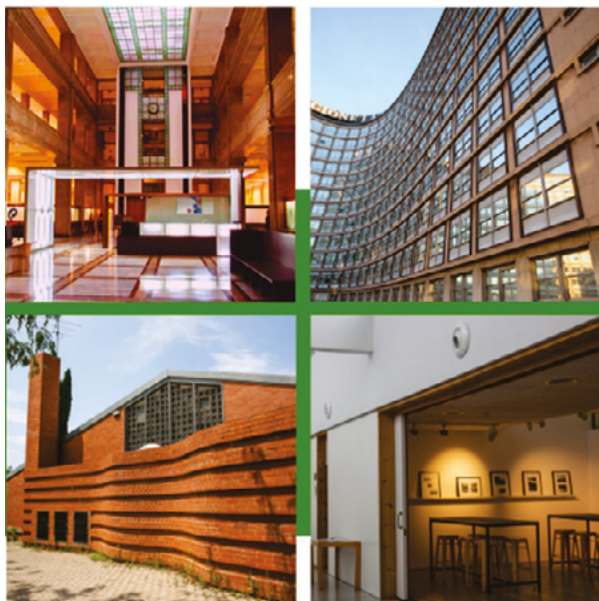


Towards the improvement of the Energy Efficiency in Public Buildings of regions across the Mediterranean



SHERPA, SHared knowledge for Energy Renovation in buildings by Public Administrations, is an Interreg MED project co-financed by the European Regional Development Fund that supports involved regions in the development of Energy Renovation of Buildings (ERB) projects in their public buildings' stock.



Foreword

“The SHERPA project has represented an enriching, successful and fruitful experience, both for the region that I have the honour to represent and for the entire project partnership, and, may I add, for the entire Mediterranean basin. The European Territorial Cooperation programmes represent an optimal framework to engage all MED stakeholders to re-design and improve ERB public policies, interchange best practices and conform a space to commonly accomplish the challenges posed by the global Agendas, such as the Agenda 2030, the Urban Agenda for the European Union, the new Leipzig Charter and the European Green Deal.

The European Territorial Cooperation instruments have proven to be the catalyser for regional and local governments to design and implement those policies needed to tackle the issues that are an actual concern for the citizenship, which are represented in the objectives stated by the EU authorities. The results of the SHERPA project prove the success that the tailor-made approach designed is productive and efficient, involving the deep study, redesign and implementation of policies, training and project planning that have implied large savings of energy and carbon emissions, and, being this paramount, SHERPA has put all the implied partners and associates at the forefront of the exemplarity role for Public Authorities claimed by the EU, whilst applying all related EU legislation.

This booklet presents you a brief extract of the vast work the SHERPA project has performed, and also some other that entail the will to endure along the coming years, projecting the experiences and tools developed into the future, thus becoming strongly influential in the development of coming Mediterranean ERB strategy, for which the SHERPA's Mediterranean Energy Renovation in Buildings Joint Action Plan represents the seed from which it will be extent to the whole Mediterranean sea.”

SHERPA's Coordinator, Generalitat de Catalunya

SHERPA - SHared knowledge for Energy Renovation in buildings by Public Administrations - is an Interreg MED project co-financed by the European Regional Development Fund that supports involved regions in the development of ERB projects in their public buildings' stock.

12

Partners from 8 Mediterranean Regions and 4 ERB and EU networks have participated in the project

39

Months project duration with an overall budget of 3,248,295.22 €



165 regional & local ERB projects



50 regional and local administrations involved



9 Capitalisation Regional workshops



MED ERB Joint Action Plan



Energy Efficiency Buildings (EEB) in public buildings' capitalisation set of toolkits



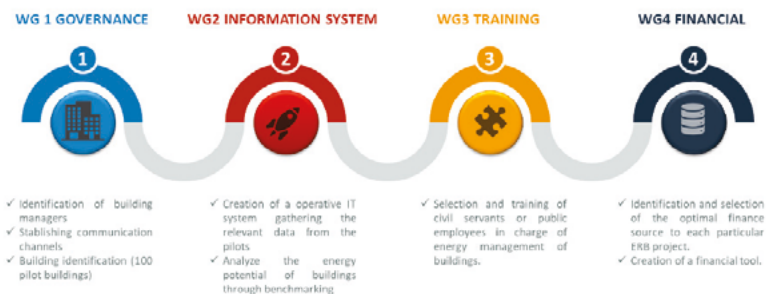
SHERPA Online Capitalisation Forum



Main actions

SHERPA focused its efforts on reinforcing capacities of public administrations at regional and sub-regional level within the territories it covers so as to improve Energy Efficiency in their public buildings' stock, address difficulties related to Energy Efficiency in Buildings projects in the Mediterranean area and speed up the implementation of Directives 2010/31/EU (Energy Performance of Buildings) and 2012/27/EU (Energy Efficiency).

To do so, SHERPA has developed a specific methodology (see the graph here below) and project proposals for Energy Renovation in Public Buildings, for around 100 regional buildings, extended to further 65 municipalities' buildings of its partner regions.





Main Tools

- The **Information System** and **Information System Instruction Manual** to approach the analysis of the diverse building stock from the perspective of real building performance and reveal the most cost-effective measures to apply to different building typologies, as proved in real life operation
- An **innovative mutual learning platform and specific trainings in EEB** to increase professionals' skills and capabilities towards the Energy Efficient Retrofitting (EER) of buildings
- The **financial model** and **funding tool instruction manual** to obtaining a "general assessment" of the investment by analysing step by step each part of the project
- The **MED ERB Joint Action Plan** to get an investment plan on ERB on the MED area using SHERPA's methodology and integrating other trans-European initiatives
- The **Declaration of support and engagement** to ensure the continuity of the methodology and products after the project life ends

Main achievements

- **Design of 100 projects for Energy Renovation of Buildings** representing 443 Energy Efficiency Measures, 64 GWh energy savings, 5mil. € economic savings and 24,600 tonne CO2 emissions' savings
- **156 Civil Servants** participating in the capacity raising regional activities
- **9 Regional Capitalisation Workshops** and **65 Local ERB projects**
- **50 Regional and local administrations** engaged in developing energy efficiency plans/strategies



About the SHERPA MED ERB Joint Action Plan

Along the lines of the running directives and emerging initiatives (e.g. EU Green Deal, EU Climate Law, etc.) implemented and promoted by the EU and Mediterranean Partner Countries, it is paramount to foster and substantiate cooperation tools that can make the actions taken by Regional Administrations more efficient in dealing with ERB projects development and implementation, adaptation to climate change, along the way of decarbonisation. The SHERPA MED ERB Joint Action Plan aims at setting up a **common framework for integrated strategies for the Energy Renovation of Public Buildings (ERPb) in the Mediterranean area** through the capitalisation of common experiences, tools and methodologies (based on the work and results of the SHERPA project, the Interreg MED Efficient Buildings and Renewable Energies Communities and others EU projects and initiatives' results), and the definition of an integrated investment plan on ERB.



Why should public authority/entity join the MED ERB JAP?

In order to prevent the negative climate impacts of energy consumption and foster the sustainable development of the MED area together with multilevel governance schemes and public-private investments, all ERB stakeholders and entities should engage to foster cooperation with other administrations, private actors, international organisations and initiatives and new concrete actions related to Energy Renovation in Buildings.

The main reasons for implementing the MED ERB JAP are:

- To benefit from integrated, consolidated and capitalised knowledges and work carried out on ERB projects in the Mediterranean area;
- To access an effective system, practical and “rolling” instrument to ease the implementation of the ERB policies and practices on public facilities;
- To bring together public administrations and/or private agents on ERB to develop joint transnational and local strategies and concrete actions and projects;
- To identify investments and to search, provide/promote specific solutions to finance them for ERB projects and innovate on funding structures to make that investment real.

The vision of the MED ERB JAP

During the first part of SHERPA testing process, 4 transnational Working Groups (WG) were created and focused on the following barriers, in order to find practical solutions to overcome them:

- The governance barriers: Difficulties to make the coordination between public administrations at different levels of governance (State/Region/province/municipality) effective and operative, but also between public administrations and private entities; low levels of internal organisation in public administrations to manage and make operative decisions in their own buildings.
- Information barriers: Low levels or bad quality of information generate decisions that are not useful, errors and mistakes in management. SHERPA Information WG experienced the utility of a common information system that provides useful information to building managers to implement the best solutions to solve main problems identified.
- Skills barriers: The persons that take building management decisions should have the appropriate training to decide correctly. The SHERPA Training WG has designed, implemented and tested an e-learning platform with very good results for the partners.
- Financial barriers: Difficulties to implement the Energy Efficiency measures needed to renovate buildings. The SHERPA Financial WG has been designed and experimented a finance tool facilitating the introduction of financial criteria during the Energy Efficiency Measures design process, emerging and increasing the awareness of the main financial variables in order to ensure the preparation of financeable projects.

According to the challenges identified, and what has been done to promote ERB projects, and according to what has been learnt in the SHERPA project, it is believed that **5 strategic axes are needed in order to boost the ERB market in terms of identification, promotion, development and financing of ERB projects**:

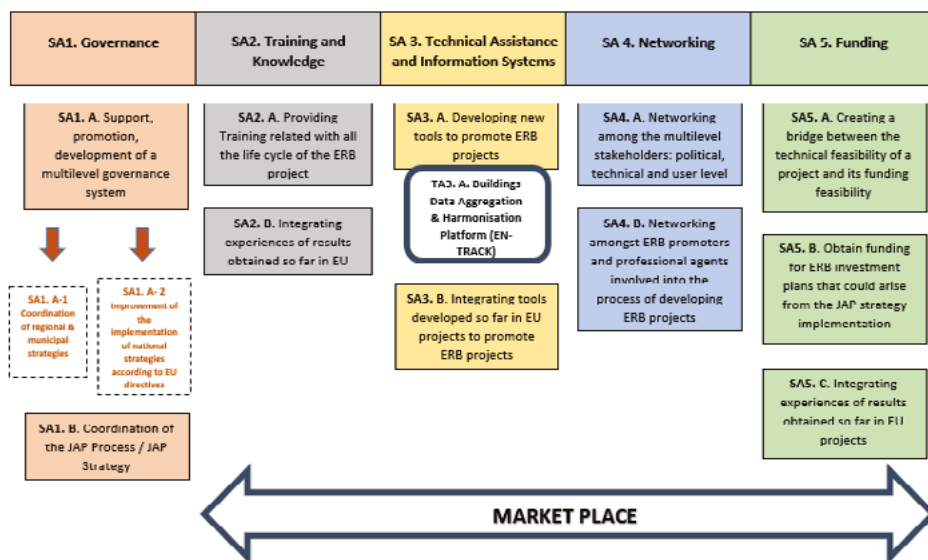
- SA1. Governance;
- SA2. Training and Knowledge;
- SA 3. Technical Assistance and Information Systems;
- SA 4. Networking;
- SA 5. Funding.

MED ERB JAP Strategic Axis & Transnational Actions

The MED ERB JAP has designed 2 different ways to integrate SHERPA results after its conclusion and create opportunities to promote new projects, integrating valuable results from others. The first one is:

- a specific, adjustable and ad-hoc way through the MED ERB JAP transnational actions that will keep including during its implementation ideas for new cooperation projects related to the MED ERB JAP strategic axes

MED ERB JAP STRATEGIC AXIS & CORRESPONDING OPERATIVE TRANSNATIONAL ACTIONS



As illustrated above, the MED ERB JAP concept is built on an on-going process that has 5 main strategic axes. For each of these strategic axes, potential key operative transnational actions have been identified. More precise actions will be integrated, and concrete projects will contribute to their implementation.



MED ERB JAP Market Place

Conceived as the first integrated transnational action of the MED ERB JAP contributing to all its axes at the same time the Market Place is a **standardised, scalable and integrated way** of creating opportunities to promote new projects, integrating valuable results from others.

The Market Place is conceived as a digital hub where the MED ERB JAP strategic axes converge with a final goal of raising ERB investment plans and creating optimal conditions to make it a reality. Once and if implemented successfully, it could become the gate to ERB promotion across the entire Mediterranean area.

The Market Place services can be related mainly to:

- Sharing knowledge/experiences about EE projects in public facilities (training, workshops, working groups, tools) which are taken from SHERPA and opened to other efficient buildings community projects and other European projects;
- The creation of a meeting point between ERB experts and ERB stakeholders;
- The identification of the best funding tools to match the identified needs.

JAP Investment Plan

One of the main goals for the MED ERB JAP strategy is creating and promoting all the mechanisms to raise ERB projects and encourage their execution. This means not just identifying real and valuable ERB projects but facilitating their funding. Thus, the MED ERB JAP must promote the right ecosystem where to meet projects with funding in an efficient way.

The MED ERB JAP strategy would dedicate its tools (e.g. Market Place, singular projects...) to channel public and private funds to the leverage investment plan that could be created from the MED ERB JAP strategic axes and their transnational operative actions, quantified around 500 Million euros in the first years of MED ERB JAP potential implementation.



MED ERB JAP Adhesion System

The conclusions derived from SHERPA form the basis for the “Declaration of support and engagement of the ERB JAP”.

The objective of the Declaration is to ensure the continuity of the transnational and multi- stakeholder dynamic of cooperation initiated by the SHERPA project, financed by the European Programme Interreg Mediterranean.

The authority/entity should send a letter of adhesion to the Generalitat of Catalunya or to the CRES as authorities entrusted with the MED ERB JAP coordination by SHERPA consortium, manifesting its interest and willingness to adhere to the initiative and be an active supporter. Following the answer to the letter, this manifestation of interest is formalized through the signature of the “Declaration of support and engagement of the ERB JAP”. This letter would aim at engaging the entity with the capitalisation of SHERPA results, supporting the main objectives and strategy of the ERB JAP network by stating the will to cooperate in this framework but not mean any precise financial commitment.

Project Partners & Contact



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