

EERA Joint Programme on Smart Cities (EERA JPSC)

Parallel sessions

Summary Report

June 29, 2023, Carcavelos, Nova SBE University

Parallel session: Sustainable Buildings WG

Management structure

Chair	Giovanni Semprini, UNIBO
Co-chair	Name and surname

Participants

No	Name and surname	Organization
	Emanuela Giancola	CIEMAT
	Rosa Romano	UNIFI
	Ilaria Montella	UNIROMA3
	Maria Beatrice Andreucci	Sapienza
	Marco Delli Polli	Sapienza
	Xingxing Zhang	HDa
	André Augusto	HDa
	Alenka Temelyotov-Salaj	NTNU
	Marija Jevric	UGC Montenegro
	Naga Venkata Sai Kumar	Israel Techn. Univ.
	Gerald Leindecker	IAPL
	Cristiana Croitoru	UTCB
	Miguel Minano	MyEnergia
	Maria Milousi	TUC



Summary and Key conclusions:

- Giovanni introduced the WG session. All participants presented themselves and their main interests.
- Open brainstorming took place where all participants suggested directions and fields of interest of WG activities that could be identified as focal points in upcoming calls and dissemination activities (next WG workshops). Main keywords that emerged : Holistic and Circularity approach in building design, IEQ analysis, new EU Bauhaus initiative, integration of technological systems, new business model for building renovation, Nature based solutions according to local materials, solutions to reduce energy peak demand of building services, Building energy management and flexibility, industries development towards integration of technologies and material recycling, push for legislative evolution. Activities must be addressed to all new and existing buildings, civil and industrial buildings.
- According to the previous discussion, participants agreed to organise a workshop on **“Building renovation and refurbishment strategies”** during the next Warsaw conference. An on-line meeting will be organised on half of July to define details and contributions.
- general interest for participant to discuss in next meetings on: common scientific articles, develop of educational programme towards PED and SC, consortium building for 2024 HEU calls



Parallel session: Smart and Liveable Neighbourhoods and Communities WG

Management structure

Chair	Caroline Cheng, SINTEF
Co-chair	Michal Kuzmic, CVUT

Participants

No	Name and surname	Organization
	see photo	

Summary and Key conclusions:

Caroline Cheng started the parallel session with an **ice-breaker exercise** – what is your latitude? All 31 participants were lined up according to the latitude of their country of origin. Participants were also grouped in threes to introduce someone so that we all get to know one another better.



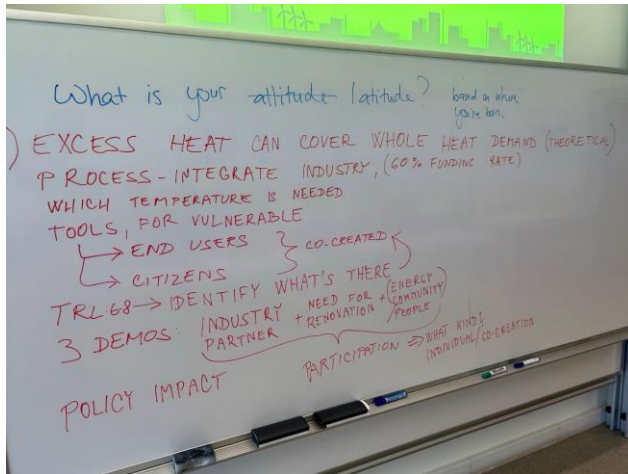


This was followed by a **co-creation exercise** focusing on the Horizon Europe call “Digital solutions to foster participative design, planning and management of buildings, neighborhoods and urban districts (Built4People Partnership) (HORIZON-CL5-2024-D4-02-05)”. The goals of the meeting were: 1) to uncover new possibilities for collaboration, 2) to brainstorm possible project (proposal) collaboration, 3) to explore prospective joint activities, potential results and their added value, relevant partner competencies, 4) to share and enjoy.

Together with Michal Kuzmic in a role of facilitator the participants first took a deep dive into the text of the call. The call itself (DL: 1/2025) is quite extensive cutting across topics such as



participation with end users and citizens supporting building stock renovation, development



and testing of digital tools with high technology readiness level (TRL), upholding the inclusiveness and aesthetics as part of the New European Bauhaus, as well as linking these to cooperation with industry (e.g. through utilisation of excess heat). Key observations included the need to harness as much as possible the potential within existing tools that are already being used and can be integrated with new processes.

In the second part, open moderated brainstorming took place where participants suggested possible added values to the proposal, based on their competence and past experience. The potential proposal design features included focus on citizen groups in both participation and co-creation (brought in by Savis Gohari, Paolo Civiero, Francesca Sabatini, Nadja Riedel, Ritva Salminiitty and others), existing tools were mentioned (Antonio Marvuglia), excess heat's potential was highlighted (Per Sieverts Nielsen), and many more suggestions appeared in the discussion. The exercise brought together many potential project ideas and helped open new frontiers for collaboration.



Parallel session: Smart Cities WG

Management structure

Chair	Sonia Giovinazzi, ENEA
Co-chair	Atiba Ezekiel, DOKT

Participants on site

No	Name and surname	Organization
	Paola Clerici Maestoso	ENEA
	Emanuela Giancola	CIEMAT
	Jozsef Kadar	AIES
	Judith Thomsen	SINTEF
	Mine Sertsöz	ESTU
	Dorota Chwieduk	@itc.pw.edu.pl
	Marios Karmellos	
	Gerald Leindecker	
	Maria Melousi	
	Christoph Gollner	
	Silvia Soutullo	CIEMAT
	Laura Aelenei	LNEG
	Elena	
	Vicky Albert-Seifried	FRHF-ISE





Participants willing to be part of the Smart Cities WG:

No	Name and surname	Organization
1	Abdurrahman MOhamed	AD, ABU
2	Adriano Bisello	EURAC
3	Agatino Rizzo	Itu
4	Aleksandar Anastasovski	IBU
5	Annemie Wyckmans	NTNU
6	Astrid Bjørgen	SINTEF
7	Carlo Vallati	UNIPI
8	Caroline Cheng	SINTEF
9	Carsten Rode	DTU
10	Daniel Albuquerque	EDP



11	Emanuela Giancola	CIEMAT
12	Filomena Pietrapertosa	CNR-IMAA
13	Gerhard Stryi-Hipp	FRHF-ISE
14	Ghazal Etminan	AIT
15	Giulia Turci	UNIBO
16	Han Van de Vyvere	VITO-EnergyVille
17	Henrik Madsen	DTU
18	Jelena Brajkovic	AF UB
19	João Pedro Gouveia	FCT NOVA
20	Jozsef Kadar	AIES
21	Judith Thomsen	SINTEF
22	Júlia Pereira	EDP
23	Laura Aelenei	LNEG
24	Maria Beatrice Andreucci	SAPIENZA
25	Omar Shafqat	AUAS
26	Michal Kuzmic	CVUT
27	Michele Tunzi	DTU
28	Mine Sertsöz	ESTU
29	Monica Salvia	CNR-IMAA
30	Nienke Maas	TNO
31	Paola Clerici Maestosi	ENEA
32	Silvia Soutullo	CIEMAT
33	Sonia Giovinazzi	ENEA
34	Vasiliki Geropanta	TUC
35	Vicky Albert-Seifried	FRHF-ISE
36	Zhen Chen	STRATH



Summary and Key conclusions:

Paola Clerici Maestosi on behalf of **Sonia Giovinazzi** chair for WG Cities introduced the agenda of the day, including the following main topics:

1. Vision, work and objective
2. Persona's grid
3. Project in a nutshell
4. Discussion on thematic area and drivers for Smart City
5. Discussion on Smart Energy System Components
6. Discussion on Life Cycle thinking
7. DUT Partnership call on PED: a project proposal
8. A HE project proposal
9. Joint paper on EERA JPSC Special Issue

A call for WG City vice-chair has been launched.

Highlights of the above-mentioned topics were given and a proactive discussion was encouraged that lead to the following main conclusions:

1. **Vision, work and objective** - *Key conclusion* - Participants agree in principle on the vision, objective and proposed roadmap proposed for the *WG Smart City* although further fine tuning will be done during the first year of activity;

2. **Persona's grid** - *Key conclusion* - Participants agree on the need to be an effective community able to collaborate with continuity not only during on site meetings. Participants



appreciate the PoP-C tool which has been presented. It was agreed to organize an online workshop (1h) to test the tool and to discuss its fine tuning towards its effective use in the framework of EERA JPSC;

3. Project in a nutshell - Key conclusion - Paola presented shortly projects of some of the members and Mine presented her idea for a new research project. Participants agree on the concise format proposed and on the need to share a synthetic description of completed or ongoing project highlighting results in terms of methodology, technologies, tools and platforms.

It is deemed necessary to share knowledge not only on existing project, but also on ideas for new research frontiers.

4. Discussion on thematic area and drivers for Smart City - Key conclusion - Paola presented shortly the idea. There was not any further discussion on this point.

5. Discussion on Smart Energy System Components - Key conclusion - Paola presented the idea. Participants discussed the topic and stated that for this topic it is critical to work at the level of EERA JPSC as the topic refers to the three WGs. It has been suggested to create a transversal sub-group Smart Energy System Components under the coordination of Dorota (tbc)

6. Discussion on Life Cycle thinking - Key conclusion Paola presented the idea. Participants discussed the topic and stated that there is the need to work at the level of EERA JPSC as the topic refers to the three WGs. It has been suggested to create a transversal sub-group Life Cycle Thinking under the coordination of Dorota (tbc)

Key conclusion 6.1: Participants highlights the need to create a sub-group on Energy Communities

7. DUT Partnership call on PED: a project proposal - Key conclusion - Paola presented a project proposal in the framework of DUT call on PED 2023, highlighting the needed expertise to finalize the project proposal. The call for interest is open.

8. A HE project proposal - Key conclusion - Paola presented the idea to develop a HE project proposal based on DUT project proposal

9. Joint paper on EERA JPSC Special Issue - Key conclusion - Paola presented the topic for a joint paper to be published in EERA JPSC Special issue deadline end of November. The topic has to be verified and consistency of PED concept should be assessed in the Climate



City Contract. With the aim to provide further clarifications and information Paola will present the paper concept during the following day in LNEG premises.

MAIN RESULTS

- Need to create an effective community > use of PoP-C tool
- Need for an effective description of on-going/completed projects according a set of output which will be possible to share among EERA JPSC community
- Need to create 2 transversal sub group linking WGs activity (sub-group Life Cycle Thinking + sub-group Smart Energy System Components)
- Participants in WG (Jozsef Kadar, Marios Karmellos, Sivia Soutullo, Gerald Leindecker, Maria Melousi) express their own interest to be involved
- Open call to write a joint paper on “Consistency of PED concept in the Climate City Contract”

TO DOs

- Organize a workshop on PoP-C tool to fine tune according EERAJPSC needs > WHO ENEA team; WHEN early September
- Elaborate a format to describe projects of EERA JPSC member (eventually to collect in a dossier/reel) > WHO and WHEN: further discussion needed during monthly steering committee meeting + external contract
- Sub-group creation to be discussed in monthly steering committee meeting
- Organize a telco with researchers who already declared their interest to be part of the project proposal in the framework of DUT Call 2023 > Sonia & Paola end July
- Write the paper abstract and define the contents > Paper writing Core Team (Paola, Sonia, any others?....participants and contribution from?)

