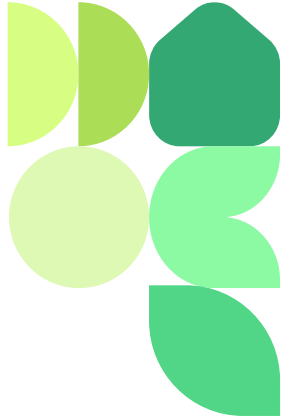




Slovenian OSS
development and Renov-AID LIFE project—new acceleration services for deep
building renovation in Slovenia



Vladimir Gumilar, Construction cluster of Slovenia

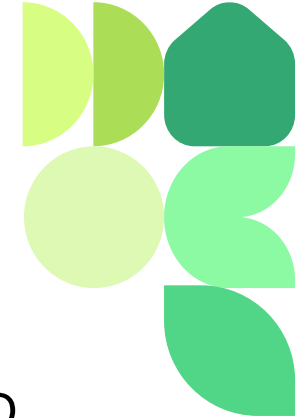


Slovenian OSS development and Renov-AID LIFE project:

- Key challenges in EPBD transposition on a national scale
- State of the play in Slovenia
- Renov-AID challenges and objectives



Overview of the national progress in aligning with EPBD requirements



Zakon o učinkoviti rabi energije (ZURE-1; Energy Efficiency Act) aligning with recast EPBD (2024) & EED (2023):

- Public consultation completed end 2024. Inter-ministerial review scheduled for late January 2025.
- Ambition is to pass ZURE-1 first half 2025, followed by the adoption of secondary regulations. Updates to the **technical regulation PURES** will take additional time.
- Addresses obligations related to Minimum Energy Performance Standards (MEPS), zero-emission buildings, Building Renovation Passports (BRP), **One-stop-shops**, Whole Life Carbon (WLC) linked with Global Warming Potential (GWP), dynamic EPC and Smart Readiness Indicator (SRI).

Specific Slovenian situation



Building ownership:

- Challenges in navigating dispersed ownership models, especially in multi-residential buildings.

Earthquake areas & radon exposure:

- Slovenia's seismic activity and radon exposure (particularly in Karst regions) pose unique renovation challenges as they introduce more complex & expensive renovations compared to solely implementing energy efficiency (and RES) measures.

DIY:



Specific Slovenian opportunities



EnSvet Advisory Network as a strong network across the country to ensure EE

- The EnSvet Advisory network is a Slovenian network of energy advisory offices that provides free, expert advice to citizens on energy efficiency, renewable energy use, and sustainable renovation of buildings, operated by the main Slovenian eco-fund providing stable subsidies on EE (and RES).
- Since 1990



EPBD Article 15 implementation in Energy Efficiency Act (Zakon o učinkoviti rabi energije, ZURE-1;) :

- **Article 10**
- (One-stop shop for energy efficiency and energy efficiency of buildings)
- (1) The **Eco Fund shall carry out the tasks of the "one-stop-shop"** for energy efficiency and energy efficiency of buildings. With this point, the Eco Fund provides comprehensive support in terms of advice and information to all households, with a special emphasis on energy-poor households and the least energy-efficient buildings, as well as to companies and other stakeholders providing energy renovation services.
- (2) Within the framework of the **Ensvet Advisory Network**, the Eco Fund provides support on the ground throughout Slovenia. When planning and setting up the Ensvet Advisory Network in Slovenia, the Eco Fund takes into account that it provides its services at least according to regions or taking into account that each part of the network covers a maximum of **80,000 inhabitants**. In doing so, the Advisory Network also needs to take greater account of areas where the average age of the building stock is above the national average, or in relation to policies to promote energy efficiency measures or the needs of citizens.

BUILDING CENTRE OF SLOVENIA

OSS in 90'



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- EnSvet offices throughout Slovenia



EKO SKLAD
SLOVENSKI OKOLJSKI
JAVNI SKLAD



Building Centre of Slovenia (Gradbeni center Slovenije)

Quality mark in construction (ZKG – since 1996)



OSS in Slovenia since 90'

- Gradbeni center of Slovenia (hosted by the Building and Civil Engineering Institute ZRMK since 1990)
 - Exhibitions of EE/RES solutions, materials
 - Energy, architectural advisory services
 - Promotional events, awareness-raising events
 - Prefabricated wooden houses showcase with actual buildings, with showrooms
- **Energy, architectural advisory services, ongoing on trade fair and similar events, in cooperation with EnSvet**
- ZKG – Znak kakovosti v graditeljstvu (Quality mark in construction) – **since 1996**
- The ZKG as a product/service brand is used **to mark the best of the products and services on offer in the field of construction in Slovenia**. It helps clients and customers to decide where to invest their resources or what to order. The evaluation process also provides the applicants with the opportunity to compare themselves with the competition

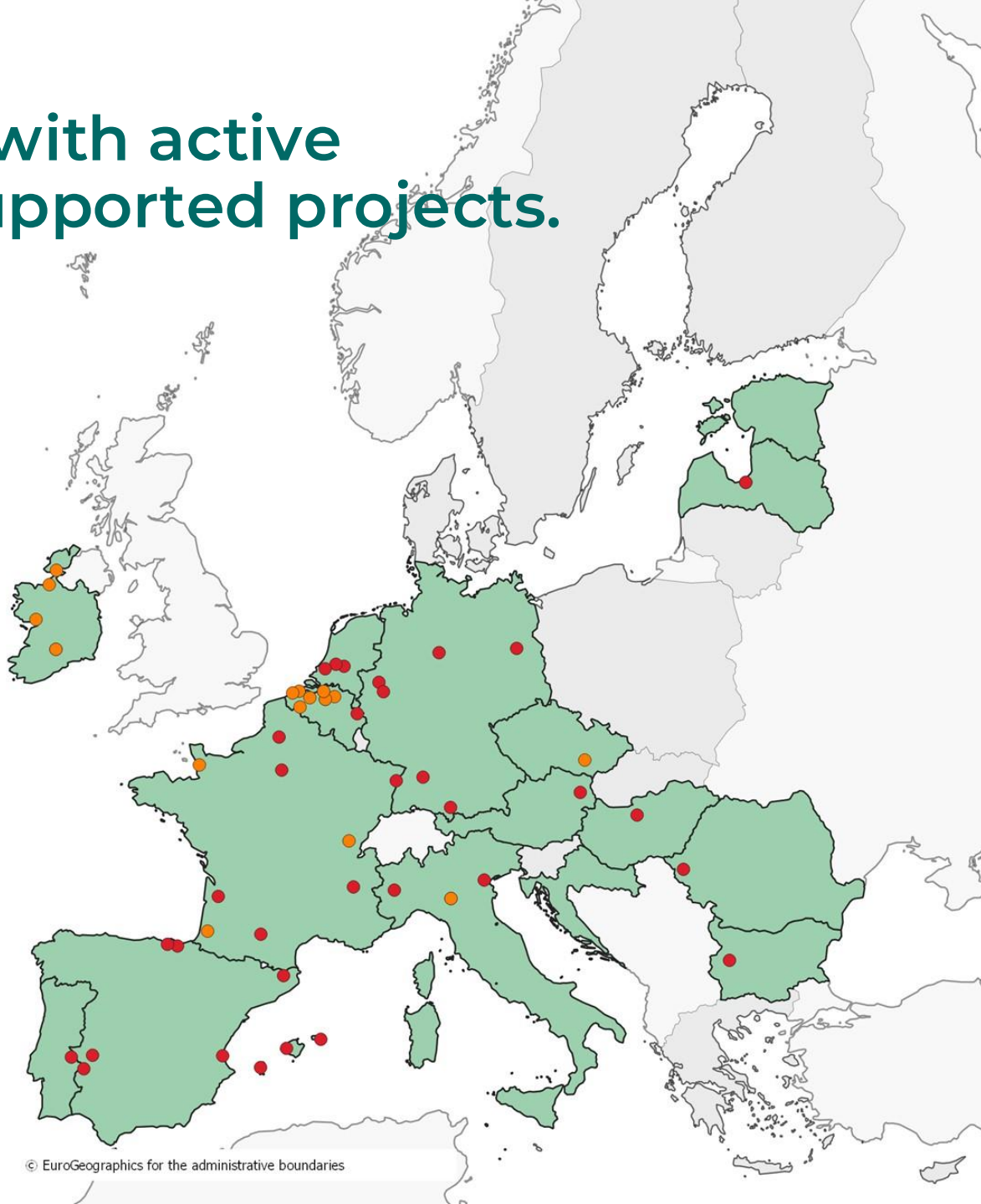


Building Centre of Slovenia (Gradbeni center Slovenije)

OSS in Slovenia since 90'



Green countries with active OSS European supported projects.



© EuroGeographics for the administrative boundaries



Reference: C. Milin,
European Commission
22.2.2024





Renova-AID LIFE project objectives

1. Renov-AID Project: LIFE initiative demonstrating the feasibility and scalability of renovation one-stop-shops (OSS) in Slovenia.
2. A development of a centralized platform for energy efficiency and renovation services, enabling streamlined processes and better stakeholder collaboration.
3. Insights into how Renov-AID aligns with EPBD Article 15 requirements and serves as a model for broader national adoption



The relevant stakeholders in Slovenia came together to address the complex situation of home renovations in 2023 in LIFE Renov-AID project



- **Institute for Innovation and Development of University of Ljubljana** - Coordinator and facilitator between different stakeholder groups for the establishment of a 'one-stop-shop' concept
- **EkoSklad** - Slovenia's main environmental public fund
- **Construction Institute ZRMK** - Covers regulatory frameworks, technical specifications, standardised packages for comprehensive renovation, qualification of renovation contractors, training
- **Construction Cluster of Slovenia** - Engaging and communicating with supply-side stakeholders and developing a one-stop business model
- **Municipality of Ljubljana** - Engaging citizens and implementing the one-stop shop concept in Ljubljana-
- **Municipality of Kranj** - Engaging citizens and implementing the one-stop shop concept in Kranj
- **Municipality of Velenje** - Citizen engagement and implementation of the one-stop-shop concept in Velenje
- **Prosperia** - Exploitation of the concept in other municipalities in Slovenia through the organisation of workshops, activation of steering committees.



Mestna občina
Ljubljana



MESTNA OBČINA KRANJ





Mestna občina
Ljubljana



MESTNA OBČINA KRANJ

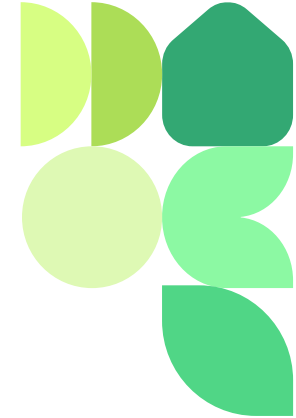
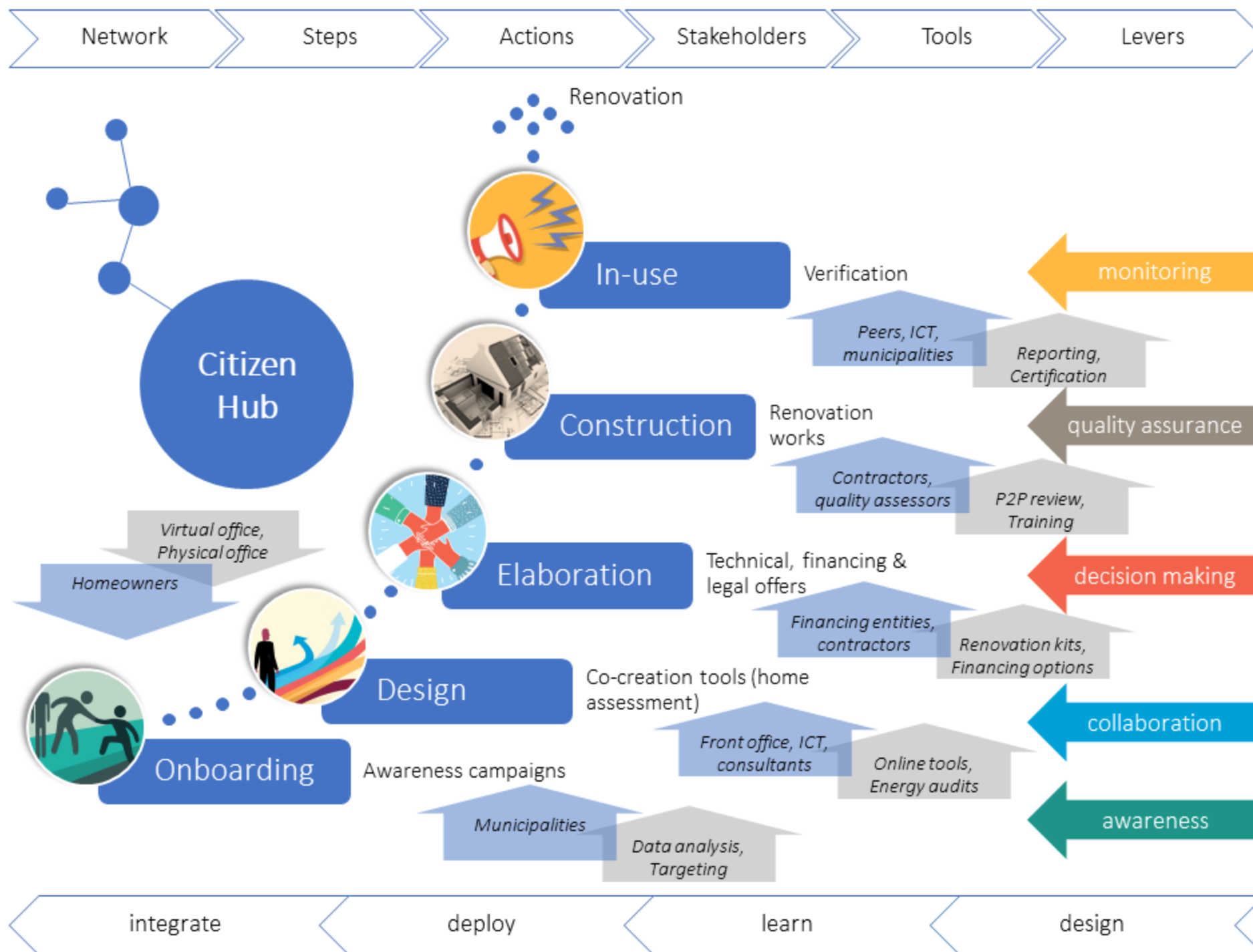


EKO SKLAD

SLOVENSKI OKOLJSKI
JAVNI SKLAD







The challenges of renovation in Slovenia & Renov-AID's proposed solutions



Low Number of Energy Renovations of (Private) Residential Buildings

- Low awareness among homeowners, complex stressful project for homeowners.
- + Implementation of the OSS concept, awareness campaigns, and showcasing energy renovations as local best-practice examples.

The dispersion of renovation providers and the problem of verified quality

- Questionable technical expertise of service providers and a shortage of workforce.
- + Strategic partnerships, integrated services, and capacity building..

01

02

03

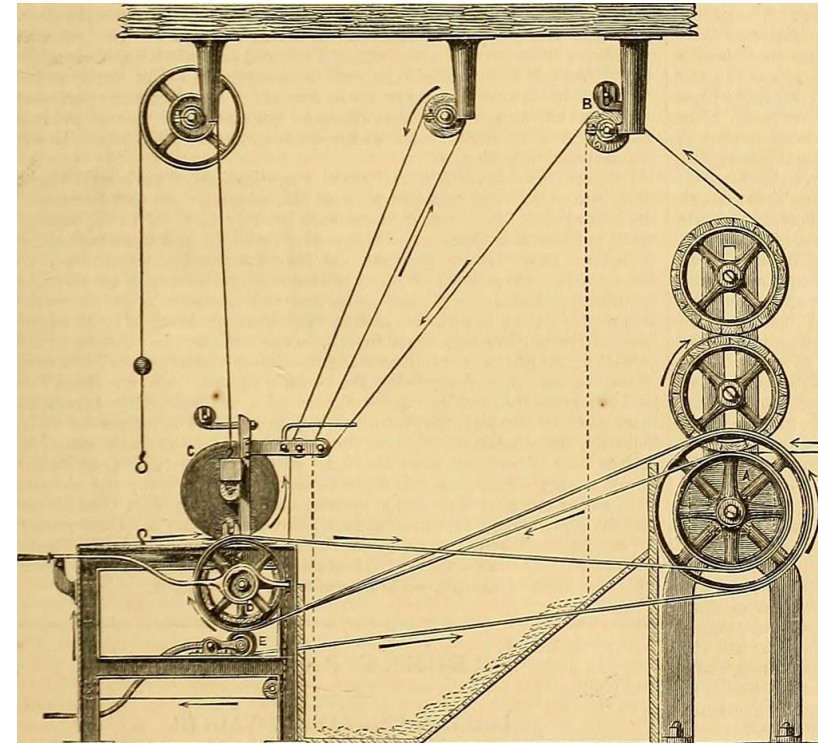
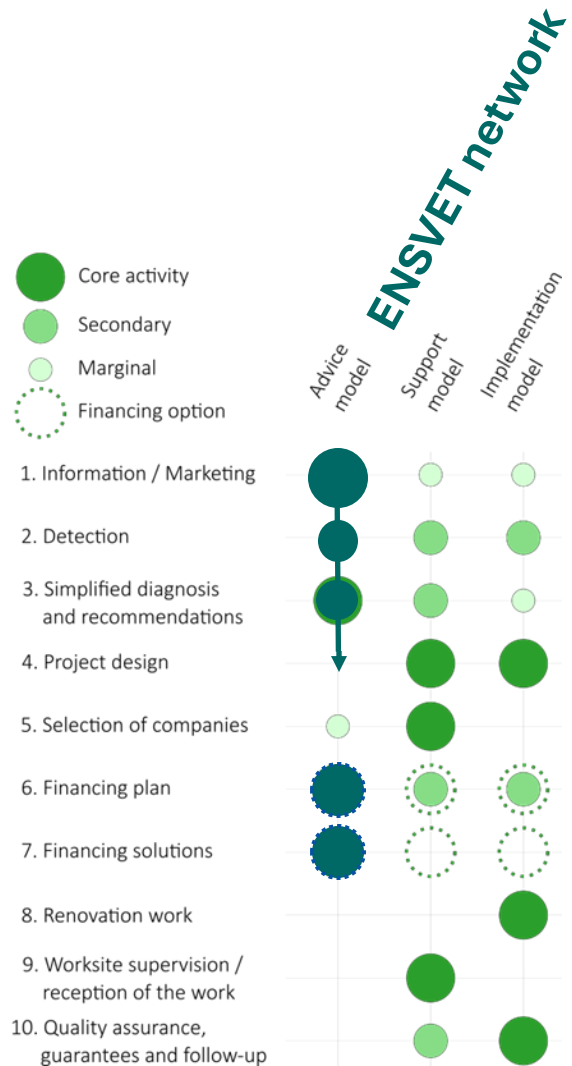
04

Visibility and accessibility of EcoFund services, Ensvet offices

- Fragmented information on financing options and lack of knowledge about them.
- + User-friendly platform and various services integration, awareness campaigns, training.

Poor understanding of the added value of deep renovation and regulatory barriers

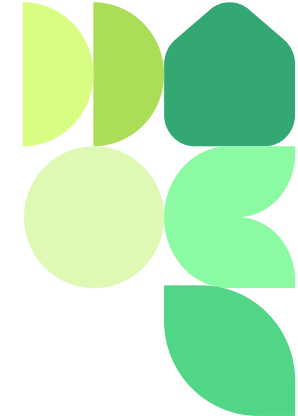
- Challenges in accessing knowledge and resources for renovation due to complex administrative processes.
- + Increased homeowner involvement, examples of best practices, and integrated packages.



Source: Internet Archive Book Images on Foter.com

Figure: Main models of integrated home renovation services by Milin, C., & Bullier, A. (2021). Towards large-scale roll out of 'integrated home renovation services' in Europe.

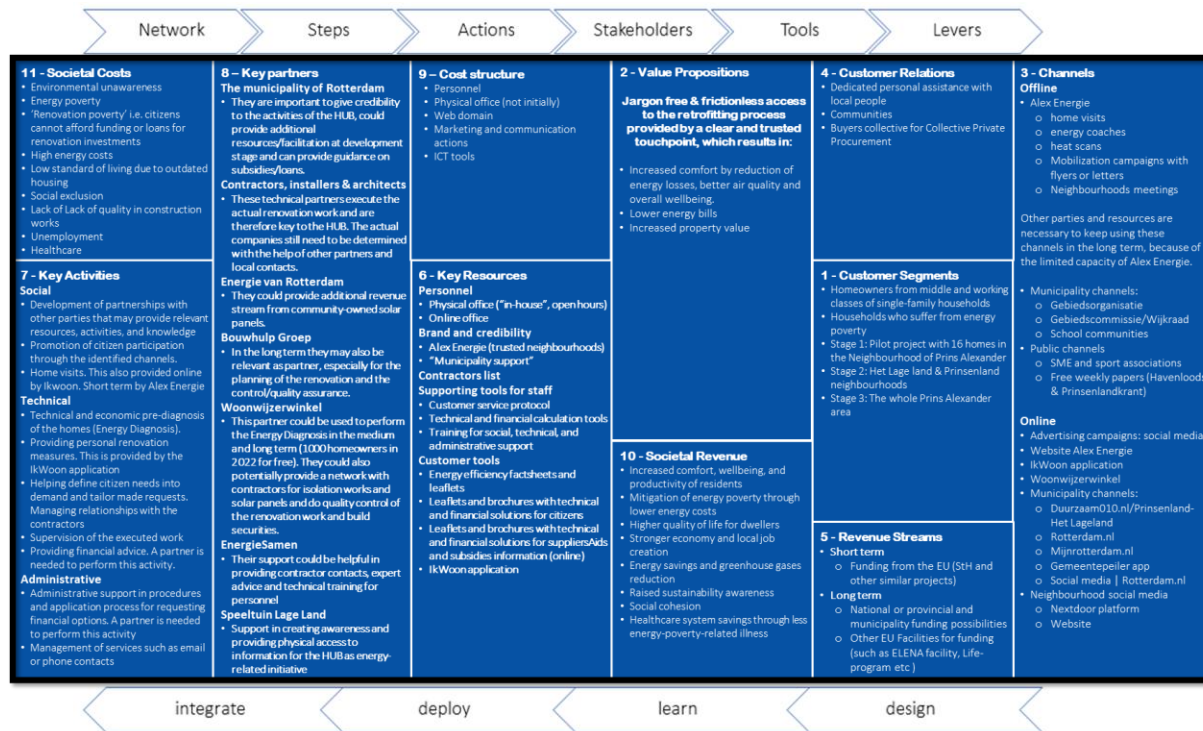
Ljubljana, Office of the EnSvet network, supported by Eko Sklad and Borzen office for OVE



1. Development of a comprehensive OSS model and strategy for implementation in Slovenia to accelerate and facilitate the renovation process of homes.

Results:

- Basic nationwide OSS concept:
 - Situation analysis
 - Conceptual business model
 - Implementation strategy
- Breakdown of the customer journey within the Slovenian framework, including detailed analyses for three pilot cities
- Analysis of various financing instruments
- New or update



2. Increased visibility of the EnSvet network through the establishment of an easily accessible national digital platform



Results:

1. User-friendly "One-Stop-Shop" platform – enhancement of the EkoSklad platform
2. Awareness campaigns



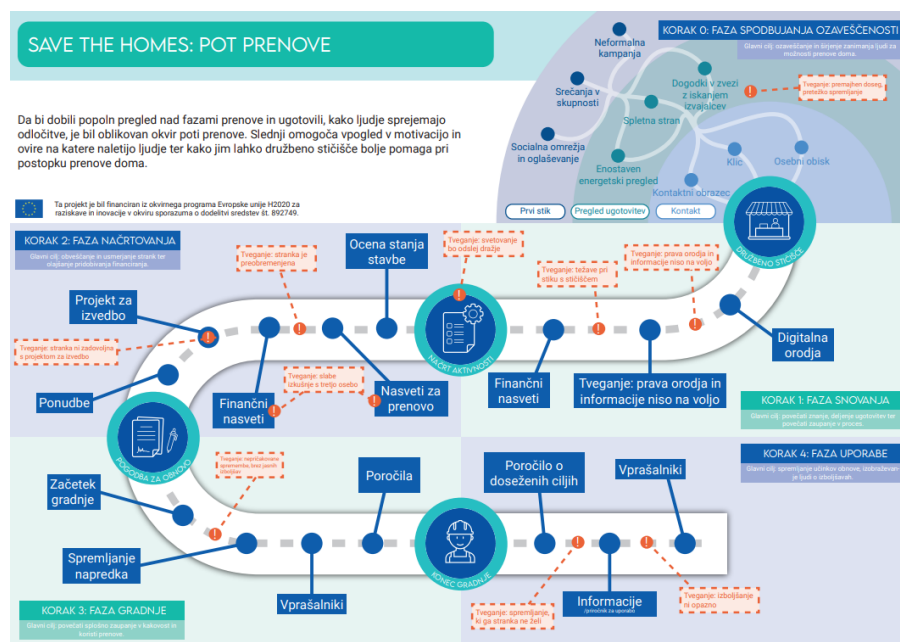
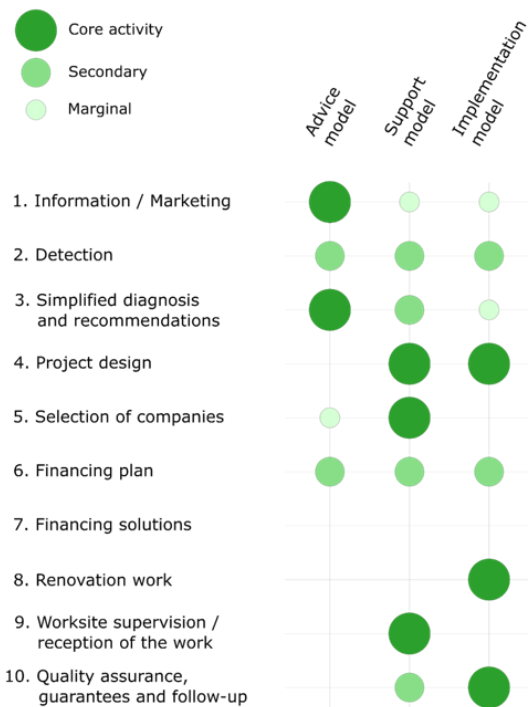
3. Effective multidisciplinary collaboration established through training and capacity building for OSS concept implementation:



- Training and upskilling energy advisors in the EnSvet network
- Integration of training programs with renovation service providers and producers
- Capacity building for existing municipal staff acting as intermediaries between service demand and supply
- New IHRS (Integrated Home Renovation Services) packages aimed at standardized based concepts

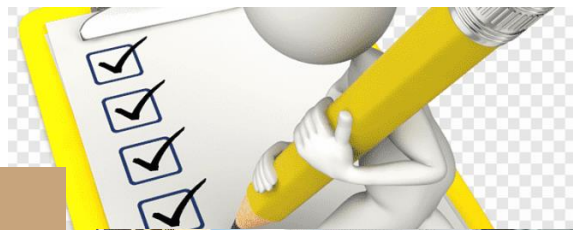


4. Implementation of Integrated Home Renovation Services (IHRS) in Ljubljana, Kranj, and Velenje



1. Successfully planned and implemented renovation pathways in three pilot cities (accounting for local specifics)
2. Development of a comprehensive renovation offering for target groups and building typologies
3. Enhanced interaction with homeowners through developed renovation pathways in three cities, achieved via marketing and promotional campaigns

5. Expansion of the OSS concept and sharing of experiences across Slovenia and the EU article 15 implementation:



1. National OSS survey completed by all Slovenian urban municipalities
2. Workshops and dialogues at Slovenian fairs (e.g., Dom Fair, MEGRA)
3. OSS utilization workshops and capacity building for other interested municipalities
4. EU wide dissemination during the end year

OSS ambitions

(Advice model) in Velenje, Kranj

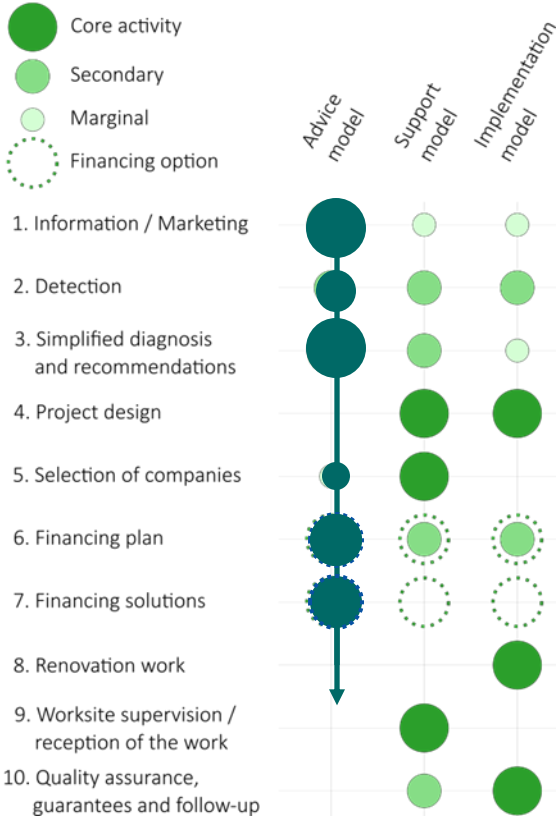
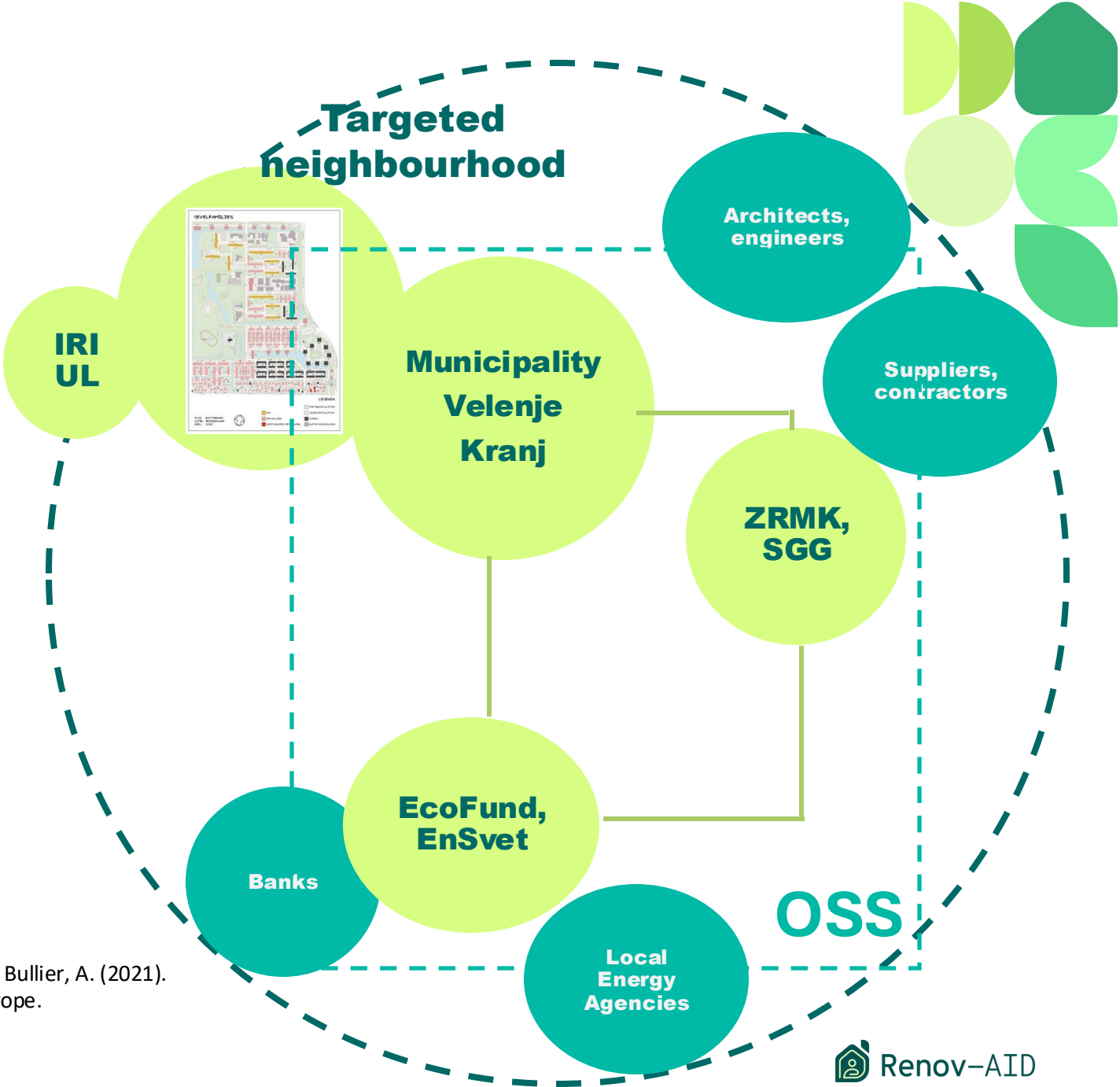


Figure: Main models of integrated home renovation services by Milin, C., & Bullier, A. (2021). Towards large-scale roll out of ‘integrated home renovation services’ in Europe.



OSS ambitions Ljubljana

(Advice -> Support model)

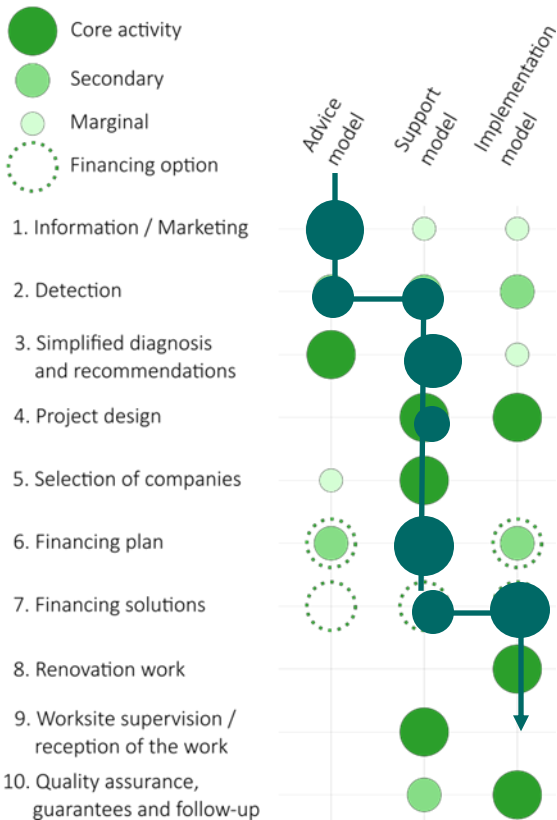
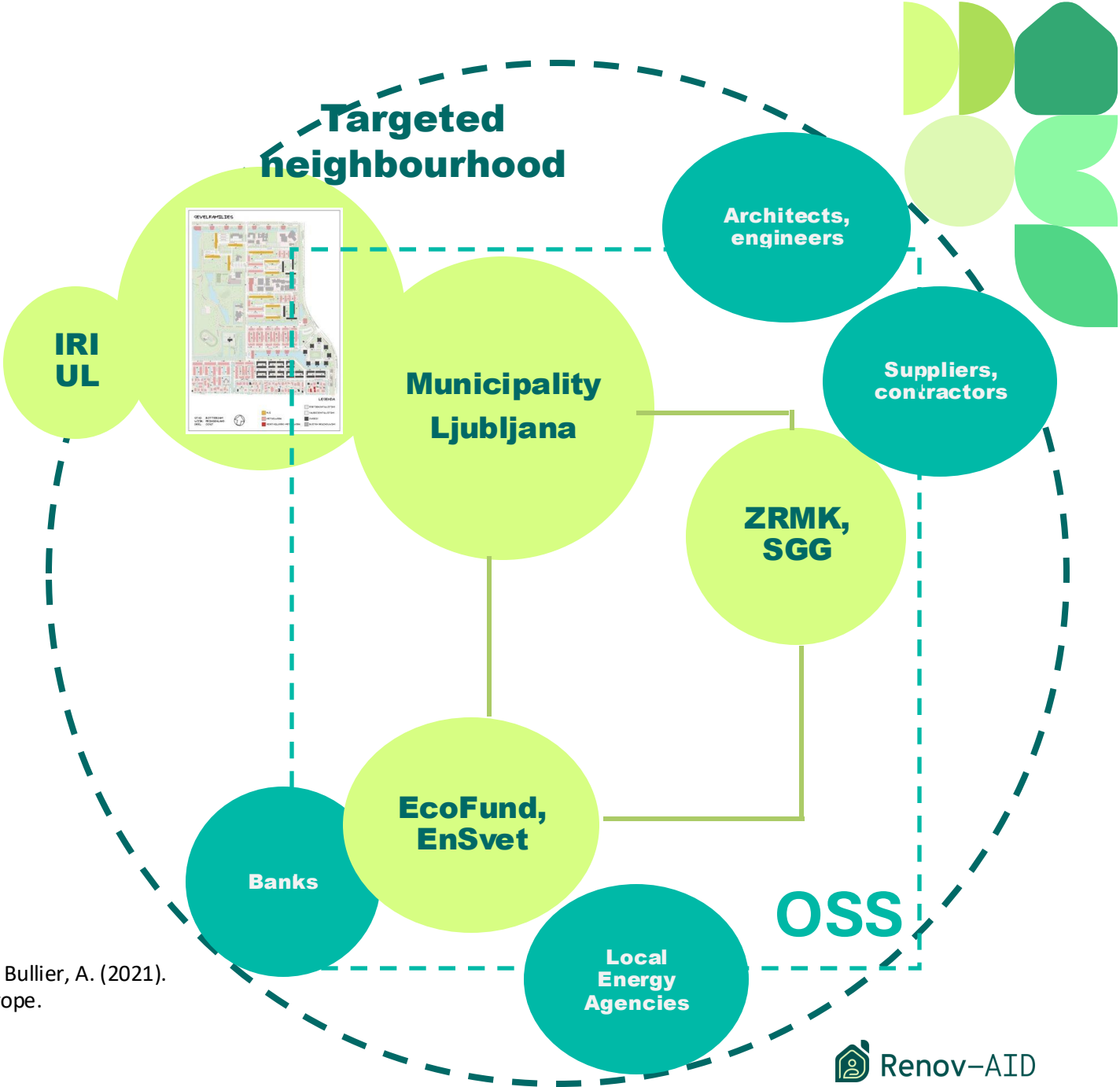
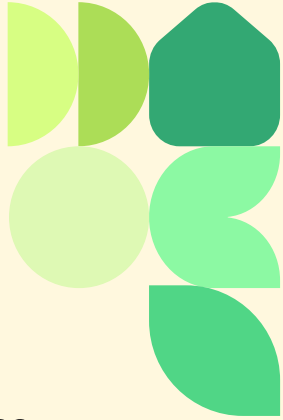


Figure: Main models of integrated home renovation services by Milin, C., & Bullier, A. (2021). Towards large-scale roll out of ‘integrated home renovation services’ in Europe.



Conclusions



1. There is no universal concept of OSS
2. OSS brings value to various stakeholders in the renovation ecosystem
3. The development of OSS must take into account many factors, from regulatory, financial, social, technical, implementation, **national and local**
4. OSS is not limited to public financing of services
5. The OSS is constantly evolving to ensure a sustainable and more comprehensive set of services and activities
6. It is necessary to provide public sources of financing for the operation of OSSs, especially to overcome obstacles where there is no interest from the private sector (energy poverty, social housing, mixed ownership, conflict of interests)



Thank you!

