



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

**GIOVANNI VICENTINI, Municipality of Padova  
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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><b>Padova FIT</b> 2013-2017 Financed by IEE MLEI. Leverage factor &gt;15</p>	<ul style="list-style-type: none"><li>✓ Only for condominiums</li><li>✓ Focused on the Municipality of Padova</li><li>✓ Project Development Assistance project to prepare the ground for the activation of private investments (ESCo model)</li><li>✓ Based on the EPC contracts and third party financing</li></ul>
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	<ul style="list-style-type: none"><li>✓ Extended to other building typologies</li><li>✓ Replicated in other EU cities (Timisoara in Romania, Smolyan and Vidin in Bulgaria)</li><li>✓ Based on the new One-Stop-Shop model, to overcome the weaknesses of the PadovaFIT project</li></ul>
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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](http://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 CO<sub>2</sub> emissions



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# THE NEW CONCEPT OF ONE-STOP-SHOP



The existing OSS can vary on:



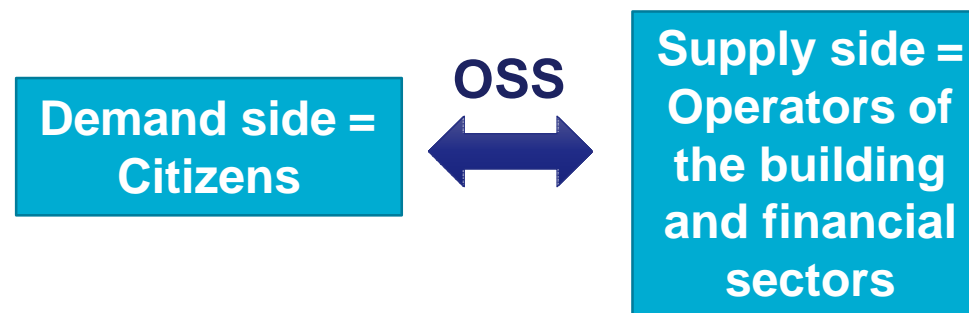
**The legal basis (public-private partnership, total public body, energy agencies, ESCOs, etc.)**



**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



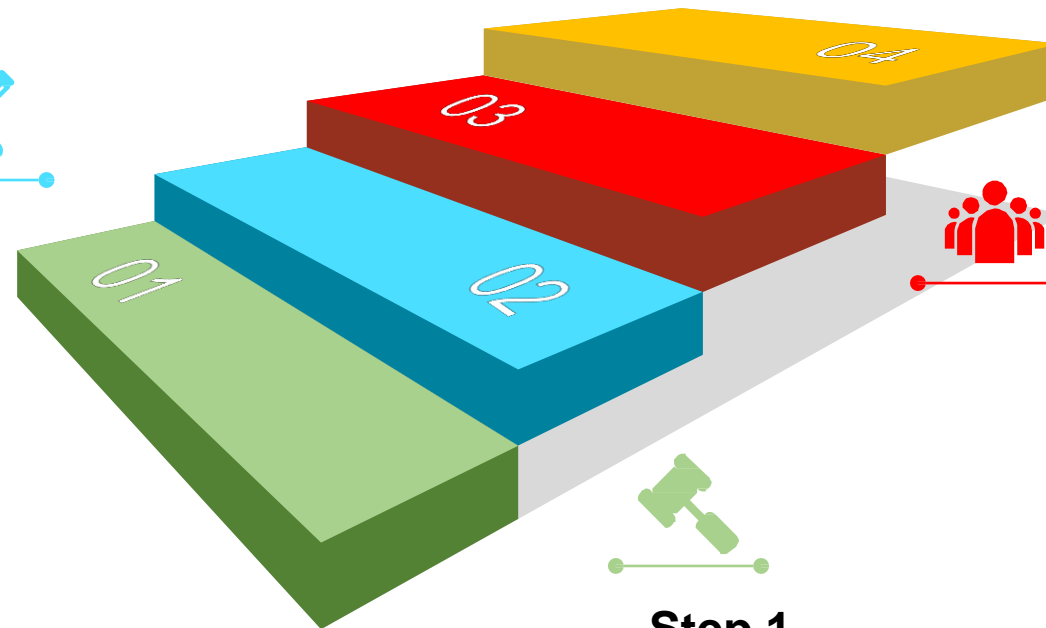
**Step 4**  
What resources will support the OSS?



**Step 2**  
What corporate form will the OSS have?



**Step 3**  
Which services will the OSS provide?

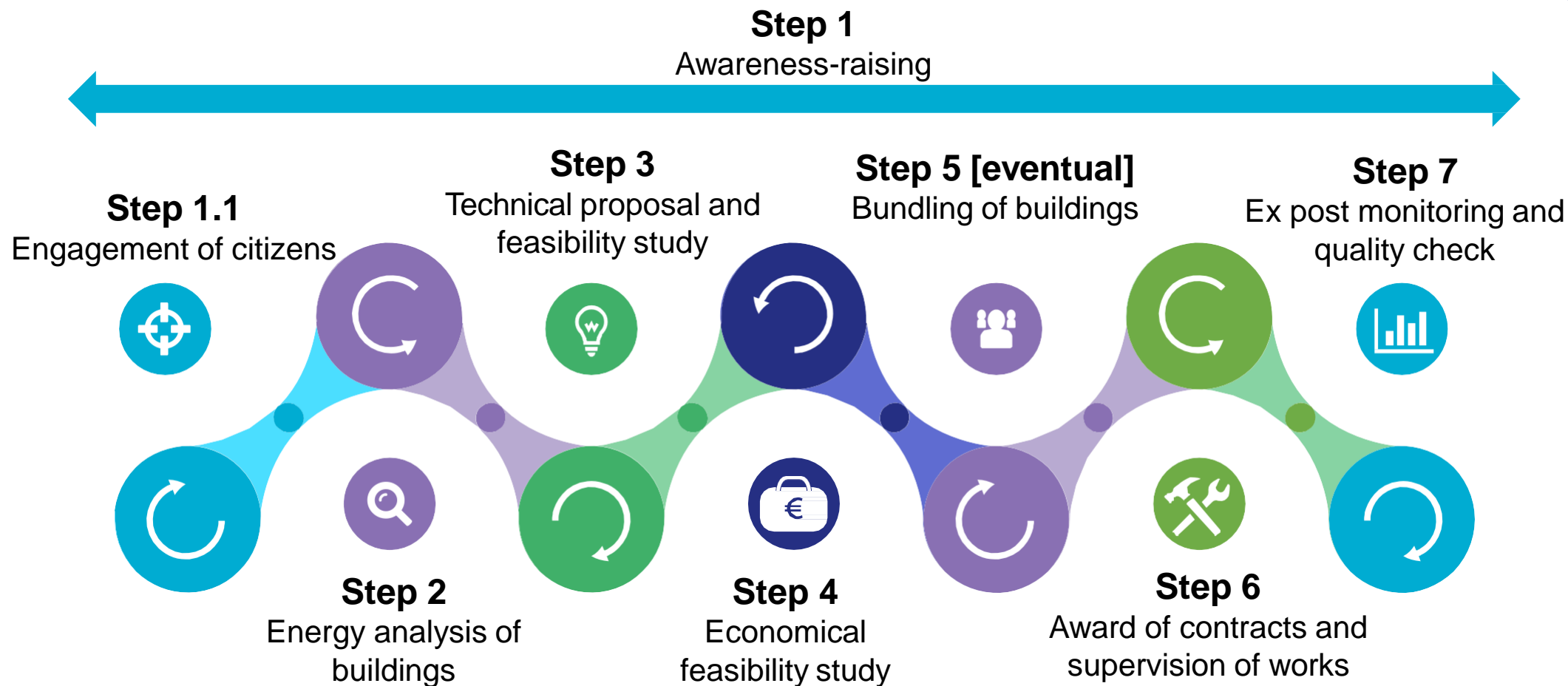


**Step 1**  
Who will be part of it?



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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

ÉVALUATION DE VOS TRAVAUX DE RÉNOVATION

ECONOMIES

GAIN DE CONFORT

ESTIMER LA VAI FUR VIKEL

55 €/mois

COUT ANNUEL SUR 20 ANS

CONCLUSION

### Municipal newsletter

Chères il sites di Padova Pù Expanded!

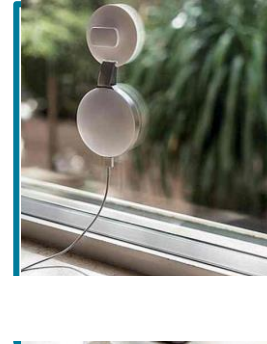
Il progetto coinvolge una ventata di dipartimenti pubblici in una abitazione di spazi e contenuti energetici.

Padova Pù 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 climatici da Università Bicentari di Milano, Pavia per la Padova Sostenibile, Sesto, Sogno, città di Padova e Venezia, Comune Padova e Padova e Padova per Padova (Padova), insieme a un sistema per sviluppare un progetto per la riqualificazione energetica delle abitazioni.

Il sistema con il Padova direttamente la riqualificazione degli edifici, ma anche con "One Stop Shop" che fornisce ai cittadini informazioni, assistenza tecnica, allineamento e monitoraggio del rispetto obiettivi abitazioni di interventi decisi. Le attività saranno realizzate attraverso i confronti con le realtà locali (operatori, associazioni di categoria, associazioni di categoria, utenti di credito).

Padova fit Expanded



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

Alba del Campo, advisor to the City of Cadix

In Cadix, a new local government was elected in 2019. Since then, the city joined the

Climate protection begins at (the) home

How physicist Jessica Grove-Smith and the Passive House Institute are reducing carbon emissions one building and one city at a time

\*Passive House has been around for more than 25 years and the market is changing. I feel that we are at a

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 BioKumpu (BioKumpu Oy).

Tipperary Energy Agency

### Tout savoir sur la rénovation énergétique de votre copropriété



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# SUPERBONUS 110%



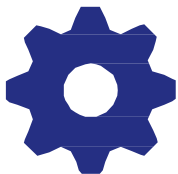
## Beneficiaries

- ✓ Building owners and tenants
- ✓ For each type of residential building
- ✓ Including the social housing



## Fiscal rebates (tax deduction)

- ✓ 110% of the costs occurred for the energy refurbishment of the building
- ✓ Costs reported by the end of 2021
- ✓ 5 annual instalments of the same amount
- ✓ *E.g. Total costs = 80,000€  
Fiscal rebate of 88,000€ (17,600€ per year)*



## Which interventions?

- ✓ Building insulation (driving)
- ✓ Refurbishment of heating systems (driving)
- ✓ Windows replacement (driven)
- ✓ Photovoltaic systems and storages (driven)
- ✓ Solar thermal systems (driven)
- ✓ Solar shading systems (driven)
- ✓ Building automation (driven)



## Requirements.

- A. The fiscal rebate is available only if at least one driving intervention is realized.
- B. The interventions should guarantee a certain increase in the energy performance of the building (at least 2 classes in the energy certificate).
- C. Each intervention has 2 thresholds: 1 concerning the maximum cost, 1 concerning the maximum deductible amount
- D. Each intervention has some technical requirements which should be certified by professionals.



# SUPERBONUS 110%



## Low cost interventions

In alternative to the direct use of the fiscal rebate (tax deduction), those entitled may opt for a tax credit or a discount in the invoice

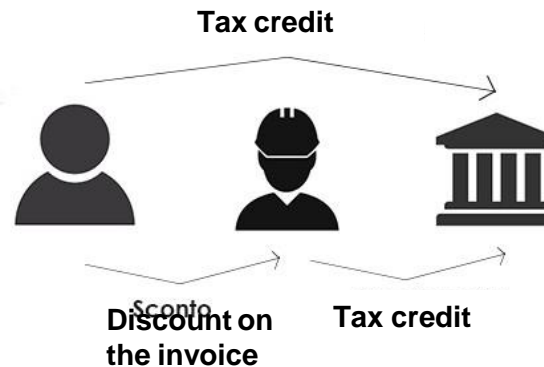
### Contribution in the form of direct discount.

Contribution, in the form of a discount on the invoice, anticipated by the suppliers who carried out the interventions (in agreement with the suppliers).

*E.g. Total costs = 80,000€*

*Fiscal rebate = 88,000€*

*Discount = from 0% to 100% of total costs*



### Transferring the tax credit.

The tax credit can be transferred to other technical or financial operators (e.g. banks) in return for other services (e.g. a bank loan). Part of the tax deduction is used to pay the service.

*E.g. Total costs = 80,000€*

*Fiscal rebate = 88,000€*

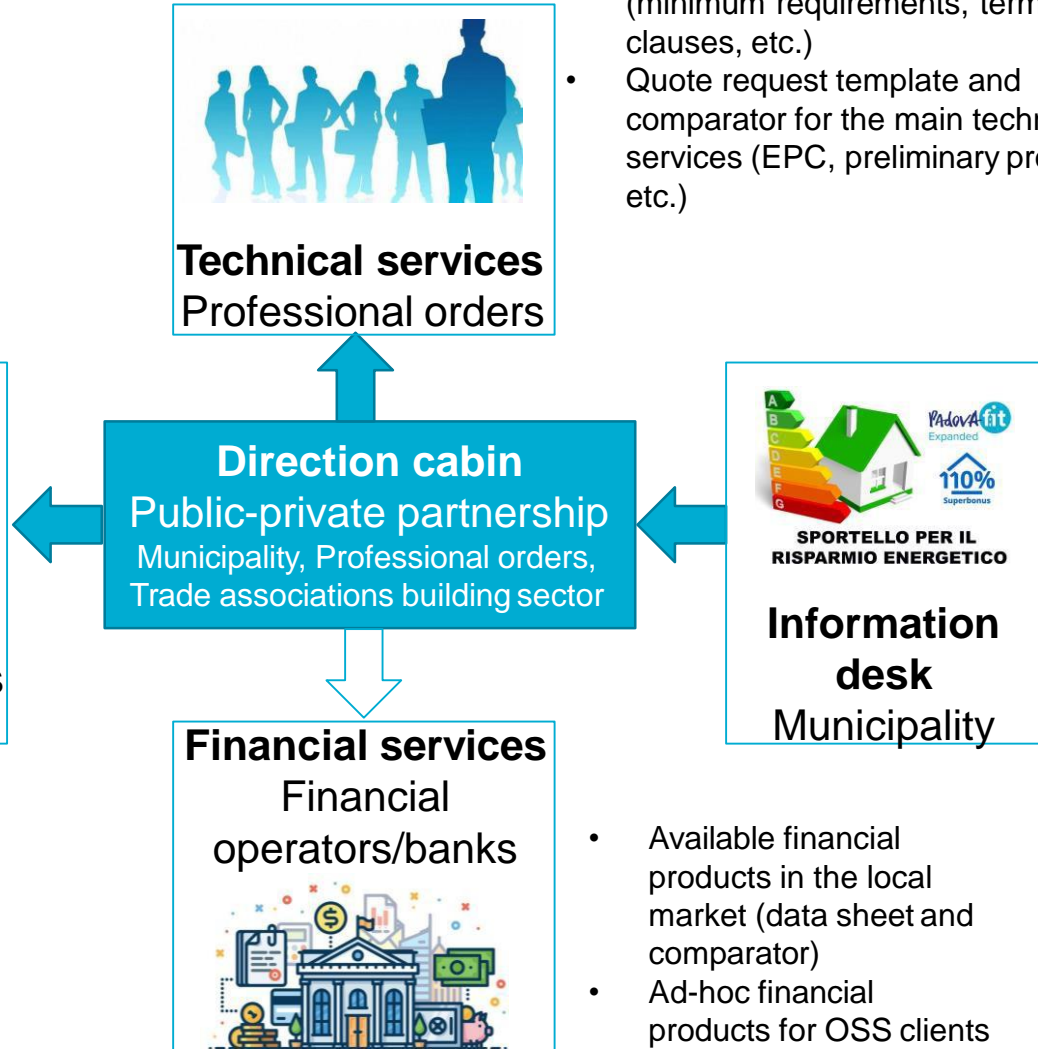
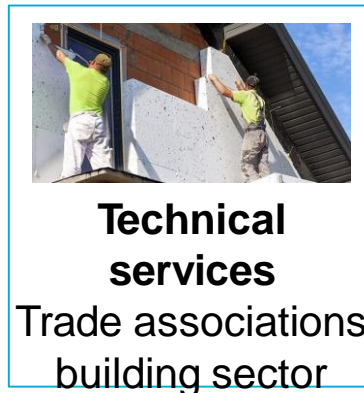
*Bank loan with tax credit = about the 8-9% of costs goes to the bank*



# 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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