



Padova FIT Expanded: a project for boosting the energy refurbishment of private buildings

SMAFIN – Smart Financing Implementation

GIOVANNI VICENTINI, Municipality of Padova

15/04/2021



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 847143.

THE SECAP



The Action Plan for Sustainable Energy and Climate is the strategic tool that outlines the municipality's sustainability strategy with a horizon to 2030. It deals with both mitigation and adaptation. It has been developed in 6 macro-areas, which group homogeneous actions by scope of intervention.



The activation of the One-Stop-Shop is one of the key actions of pillar 2 “A more efficient city”



A MORE EFFICIENT CITY



Thanks to the participation and coordination of some EU projects, the City of Padova is activating a new model for supporting the energy refurbishment of private residential buildings



<p>Padova FIT 2013-2017 Financed by IEE MLEI. Leverage factor >15</p>	<ul style="list-style-type: none">✓ Only for condominiums✓ Focused on the Municipality of Padova✓ Project Development Assistance project to prepare the ground for the activation of private investments (ESCo model)✓ Based on the EPC contracts and third party financing
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<p>Padova FIT Expanded 2019-2022 100% financed by H2020</p>	<ul style="list-style-type: none">✓ Extended to other building typologies✓ Replicated in other EU cities (Timisoara in Romania, Smolyan and Vidin in Bulgaria)✓ Based on the new One-Stop-Shop model, to overcome the weaknesses of the PadovaFIT project
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PADOVA_FIT EXPANDED



Started in June 2019
Ending in November 2022



An overall budget of **1.5 mln €**
www.padovafit.eu

Project Partners:



**Università
Bocconi**
GREEN
Centre for Geography,
Resources, Environment,
Energy and Networks



SINLOC
Sistema Iniziative Locali



Forum per la
Finanza Sostenibile



Climate Alliance

ЕНЕРГИЙНА
АГЕНЦИЯ
ПЛОВДИВ



ENERGY
AGENCY OF
PLOVDIV



Timisoara 2021
European Capital of Culture

Expected results

The OSS of Padova and Timisoara should:

- Mobilize at least 5.5 million € of investments,
- Save about 1.7 GWh of primary energy consumptions,
- Increase of 1.3 GWh the RES production,
- Reduce of at least 850 tons the CO₂ emissions

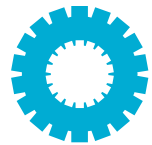


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THE NEW CONCEPT OF ONE-STOP-SHOP



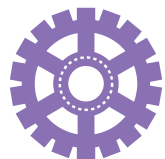
The existing OSS can vary on:



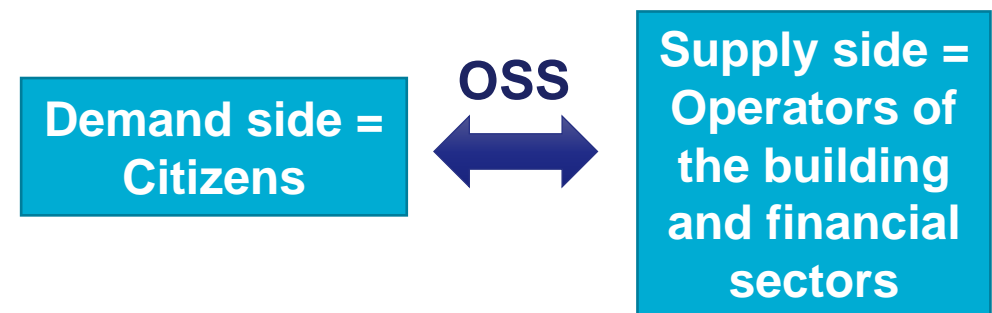
The legal basis (public-private partnership, total public body, energy agencies, ESCOs, etc.)



The available resources (human, economic, own resources, external financing, fee for beneficiaries, white certificates, etc.)



The services provided by the OSS (only information, technical & financial services, purchasing groups, etc.)



WHICH FORM FOR OUR ONE-STOP-SHOP



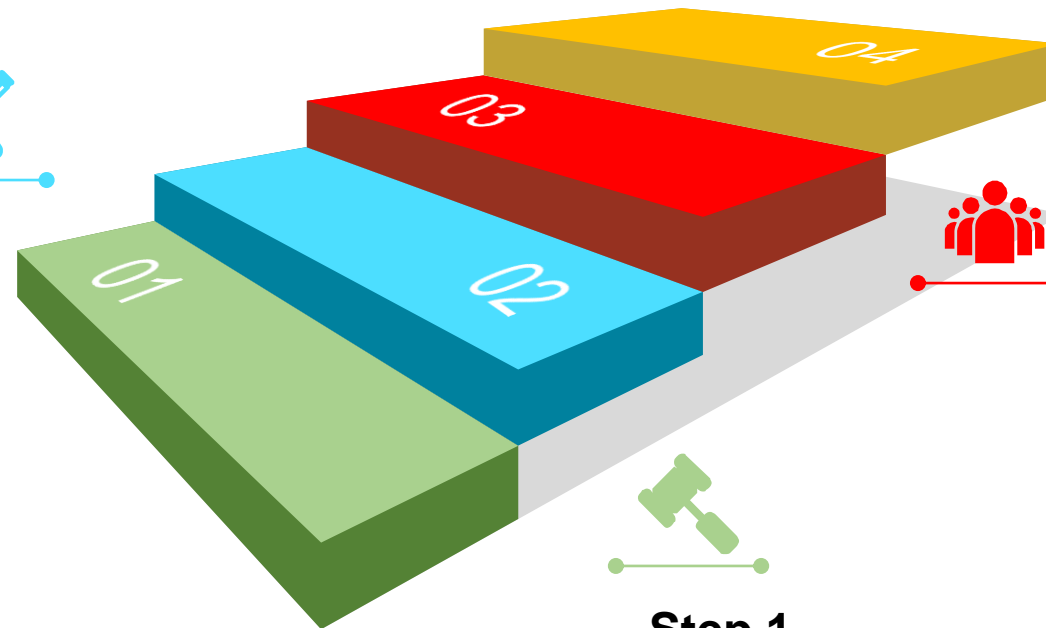
Step 4
What resources will support the OSS?



Step 2
What corporate form will the OSS have?



Step 3
Which services will the OSS provide?

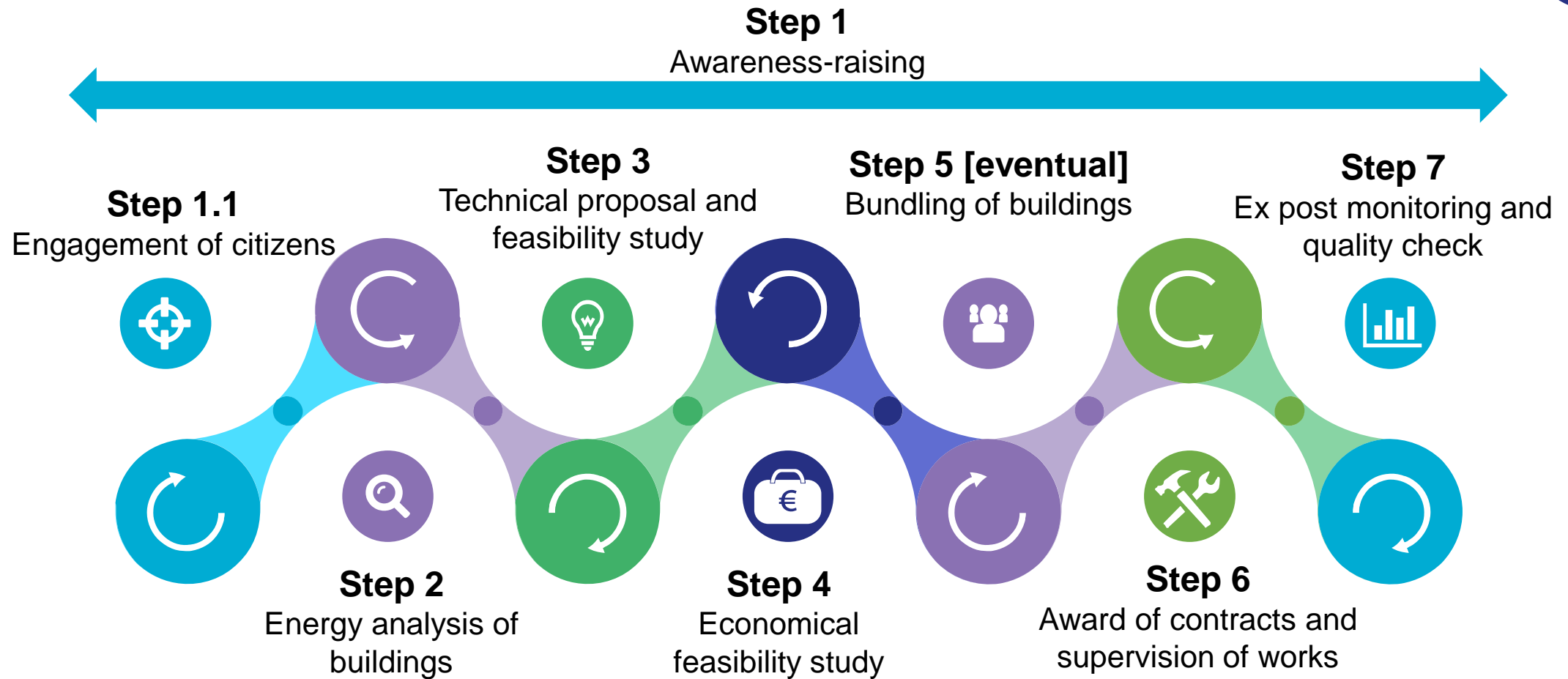


Step 1
Who will be part of it?



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WHICH SERVICES FOR OUR ONE-STOP-SHOP



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We are adopting an indirect implementation approach. Each step is performed by third-parties but within the OSS framework.

ENGAGEMENT OF STAKEHOLDERS



Technical stakeholders

- Existing similar technical services on the market?
- Complementary solutions
 - Aspects to be considered in the OSS definition
- Building associations, university, professional bodies, building managers association



Financial stakeholders

- Existing similar financial products on the market?
- Interest in being part of the OSS to provide ad hoc solutions
- Banks, ESCOs, regional and national institutions providing fiscal support



ENGAGEMENT OF CITIZENS



Each pilot territory set-up an engagement plan.

Dedicated Website

REALIZATION OF YOUR RENOVIATION WORKS

ECONOMIES

GAIN OF CONFORT

ESTIMATI A VAL FÜR VLKEL

55 €/mois

COÛT ANNUEL SUR 20 ANS

CONCLUSION

Municipal newsletter

Chiara il sito di Padova Fit Expanded?

Padova Fit Expanded è un progetto finanziato con un milione e 500 mila euro da Horizon 2020 - il programma dell'UE per la ricerca e l'innovazione.

Il progetto è stato finanziato da Padova come risposta ai cambiamenti proposti da Università Bocconi di Milano, Politecnico di Torino e Università di Padova, oltre al Politecnico di Milano, Consiglio Nazionale delle Ricerche e Regione del Veneto (Bologna), insieme a un sistema per sviluppare un progetto per la riqualificazione energetica delle abitazioni.

L'obiettivo era di Padova direttamente la qualificazione degli edifici, ma essere una "one stop shop" che forniva le migliori informazioni, assistenza tecnica, strumenti consultativi e monitoraggio del rispetto obiettivi attraverso gli interventi decisi. Le attività saranno realizzate attraverso il coinvolgimento di molti attori: cooperative, università di consulenza, associazioni di categoria, uffici di credito.

Padova fit Expanded



Information's evenings or events



Gadgets

Testimonials

To reach the unusual suspects we have to design different ways of participation.

Climate protection begins at (the) home

How compatible is the Finnish soul with citizen participation?

Savi Holm, City of Tampere

In this episode, we speak with Savi Holm from the Finnish city of Tampere. Savi is CEO of the non-profit environmental company BioKumpit (BioKumpant Oy).

PODCAST

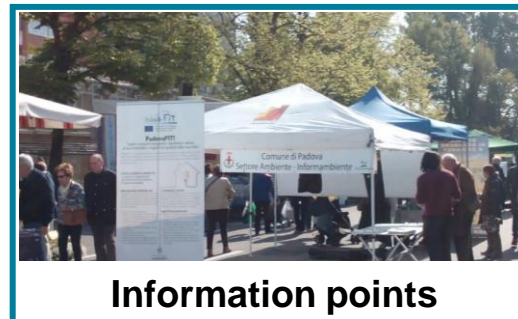
Social media channels

Tipperary Energy Agency

Facebook interface showing profile, posts, and community members.

Flyer/leaflet

Tout savoir sur la rénovation énergétique de votre copropriété



Information points



Works demonstration



Community facilitators



Local media



Poster

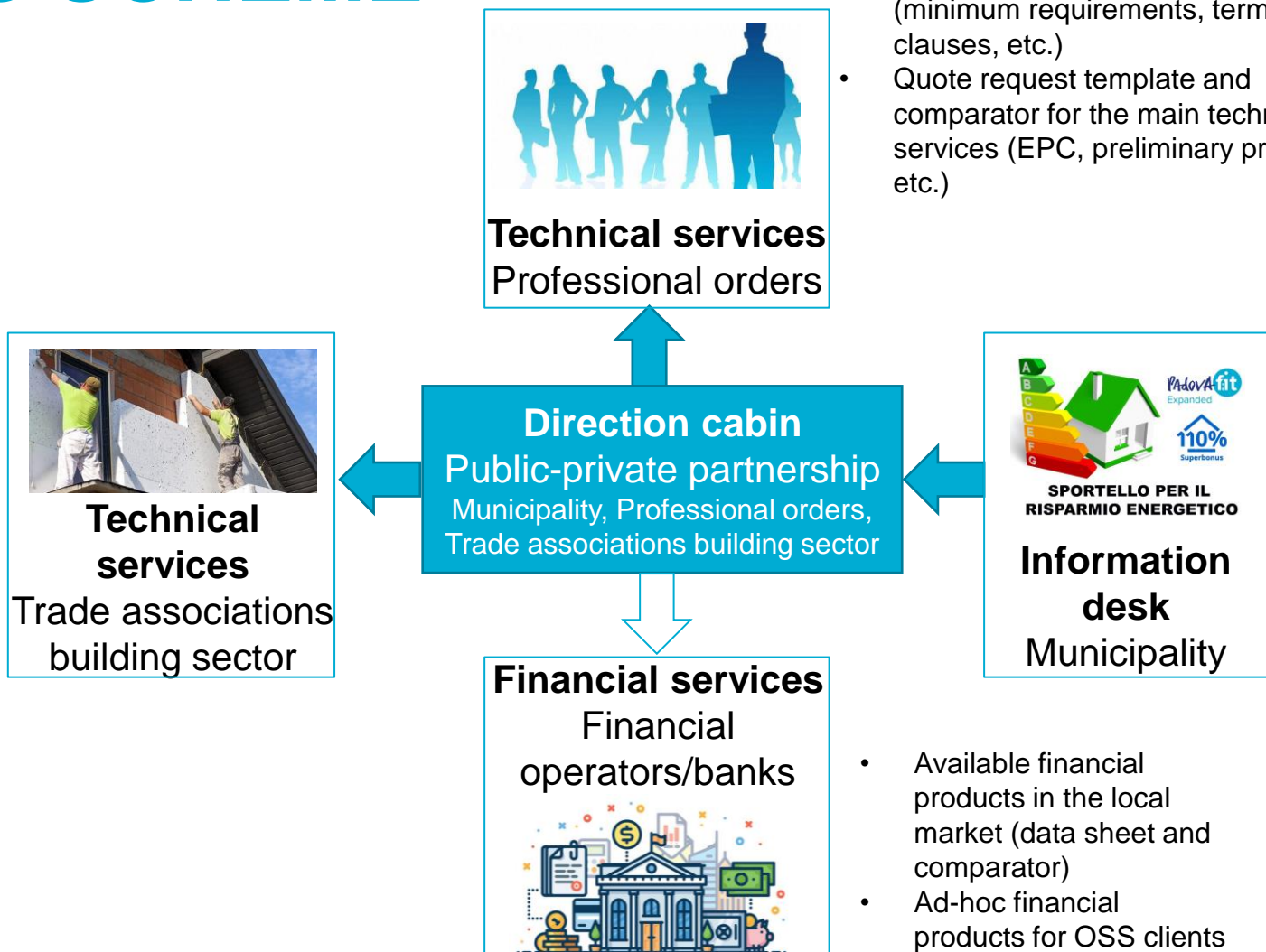


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THE OSS SCHEME



- List of skilled/certified companies, ESCOs, installers
- Standard contract between parties (minimum requirements, terms and clauses, monitoring of results, etc.)
- Quote request template and comparator for the main interventions (building envelope, windows replacement, etc.)



- List of skilled professionals or professional networks
- Standard contract between parties (minimum requirements, terms and clauses, etc.)
- Quote request template and comparator for the main technical services (EPC, preliminary project, etc.)

- Engagement of citizens
- **OSS entry point**
- First information and first data collection
- Clustering of citizens
- Guidance on technical and financial services

- Available financial products in the local market (data sheet and comparator)
- Ad-hoc financial products for OSS clients
- Guidance on the main steps to obtain the credit



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THE OSS KEY POINTS



- **Indirect approach involving trade associations and professional orders, which represent the local operators**
 - Not overlapping the existing refurbishment market (enlarging it, not limiting it)
 - Giving a central role to local operators and to small-medium companies
 - Giving a central role to professionals as third-party guarantor
- **Highly replicable**
 - Based on protocols and standards
 - Based on a smoother relationship between the different stages of the value chain
 - Low cost (main costs are initial, to set-up the scheme and the contracts; in a second phase, the costs are only related to the engagement of citizens)
- **Best performance if applied at provincial level**
 - Economies of scale sharing costs between LAs
 - Enlarging the market for local operators



MAIN CONTACTS



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