energy costs compared with home incomes, reliability of the analysis, Global costs, CO2 emissions (RELS objective: 20%).

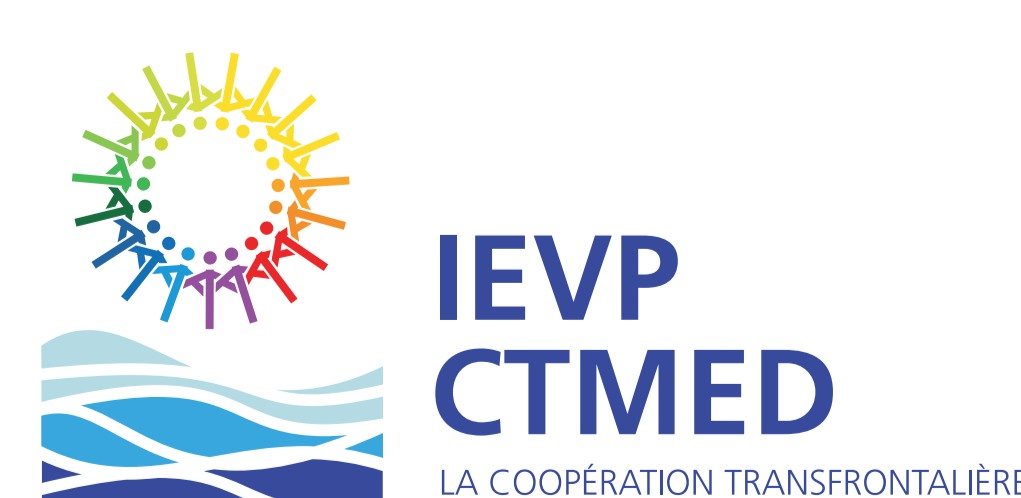
The ideal scenario to achieve RELS objectives is shown in grey color, and it means 20% reduction in primary energy consumption, 20% emissions reduction, 20% increase of renewable energy.



This model is being tested in pilot projects in Tunisie, Italy and Catalonia.

- **RELS training Package**, to disseminate the products and to provoke replication in other countries and regions, quarters or buildings in the Mediterranean region.
- Capitalisation of RELS results: to develop a working net for the know-how, the creation of synergies between projects, and the promotion of building's energy efficiency in the EU-MED area: **RÉSEAU RELS**, join us in the website:

<http://www.projet-rels.eu/>



Projet inscrit dans le cadre du programme de coopération transfrontalière en Méditerranée et financé par l'Union Européenne (UE) à travers l'Instrument Européen de Voisinage et de Partenariat (IEVP)