

### Who is behind the project?

### **Coordinator**<br/>Energy Cities

**Expertise**Energies Demain (FR)

- ✓ Brussels Environment (BE)
- ✓ Parity Projects (UK) > London, Sussex, Oxfordshire
- ✓ Riga Energy Agency (LV)
- ✓ KAW (NL) > Enschede, Zoetermeer, Den Bosch, and Hoogeveen
- ✓ Frederikshavn Municipality (DK)

- ✓ Heerlen Municipality (NL)
- ✓ Linnaeus University (SE) > Municipality of Växjö
- ✓ Litoměřice Municipality (CZ)
- ✓ Mantova Municipality (IT)
- ✓ AGENEX (ES)
- ✓ Aradippou Municipality (CY)









# **OUR VISION**Deep energy retrofits









### **OUR TARGET**

Homeowners of single family houses and condominiums

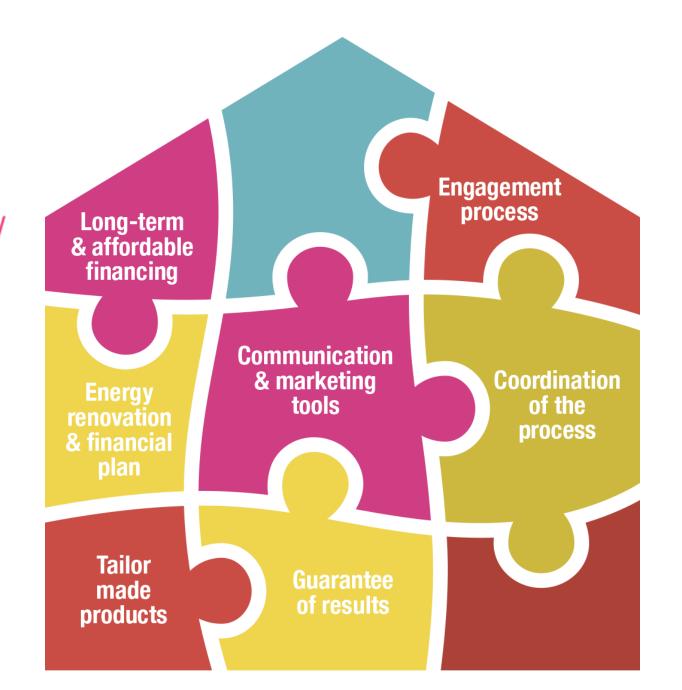






### **OUR SOLUTION**

Attractive energy efficiency services package offered in a one-stop-shop







### Alternative business models

#### **Local authorities = developers**

- ✓ Public company
- ✓ Public-private company
- ✓ Contract / partnership with a private company or a cooperative ONE STOP-SHOP

#### **Local authorities = coordinators**

✓ Bringing together actors who can provide different services (pieces of puzzle), ideally 'under the same roof'







### Financing

### Financing for one stop shop:

- ✓ Public subsidies (only for part of the action)
- ✓ EE Certificates
- ✓ Fees paid by the homeowners for the service
- ✓ Fees paid by the craftsmen



### **Financing for homeowners:**

- ✓ Bank loans
- ✓ Other loans (from public authorities, private finance, OSS)
- ✓ Subsidies
- ✓ Tax incentives
- ✓ Guarantees
- ✓ EE certificates
- ✓ Up front financing







### Which financing scheme for which homeowner?

	Very low income households	Low - medium income households	High income households
Commercial loans	No access	No access Unattractive interest rates	Attractive interest rates
Subsidies	Eligible (problem = upfront financing)	Not eligible	Not eligible
Solution	'Subsidy Advance Payment Fund', soft loans, grants, tax incentives, EE certificates, guarantees	Soft loans, grants, tax incentives, EE certificates, guarantees	Technical assistance





### Which financing schemes do we rely on?

Project partner	Financing scheme	
Brussels Capital Region (Belgium)	Regional subsidies and soft loan scheme, national funds, commercial loans	
Parity Projects (UK)	National funds, commercial loans	
Riga Energy Agency (Latvia)	Local subsidies	
KAW – Reimarkt (The Netherlands)	National funds, commercial loans	
Frederikshavn (Denmark)	Negotiated commercial soft loans, national funds	
Heerlen (The Netherlands)	National funds, commercial loans	
Litomerice (Czechia)	National funds, commercial loans	
Mantova (Italy)	National funds, commercial loans	
Extremadura energy agency (Spain)	Regional guarantee fund, national funds, commercial loans	
Linnaeus University (city of Växjö, Sweden)	National funds, commercial loans	
Aradippou (Cyprus)	Local subsidy and soft loan scheme, national funds, commercial loans	



# Examples of financing schemes set up by local authorities





### **Aradippou municipality (Cyprus)**





- Συστήματα ακρισμού και δροσισμού

 Ameliotoriospes ouerthyens Air Condition Αλλογή ή ανεβάθμιση boller πειρελείου σε Θερμομονώσεις Οροφής, Τοίχων και Δαπέδ Ενεργαιακό αποδοπεύτερος Φωτισμός Ενεργειεκό αποδοτεύειρες συσκευές (n.z. nětvytkyto, grzysto, staymotkyto)

Αλλογί ή αναβάθμιση ηλιακών θερμοσίουνω

#### ΑΝΑΚΟΙΝΩΣΗ

ΔΗΜΙΟΥΡΓΙΑ ΜΗΤΡΩΟΥ ΕΝΕΡΓΕΙΑΚΩΝ ΑΝΑΚΑΙΝΙΣΕΩΝ ΚΑΤΟΙΚΙΩΝ ΑΡΑΔΙΠΠΟΥ ΚΑΙ ΤΕΧΝΙΚΗ ΒΟΗΘΕΙΑ ΠΡΟΣ ΤΟΥΣ ΠΟΛΙΤΕΣ ΜΕ ΤΗ ΜΟΡΦΗ ΔΗΜΟΤΙΚΉΣ ΧΟΡΗΓΙΑΣ ΜΕΧΡΙ 7%

Ο Δήμος Αραδίππου στα πλαίστα του Ευρωπαϊκού Προγράμματος INNOVATE, One Stop Shop δημιουργεί Μπιρώο Ενεργετακών Αντικαινίσεων και Φωτοβοθταϊκών κατοικών, στο οποίο μελθοντικά έργα μπορούν να καταγραφούν και να λάβουν δημοτική χορηγία μέχρι 7% επί της συνολικής αξίας του κάθε έργου με επιπλέον 1% σε περίπωση λήνως δενειοδότησης/ χρήσης πιστωτικής κάρτας (δημοτική χορηγία μείωσης τόκου για ενεργειακές ανακατνίσεις)

Περισσότερες ππηροφορίες μπορείτε να πάβετε από Λειτουργό του Δημαρχείου στα τηθέφωνα: 24 811 091, 24 811 093



από το σχέδιο Παροχής Χαρηνιών του Υπουργκίου

Ενέργειας, Εμπορίου και Βιομπασγία

#### Innovative municipal grant scheme

- ✓ 1<sup>st</sup> part: rewards citizens for energy renovations based on energy savings achieved (EUR per kWh saved) and clean energy produced by PV (EUR per kWp installed capacity)
- ✓ 2<sup>nd</sup> part: through loan interest subsidies encourages loanundertaking in order to maximize EE investments. The objective is to offer 0% interest loan provided by partner banks.
- ✓ Promotes private contractors/professionals contributing to the grant (public-private funds matching): 1 to 1 EUR matching of private with public sources.
- ✓ Local companies have expressed willingness to contribute to the municipal scheme through 4% discount vouchers (in addition to the grant).



### Extremadura region (Spain)



#### Regional guarantee fund

- ✓ The Fund will improve the conditions offered by the commercial banks currently: lower interest rate and long term financing (over 12-15 years)
- ✓ Only for (energy) housing renovations
- ✓ Under development (first Regional Law has been approved. Currently, it is waiting for the approval by the Spanish National Government)



### Riga (Latvia)

#### **Local co-financing scheme:**

Based on municipal regulation Riga Energy Agency provides support for:

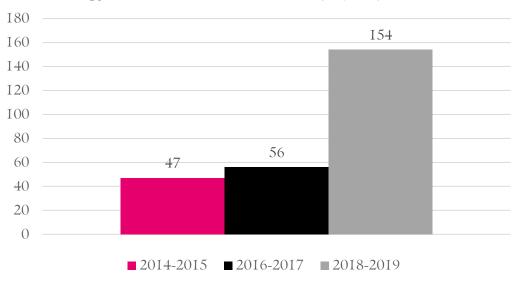
- 50% co-financing for energy retrofitting (construction works)
- 80% for energy audits
- OSS consultation, including technical proposal preparation

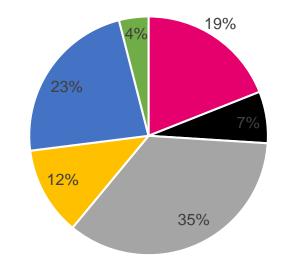
Municipality provides 90% immobility tax discount for establishing (energy) cooperative during 2 years period

#### **Results for 2018-2019:**

- EUR 1 185 848 overall provided municipal cofinancing
- 154 total number of approved applications
- 385 000 m2 impacted, 10 000+ inhabitants engaged

#### Energy efficient renovation works (objects)





- Roof replacement and attic insulation
- Foundation reinforcement and plinth waterproofing
- Internal networks / water supply, heating, electricity
- End wall insulation
- Replacement of windows and doors in stairwells
- Renovation of lifts and balconies



### **Brussels Capital Region (Belgium)**

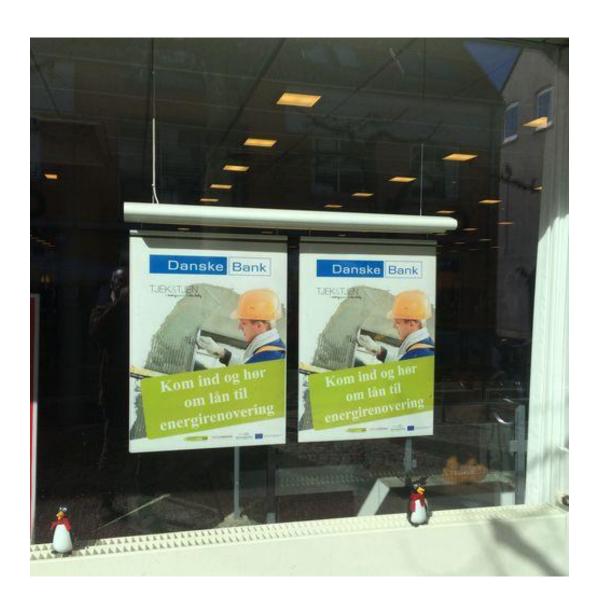


#### **Soft loans:**

- ✓ Partnership with a financial cooperative CREDAL and a cooperative housing company 'The Housing Fund' > offering soft loans
- ✓ Technical assistance for homeowners via "Homegrade" (initially Energy House), and "Sustainable building facilitator" for large condominiums



### Frederikshavn municipality (Denmark)



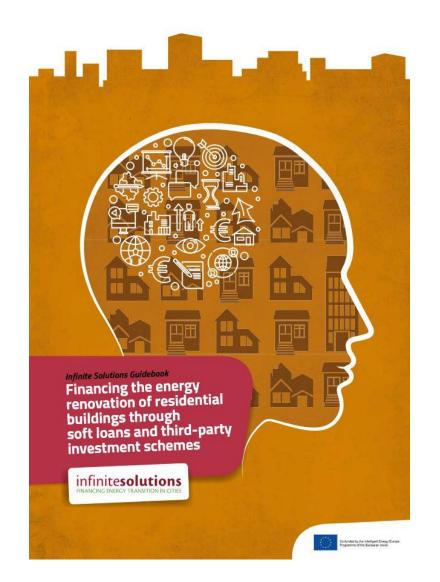
#### **Soft loans:**



- ✓ Partnership with 8 local banks
- ✓ **Info truck** coming to the neigborhoods
- √ 325 energy retrofits done



### Resources







#### INNOVATE

Inventory of best practices for setting up an integrated energy efficiency service package including access to long-term financing to homeowners

Extensive analysis of the existing energy efficiency services operators and long-term financing schemes



Vesta Conseil et Finance February 2018









**Final event** 

8

Capacity
Building
Workshop

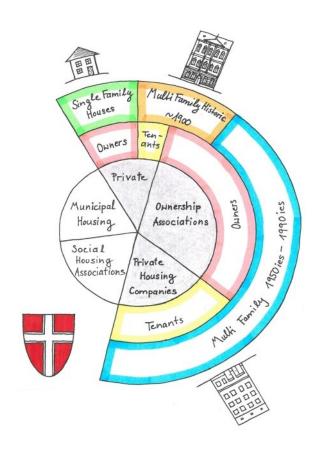
22 April 2020



### Thank you

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### RenoBooster

### The Smart Renovation Hub Vienna

Covenant of Mayors' Investment

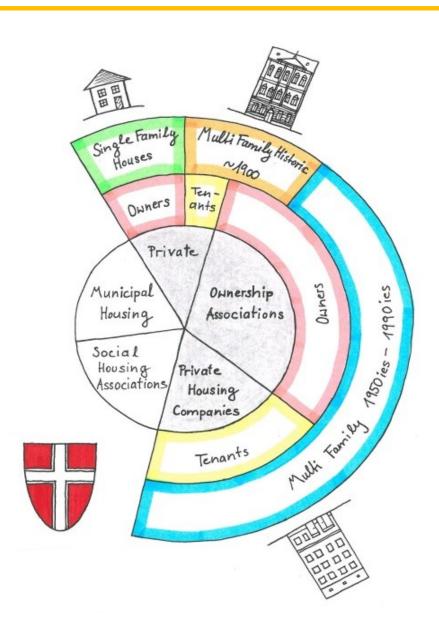
Forum – Energy Efficiency Finance Market Place in Brussels

Stephan Hartmann stephan.hartmann@wien.gv.at



### Understanding our target groups





- "I don't know what to do"
- "I don't want to deal with this mess
- "This will ruin me"

### Understanding our target groups









	1-2 family houses	Gründerzeit	Multi-family
# of buildings	89,800	23,700 total 14,400 Zinshäuser 9,300 Condominiums	35,600
# of dwellings	96,000	312,000	576,000
# of buildings built before 1990	66,000		28,900
Average costs for deep renovation	600 €/m² (+ 90 €/m²)	450 €/m² (+ 75 €/m²)	350 €/m² (+ 70 €/m²)

Residential buildings in Vienna (Source: Statistik Austria, Otto Immobilien, own calculation; + xxx €/m² refers to additional costs for renewal of the heating system)



## We do care in Vienna how people are living, standards of housing, and how environment and climate is effected





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1970ies – 1990ies – 2020 next?

### Understanding the market





- New-build vs. refurbishment
- Economy of scale, from private to commercial
- Owner/user issues
- Block & neighbourhood focus

#### **Current Issues**







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- Urban Heat
- Ageing society
- Management optimization
- Energy supply systems
- Resilience and life-cycle costs
- Circular economy
- ... mastering complexity

### Framwork and Aim of the Project



#### Climate Goals - decarbonisation of the building sector

Setting-up One-Stop-Shop

1,9 Mio. Euro Horizon 2020 LC-SC3-EE-2-2018 3,5 years

Target group: private property

EU-Project RenoBooster "One-Stop-Shop"

Bundeling of services, city contacts

Connecting,
Partnerships
"quality network"

Competent Independent

Increase of quality and quantity of private renovations

+ min. 110 Mio. €/a - 1,000 t CO<sub>2</sub>/a ; 5 GWh >2,000 professionals 40 houses in test phase

• •

result

### Some context for financing



### Austrian context on housing

- Reglemented rents pre 1945 + sub-standard, old contracts
- Rents can only be raised for proved maintainance or improvements (conventional energy-eff.)
- > Decision making in condominiums
- > Building financial reserves per house ...
- > Loans are on owner-community and not individual

### Financing Issues



- > Requirements for Equity at home (20% etc.)
- Risk and payback possibilities for private owners loan flexibility, loan period
- Risk assessment for banks Guarantees?, Quality Check by Hub?
- Bank system liquidity?Public loans...EIB leverage as multiplier...

### Public subsidies – Lacking attractiveness

The state of the s

> Thermic-energetic Refurbishment – since 1999!

Min 1,65 x low-energy-building – 60 to 170 €/m<sup>2</sup> + 30 €/m<sup>2</sup> facilities

3 out of 5 energy-efficiency measures

Circa Minus 70% Energy *demand* 

Base-refurbishment

25% public loan – 1% interest

75% bank with annuity-support (e.g. 40% of payback)

300,000 apart. units since 1984!

15 y. no profit + allocation of apartments by City





# Annex with Project Infos

#### Analysis...

... of hurdles and incentives for home owners to refurbish through surveys

... of the attitude of the supplier side (hurdles, incentives, arguments) thorugh focus group workshops

.. of existing financing options

... of existing (consultation) services

... of the regional and supior legal framework conditions and existing subsidies

... of international examples of One-Stop-Shops

... of possible future hub structures

Communication Strategy

General awareness raising campaigns

Target group-specific communication for owners of single-family / multi-family homes, condominiums, supply side, businesses etc.

Adaptation of existing services

Development of new service modules and packages

**Development** of a **quality network** of the supply side

**Testing** of the developed modules and packages and the new hub structure

(ongoing) **Evaluation** of the test phase and adaptation

Adaptation of **regional** (legal) **framework conditions** including **subsidies** 

Deployment for improvements of superior framework conditions

Construction of a web portal for subsidies

#### International exchange

Probing of the new hub structure (partner, organization form, financing etc.)

Preparation of the new structure (operating model, job profiles, location, branding, etc.)

national and international project **dissemination** and dissemination of results

M1 (May 2019) M10 (Feb 2020) M21 (Jan 2021) M42 (Oct 2022)

### **Project Consortium**











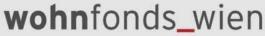
DIE UMWELT

**BERATUNG** 

**Eco Counselling** 







fonds für wohnbau und stadterneuerung

Funds for Housing and Urban Renewal







