



RENOVEERIMISMARATON

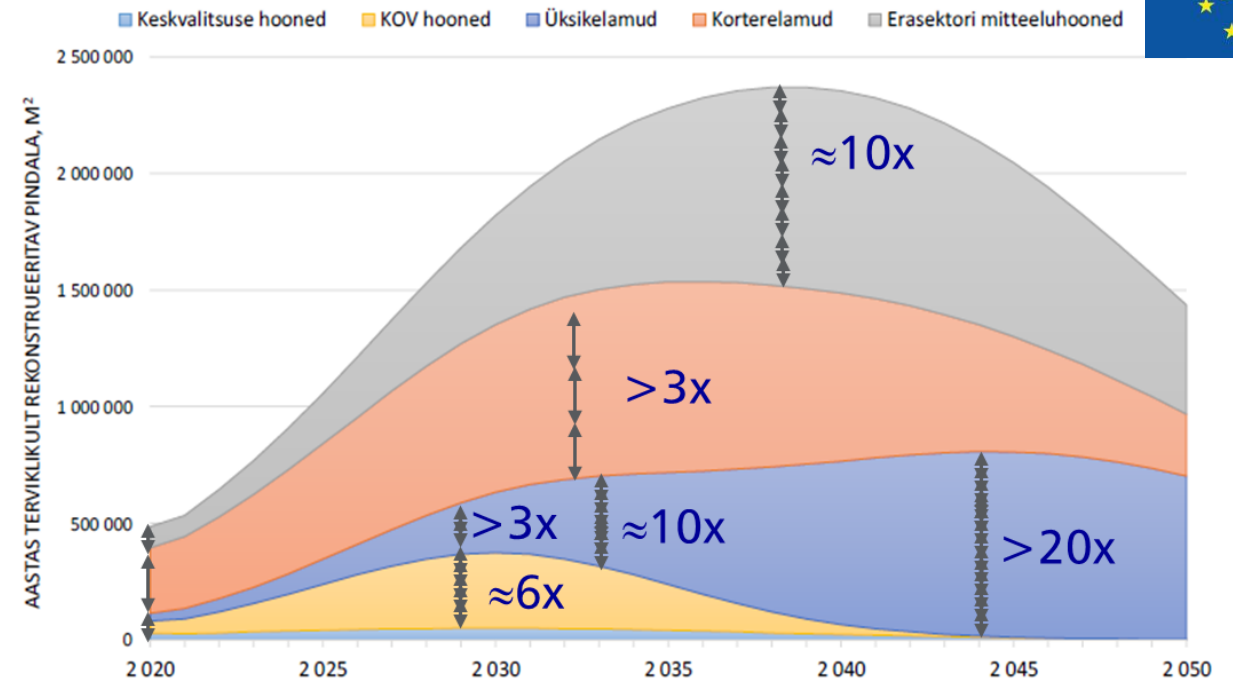
Rekonstrueerimise strateegia (REKS)

Arvestades hetkel kasutuses olevat eluhoonete hulka, seni teostatud rekonstrueerimiste mahtu ja prognoositavat elamute kasutusest väljalangemist* tuleks aastaks 2050 terviklikult rekonstrueerida (m²):

Üksikelumuid	~14 000 000
Korterelamuid	~18 000 000
Erasektori mitteelamuid	~17 000 000
KOV hooned	~4 000 000
Keskvalitsuse hooned	~900 000
KOKKU	~53 900 000
	=141 000** hoonet

* 2050. aastaks langeb kasutusest välja kuni 10 000 000 m² hooneid

** EL-s kokku vajab rekonstrueerimist 146 000 000 hoonet



Joonis 1. Kumulatiivne aastane rekonstrueerimise vajadus.

Tabel 2. Strateegias esitatud rekonstrueerimiste mahtude maksumuste jaotus aastani 2050.

	Maksumus, €/m ²	Rekonstrueerimise maksumus, mln €						KOKKU
		2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	
Üksikelumud	400	161	381	776	1 236	1 541	1 504	5 600
Korterelamud	300	683	953	1 189	1 160	886	530	5 400
Erasektori mitteeluhooned	450	379	811	1 437	1 884	1 828	1 312	7 650
KOV hooned	600	409	869	792	287	41	2	2 400
Keskvalitsuse hooned	600	119	142	136	90	41	13	540
		1 749	3 156	4 330	4 657	4 337	3 361	21 590

Projekt BUILDEST - REKSi käima lükkaja



Projekti kestvus **7 aastat**
(2022-2028)

I 2022-2023

II 2024-2026 (6k)

III 2026 (6k)-2028

Kogueelarve 16,3 mln
(toetus sellest **9,5 mln**)

Majandus- ja kommunikatsiooni ministeerium

Rahandusministeerium, Keskkonnaministeerium

SA KredEx

SA Keskkonnainvesteeringute Keskus

Riigi Kinnisvara AS

Pilootomavalitsused:

Tartu, Võru, Rakvere

Katusorganisatsioonid/erialaliidud:

Digitaalehituse klaster

Eesti Puitmajaliit

Ehitusettevõtjate Liit

Korteriühistute Liit

Ringmajanduse Ettevõtete Liit

EVM Maa-arhitektuuri Keskus

Tartu Regionaalne Energiaagentuur

Ülikoolid:

Tallinna Tehnikaülikool

Eesti Kunstiakadeemia

Juhtpartner

Seotud valdkonnad

Elluviijad

Elluviijad

Arendustöö/elluviijad

Arendustöö



Projekti eesmärgid ja tööteemad

- WP1 - Olukorra detailne **kaardistamine, mõjude analüüsid, meetmete** väljatöötamine;
- **WP2 - Tehniliste lahenduste** välja töötamine;
- **WP3 - Piloteerimine** erinevatel hoonetüüpidel ja uuenduslikel viisidel (nt living-lab);
- WP4 - Arendada välja lahendused tagamaks ehitatud keskkonna **vastupidavus muutuvale kliimale** (nt tugevamad tuuled – koormused piiretele, rohkem sademeid – üleujutusrisk, jne);
- WP5 - Pakkuda lahendused Eesti renoveerimislaine käigus **jäätmetekke minimeerimiseks ja keskkonnateadlikuks renoveerimiseks**;
- WP6 - Rakendada **nutilahendusi** ja arendada **digitaalseid tööriistu** tõhustamiseks pikaajalise rekonstrueerimisstrateegia rakendumist (e-ehituse platvorm - **hoone logiraamat, renoveerimisspass**);
- WP7 - Suurendada renoveerimise oluliste **võtmerühmade suutlikkust ja turu nõudlust** renoveerimise järgi
- WP8 – Projekti administreerimine (suhtlus CINEA-ga, raporteerimine, auditeerimine, arveldamine)



WP 1 Development of stakeholder specific financial models and policy instruments for deep renovation

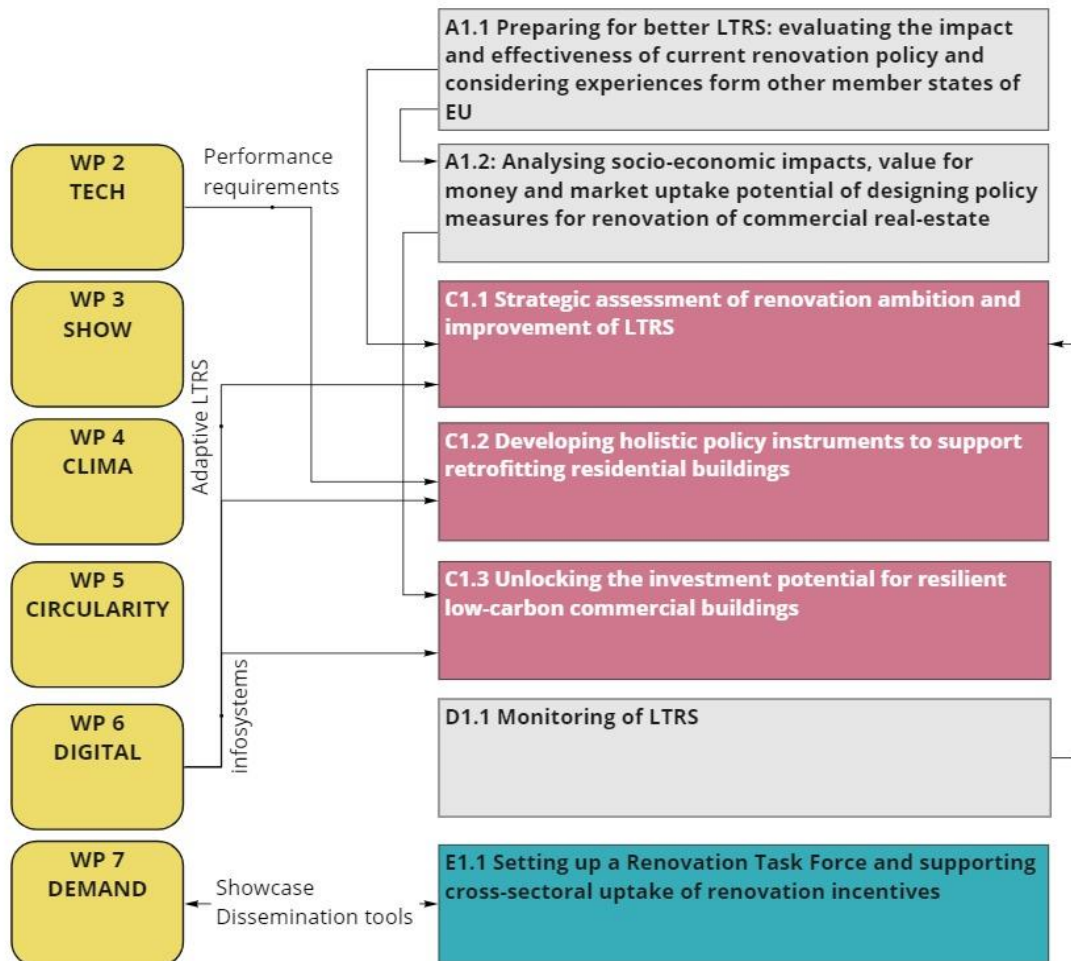
A, C, D, E?

A – ettevalmistavad tegevused

C – käega-katsutavad tegevused

D – monitooring, hinnangud

E – teadlikkuse kasvatamine



LINKS TO OTHER WP-s

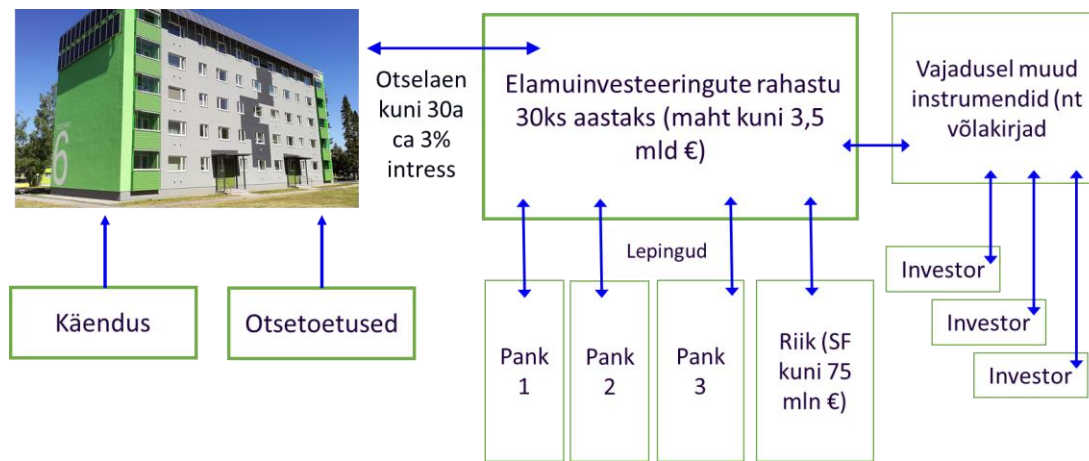
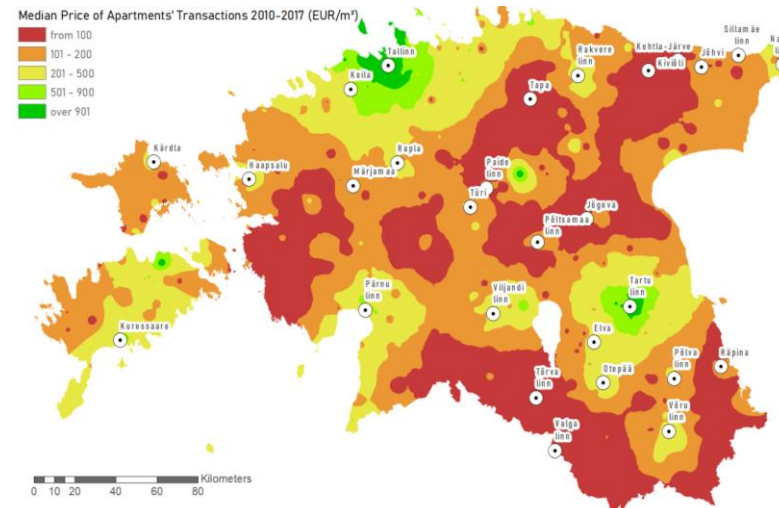
ROLES: Engaged beneficiaries

MKM: C1.1, C1.2, C1.3, D1.1, E1.1
KredEx: C1.2
KIK: A1.2, C1.3
TalTech: A1.1, A1.2, C1.1, D1.1
EKA: A1.1
RaM, EEEL, EVM, EKYL: E1.1

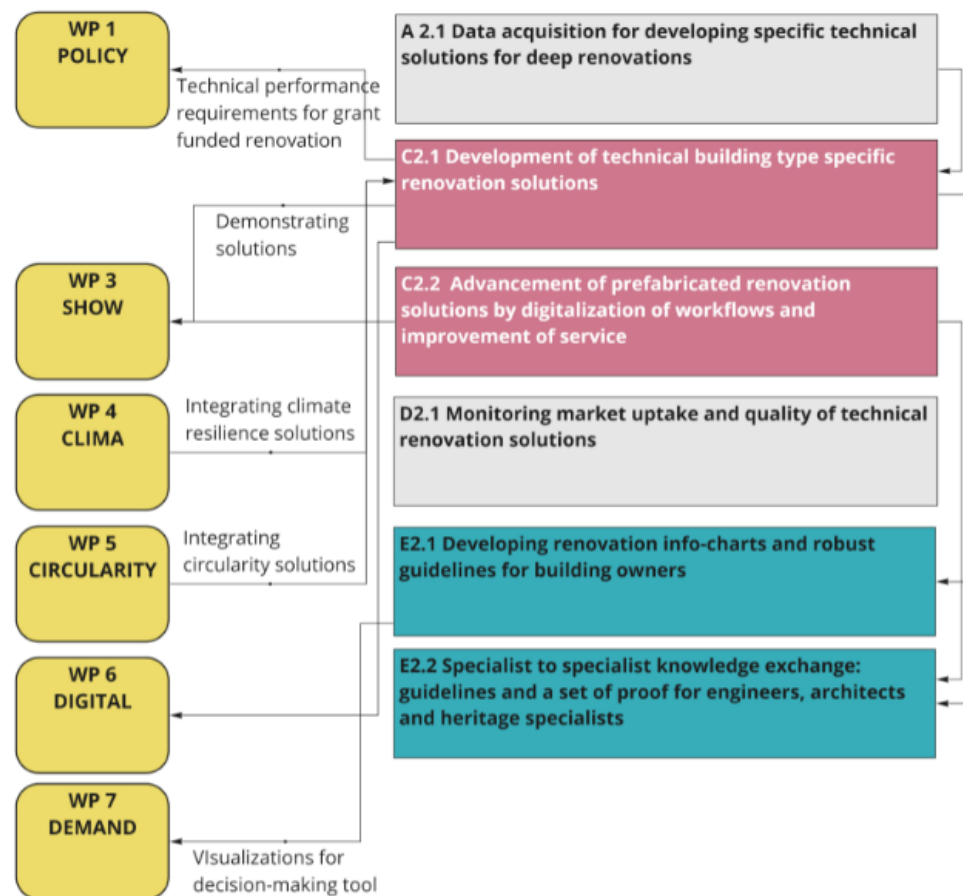
Engaged stakeholders / Policy working group

Public authorities (national and regional)
Politicians
Construction sector
Owners representatives

Renoveerimis- poliitika



WP 2 Development of building and stakeholder type specific technical solutions and guidelines to streamline the renovation.



LINKS TO OTHER WP-s

ROLES: Engaged beneficiaries

TalTech: A2.1, C2.1, C2.2, E2.1, E2.1, D2.1
 EKA: A2.1, C2.1, E2.1 (expertise on heritage buildings)
 EVM: A2.1, C2.1, E2.1 (expertise on detached houses)
 EEEL: C2.1, C2.1, E2.2, D2.1 (market uptake of solutions)
 RKAS: E2.2, D2.1
 DIGI, EMPL: C2.2, D2.1
 KredEx: D2.1

Engaged stakeholders/Target group

Estonian Architects Association (~400 members)
 Estonian Construction Engineers Association (~600 members)
 Heritage Conservators Union (~100 members)
 Union Estonian Real-Estate Managers (~100 members)
Estonian Construction Entrepreneurs Association (~100 member organizations)

Tehnilised lahendused

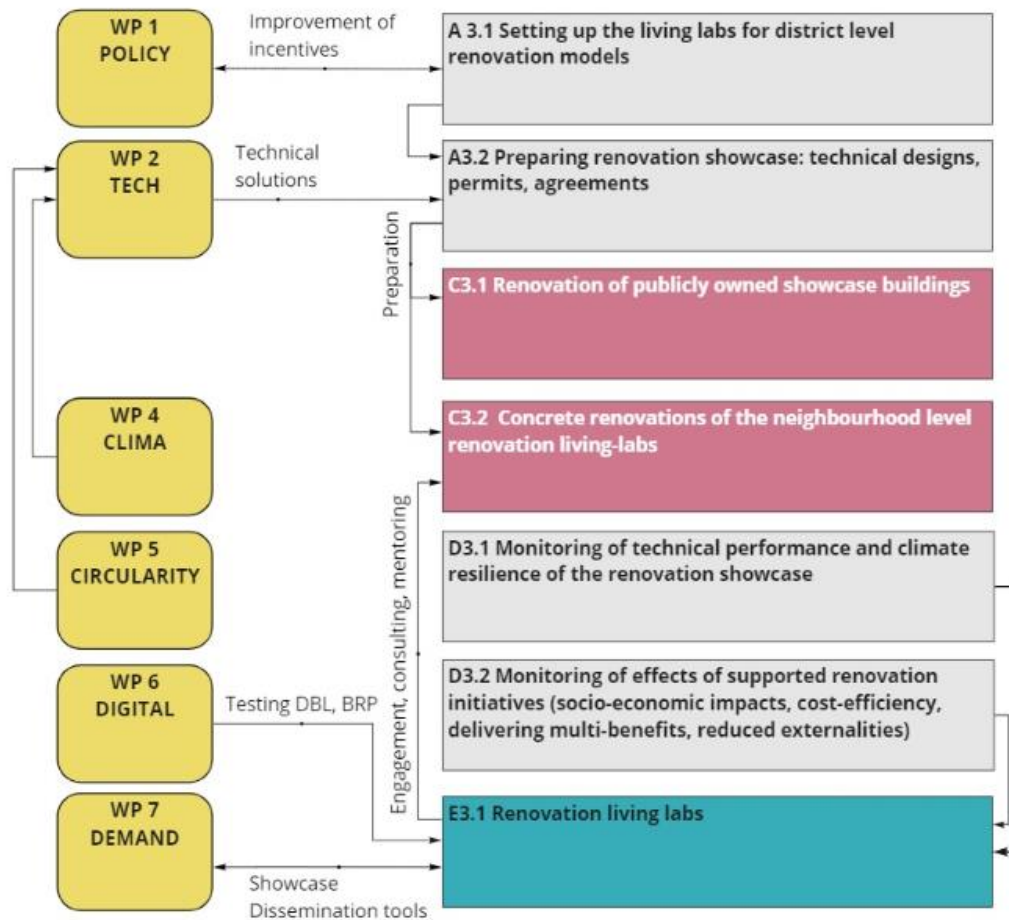


Reference houses based on the time period

DH 1: ≤1920	DH 2: 1921-1940	DH 3: 1941-1970	DH 4: 1971-1990	DH 5: ≥1991
				
12%	22%	22%	18%	26%



WP 3 Setting up a renovation showcase



LINKS TO OTHER WP-s

ROLES: Engaged beneficiaries

TREA: A3.1, A3.2, C3.2, D3.1, D3.2
 RKAS: A3.1, C3.1, D3.1
 Tartu: A3.1, A3.2, C3.2, D3.2
 Võru: A3.1, A3.2, C3.2, D3.2
 Rakvere: replication A3.1, E3.1
 TalTech: A3.1, D3.1, D3.2
 EKA: A3.1
 KIK: C3.2

Engaged stakeholders / Target group

Owners of publicly owned showcase (RKAS clients)
 Owners of renovation showcase of urban challenges)
 Neighbourhood associations
 Regional district heating companies

Pilootrenoveerimised



Tartu kvartali põhine renoveerimine



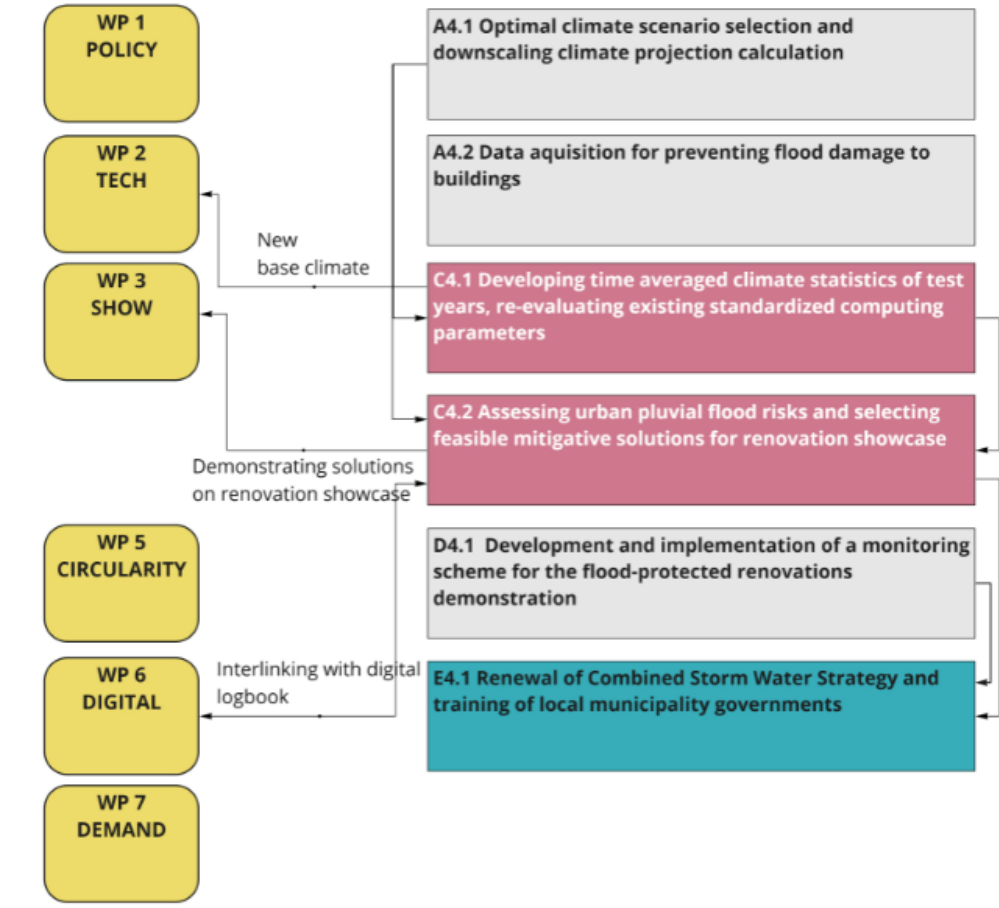
Võru ajalooline kesklinn



Eramud



WP 4 Modelling climate risks, adopting the results in renovation standards and regulations and testing smart climate adaptation solutions



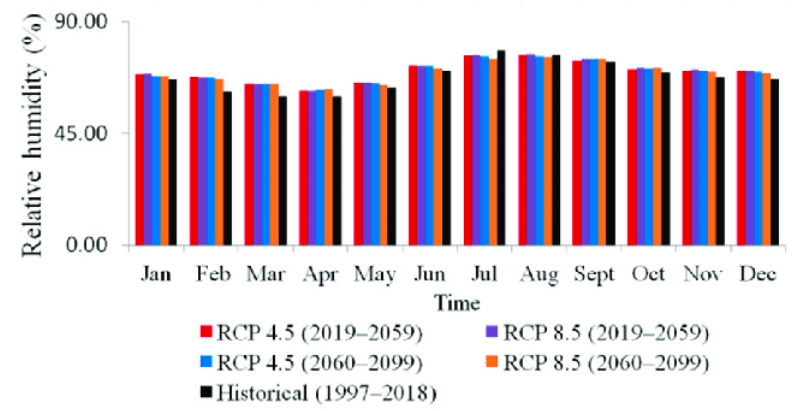
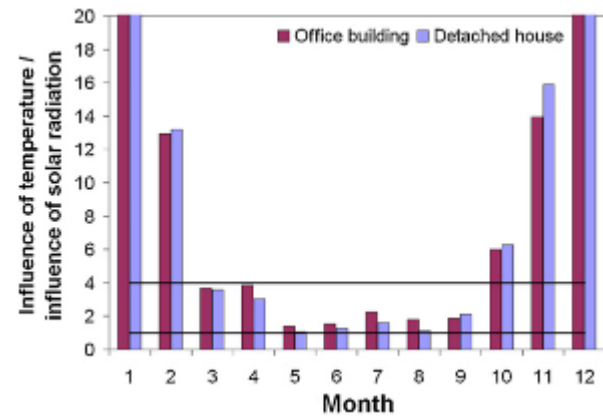
LINKS TO OTHER WP-s

ROLES: Engaged beneficiaries	Engaged stakeholders / Target group
TalTech: A4.1, A4.2, C4.1, C4.2, E4.1, D4.1 KeM: C4.2, E4.1, D4.1	Local municipalities: construction and environment specialists (79 public bodies / ~2 people per municipality = 150 people) Association of Water Engineers (~ Estonian Planners Union (~90 members) Municipal water utilitiesv (~75 companies)

Kliimakindlus



Linnalised ülejutused, niiskuskahjude vältimine

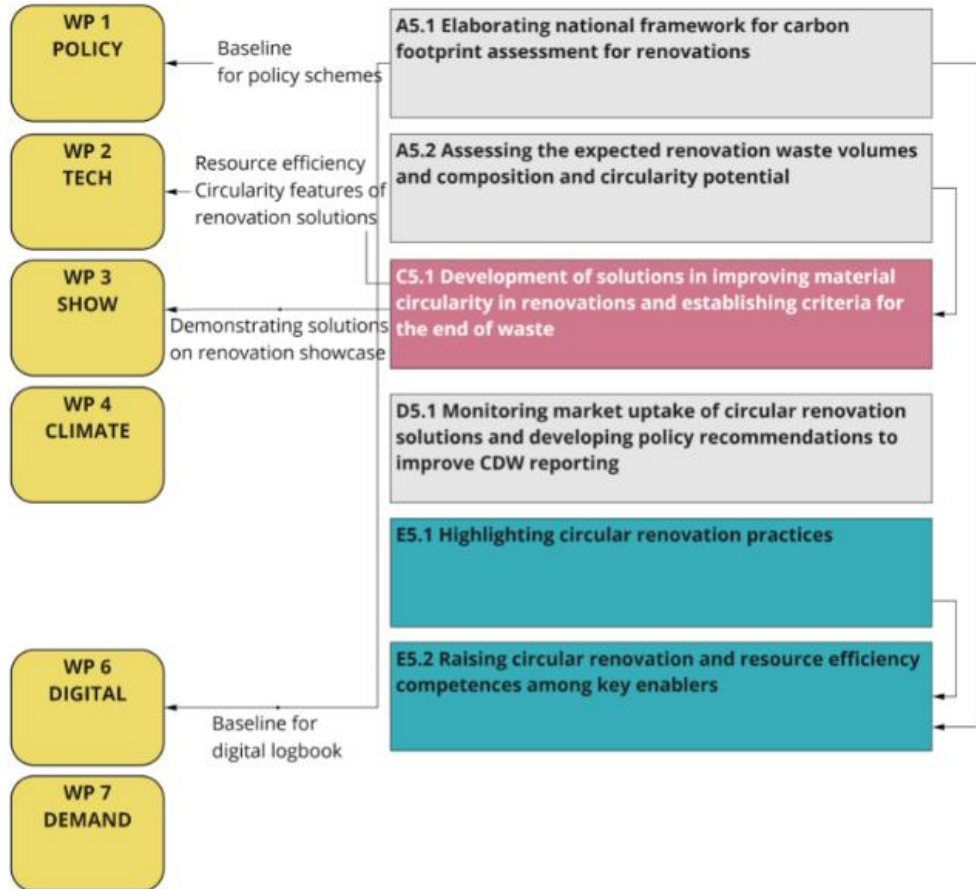


Testaastad (sh. tuleviku kliima) projekteerimiseks: vihm, külmakindlus, energiaarvutused, jne



Ringmajandus

WP 5 Advancing resource efficiency and circular solutions for renovation



LINKS TO OTHER WP-s

ROLES: Engaged beneficiaries

TalTech: A5.1, C5.1, E5.1, E5.2
EKA: A5.2, C5.1, E5.1
ERMEL: A5.2, C5.1, E5.1, E5.2
EEEL: A5.2, C5.1, D5.1, E5.1
RKAS: C5.1
KeM: C5.1, E5.2
RaM: E5.2

Engaged stakeholders / Target group:

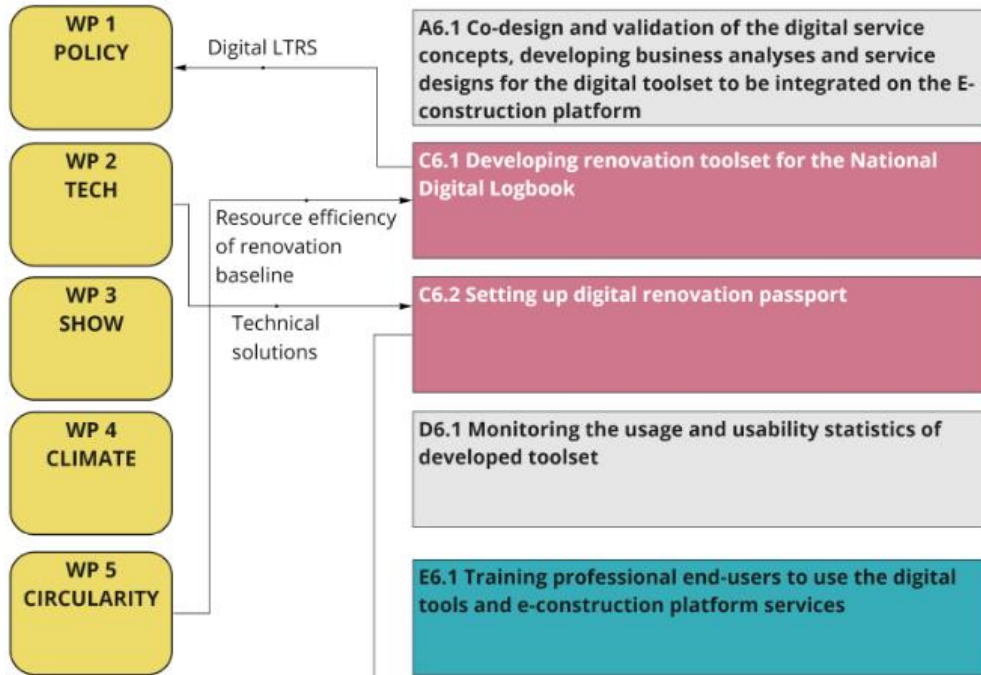
Local municipalities: construction and environment specialists (79 public bodies / ~2 people per municipality = 150 people)
Estonian Architects Association (~400 members)
Estonian Construction Engineers Association (~600 members)
Heritage Conservators Union (~100 members)
Estonian Construction Entrepreneurs Association (~100 member organizations)
Demolition Entrepreneurs
Construction inspectors





Digitööriistad

WP 6 Development of the digital toolset for renovation



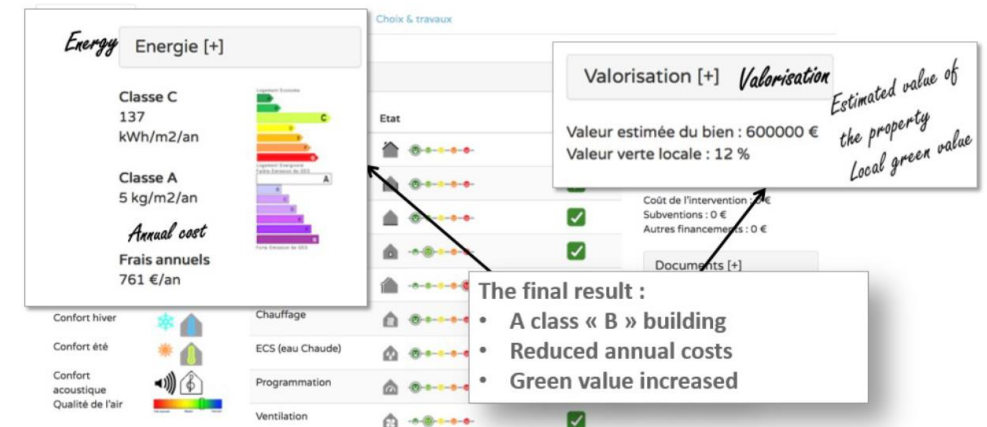
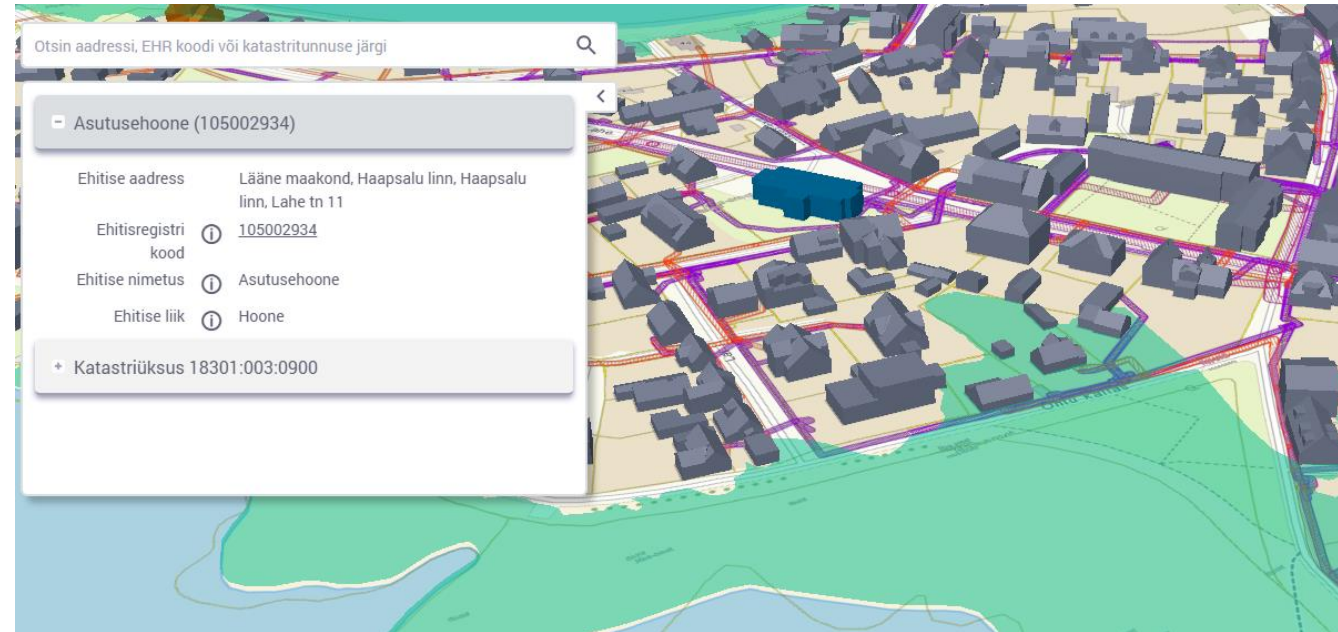
LINKS TO OTHER WP-s

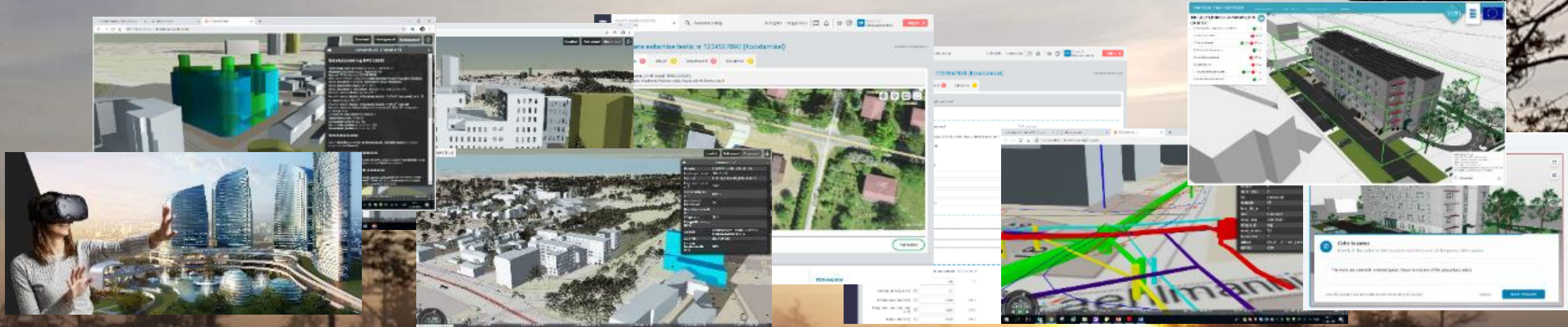
ROLES: Engaged beneficiaries

MKM: whole WP
TalTech: A6.1
DIGI: A6.1, C6.1

Exploitation group:

Local municipalities: construction and environment specialists (79 public bodies / ~2 people per municipality = 150 people)
Renovation consultants (183 consultants compliant for the technical requirements)
Building owners
Construction companies





Erasektori
teenused

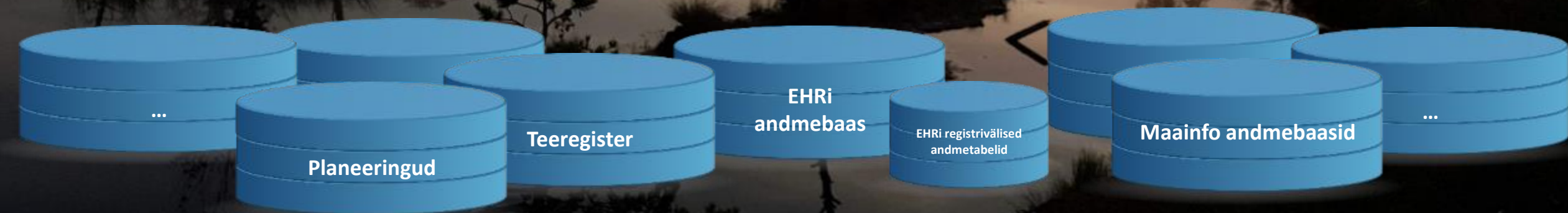
Muud riigi
teenused

3D kaksiku teenused

EHRi teenused

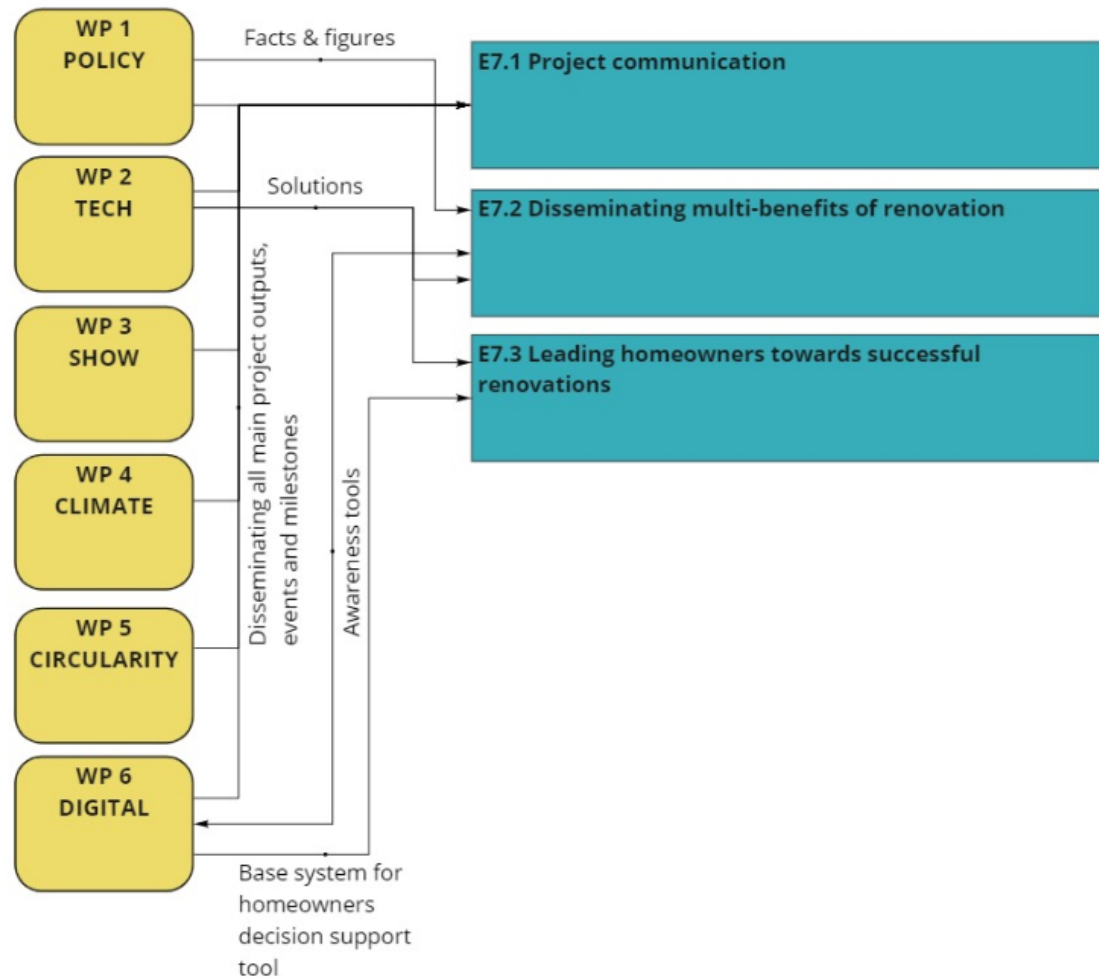
VRA teenused

Mudeli teenused





WP 7 Raising awareness on renovation among homeowners



LINKS TO OTHER WP-s

ROLES: Engaged beneficiaries

KredEx - E7.1, E7.2, E7.3
DIGI - E7.2
EKYL - E7.3
EVM - E7.3

Engaged stakeholders / Target group:

Homeowners associations;
Apartment building associations
Environmental and climate awareness groups and organizations;
Construction companies

Teadlikkuse suurendamine



Täna Kuulamast!

Lauri Suu

Ehitus- ja elamuosakond

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MAJANDUS- JA
KOMMUNIKATSIOONI-
MINISTEERIUM