

TAKING
COOPERATION
FORWARD

BOOSTEE-CE
Focus Group Meeting (DC 7.2)

21 Aprile 2020
#WORKwithUS#

SHERPA Project

La fase di capitalizzazione,
i prodotti finali
e le prospettive future

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Regione Emilia-Romagna

Context and perspectives



- *Climate change*
- *Growing population*
- *Buildings ~40% of EU energy consumption*
- *Old building stock (35% over 50 years)*
- *Slow renovation rate (0.4-1.2% per year)*
- *2010/31/EU, 2012/27/EU, 2018/844/EU*
- *Transition towards NZEBs*
- *Exemplary role of public buildings*
- *Public bodies, including at regional and local level, to adopt **Energy Efficiency Plans** with specific energy saving objectives and actions for their public building stock*

Context and perspectives

Covenant of Mayors for Climate & Energy



✓ **Commitment of signatories to achieve 40% CO₂ reduction by 2030 + common approach for mitigation and adaptation of climate change**

✓ **Sustainable Energy (and Climate) Action Plans (SECAPs) – including energy saving targets and actions for public buildings**



Context and perspectives

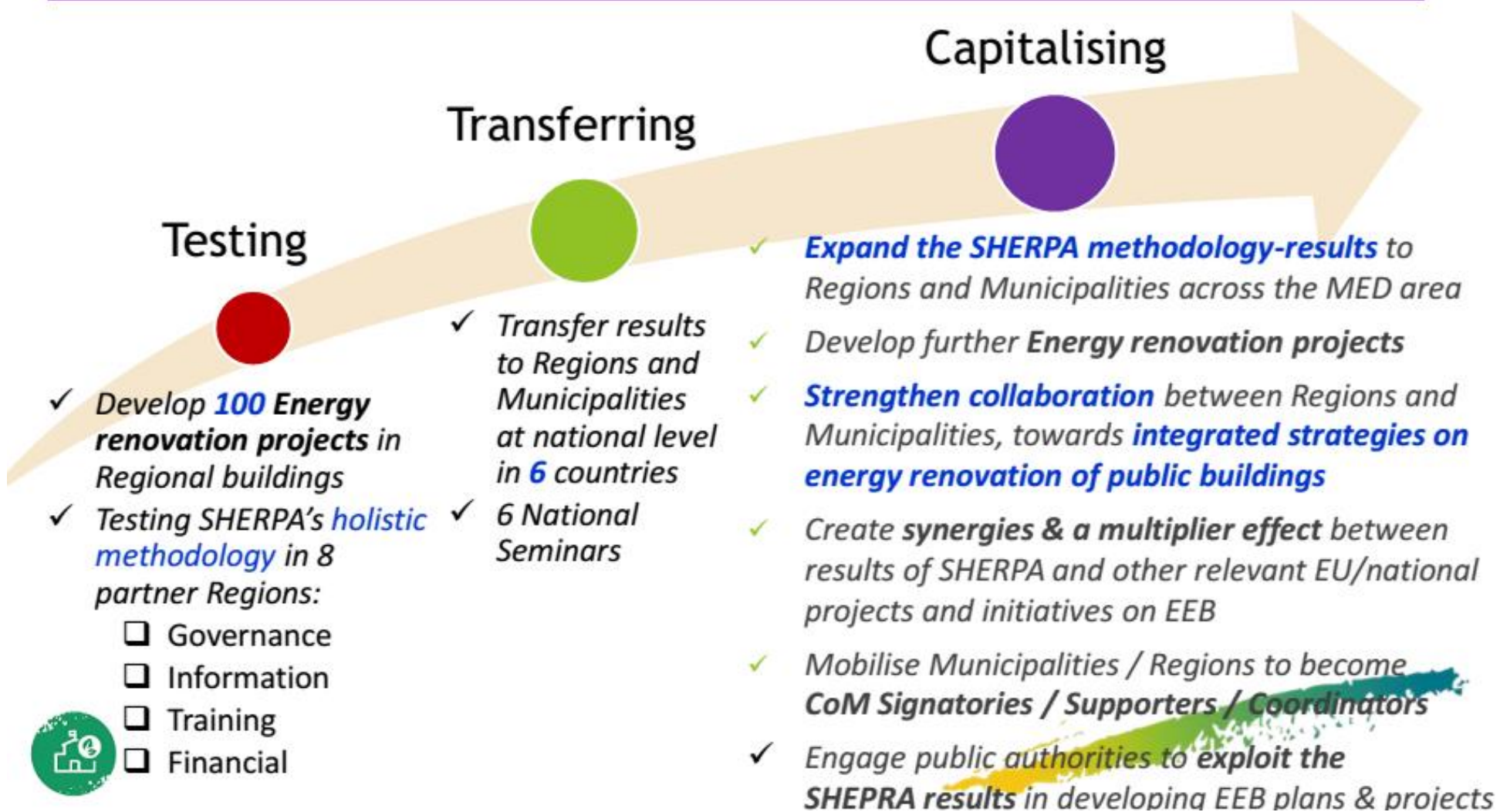


- ✓ *UN Sustainable Development Goals*
- ✓ *Transition to low-carbon economies is a key political priority at an international level*



- ✓ *'Climate-neutral' EU by 2050*
- ✓ *'Buildings renovation' is a key sector*
- ✓ *'Renovation wave' of public and private buildings*
- ✓ *New renovation initiative in 2020*

SHERPA Capitalisation



Interreg MED Capitalisation

Capitalisation

*“Organisation of data concerning the implementation of programmes, projects, their impacts, the methods used, in order to **make the accumulated experience usable** for other programmes, projects or stakeholder groups”*

Capitalising project

*“.. has the objective to **capitalise on existing project results, not only achieved in the framework of the Interreg MED programme** but also coming from other corresponding initiatives developed at local, regional, national and transnational level, **in the Interreg MED programme cooperation area and adjacent zones**”*

Interreg MED Efficient Buildings Community

SHERPA Pilot + Capitalisation Project *

CESBA MED Pilot + Capitalisation Project

TEESCHOOLS Pilot + Capitalisation Project

NEW FINANCE Capitalisation Project

IMPULSE Pilot Project **

SISMA Study Project *

PRIORITEE Pilot Project *

ENERJ Pilot Project

EDUFOOTPRINT Pilot Project

STEPPING Pilot Project

Priority Axis 2, Specific Objective 2.1: To increase capacity for better management of energy in public buildings at transnational level

Horizontal Project **MEDNICE**

**A MED COMMUNITY
FOR MORE EFFICIENT
PUBLIC BUILDINGS**



Obiettivi di SHERPA

- Promozione dell'efficienza energetica degli edifici pubblici
- la creazione di reti di conoscenza

Finalità

- raggiungere la massima quantità e qualità dei progetti di riqualificazione degli edifici pubblici
- attraverso la sperimentazione e l'applicazione di un modello generale di supporto tecnico che comprende gestione dei dati energetici, moduli formativi, individuazione e promozione degli schemi finanziari più funzionali.

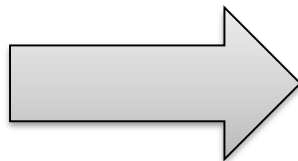
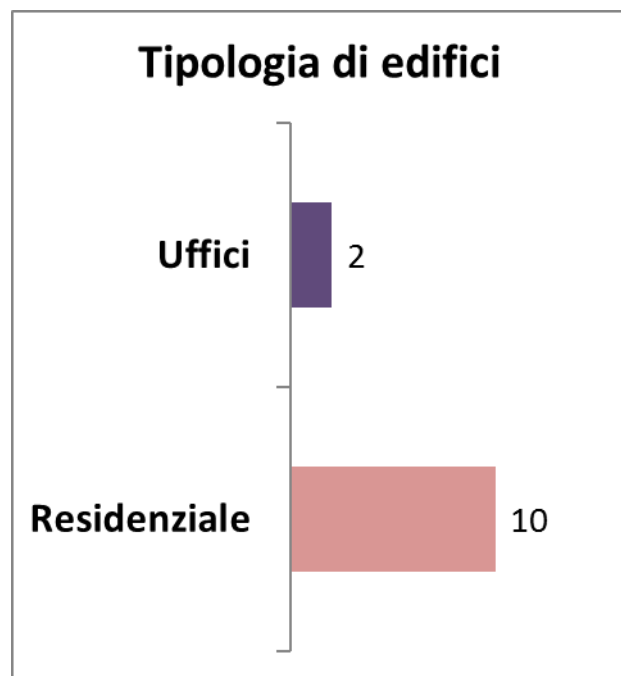
Come

Target

12 progetti di riqualificazione di edifici nella fase di test + 11 nella fase di capitalizzazione, inclusi uffici regionali, ERP, scuole, uffici comunali. SU ERP realizzato un focus importante

Edifici Pilota in Emilia - Romagna

☐ Sono stati selezionati 10 edifici ERP e 2 edifici dell'amministrazione regionale

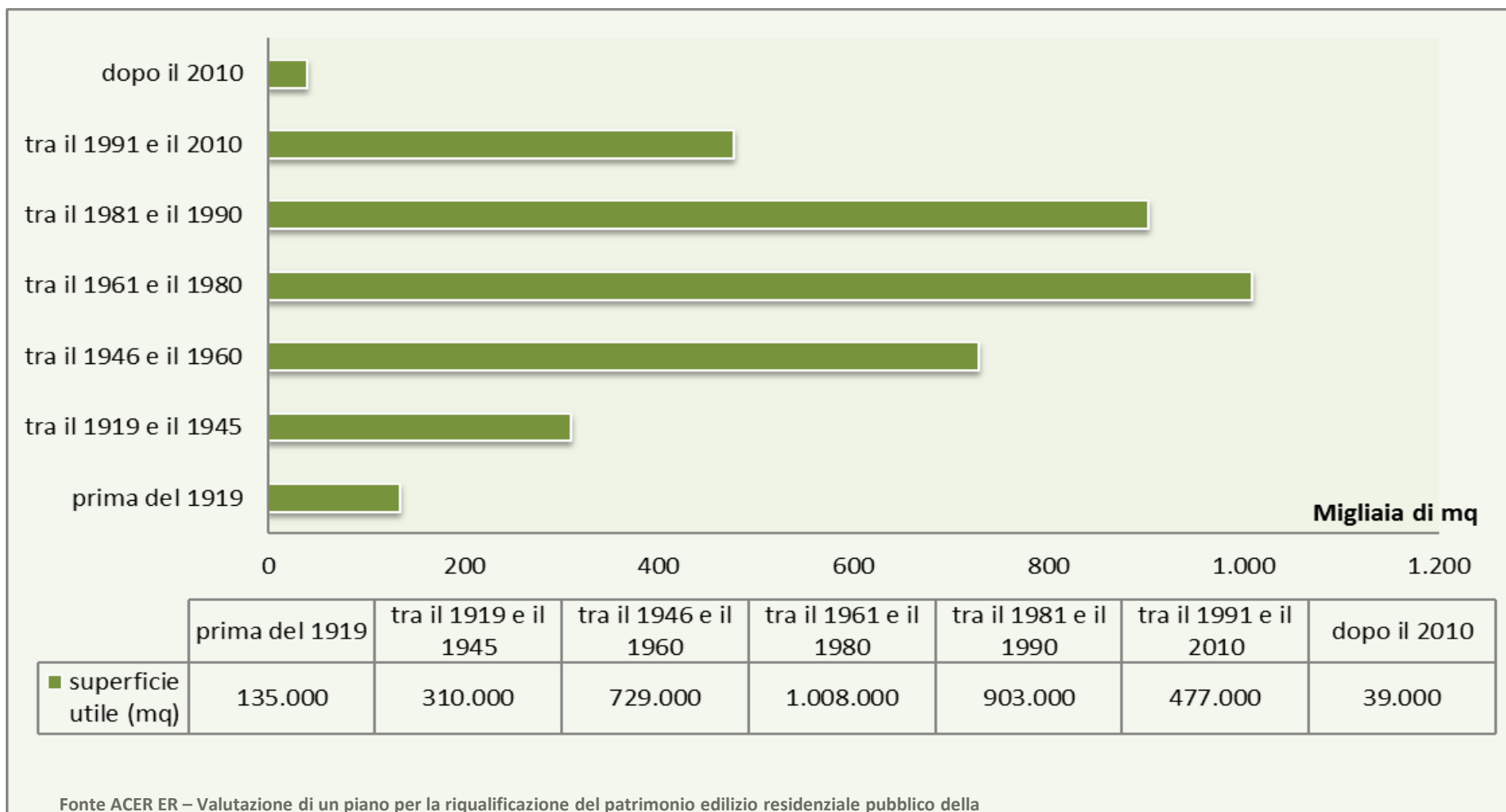


Edificio	Superficie(m2)	anno di costruzione
Bologna - VIALE ALDO MORO 30	6.228,00	1985
Bologna - VIALE ALDO MORO 50-52	10.600,00	1993
Forlì - via Massarenti n. 2-4	1.624,00	1978
Ferrara - Carlo Porta 1-3	14.300,00	1980
Carpi (MO) - via Belgrado 11 - 13	2.460,00	1982
Parma - Emilio Lepido 37 -39	1.568,00	1955
Travazzano (PC) - via Centro 121	497,00	1975
Piacenza - Morazzone 13	1.448,00	1975
Lugo (RA) - Toscana 2- 6	880,00	1978
Sant'Ilario d'Enza (RE) - Matteotti 16 - 18 - 20 -22	1.804,00	1914
Santarcangelo di Romagna (RN) - Ugo Bassi 2-4-6	1.674,00	1979
San Giovanni in Marignano (RN) - Ugo Bassi 2-4-6 (1.628,00	1979

Come abbiamo condotto la fase di test

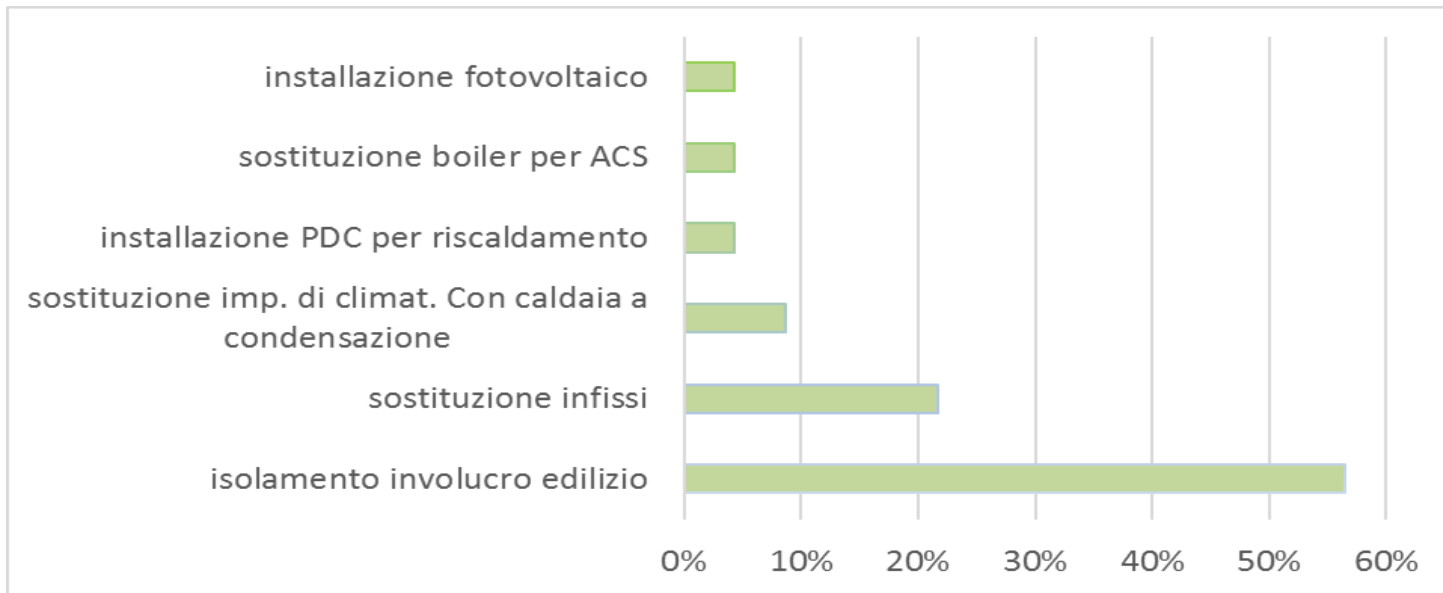
- Individuato e selezionato gli edifici ERP in base a criteri di rappresentatività del parco residenziale pubblico regionale
- Compilato le schede (fact sheet) identificative di ciascun edificio
- Raccolto le informazioni (es. caratteristiche costruttive, modalità di utilizzo edificio) e i dati sui consumi energetici e caricato nel sistema informativo
- Condiviso, con i partner di progetto, le sessioni formative on line sulla riqualificazione energetica degli edifici in cui hanno partecipato i tecnici dell'amministrazione regionale e delle ACER
- Organizzato tavoli di lavoro tecnico per un confronto tra i tecnici dell'amministrazione regionale e delle ACER sulle misure di efficienza energetica individuate su ciascun edificio selezionato
- Analizzato e condiviso con i tecnici dell'amministrazione regionale e delle ACER strumenti di finanziamento
- Predisposto per ciascuno degli edifici selezionati il rapporto di analisi energetica tecnico, economica e finanziaria (in fase di chiusura dei lavori)

Il patrimonio immobiliare dell'Edilizia Residenziale Pubblica



Su dati ACER del 2015, il patrimonio ERP della regione è costituito da circa 58 mila alloggi per una superficie utile complessiva di 3,6 milioni di mq. L'86% degli immobili risulta costruito prima del 1991.

La misure di efficienza energetica proposte per gli edifici ERP



La promozione della riqualificazione energetica degli edifici ERP

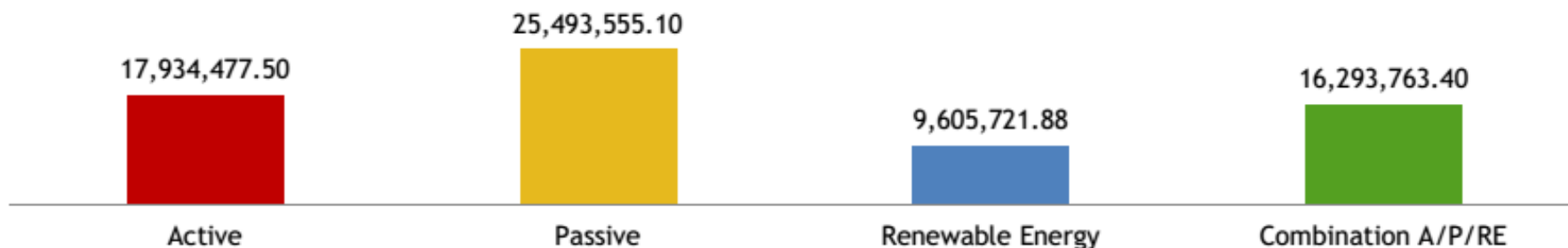
Barriere	Opportunità
<ul style="list-style-type: none"><input type="checkbox"/> Disponibilità dei dati di consumi energetico<input type="checkbox"/> Abitudini e modalità di utilizzo delle apparecchiature da parte degli inquilini<input type="checkbox"/> Coinvolgimento degli inquilini nel processo di riqualificazione energetica degli edifici.<input type="checkbox"/> Limitata disponibilità delle risorse finanziarie e capacità di reinvestire<input type="checkbox"/> Programmazione degli interventi di manutenzione subordinata alle emergenze<input type="checkbox"/> Attivazione di finanziamenti tramite terzi (es. Esco..)<input type="checkbox"/> Le principali misure individuate per la riqualificazione degli edifici ERP presentano dei tempi di ritorno elevati<input type="checkbox"/> Le spese accessorie ed i costi non strettamente connessi all'intervento energetico incidono sui tempi di ritorno	<ul style="list-style-type: none"><input type="checkbox"/> Progettazione integrata che tenga conto non solo degli aspetti energetici ma anche della sicurezza sismica, sostenibilità ambientale ecc.<input type="checkbox"/> Considerare le misure di efficienza energetica in modo modulare ed integrato.<input type="checkbox"/> Costruzione di un sistema informativo relativo al patrimonio immobiliare ERP che può guidare nella programmazione e definizione di eventuali misure di intervento<input type="checkbox"/> Approfondire l'analisi dei consumi energetici delle utenze considerando le diverse forme di contrattualistica delle multiutility, i migliori contratti energetici attraverso una indagine di mercato soprattutto per le fasce più deboli<input type="checkbox"/> Definire meccanismi di finanziamento ottimali considerando soluzioni combinate tra risorse pubbliche e private per superare le barriere di accesso al credito (eventualmente facendo massa critica)

From 100 Regional buildings in the Testing phase.....



Global results

Total investment cost ~ 69.327.518 €



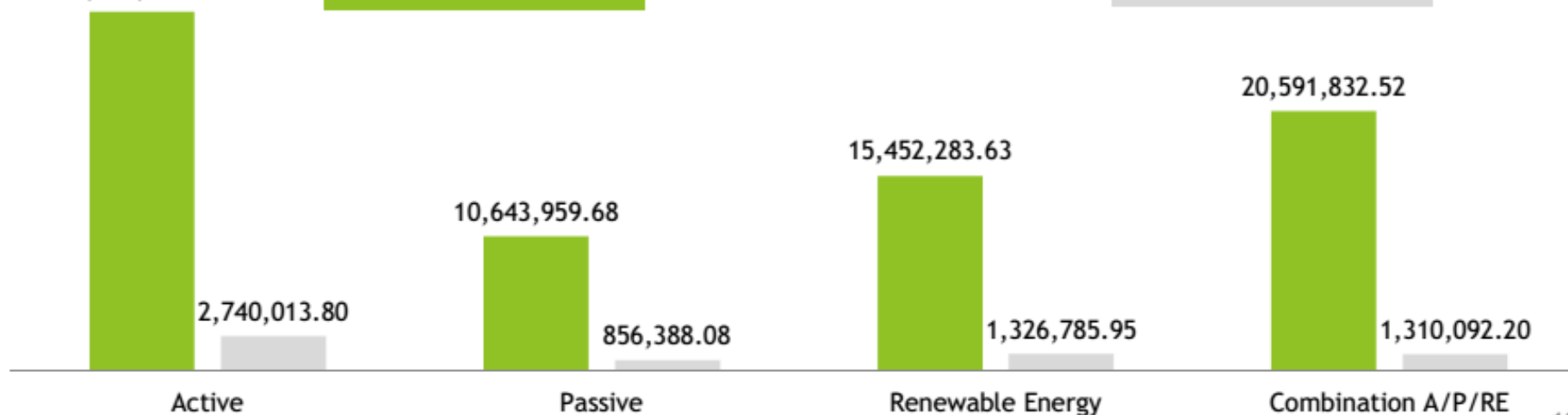
Estimated energy savings

Estimated financial savings

28,489,147.06

~ 75.177.223 kWh

~ 6.233.280 €



9 Regional Capitalisation Workshops



Heraklion (GR), 05.04.2019



Barcelona (ES), 29.05.2019



Bologna (IT), 22.10.2019



Alicante (ES), 09.04.2019



Lleida (ES), 27.06.2019



L' Aquila (IT), 12.11.2019



Valencia (ES), 16.04.2019



Paris (FR), 03.07.2019

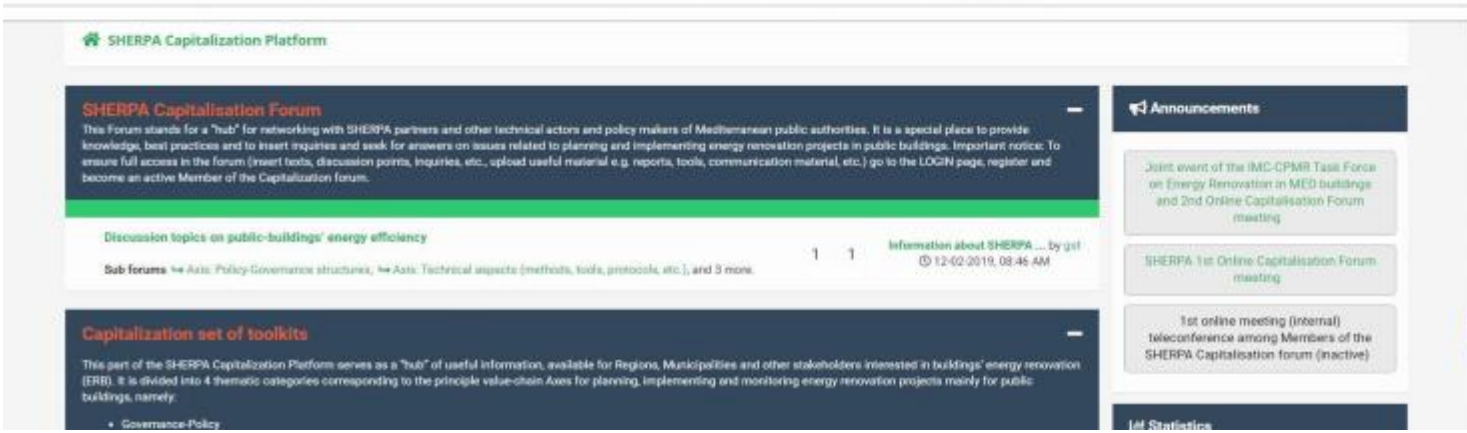


Rome (IT), 26.11.2019

SHERPA Capitalisation Platform

<https://sherpanet.eu/>

- ✓ *Operational after the end of SHERPA*
- ✓ *Essential tool for further exploitation of project outcomes*
- ✓ *Register for free, to have full access to the content*



Function - Online Capitalisation Forum

 SHERPA Capitalization Platform » SHERPA Capitalisation Forum » Discussion topics on public-buildings' energy efficiency

Forums in 'Discussion topics on public-buildings' energy efficiency'

Forum



Axis: Policy-Governance structures

Upload a public or private message e.g. discussion, inquiry text or attached material, on Policy-Governance aspects regarding public buildings' energy efficiency



Axis: Technical aspects (methods, tools, protocols, etc.)

Upload a public or private message e.g. discussion, inquiry text or attached material, on Technical aspects regarding public buildings' energy efficiency



Axis: Financial schemes and evaluation

Upload a public or private message e.g. discussion, inquiry text or attached material, on Financial aspects aspects regarding public buildings' energy efficiency



- ✓ **Networking forum** of public authorities and interested stakeholders involved in Energy Efficiency of Buildings in the MED area and beyond
- ✓ Exchanging knowledge, ideas, project results
- ✓ Fostering future collaborations



Function - 4 Thematic Capitalisation Toolkits

[SHERPA Capitalization Platform](#) » Capitalization set of toolkits



Policy

Governance-policy issues concerning the energy renovation of public buildings.



Technical

Technical information (tools, method, etc.) concerning the energy renovation of public buildings.



Financial

Financial issues (programmes, schemes, etc.) concerning the energy renovation of public buildings.



Awareness

Awareness-training information (structures, programmes, etc.) concerning the energy renovation of public buildings.



- ✓ **“Hub” of useful information**, available for public authorities and interested stakeholders in the Energy Efficiency of Buildings
- ✓ Collection of **deliverables, best practices, tools, methodologies** from SHERPA and other related MED / EU projects and initiatives on EEB



Function - 4 Thematic Capitalisation Toolkits

SHERPA Capitalization Platform » Capitalization set of toolkits » Toolkit: Technical information (tools, method, etc.) concerning the energy renovation of public buildings

- ✓ Searchable database
- ✓ Criteria classification

Select Category

Select Field of Application

Select Context

Select Country





Select Principle stakeholders

Go

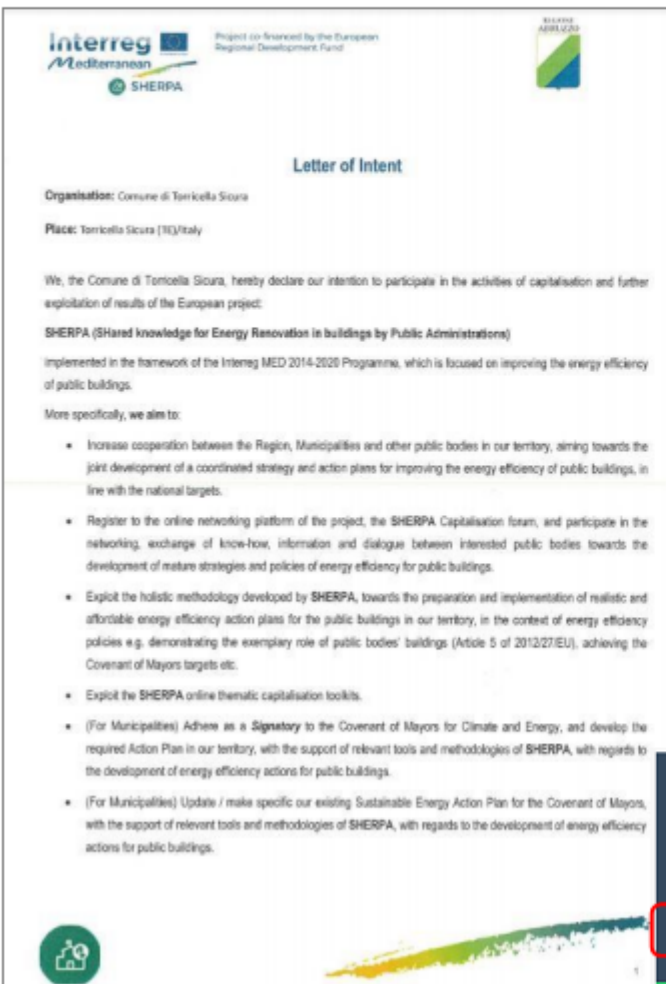
Toolkit: Technical information (tools, method, etc.) concerning the energy renovation of public buildings

Mark this toolkit read | Subscribe to this toolkit | Clear stored forum password

Contents

	Sustainability assessment tool Category: Technical tool or software Field of application: Energy/sustainability assessment Context: Structure	18	☆☆☆☆☆	01-08-2020, 10:24 PM
	Decision support tool for prioritizing energy upgrading investments for public build Category: IT platform or system Field of application: Planning building energy renovation projects Context: Project	6	☆☆☆☆☆	01-08-2020, 10:22 PM
	Excel-based platform for automated production of public-buildings' gradual renovation Category: Technical tool or software Field of application: Planning building energy renovation projects Context: Project	6	☆☆☆☆☆	01-08-2020, 10:21 PM
	Methodology for planning public-buildings' energy renovation projects Category: Technical guideline or methodology Field of application: Planning building energy renovation projects Context: Project	5	☆☆☆☆☆	01-08-2020, 10:18 PM

SHERPA 'Implementers'



Letter of Intent

Organisation: Comune di Torricella Sicura

Place: Torricella Sicura (TR)/Italy

We, the Comune di Torricella Sicura, hereby declare our intention to participate in the activities of capitalisation and further exploitation of results of the European project:

SHERPA (Shared knowledge for Energy Renovation in buildings by Public Administrations)

implemented in the framework of the Interreg MED 2014-2020 Programme, which is focused on improving the energy efficiency of public buildings.

More specifically, we aim to:

- Increase cooperation between the Region, Municipalities and other public bodies in our territory, aiming towards the joint development of a coordinated strategy and action plans for improving the energy efficiency of public buildings, in line with the national targets.
- Register to the online networking platform of the project, the SHERPA Capitalisation forum, and participate in the networking, exchange of know-how, information and dialogue between interested public bodies towards the development of mature strategies and policies of energy efficiency for public buildings.
- Exploit the holistic methodology developed by SHERPA, towards the preparation and implementation of realistic and affordable energy efficiency action plans for the public buildings in our territory, in the context of energy efficiency policies e.g. demonstrating the exemplary role of public bodies' buildings (Article 5 of 2012/27/EU), achieving the Covenant of Mayors targets etc.
- Exploit the SHERPA online thematic capitalisation tools.
- (For Municipalities) Adhere as a **Signatory** to the Covenant of Mayors for Climate and Energy, and develop the required Action Plan in our territory, with the support of relevant tools and methodologies of SHERPA, with regards to the development of energy efficiency actions for public buildings.
- (For Municipalities) Update / make specific our existing Sustainable Energy Action Plan for the Covenant of Mayors, with the support of relevant tools and methodologies of SHERPA, with regards to the development of energy efficiency actions for public buildings.

- Public authorities across the MED area have **declared their intention** to:

- ✓ *Exploit the SHERPA methodology to develop their energy efficiency action plans for public buildings*
- ✓ *Adhere to CoM as a signatory (Municipality) or Supporter/Coordinator (Region/other) and develop/update SE(C)APs with specific EEB actions using SHERPA outcomes*
- ✓ *Register to SHERPA Online Capitalisation Forum*
- ✓ *Seek synergies with other similar projects on EEB*
- ✓ *Promote the SHERPA Joint Action Plan etc.*

Be SHERPA Implementer

Are you a Coordinator or Supporter of the Initiative "Covenant of Mayors for Climate and Energy"?

Are you a Public Authority, e.g. a Region or Municipality, or a Network/association of Municipalities or other eligible body?

You can become SHERPA implementer and take advantage of its tools, methodologies and network, simply by signing a Letter of Intent (LoI); then send the scanned copy to the email address.sherpa@ec.europa.eu

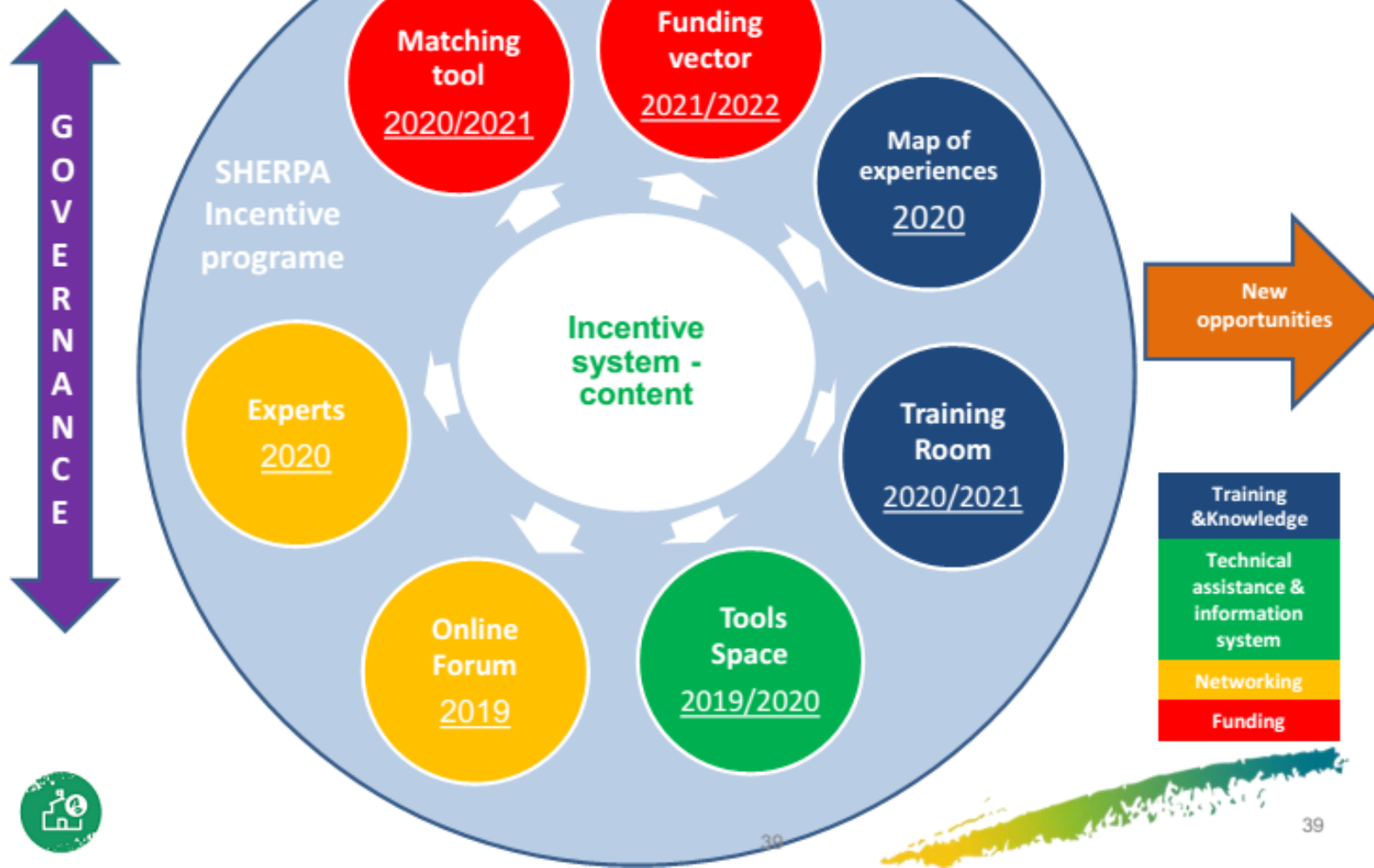
- 📎 Letter-of-Intent Template for Coordinator or Supporter of Covenant of Mayors
- 📎 Letter-of-Intent Template for Regional or Local Authority or other eligible body

SHERPA Joint Action Plan

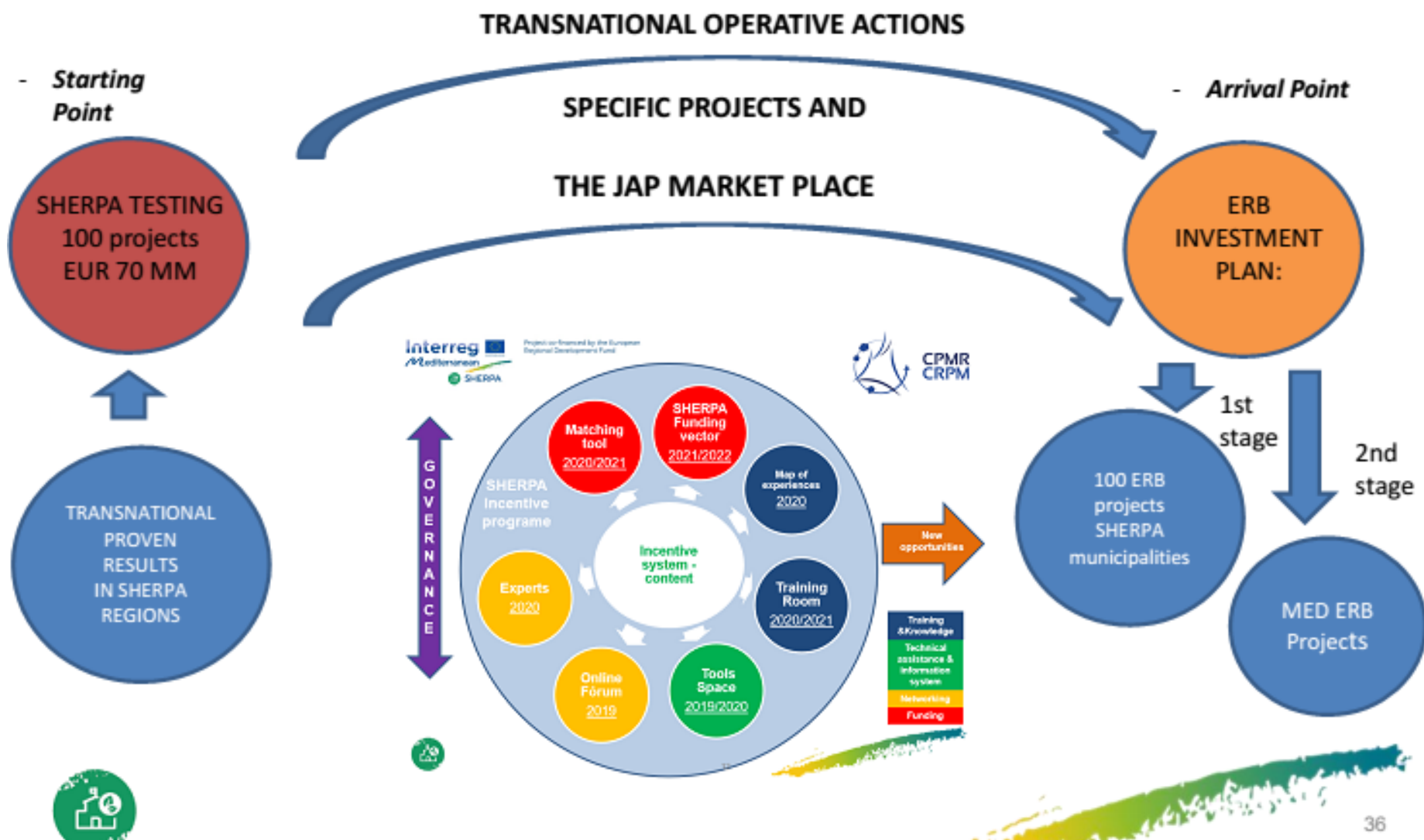


- ✓ *Establishment of a common framework to streamline EU, national and regional policies*
- ✓ *Draw on the results of the SHERPA project together with other EU, national, regional and local programmes and initiatives on ERB in public and private buildings in the Mediterranean area.*
- ✓ *Capitalising SHERPA results throughout the wider MED area, at high political level*





JOINT ACTION PLAN and The Marketplace



Joint Action Plan on

Energy Renovation in Mediterranean Buildings (MED ERB JAP)

“Declaration of support and engagement”

This document aims at engaging the signatory entity with the opportunity of capitalizing the results of interest produced by SHERPA project, supporting at the same time the main objectives and strategy of the MED ERB JAP and its network towards the implementation of significative cooperation actions on Energy renovation in buildings at European and Mediterranean scale.

By signing this document, I declare that my entity, engages to:

- **capitalize the main results, the tools and the methodology of interest of the project SHERPA** (SHared knowledge for Energy Renovation by Public Administrations) implemented in the framework of the Interreg MED Programme 2014-2020 and focused on improving the energy efficiency of public buildings in its own field of action;
- **share the main objectives and support the future achievement and the implementation of the MED ERB JAP strategy with its 5 axes of work** (Governance, Training & knowledge, Technical assistance & information systems, Networking and Funding), through the potential collaboration in concrete actions;
- **actively participate as a supporter of the MED ERB JAP network and thus process of aggregation of key multilevel stakeholders**, which could imply to:
 - share new cooperation and funding opportunities contributing to the implementation of the MED ERB JAP (e.g. in line with its scheme for operative transnational actions);
 - seek synergies with other relevant projects and initiatives on ERB for capitalization purposes and share knowledge and experiences with the ERB JAP network;
 - encourage other public and private authorities/entities to join forces for Energy renovation in buildings in the framework of the MED ERB JAP network.

I declare that my entity understands that joining the MED ERB JAP does not imply financial engagement and that no fees and no obligations are required but that becoming an active supporter will open the door to a wide range of innovative cooperation opportunities, exchange of experiences and knowledge.

This Declaration of support and engagement comes into effect as of the date of the signature of the joining entity.

Done in [XXX] on [XXX] in English.

Declaration of support and engagement

Letter of adhesion

Letterhead of the joining region/entity

Date/ registration number

Address of Generalitat of Catalonia/Cres to
be added

Object: adhesion of the entity to the MED ERB Joint Action Plan support network

The public authority/entity that I hereby represent – name of the entity - is aware that the Mediterranean area is facing important challenges related to energy consumption and CO₂ emissions, which are accelerating the current world “Climate Crisis” and is convinced that Energy Efficiency in Buildings is a real and major opportunity to develop a more sustainable, competitive, secure and decarbonised energy system both at EU and Mediterranean level.

We realize that a stronger and more active cooperation among key stakeholders, especially in the Mediterranean area, is needed in this field to prevent the negative climate impacts of energy consumption and foster the sustainable development of this area together with multilevel governance schemes and public-private investments.

We acknowledge the results of the SHERPA Interreg Med project and the main objectives, as highlighted in chapter 1 “Joint Action Plan Rationale and Objectives”, that the Joint Action Plan set up on the topic of Energy renovation in Mediterranean Buildings (MED ERB JAP) and we would like to collaborate in the promotion of joint actions in the Mediterranean, we wish to manifest our interest in joining the MED ERB JAP support network.

Through its past and current actions, the authority/entity I represent (section to be adapted by each entity)

- promotes Energy Renovation Buildings projects, which is recognized as one of the priorities in its policies, strategies and programmes
- provides technical/financial support to public entities on ERB projects’ implementation
- provides knowledge/services to ERB operators other...

We have participated in particular in the project/s X, Y, Z which promote Energy Efficiency /Renovation in Buildings (please specify public/private buildings and adapt to your related relevant experience in short).

Our authority/entity developed also/supported the development of a Regional Strategy on Energy Renovation of Buildings / Sustainable Energy Action Plan (SEAP) / Sustainable Energy and Climate Action Plans (SECAPs) (please specify if relevant).

As “MED ERB JAP supporter”, the public authority/entity I represent would be glad to capitalize upon the results produced by SHERPA project and engage to foster cooperation with other administrations, private actors, international organizations and initiatives and new concrete actions related to Energy

Riferimenti:

- SITO WEB di progetto: <https://sherpa.interreg-med.eu/>
- SHERPA capitalization platform: <https://sherpanet.eu/>
- Pagina web Regione Emilia-Romagna:
<http://territorio.regione.emilia-romagna.it/entra-in-regione/progetti-europei/progetti-europei-attivi/sherpa>

Contatti: claudia.mazzoli@regione.emilia-romagna.it