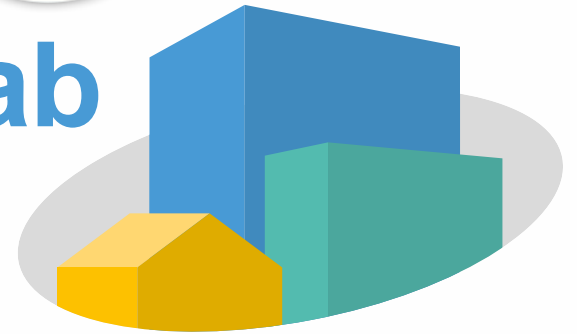


TARTU PAMPLONA GENK



Co-creation in Tartu Living Lab

5th of June 2023



oPEN Lab

TARTU
PAMPLONA
GENK

LEADING THE TRANSITION
TO POSITIVE ENERGY
NEIGHBOURHOODS



This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under grant agreement No 101037080.

The sole responsibility for the content of this presentation lies with the authors. It does not necessarily reflect the opinion of the European Union. Neither the CINEA nor the European Commission are responsible for any use that may be made of the information contained therein.

About oPEN Lab

- Project oPEN Lab
- Goal: innovate towards PENs by 2030
- LC-GD-4-1-2020
- Building and renovating in an energy and resource efficient way
- 54 months or 4 years 6 months
- October 2021 - April 2026
- TOTAL: EUR 21 799 482,50
- subsidy: EUR 19 920 874,26



Estonian partners

Municipality:

- City of Tartu

Research:

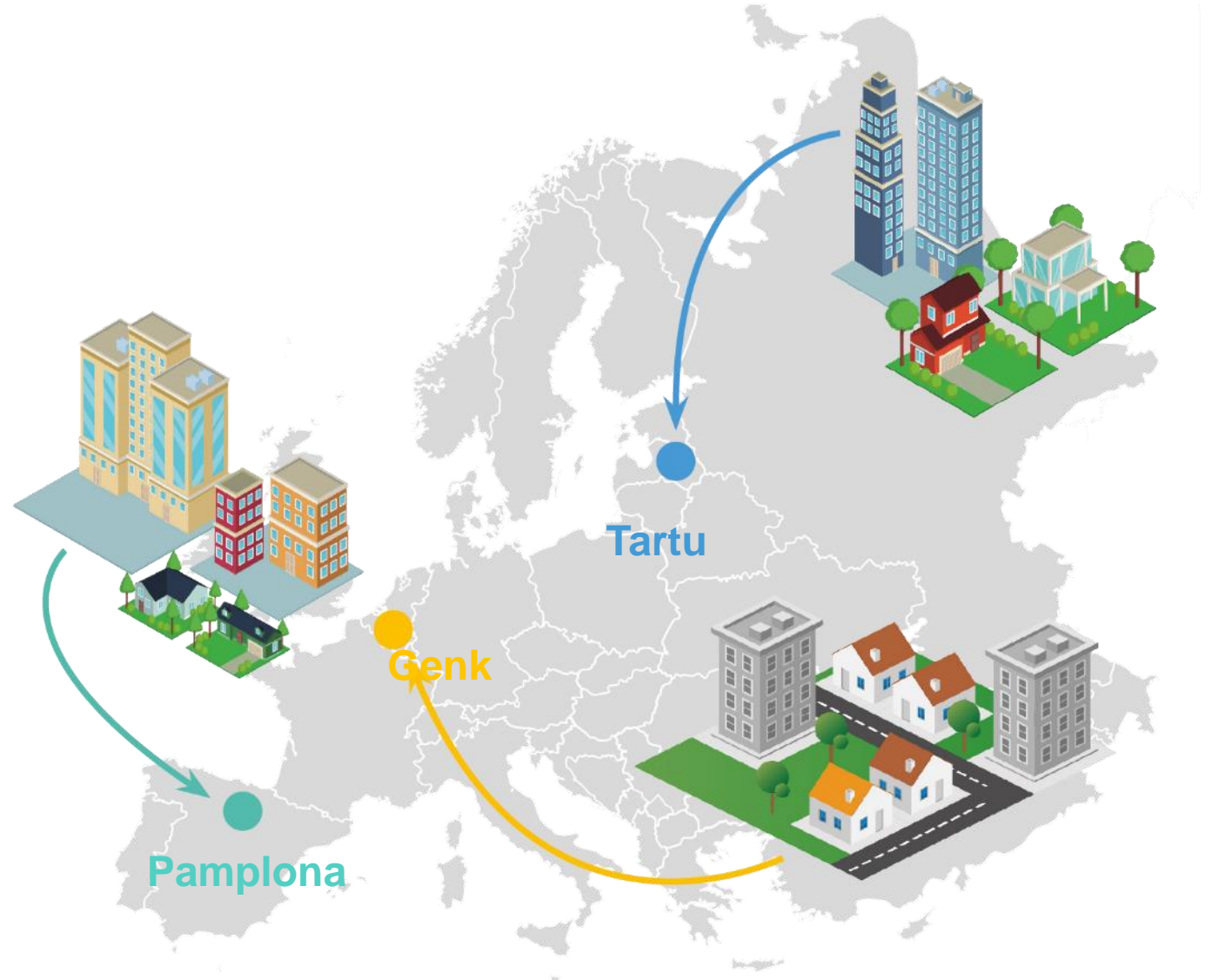
- Tartu University
- Tallinn Technical University

NGO:

- Tartu Regional Energy Agency
- Institute of Baltic Studies

Energy producers:

- Eesti Energia
- Gren



Tartu Living Lab

- 22 apartment buildings - Privately owned
- 1 508 apartments
- 49 350 m²
- 3 468,4 inhabitants
- 0,31 sq.km
- 11 187 people/sq.km
- District heating for heat and warm water
- No gas
- Diverse neighborhood
- No deep renovation actions so far

Tartu Living Lab Goals

Technical Innovations:

- Deep renovation
- Pre-fabricated renovation of high-rise apartment buildings into NZEB-s
- Integrated and regular PVs
- Electricity storage
- EV charging
- Energy community
- Heat storage
- Building Digital twin
- Neighborhood Digital Twin

Social innovations

- Innovation Living Lab setup
- Renovation-as-a-Service
- Local hero campaign
- Energy Community
- Co-creation for building expectations
- Co-creation for public space on neighborhood level

Meetings and information days

- Creating relationships with housing association managers
- Mapping neighborhood issues
- Creating relationships among neighboring apartment buildings
- Public information exchange





Enduring the elements

- Going above and beyond for conversations

Co-dreaming laboratory

- Goal: to create a comprehensive list of works of a dream apartment building
- Following the event Tartu partners would engage construction companies with the list
- List would be used to put prices on all investment action for creating a configuration and price estimation tool



World Café method

- Dwellers from 10 buildings
- 5 people per building invited
- Total of around 50 participants
- People organized so same building people would not be around the same table
- Experts had a play book to guide conversations around their table
- Event on Saturday around lunch time
- FOOD!



Tips for World Café method

- Have a set of values and a playbook for the experts
- Prepare tangible physical materials or props to get conversations going
- Make sure all participants get to have a word and impress opinion
- When dreaming make sure that you get stuck in cost or why something is difficult or impossible

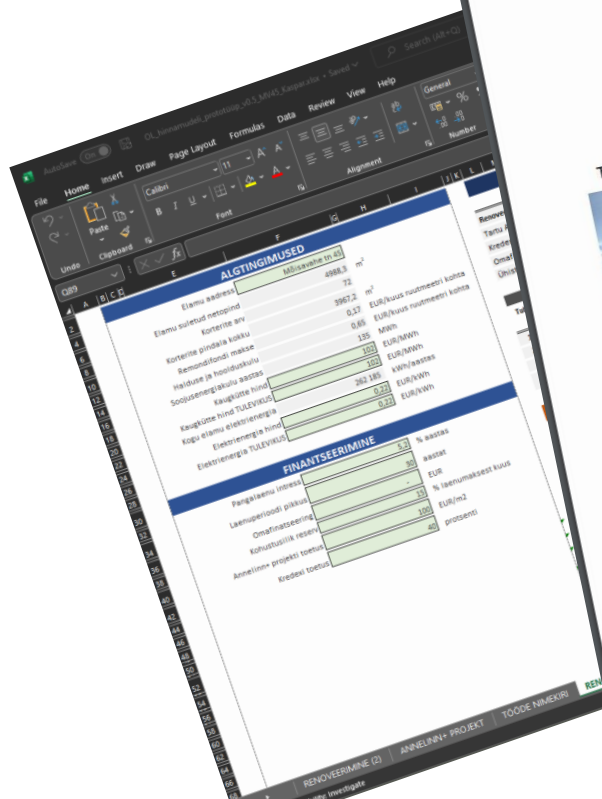


Results

- Many new ideas
- Approval for team's work done before the dreaming café
- New ambassadors for the project
- Comprehensive list of works
- Good basis for engaging construction and engineering companies



Configuration and cost estimation tool created in November 2022



The screenshot shows a software interface with a table containing project data. The table has columns for various metrics and their values.


ALUSTINGMISED	
Elamu aadressid	Mõisavahe tn 35
Elamu suurus netopind	4988,3 m²
Elamute arv	72
Korteri pindala kokku	2987,2 m²
Remondifondi makse	0,37 EUR/kuus ruutmeetri kohta
Indiivide ja hoolduskulu	135 M€
Soojusenergia kulu aastas	120 EUR/aast
Kaigutuste hind	262 188 EUR/aast
Kogu elamu energiakulu	0,37 EUR/kuu
Kaigutuste hind	262 188 EUR/aast
Kogu elamu energiakulu	0,37 EUR/kuu

FINANTSEERIMINE	
Pangalaenu intress	5% aastas
Laeperioodi pikkus	30 aastat
Omafinantseering	EUR
Kohustuslik reserveerimine	100% % laenuväärtusest kuu
Annulinn+ projekti toetus	100% % laenuväärtusest kuu
Krediidid toetus	100% % laenuväärtusest kuu

HOONERAPORT



Mõisavahe tn 35 korterelamu

Tehniline ülevaatus ja lähteseisukohad edaspidiseks renoveerimiseks



Koostaja: Tartu Regiooni Enk

Tartu 2022

  See projekt on saanud rahastuse Euroopa Liidu Horisont 2020 innovatsiooni programmi toetuslepinguga nr 101037080

TARTU

VALEHT TARTU LINN VALDKONNAD RÄÄGI KAASA KONTAKTID JA LINNAJUHTIMINE

Vaegnägijatele Turism Kultuuriaken EST Otsi pealkirjadest ...

ANNELINN+

Annulinn+ projekti eesmärk on renoveerida koostöös korteriühistutega liginullenergia hooneks kolm Annulinna 6-9-korruselise elamut ning kujundada nende ümber kaasaegne elukeskkond.

Ruumiloomes osakond
Küüni 3 Tartu 51004

- Saada e-kiri
- Telli teavitusi

Avald > Valdkonrad > Linnararad ja eelarve > Säästev Tartu > Annulinn+

Üldinfo Üritused Renoveerimine Kasulikk


Projektiga seotud renoveerimisinfo

HOONERAPORTID

Siit leiad projektiga liitunud 10 maja hooneraportid, kus on esitatud hoone tehniline ülevaatus ja lähteseisukohad edaspidiseks renoveerimiseks.

- [Mõisavahe 35](#)
- [Mõisavahe 36](#)
- [Mõisavahe 37](#)
- [Mõisavahe 38](#)
- [Mõisavahe 42](#)
- [Mõisavahe 43](#)
- [Mõisavahe 45](#)
- [Mõisavahe 47](#)
- [Kaunase pst 80](#)
- [Nõlvaku 15](#)

KORTERIÜHISTU OSALEMINA PROJEKTIS



Thank you for your attention

Kaspar Alev

Climate Specialist

Tartu City Government

Kaspar.alev@tartu.ee





build
EST



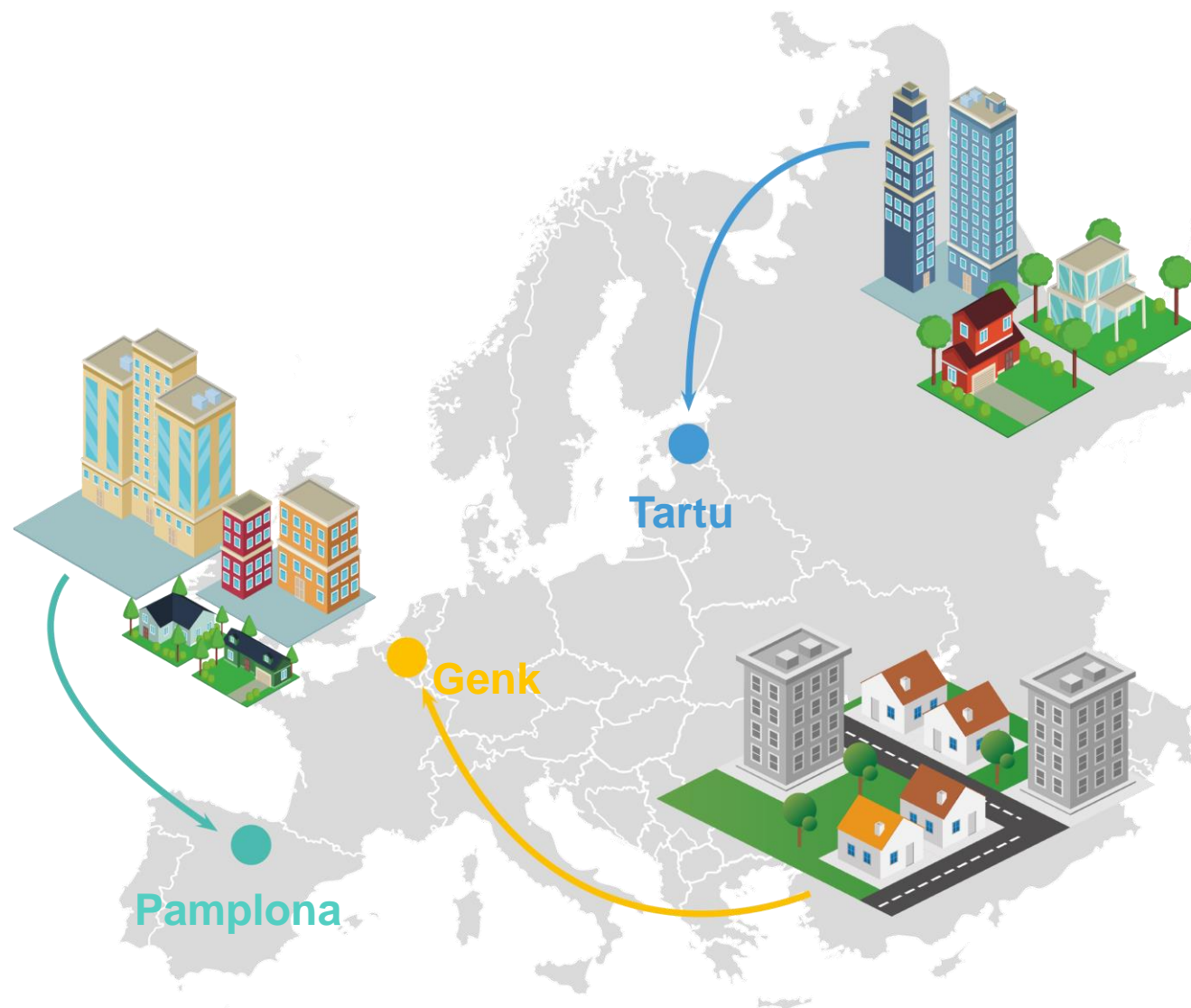
CONTACT

✉ info@openlab-project.eu

🐦 [@oPENLab_project](https://twitter.com/oPENLab_project)

in oPEN Lab

🎥 oPEN Lab Project



This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under grant agreement No 101037080.

The sole responsibility for the content of this presentation lies with the authors. It does not necessarily reflect the opinion of the European Union. Neither the CINEA nor the European Commission are responsible for any use that may be made of the information contained therein.

SUBSCRIBE TO OUR NEWSLETTER



VISIT OUR WEBSITE



oPEN Lab Partners

