

The One-Stop-Shop set-up by the Metropolitan City of Milan and ENEA

16/12/2020, PadovaFit expanded project meeting

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ENEA - Italian Energy Agency

DeciWatt: the beginnings

Institutional activities of two Public bodies



Città
metropolitana
di Milano

Metropolitan City of Milan: an area including
133 Municipalities and the city of Milan (3.2MLN
inhabitants)



Environmental and Territories Area:

- Competent authority for inspection of thermal plants in civil sector
- Developer of a topographic database, Decimetro, for data analysis and decision supports.
- Sustainable Development Agenda: promoter and developer of the Metropolitan Agenda

National Energy Agency

- Research and innovation for the development of tools and models aiming at achieving 2030 and 2050 EU objectives.
- Territorial offices all over Italian regions to support PAs in the development, implementation and monitoring of energy strategies.

DeciWatt: the beginnings

Institutional activities of two Public bodies

- ✓ Trainings for independent experts for inspection activity
- ✓ Support for quality certification ISO9001

2017

Memorandum of understanding

- ✓ ENEA office @CMM
- ✓ Experimental campaign of «light» energy audits for buildings with heating generators >35kW
- ✓ Dissemination activity in energy efficiency



Città
metropolitana
di Milano



Executive Act

2020

Development and implementation
of a metropolitan One Stop shop



DeciWatt: the beginnings



Digital tool integrating different dbs based on open sources sw

Fundings: self-financing

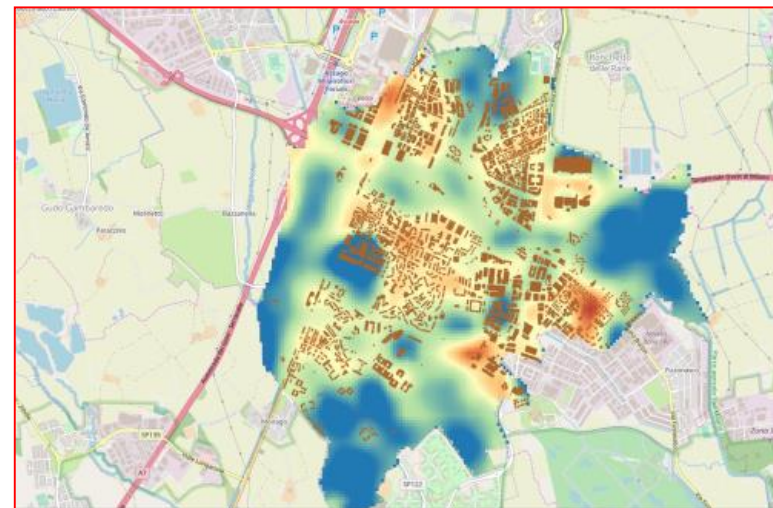
Objective: sustainable development

Key word: digitalization

Target: local Public Administrations, private sector (citizens, enterprises, real estate agencies, installers of building sector, designers)

Opportunities:

- ✓ Metropolitan OSS
- ✓ Management of heating plant inspections
- ✓ Support for definition and monitoring of Energy Strategies of Municipalities
- ✓ Management of buildings owned by PAs

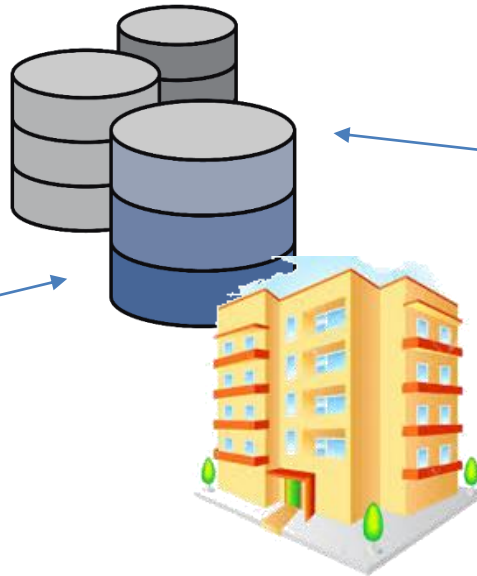


DeciWatt: digital tool



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di Milano

- Heating plant inspections db
- Topographic db
- Ecographic db
- Urban heat islands



Lombardy
Region

- Energy db (EPC, Heating plants, Heat pumps, ...)
- Topographic db

Municipalities



- Civil registry
- Buildings and lands cadaster
- Streets
- Topographic db





DeciWatt: metropolitan OSS

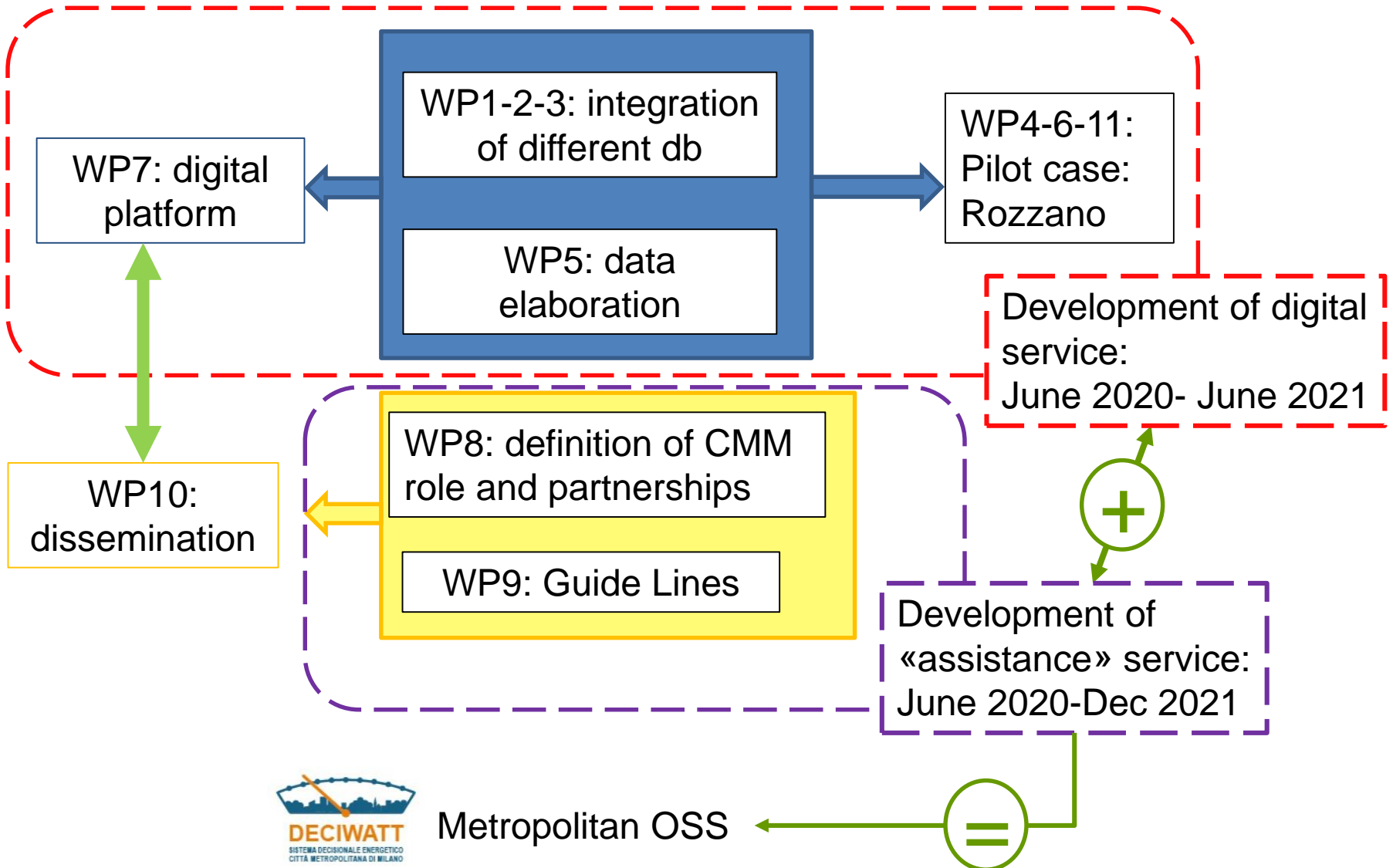
Objectives:

- ✓ Development of metropolitan OSS aiming at promoting the renovation of public and private building stock
- ✓ Develop a virtual place where homeowners can find all information, transparent and well organized, to make the renovation of their homes effective
- ✓ Develop a virtual place where municipalities can find information and technical support for the renovation of their buildings

Main barriers:

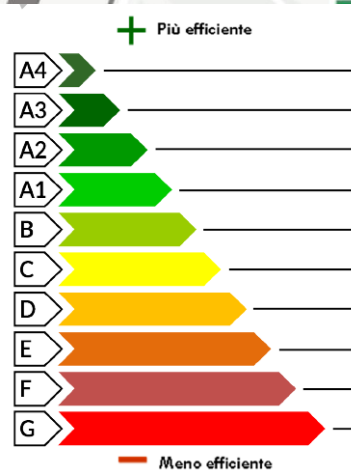
- ✓ Gap of knowledge and awareness
- ✓ Multidisciplinary process which integrates different expertises (technical, financial, building permits...)
- ✓ Lack of confidence in professionals offer
- ✓ Uncertainty of the results (building performances after works)

DeciWatt: Work Packages



OSS DeciWatt: Digital Service

Where we are: building card

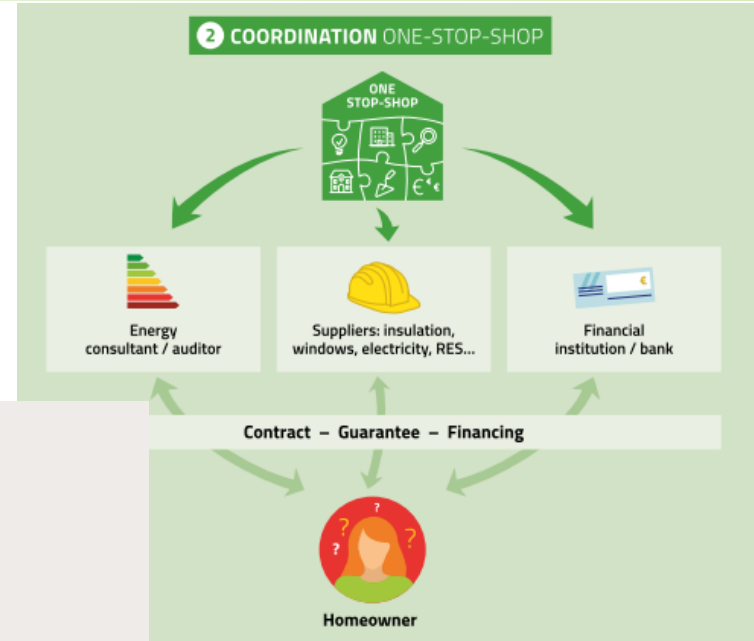


Location	<p>Scheda informazioni edificio</p> <p>per una completa visualizzazione scorrere tutte le informazioni contenute</p> <p>Città metropolitana di Milano DECIWATT ENEA</p> <p>Questo report viene generato in maniera automatica raccogliendo le informazioni relative al tuo edificio dal Database del tuo Comune e di Regione Lombardia.</p> <p>Per caso in cui le informazioni risultano essere incomplete o mancanti puoi contribuire al nostro servizio compilando il form al link sottostante.</p> <p>Link al form completo qui</p> <p>può anche la tua partecipazione attiva al progetto sarà per noi sempre preziosa dandoci una fotografia della caratteristiche energetiche del tuo edificio e facendo alcuni appunti.</p> <p>Indirizzo: Viale Via Indirizzo: ROMAGNA Romagna Edificio: 31</p>																				
	Geometry	<p>Caratteristiche fisiche dell'edificio</p> <p>altezza attuale dell'edificio: 3 metri</p> <p>Le informazioni relative alla geometria dell'edificio sono estratte dal Database topografico di Città metropolitana di Milano. La superficie esterna disponibile è calcolata al netto delle porzioni di edificio che non sono esposte all'esterno ma convivono con altri edifici adiacenti più la superficie del tetto dell'edificio.</p> <p>superficie totale disponibile: 598.000 m²</p> <p>volume totale disponibile: 1,907.150 m³</p> <p>superficie disponibile: 743.630 m²</p>																			
Heating plant	<p>Impianti che servono l'edificio</p> <p>numero di generatori presenti: 2 impianti</p> <p>Le informazioni qui riportate sono estratte dai bilanci energetici (CEB) Calcolo Impianti Termici di Regione Lombardia e Città metropolitana di Milano.</p> <p>potenza massima degli impianti: 27 kW</p> <p>potenza totale degli impianti: 107 kW</p> <p>potenza minima degli impianti: 26 kW</p> <p>potenza massima degli impianti: 27 kW</p>																				
Occupants	<p>Informazioni anagrafiche</p> <p>unità immobiliari coltivate nell'edificio: 4 UCI</p> <p>persone residenti: 3 persone</p> <p>numero di famiglie residenti: 2 famiglie</p> <p>UCI (unità immobiliari coltivate) presenti nell'edificio:</p> <table border="1"> <thead> <tr> <th>Località</th> <th>Indirizzo completo</th> <th>anno</th> <th>DECIWATT (potenza)</th> </tr> </thead> <tbody> <tr> <td>UCI 1</td> <td></td> <td></td> <td></td> </tr> <tr> <td>UCI 2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>UCI 3</td> <td></td> <td></td> <td></td> </tr> <tr> <td>UCI 4</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Località	Indirizzo completo	anno	DECIWATT (potenza)	UCI 1				UCI 2				UCI 3				UCI 4			
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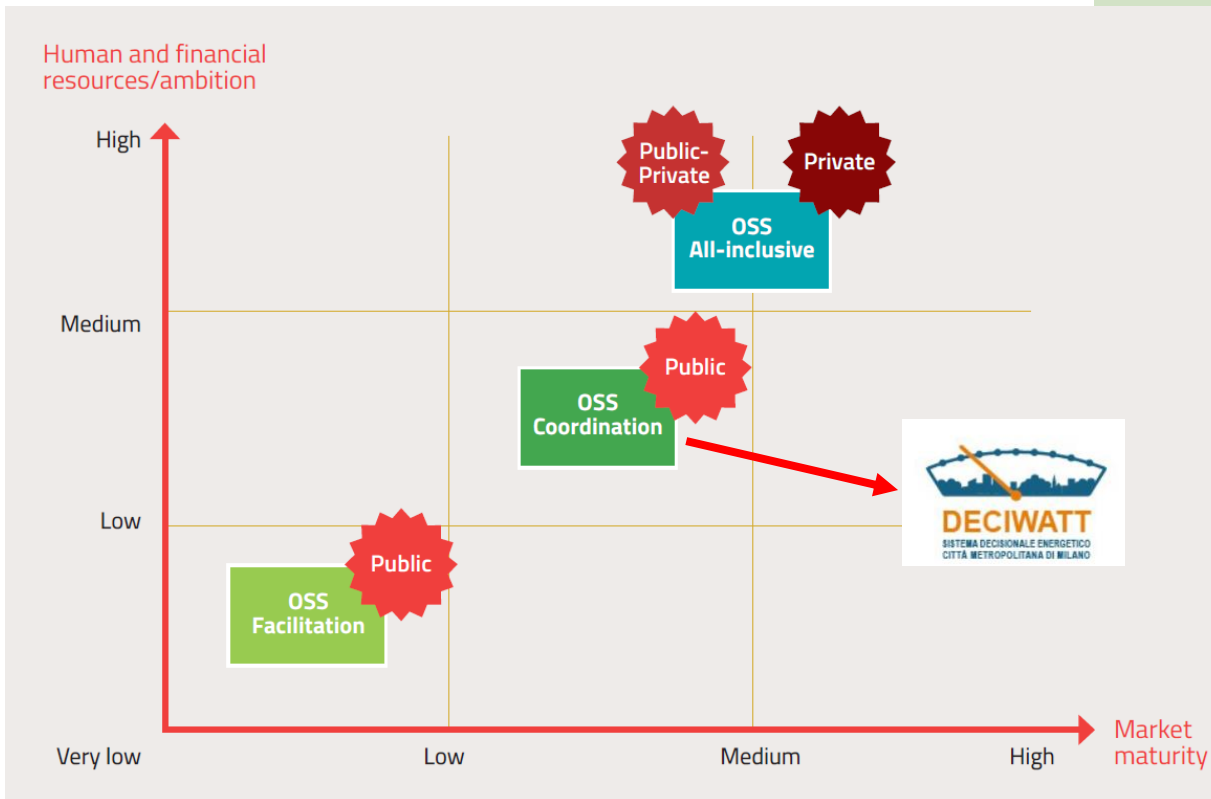
OSS DeciWatt: Assistance Service

Where we are

Possible model to be implemented by CMM



Figures from INNOVATE H2020 project



Since 2020 Italian government incentivizes buildings energy renovation with 110% of tax deduction

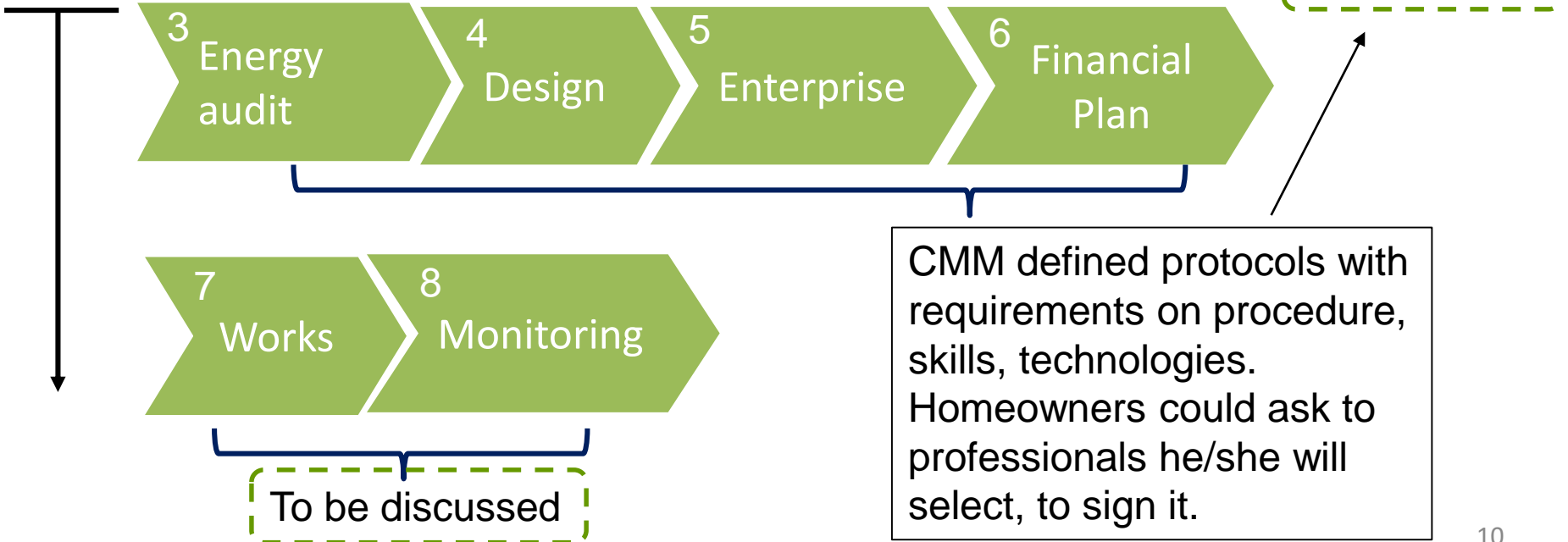


OSS DeciWatt: Assistance Service



Digital Service

Assistance Service

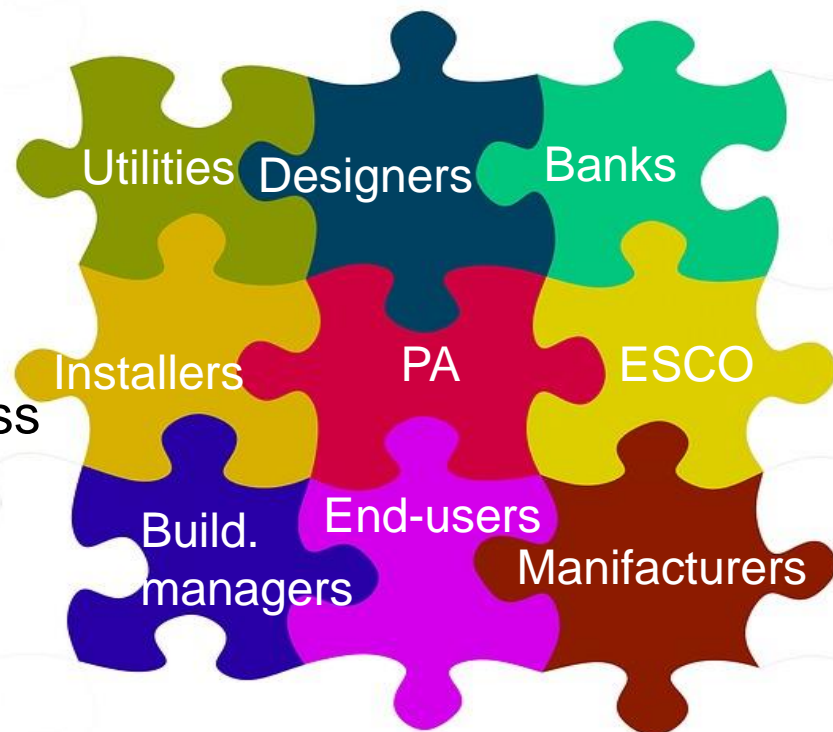


OSS DeciWatt Stakeholders



CMM will involve all the stakeholders of the building value chain:

- ✓ To define the different phases of the renovation path
- ✓ To define the content of the protocols
- ✓ To make the OSS info shared with the principal actors of the renovation process
- ✓ For CMM and ENEA to increase knowledges in renovation process



OSS DeciWatt: next steps

Activation of stakeholders meetings (2021):



- ✓ Definition of different thematic groups
- ✓ Definition of the stakeholders (associations, no single companies)
- ✓ Preparation and signature of a Memorandum of Understanding to share the objectives and the strenghts of working groups

Admission for financing of submitted projects? (Recovery Fund; H2020)

OSS DeciWatt: next steps

Building card available for all CMM municipalities

From building card to digital audit (light):

Building card



V.I.C.T.O.R.I.A.

Valutazione degli Interventi incentivabili dal Conto
TermicO e relativi Risparmi - Interfaccia APE



Type of works (envelope, technical building system):

- ✓ Energy savings, payback time
- ✓ Amount of incentives (pay back time)
- ✓ Evaluation of cost-benefits for different buildings

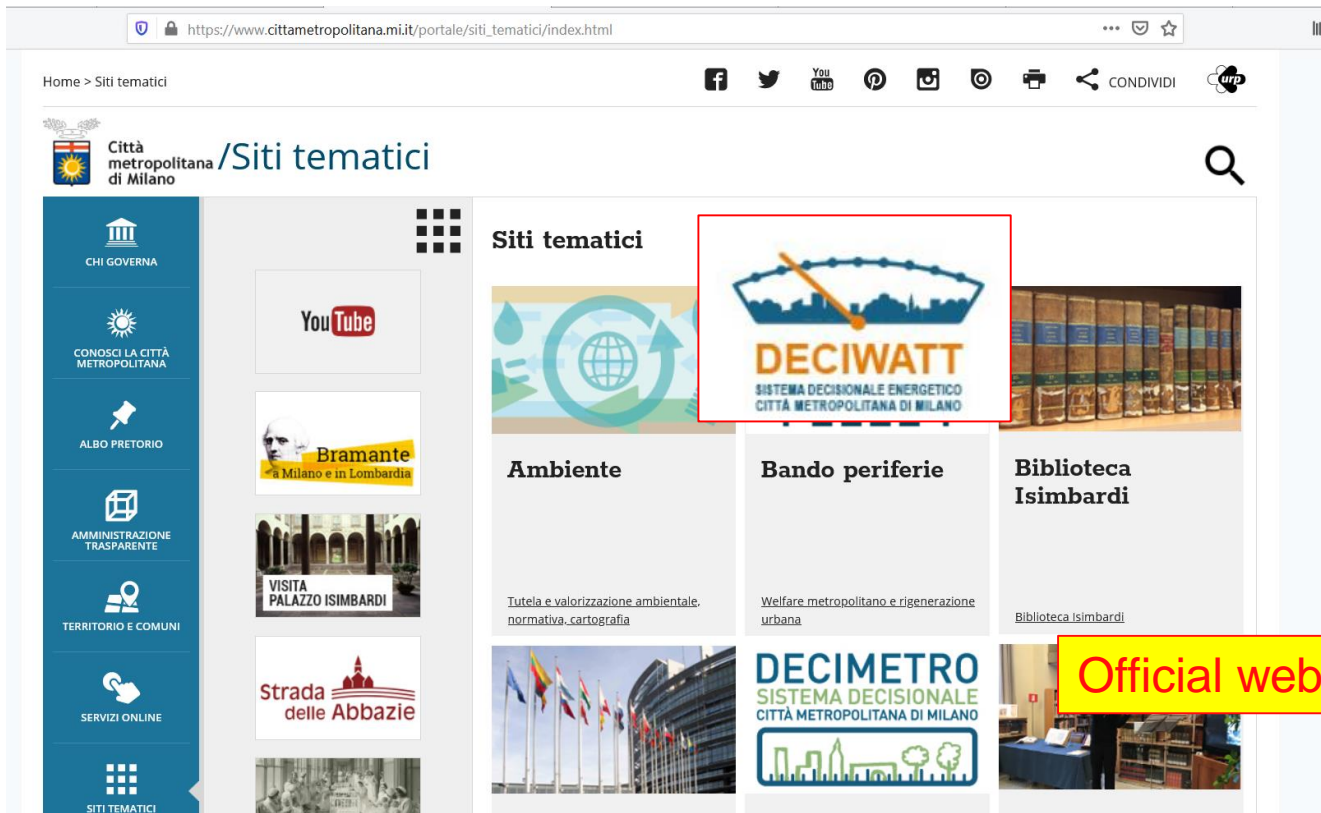
www.victoria.enea.it




OSS DeciWatt: next steps

Activation of website (2021):

- ✓ Launch of the web site with the services available so far
- ✓ Finalization of the guide lines and optimization ENEA materials
- ✓ Finalization of the digital service (to all the CMM municipalities)



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Official website of CMM

Thank you for your attention!
Any questions?