MAtchUP

D7.4: Results on Collaboration with other EU Projects (lighthouse, NBS) and initiatives and other networks of cities - First version

WP 7, T 7.5

November, 2020, (M38)

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MAtchUP - SCC-1-2016-2017

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Technical References

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Project Coordinator	Ernesto Faubel Ayuntamiento de Valencia efaubel@valencia.es
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Acronyms

Acronym	Description
ANT	ANTALYA METROPOLITAN MUNICIPALITY
BoC	Board of Coordinators
CAR	FUNDACION CARTIF (in brief CARTIF)
CEN	European Committee for Standardization
CENELEC	European Committee for Electrotechnical Standardization
CoM	Compact of Mayors Office
COMO	Covenant of Mayors Office
CSA	Coordination and support action
DEM	DE SURDURULEBILIR ENERJI VE INSAAT SANAYI TICARET IMITED SIRKETI
DoA	Description of the Action
DRE	LANDESHAUPTSTADT DRESDEN
EC	European Commission
EIP	European Innovation Partnerships
ETSI	European Telecommunications Standards Institute
EU	European Union
FW	Follower city
GCoM	Global Covenant of Mayors for Climate & Energy
HER	HERZLIYA MUNICIPALITY
ICE	FONDAZIONE ICONS
JRC	Joint Research Centre

Acronym	Description
KER	KERAVA KAUPUNKI
KoM	Kick-off Meeting
KVE	KVELOCE
LH	Lighthouse
LNV	FUNDACION DE LA COMUNITAT VALENCIANA PARA LA PROMOCION ESTRATEGICA EL DESARROLLO Y LA INNOVACION URBANA
MS	Milestone
NBS	Nature Based Solutions
NoC	Network of Interest
OST	STAD OOSTENDE
PED	Positive Energy District
SAM	SAMPAS BILISIM VE ILETISIM SISTEMLERI SANAYI VE TICARET A.S.
SCC	Smart Cities and Communities
SCIS	Smart Cities Information System
SDO	Standard Developing Organisation
SEAP	Sustainable Energy Action Plan
SECAP	Sustainable Energy and Climate Action Plan
SKOP	CITY OF SKOPJE
TEC	FUNDACION TECNALIA RESEARCH & INNOVATION (in brief Tecnalia)
TG	Task Group
UBIEFE	UNIVERSITA COMMERCIALE LUIGI BOCCONI
VAL	Ayuntamiento de Valencia
VTT	VTT TECHNICAL RESEARCH CENTRE OF FINLAND Ltd (in brief VTT)

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0 **Abstract**

The main goal of D7.4 is to collect the first results achieved by MAtchUP partners, with regards to the collaboration with EU projects, initiatives and networks.

The current deliverable is divided into 4 main chapters based on the different results achieved:

- T7.2 - Collaboration with Lighthouse Cooperation Network. This is the most advanced task and the richest in terms of results and information available, thanks to the early start of the collaboration among SCC01 projects.
- T7.3 – Collaboration with other EU initiatives. Here the focus is the collaboration with other EU initiatives relevant to MAtchUP's goals.
- T7.5 – Other networks of cities. This task aims at creating links and connections with other EU and non-EU cities, networks of cities and Smart City initiatives worldwide. The final goal is the creation of a MAtchUP Network of Cities as mean of collaboration, replication and knowledge transfer
- T7.6 – Other SCC projects like NBS. The goal of this task is to create a direct cooperation with the projects funded under the SCC-02 in order to contribute to the creation of new economic opportunities

The current deliverable will showcase the first results achieved by these different areas of collaboration. MAtchUP partners have agreed that the second half of the project is the best moment to increase the collaboration activities and put the MAtchUP replication methodology developed in the first half into practice. Therefore, the results available in D7.4 are to be considered as preliminary achievements. The activity will continue until the end of the project, and the final results will be collected in D7.6 (M60).

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1 Introduction

A smart city can be understood as a complex system where all its elements cooperate to reach a common goal, namely the improvement of the citizens' wellbeing, through systems integration and efficiency and citizen engagement. However, to keep on improving and learn from each other, smart cities have to commit to share the knowledge acquired and the results achieved during their lifespan in order to facilitate replication and foster innovation.

With this commitment in mind, WP7, and specifically T7.2, T7.3, T7.5 and T7.6, is devoted to enabling collaboration between further projects, initiatives, and networks in Europe and beyond. This is seen as one of the key activities to boost the replication potential and to create a real added value far beyond the end of the project.

1.1 Objectives of the deliverable

This deliverable aims at providing a first overview of the collaborations strengthened along the first 3 years of the project and the results achieved through these collaborations. The deliverable wants to demonstrate that collaboration is a critical part of a smart cities' strategy to be innovative and cutting-edge.

The ability to innovate and to create innovation is for sure one of the main characteristics that define a city as smart. According to the existing literature, there are different understandings of the smart city concept for cities' abilities to be innovative. Depending on the kind of initiatives the smart city develops its level and dimension of innovation changes accordingly. Nilssen (2019)[1] proposes four types of smart cities by dimension of smart urban innovation. The four dimensions are:

1. technological innovation, with new practices and services;
2. organisational innovation, which happens internally in public organisations;
3. collaborative innovation, which combines efforts and resources based on the triple helix model (creating synergies among governments, universities and companies);
4. experimental innovation, through a citizen-centric approach.

This deliverable focuses on the collaborative dimension, including also the civil society as additional target of the collaboration activities. Collaboration in MAtchUP is seen as an engine to boost future relationships between the projects' partners and those of the network, to foster replication and contribute to knowledge transfer.

Every chapter of the current deliverable investigates the results achieved by the collaboration with a specific area (e.g. geographic, by topic, by scope) and with specific partners. The collection of the whole results will provide an overview of the extent of MAtchUP collaborations.

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[1] Source: Nilssen, M. (2019[8]), "To the smart city and beyond? Developing a typology of smart urban innovation", Technological Forecasting & Social Change 142, p.98–104.

1.2 Contribution of partners

The following table depicts the main contributions from MAtchUP partners in the development of this deliverable.

Participant short name	Contributions
2-LNV	LNV contributed to the Network of cities by inviting its networks to join
14-ANT	ANT contributed to the Network of cities by inviting its networks to join
15-SAM	SAM contributed to the Network of cities by inviting its networks to join
20-VTT	Leader of the Task T7.3 VTT is one of the main contributors to this deliverable and the main contribution is in chapter 3.
21-CAR	Leader of the Tasks T7.2 and T7.6 CAR is one of the main contributors to this deliverable and its main contribution is in chapter 2 and 5. CAR contributed to the Network of cities by inviting its networks to join
23-ICE	Leader of the Task T7.5 ICE is the leader of this deliverable and the main contributor of chapter 4. ICE invited its networks to join the Network of cities
24-TEC	Leader of the WP7 and of the Tasks T7.1 and T7.4 TEC is not contributing in this deliverable but participates to the revision.
26-OST	OST contributed to the Network of cities by inviting its networks to join
28-KER	KER contributed to the Network of cities by inviting its networks to join

Table 1 - Contribution of partners

1.3 Relation to other activities in the project

The following table depicts the main relationship of this deliverable to other activities (or deliverables) developed within the MAtchUP Project and that should be considered along with this document for further understanding of its contents.

Deliverable Number	Relation
D7.1 & D7.5	Deliverables D7.1 (1st version) and D7.5 (final version) are aimed at describing the Collaboration Secretariat in MAtchUP, i.e. providing the (1) the general objectives of the Collaboration Secretariat, (2) the structure and organization of the Collaboration Secretariat, and (3) the main procedures ongoing through the Collaboration Secretariat.

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D7.2	Deliverable D7.2 identifies those networks and entities with which the project is collaborating.
D8.1	Deliverable D8.1 (and its updates D8.11 and D8.12) contains a list of clustering, knowledge transfer and dissemination activities with other H2020 SCC projects, as well as tools and channels to supports the actions.
D8.8	Deliverable D8.8 (and its future update D8.13 and D8.14) includes the exhaustive list of communication activities (editorial production, press and news releases, newsletters etc.) used to communicate the collaboration activities within SCC01 projects and the joint actions with other platforms and networks.
D8.9	Deliverable 8.9 contains the exhaustive list of partners' attendances to and organisation of events. The list includes the events in collaboration with the SCC01 projects, NBS, study tours, international conferences etc.

Table 2 - Main relationship of D7.4 with other activities

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2 Collaboration with Lighthouse projects (T7.2)

2.1 Objective of T7.2

MAtchUP is committed to collaborate with ongoing funded projects under SCC1 call of Horizon 2020 research and innovation Programme. As is shown in the figure below, the network of interest includes 18 projects from 7 different calls.
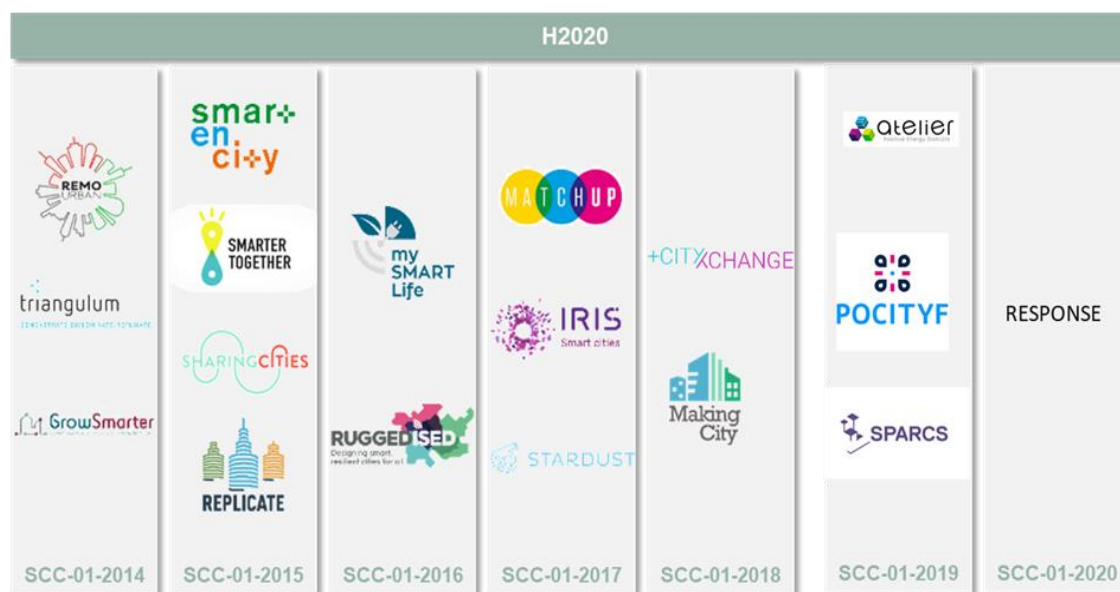
Figure 2.1 - Current LH projects in the collaboration framework

As part of the strategy defined in the project, the concrete objectives for collaboration with this network of LH projects are as follow:

- Learn from experiences gained and lessons learned in other LH projects.
- Transfer results of the projects to other LH projects.
- Support and promote most relevant SCC-01 organized events and news.

Whereas the activities identified to meet these objectives correspond with:

- Participation on the management and working groups (Board of Coordinators and Task groups, respectively) organized by the Lighthouse Cooperation Network.
- Promotion of a new Task Group dedicated to SECAP for aligning the activities in the lighthouse projects dedicated to city transformation, integrated planning and impacts evaluation.
- Participation in activities organized by the Lighthouse Cooperation Network.
- Organization of collaborative activities with ongoing SCC1 lighthouse projects.
- Joint communication and dissemination activities with SCC1 lighthouse projects

2.2 Methodology

CARTIF has the leadership of this task due to the coordination of several ongoing LH projects (REMOURBAN, mySMARTLife and Making Cities) and the participation in

SmartEnCity and ATELIER as Work Package Leader. Additionally, the task is supported by Tecnalia, ICE and VTT as partners that take part in the MAtchUP Collaboration Secretary and that also coordinate or take part in several LH projects (see D7.2 for more details). Therefore, this core group has established strong relations with 9 out of 18 ongoing SCC01 projects. Moreover, such relationships cover at least one project from each SCC01 call with the only exception of the SCC-01-2020 where only one project was funded.

- SCC-01-2014: Remourban
- SCC-01-2015: SmartEnCity, REPLICATE
- SCC-01-2016: mySMARTLife
- SCC-01-2017: Startdust
- SCC-01-2018: Making Cities
- SCC-01-2019: ATELIER, POCITYF, SPARCS

On other hand, the partners involved in MAtchUP Collaboration Secretary has defined a strategy to ensure the appropriate collaboration of MAtchUP with other LH projects that consists of:

- **Definition of the interest of the collaboration**

The Collaboration Secretary has explored the most relevant topics, success experiences and potential collaborative actions for partners involved in WP7. Thus, with the purpose to define a collaboration strategy at project level, diverse activities such as workshops, surveys and interviews have been performed in different moments of the project as rooms for discussion among partners. See D7.2 to find the opportunities of collaboration defined with ongoing LH projects.

- **Extend the Network of MAtchUP with LH projects**

As second step, the existing relationships among MAtchUP partners and ongoing LH projects have been identified in order to know the initial status of the consortium in the SCC01 network. On other hand, the participation of MAtchUP partners in events organized by the LH Cooperation group has supposed in all the cases an activity of networking and has helped to exchange ideas and agree in further collaboration with city and technical partners from other LH projects. On the other hand, a close contact has been established with sister projects of MAtchUP (IRIS and Stardust) through several joint events and meetings (e.g. joint event in Stavanger in 2018, Replicate event in San Sebastian in 2019, EUSEW webinar 2020 etc).

- **Encourage the collaboration among MAtchUP and LH projects**

To promote the participation of MAtchUP partners in events and foster the knowledge exchange, the consortium has been regularly informed about the activities organized in the framework of LH projects through email, newsletters, social network and during monthly audio meeting of WP7 and WP8. Additionally, CARTIF has listed the existing events in the field of Smart and Sustainable Cities with a description of the agendas, topics and other details of the events for helping partners in the decision making process held in their entities to determine the most suitable events to attend. Moreover, members

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of the Collaboration Secretary have accompanied MAtchUP partners in the preparation of collaborative activities as the webinar for the EUSEW in 2020.

In the case of Task Groups, MAtchUP has at least one representative per task group.

- **Compiling the collaboration performed among MAtchUP and LH projects**

In order to track the MAtchUP collaborative activities and the achievements reached, several templates have been designed and shared among partners. Through a dedicated template, for instance, WP8 collects all the events attended/organised and the publications released by partners. Another template collects the experiences acquired in the activities organized by the LH Cooperation network as well as the usefulness of the knowledge gained for the project.

2.3 Main results up to M38

This section collects the activities performed with the LH network from the beginning of the project until November 2020 (M38). Note that results reported in subsection 2.3.3 cover only until September 2020.

2.3.1 Participation in the management and working groups

The first step related to the collaboration with SCC01 projects was the signature of the Cooperation Manifesto. This manifesto was signed in Lisbon on 12th April 2018 during the Board of Coordinators Meeting organised in this lighthouse city by the SCC project Sharing Cities.

Figure 2.2 - MAtchUP project coordinator signing the Cooperation Manifesto

Parallelly, MAtchUP partners decided to join to all existing Task Groups in order to reinforce the link with the network. Then, VTT and KVELOCE co-chaired the new Monitoring & Evaluation Task Group after a dedicated participation in activities around this topic in the Replication Task Group.

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Task Groups	MAtchUP partners involved
Communications Task Group	ICE
Replication Task Group	CARTIF
Business models and finance Task Group	UBIEFE
Data Task Group	SAM, VTT
Monitoring & Evaluation Task Group	VTT, KVELOCE

Table 3 - Current Task Groups and partners from MAtchUP involved in each group

An overview of these initiatives, the activities, the results, and main benefits for MAtchUP is reported in Annex 1.

2.3.2 Promotion of a new Task group dedicated to SECAP

MAtchUP Project has the commitment to propose the creation of a specific task group on SEAPs/SECAP to establish a good framework for sharing experiences around the SECAP and urban transformation processes developed in LH and follower cities from the LH projects network.

On the other hand, this Task Group could be an opportunity to gather insights from other LH projects to be reported in guidelines that MAtchUP will develop at the end of the project as result of the work performed with cities in WP1 (Urban transformation: planning, upscaling & replication) and WP5 (Technical, social and economic evaluation). Specifically, the project will have to transfer guidelines on how to improve/adapt the development and monitoring of SEAPs/SECAPs to the CoM and JRC in a specific task of WP7 (Collaboration).

The developments on SEAP/SECAP performed in MAtchUP is shown in Figure 2.3.

WP1 *(Urban transformation process)*	**WP5** *(evaluation framework)*

WP2 (Valencia) A 51. Collaboration with COMO to communicate SECAP Experiences

WP3 (Dresden) A 57. Collaboration with COMO to communicate SECAP Experiences

WP4 (Antalya) A38. Collaboration with COMO to communicate SECAP Experiences

WP7 *(collaboration with CoM, JRC)* ← **New TG SECAP**
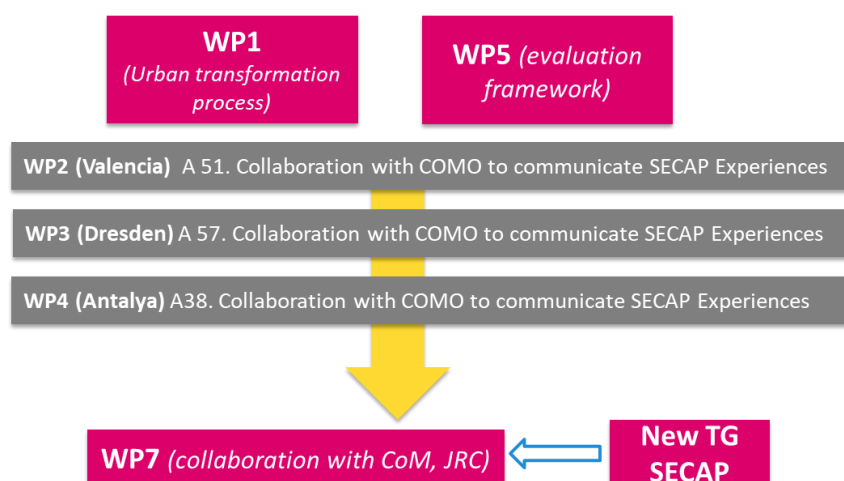
Figure 2.3 - SEAP/SECAP developments in MAtchUP

For the creation of a new TG on SECAP, diverse options were explored by CARTIF as Task Leader and shared with Tecnalia (TEC) as WP7 Leader. As first option, it was contemplated to include this topic in the Replication Task Group since this was the Group that works closest with cities. After conversations with chair and co-chairs of Replication Task group, SECAP topic was introduced in three monthly audios of the TG: January, February and March 2020.

- **January 2020**: topic was suggested, and TG participants showed interest in SEAP/SECAP as opportunity for replication.

- **February 2020**: ICLEI provided an overview of SEAP-SECAP processes, whereas CARTIF's session was about how to align Replication plans with SEAP/SECAP processes to boost the replication of solutions from LH projects in follower and LH cities.

  The session aimed to answer "why SEAPs/SECAPs are proposed on the TG Replication agenda" and "how TG Replication members could support the alignment of SEAP/SECAP and outcomes of SCC1 projects (replication plans & Lighthouse solutions)".

  The session dealt with:

  o How SCC01 projects are contributing to reach environmental targets and an improvement in air quality and in climate through:
    - the implementation of demonstrative actions.
    - the development of an Urban Transformation Strategy and a City vision in integrated Urban Plans.
    - the definition of replication/upscale plans with specific investment plans from the solutions developed within the projects to deliver it within a few years of the project's end.
  o How SCCO1 projects and SEAP/SECAP have same targets: timeline (2030), sectors (buildings, city infrastructures, mobility) and pillars (energy & climate).

- o Challenges to overcome to boost the replication of SCC01 solutions since SCC01 projects are not part of SEAP/SECAP process due to:
  - Different timeline: SEAP/SECAP processes follow the municipality timeline, whereas LH projects depend on the work plan established in the Grant Agreement with the European Commission.
  - Municipality roles: Local Government supervises SEAP/SECAP processes, whereas only staff from municipality are involved in SCC01 projects.
- o A further challenge linked to plans addressed at different scales: NECP (National energy and climate plans) and SEAP/SECAP at city level.
- o Replication plans and SEAP/SECAP processes should be linked and connected with NECP and this could be the collaboration framework where to work in replication TG.

- **March 2020**: since the alignment of SECAP development with urban planning performed in LH projects is of high interest for the network, CARTIF, as coordinator of several SCC01 projects, communicated to the chair of the BoC the intention to propose a new task group for this topic. However, due to Covid-19, the last BoC meeting held in March 2020 was dedicated to evaluating the impacts of the pandemic in LH projects and the SECAP proposal was not included in the agenda.

- **Current status**: With the new tender SCALE, launched by the EU Commission, the process was interrupted in view of further instructions by SCALE and the BoC.

2.3.3 Participation in activities organised by the Lighthouse Cooperation Network

MAtchUP partners have participated in different events related to smart and sustainable events with the intention to learn and share knowledge related to the deployment of smart solutions in cities.

This section focuses on the collaborative activities organised by the Community of LH projects where MAtchUP partners have been involved from the beginning of the Project until September 2020. This information can be completed with the list of events included in D7.2 and the complete list of events that the consortium has attended added in D8.9.

EUSEW: European Energy Sustainable Week (2018, Brussels, Belgium – 2020, online)

MAtchUP partners attended in this big event in the editions of 2018 and 2020. This event, considered as the biggest event in Europe dedicated to a policy conference on renewables and efficient energy use, is also considered one of the key events of MAtchUP.

In the edition of 2018, both VTT and ICE attended several conferences, technical sessions and workshops like:

- "*How to make your City more liveable and climate friendly*" organized by SCIS

- *"Energy Poverty - Inclusive Clean Energy Transition and Best Practice"*

- *"Energy Union, Smart Cities and Covenant of Mayors - Matching Cities and Finance*" organized by CoM

- *"The Impact of the Electrification of Bus Fleets on the Electricity System"*

- *"Shaping an integrated market with hot findings and cool solutions"* and workshops

- "The contribution of energy smart solutions to social cohesion in cities", organised by the LH projects RUGGEDISED, GrowSmarter, REMOURBAN, REPLICATE

- Finally, partners participated in networking activities for renovation residential districts promoted by R2CITIES, a Smart City project from FP7 Program.

In the case of VTT, as leader of the MAtchUP evaluation activities (WP5), the EUSEW 2018 was the starting point to discuss with SCIS about the development, collection and management of data of Smart City solutions implemented in LH.

For the case of the edition June 2020, the EUSEW was held online, due to COVID-19 restrictions. On this occasion MAtchUP lead the side event "Cities – Can we deliver a Green Deal?", and several partners participated as audience, namely: 4 cities (Valencia, Antalya, Kerava, Skopje), two city partners (ETRA, DWG) and 4 technical partners (Tecnalia, CARTIF, ICE, DEM, SAM, VTT).
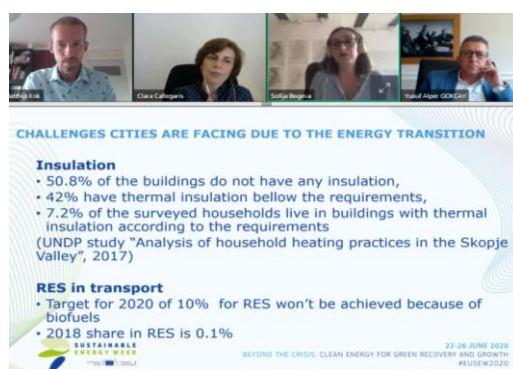
Figure 2.4 - EUSEW session: Cities- Can we deliver a Green Deal?

Within the webinar, MAtchUP attendees had the chance to know how cities cope with the energy transition through the shared experiences of Skopje, Antalya, Milano and Utrecht. The speech of MAtchUP LH city Antalya focused on renewable high performance district Additionally, they could listen a set of relevant insights from the Secretary General of EUROCITIES about how the European Green Deal and the climate pacts in cities are keys for the reduction of GHG emissions and how Covid-19 could be

a good opportunity to reconnect stakeholders and citizens in the path to face Climate Change. Special interest for Valencia and Antalya partners were V2G bi-directional charging ecosystems since these initiatives take part of MAtchUP actions (Valencia) or are possible strategies to enhance the existing mobility and provide RES in transportation (Antalya). For Turkey, where the e-Vehicle usage and charging networks are still developing in early stages, the presented charging systems and V2G shared car model was a quite interesting learning for the identification of difficulties and challenges to overcome. Finally, strategies, trends and estimations for the future shown in this session was very relevant for all attendees.

SCCO1 & Sharing Cities conference at Portugal Smart Cities summit (2018, Lisbon, Portugal)

Sharing Cities project organized this face to face conference in Lisbon in April 2018 to which representatives from SCC01 projects were invited. The event was hosting with the Portugal Smart Cities Summit, an event organized by Lisbon to bring together smart city experts and representatives from various Portuguese cities.

Representatives of the twelve Smart City Lighthouse projects met to re-sign the manifesto of cooperation with the new funded projects under the H2020-SCC-01-2017 call: MAtchUP, IRIS and Stardust.

Figure 2.5 - LH projects coordinators in Sharing Cities event

Three workshops were organized around the following topics:

- Analysis of business models, use cases, case studies and technical specifications of building retrofitting solutions and smart lighting solutions.
- Branding exercise following the example of Rotterdam in order to guide the group through the strategic needs for branding and agree the approach for the next steps in the path to test this strategy in other cities
- Study visits and a Board of Coordinators meeting were held as well

VAL, Tecnalia, ICE and UBIEFE participated in this event to learn from effective solutions to be replicated, common barriers identified and overcome and to discuss in the BoC and Task groups meetings for continuing collaborating among LH projects.

BY&FORCITIZENS Conference (2018, Valladolid, Spain)

The backbone of this conference held in September 2018 in the city of Valladolid (Spain) were the EU funded projects R2CITIES, CITyFiED, REMOURBAN, mySMARTLife and Urban Green Up, coordinated by CARTIF.

The programme consisted of keynote speakers, panel debates, smart sessions, technical visits together with a programme of activities for the citizens and the general public across the city. The event also gathered experts in city transformation strategies, like smart city approaches, re-naturing of cities, circular economy and innovative ecosystems, where citizens are at the centre of the city regeneration towards more sustainable and more liveable environments.

VAL, CAR, TEC, ICE, KVE and VTT attended to this conference to learn more about the experiences gained by the participants and to make the knowledge available for MAtchUP. But also, MAtchUP partners such as ICE and KVELOCE participated in a panel focused on how citizens can be positioned and engaged as the centre of the urban transformation where citizen engagement approach followed in Valencia was shown as well as other knowledge gained by ICE in the participation of several smart city initiatives and projects.

Figure 2.6 - ICE & KVELOCE at BY&FORCITIZENS

The material of the event can be found in the conference website.

Nordic Edge Expo (2018-2019, Stavanger, Norway)

This meeting place for Smart City professionals is organised annually by Stavanger Lighthouse city (Triangulum project) as occasion for SCC01 projects to share and transfer knowledge.

The edition of 2018 was attended by 12 LH projects, with specific sessions networking occasions and talked to foster replication and upscaling of Smart City Solutions among

the SCC01 Community. Also, Task Groups workshops, a BoC meeting, and a visit to the local demonstrations in Stavanger were organised.

Figure 2.7 - Nordic Edge Expo

Six MAtchUP partners participated in this event. Specifically, 2 cities (Valencia and Skopje) and 4 technical partners, leaders of the replication, evaluation, business model and dissemination WPs. Also, MAtchUP consortium was also represented by the coordinator, Ernesto Faubel.

The following sessions were specifically dedicated to knowledge exchange among LH projects:

Meet the new LH cities & replication workshop

This event opened with the presentation of the three new LH projects (MAtchUP, IRIS, Stardust) and continued with roundtable discussions among the lighthouse and follower cities to answer these questions:

- What the cities need in order to replicate?
- What the cities offer to achieve replication?

Internal Communication and Dissemination Session

A session tailored for communication coordinators to discuss common challenges and opportunities in a structured workshop for a better understanding of current work, objectives and communication needs for the different projects and cities.

MAtchUP was represented by ICE which also showed the communication strategy followed in REMOURBAN and Stardust (indeed, ICE is D&C leader of the three projects).

Figure 2.8 - ICE participation in Nordic Edge

Follower City Replication Workshop

Replication Task group in collaboration with INEA organised this event as a follow-up event to the Follower City Workshop organised by INEA on 26th of January 2018, where also the city of Valencia and Ostend were involved.

This event consisted of two roundtable sessions where municipal representatives and their partners presented best practices and discussed on barriers they face for each topic covered. The aim was to facilitate knowledge transfer among the SCC01 community to facilitate the implementation of Smart city Solutions.

SCC01 Task Force Meetings

MAtchUP partners participated in face-to-face meetings of the BoC (Ernesto Faubel-Coordinator) and Task Groups as follow: Replication (CARTIF), Business models (UBIEFE) and Dissemination (ICE).

Smart City Expo World Congress (2017- 2018- 2019, Barcelona, Spain)

The Smart City Expo is the perfect occasion to gather the European Lighthouse cities but also to share experiences and to listen to keynote speakers.

MAtchUP partners that participated in this event are:

- Year 2017: VAL, ICE
- Year 2018: VAL, DRE, SAM, UBIEFE, ICE, Tecnalia and CARTIF
- Year 2019: VAL, LNV, DRE, ICE, DEM

SCC01 projects shared a joint stand to join forces in paving the way towards a sustainable and smart future. This stand was equipped with a multitouch tool, a joint SCC01 interactive tool which displays several details of all LH projects. Also, the stand hosted several workshops organised by LH projects together with SCIS and EIP-Marketplace.

Figure 2.9 - Smart City Expo World Congress

On occasion of the 2017 edition of the Smart City Expo World Congress in Barcelona (14-16 November 2017), MAtchUP was represented at the joint SCC01 stand by the coordinator (VAL) and the C&D leader (ICE).

In 2018, MAtchUP partners were part of the joint stand of the SCC1 projects and attended panel discussions and meeting other Lighthouse Cities to exchange experiences in topics such as retrofitting, mobility and citizen engagement, being the main interest to learn about barriers and solutions found in elder projects to apply in the administration of MAtchUP. Additionally, Dr. Michael Anz, Dresden local project leader, had the possibility to discuss with other lighthouse cities in the mobility Agora session and disseminate Dresden mobility solutions.
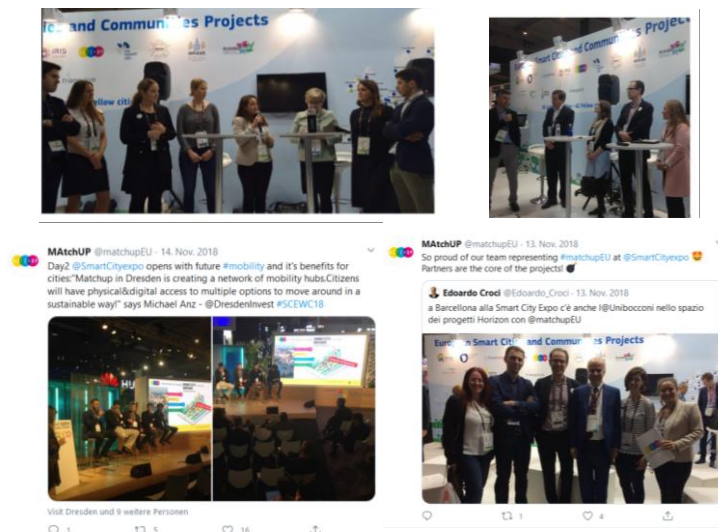
Figure 2.10 - MAtchUP partners in SCEW (2018)

In 2019, the joint European Smart Cities and Communities Lighthouse projects organized three so-called Agora Sessions covering various Smart City areas. VAL, DRE, EASD and ICE participated in these sessions and explored new ideas and discussed with other cities and technical partners about barriers for the implementation of Smart city solutions in the fields of Energy, Mobility, ICT and the monitoring process. Additionally, DRE, EASD and other companies from Dresden joined the Smart City Expo World Congress with an own exhibition stand. This decision was taken in the previous edition for the interest found for connecting with other cities and also with companies. LNV participated as a speaker in one of the sessions held in the stand.

Figure 2.11 - Dresden partners in SCEW Congress (2019)

Smart Cities and Communities network event organized by the Replicate SCC1 project (2019, San Sebastian, Spain)

This event was organised by REPLICATE, the chairing project of the Board of Coordinators, in collaboration with EIP-SCC and SCIS and was hosted by the city of San Sebastian in March 2019. The two-day event consisted of:

- A plenary session with the participation of public authorities from San Sebastian, the European Commission and high-level speakers sharing their knowledge and vision about the smart cities.
- 6 sessions on specific topics about the future of Smart Cities, the scalability of smart solutions and the retrofitting of districts to turn them into sustainable and smart buildings.
- A study visit to the Smart District in San Sebastian where the impacts and the lessons learnt were presented.

Figure 2.12 - LH projects coordinators in Replicate event

The purpose of the two-day summit was to foster further collaboration, exchange knowledge and to welcome the two new projects MAKING-CITY and +CityxChange to the LHs family. An amended manifesto of cooperation between the 14 projects was signed.

MAtchUP partners VAL (LH and Project coordinator), Tecnalia (Leader of WP collaboration and main contributor in WP Urban planning and replication), ICE (D&C leader), VTT (Leader of WP evaluation), KVELOCE (Task leader about citizen engagement and social evaluation) attended several workshops.

Special relevance of this event for MAtchUP was the participation of VTT and KVELOCE in the Task Group of Replicability since was the moment where it was decided to work with monitoring issues in a new TG. Additionally, some workshops were very inspired for WP1 developments such as WS "The Energy Transition; Key Questions in Policy, Economy and Society" & "Transformation of districts on sustainable and smart building" that were focused in the energy and sustainability issues of cities involved in the transformation process to become smarter and green cities.

Smart Cities and Communities network event organized by the Smarter Together SCC1 project (2019, Lyon, France)

In October 2019 Smarter together project organised the face-to-face conference where five different sessions were organised:

- 'Buildings energy retrofit', dedicated to Process & funding for energy retrofitting works, business models and energy performance.
- 'Urban Data platforms & services', which focused on city platform, urban data platforms and the development/funding of new services.
- 'Renewable energy infrastructures in urban areas' for the development and funding of renewable energy production & distribution.
- 'Urban Mobility', to discuss about the different business models, operation of mobility stations and mobility services (including electric mobility).
- 'Well-being in the city', dedicated to all aspects related to buildings and well-being in order to make our cities more friendly for elderly people.

VAL, ICE, VTT, KVELOCE and CARTIF represented MAtchUP at this event and participated in the different sessions.

Figure 2.13 - LH projects coordinators in Smarter Together event

REMOURBAN Final Conference (2020, Online)

REMOURBAN project held its successful final conference on 16 of July 2020 in online-mode due to Covid-19 restrictions. REMOURBAN walked the attendees through their actions and achievements in the three Lighthouse cities, Nottingham, Eskişehir/Tepebaşı and Valladolid while looking ahead to how all this can shape the urban and environmental policymaking in the years to come.

The session was introduced by the European Commission and the coordinator of REMOURBAN and continued with several keynote speeches about the role of the cities to transform the economy, the SECAPs as drivers for smart and sustainable cities and Resilient cities for the upcoming challenges.

Finally, the conference showed the messages from 5 LH and follower cities' mayors and a panel debate on replicating and scaling-up smart strategies and solutions. The

And the final panel, moderated by Eelco Kruizinga from EIP-SCC, was held by the representatives of 5 LH projects: Baha Kuban (REMOURBAN), Albert Engels (RUGGEDISED), Edoardo Croci (MAtchUP) and Luigi D'Oriano (POCITYF).

Figure 2.14 - UBIEFE in REMOURBAN Conference (I)

UBIEFE showed the approach followed in MAtchUP to support the transferability of solutions through business models.
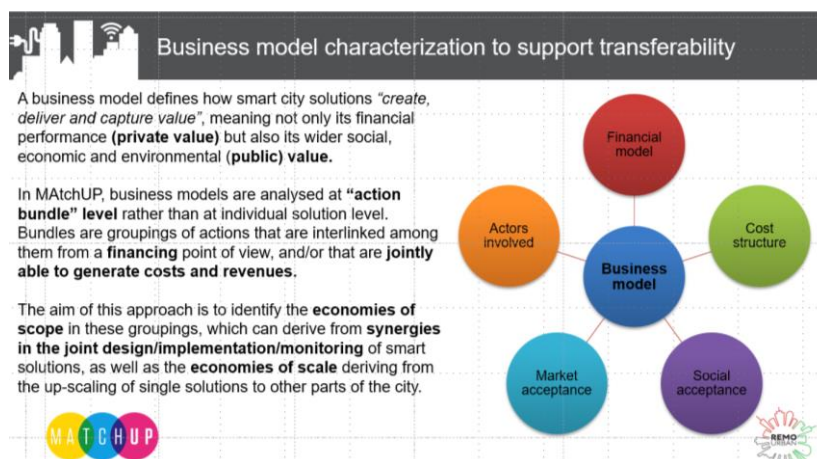
Figure 2.15 - UBIEFE in REMOURBAN Conference (II)

The material of the event can be found in Remourban website. http://www.remourban.eu.

MAtchUP partners attending to this interesting conference were VAL, CARTIF, DEM, ICE and UBIEFE.

EC Horizon Europe Mission Board for climate-neutral and smart cities: "Citizen engagement practices towards climate neutrality"

SPARCS project partners co-organizing an event about "Citizen engagement best practices" in Helsinki on March 24th 2020 in cooperation with the Mission Board on Climate-neutral and Smart City.

Interesting reflections where provided by experts about "Why citizens are important in the transition towards climate neutrality and "Impact of citizen engagement". Six LH projects (SPARCS, Smarter Together, Stardust, MAtchUP, mySMARTLife and POCITYF) presented success stories and challenges about citizen engagement in smart

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cities. Ernesto Faubel, MAtchUP coordinator, showed the citizen's engagement strategy of the project. Also VTT and ICE attended to this event.

Kerava involvement in Smart Finish Cities collaboration group

In Finland, a network of cities participating in SCC01 projects has been created and it currently involves six cities: LH Helsinki (mySMARTLife), FC Kerava (MAtchUP), LH Oulu (Making City), LH Tampere (Stardust), FC Vaasa (IRIS), LH Espoo (SPARCS). LH Turku (Response) is expected to be involved.

This network was created when the first four project started with the cities of Helsinki, Tampere, Kerava and Vaasa to share experiences and lessons learnt. Currently, 1-3 people are participating from each city, being Johanna Kuusisto and Emmi Malin, the representatives of Kerava. For this city, this initiative is very relevant to get valuable information about actions tested in cities of the same country and is paving the way towards replication.

Every six months the network hold either face-to-face or virtual meetings, with presentations of smart actions implemented as well as study tours. Local partners are involved as well in order to extend the knowledge generated to the stakeholders of the cities.

One of the main achievements of the Finnish network was the one-day replication workshop held in January 2020 in the city of Tampere titled "Success Stories and Development Challenges of Carbon Neutral and Energy-efficient Mobility, Building and Energy from Finnish Lighthouse Projects". In this event, each city showed a case study, showing Kerava the experiences gained during the <u>developing of carbon neutral public transport.</u>

Other initiatives plan are the join presentation and papers for conferences at national and international level. Thus, cities have a channel of communication with Teams for sharing documents generated for the meetings.

Other collaborations of Dresden with the LH Network

The city of Dresden performed several meetings with other LH cities participating in the SCC01 Network such as:

Two meetings with LH Leipzing from SPARCS and other German cities (Chemnitz and Halle) on 17th of April 2019 and 5th of March 2020 in Leizpig (Germany). The first meeting introduced the participants and provided an overview of the status of smart solutions in the cities, whereas second meeting focused on further exchange of implementation status and barriers found.

Study tour held in Dresden on 6th of January 2020 to show Vienna LH from Smarter Together the MAtchUP solutions implemented in Johannstadt district.

On the other hand, German cities that participate in LH projects maintain a close contact to put in common experiences gained. One of the challenges to tackle is the development of a joint policy paper among the cities of Munich (Smarter together), Hamburg (mySMARTLife), Dresden (MAtchUP), and Cologne (GrowSmarter). The final document was released in August 2019 and spread at the congress for national urban policy in Stuttgart in September 2019. The document was also translated into English in

November 2019 for spreading the policy paper internationally at the Smart City Expo in 2019.

2.3.4 Organisation of collaborative activities with ongoing SCC lighthouse projects

EUSEW side event "Cities-Can we deliver a Green deal?

This event consisted in an online panel session and debate of 90 minutes at the Policy Conference EUSEW held by 10 June 2020 where city leaders and experts from Milan, Utrecht, Skopje and Antalya examined the most effective initiatives to achieve climate neutrality and a green recovery.

The event was co-organised by the EU Smart City projects MAtchUP and IRIS in collaboration with EIT Climate-Kic, Comune di Milano, Sharing Cities Project, Consorzio Poliedra and Greater London Authority. It's been disseminate on the MAtchUP website.

Figure 2.16 - Launch card of the EUSEW side event lead by MAtchUP

The session provided participants with successful examples of solutions contributing to Green Deal objectives, with a strong focus on new efficient and clean cities on regard on the energy generation and consumption as well as sustainable urban mobility.

The session consisted of:

- Introduction - Anna-Lisa Boni (EuroCities) (7')
- Brief explanation of the challenges cities are facing due to the energy transition - Skopje (7'). SkopjeLab is an innovative Lab that aims to improve governance by introducing new engagement techniques that enable more meaningful collaboration between various stakeholders, including enterprises, academia and especially connecting the citizens and the public administration to address the city's most pressing challenges.

- New high-performance district - Antalya (10'). In Antalya, local government is working in the development of new smart districts and making the city a smart service hub of the region at the same time that modernize the agricultural sector and maximise resource efficiency while diversifying the tourism sector. The session was focused in the description of the most interesting solutions implemented in the city as part of MAtchUP project.
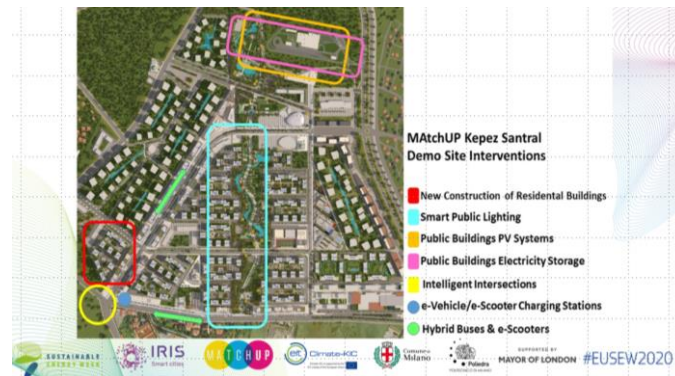
Figure 2.17 - Antalya demo site in EUSEW MAtchUP event

- Building retrofitting in a district and replication of this solution based on co-working with building owners – Milano (10'). Milano presented the co-design process involving citizens and owners that leaded at the identification and implementation of deep retrofitting interventions on five private buildings (more than 29.000 sqm and 1.000 residents affected by the initiative) with an average energy saving of 60%.
- V2G bi-directional charging ecosystem – Utrecht (10'). Utrecht's living lab for smart energy management is transforming the way energy is managed, while driving a sustainable mobility revolution. Through a fully bidirectional ecosystem, combining electric cars, renewable energy, and storage in vehicles and stationary batteries, Utrecht has created a virtual power plant that reduces stress on the grid, while unlocking the financial value of flexibility in supply and demand of energy. It enables the city to have 25,000 electric cars by 2025, boosting the city's goal to be energy-neutral in 2030.
- Discussion with the audience (40'). To setting the scene for European cities, moderator Anna Lisa Boni, Secretary General of EUROCITIES lead this slot of time dedicated to solve doubts from participants and exchange impressions on how can cities inspire broader society and business of all sizes to take up the energy and sustainability challenge and how develop skills, capacity and mindsets to deliver on the Green Deal
- Final remarks by the moderator (5')

The event was of particular interest to development agencies, EU and national policymakers, urban planners, energy companies and authorities and mobility management and delivery organisations in particular. Final audience consisted of 97 people and 151 registered participants.

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Smart City response to COVID-19 webinar

The SCC01 projects MAtchUP, Sharing Cities and Replicate organised a joint webinar: "The Smart City response to COVID-19" on 29th of May 2020. The webinar focused on smart solutions and tools to tackle the current pandemic, with a close eye on the future application of such innovative solutions. The webinar was an outcome of the #SmartCitiesHelp social media campaign (see below). Approx. 180 people attended the online event.

The webinar was opened by a representative of the EC. On behalf of MAtchUP, the coordinator Ernesto Faubel showed the leading role of Valencia in the UN task force "Emergency response to COVID19" whereas Gema Roig from Las Naves introduced the initiative "Frena La Curva", a citizen-based platform to channel and organize social emergency and civic resilience to the Covid-19 pandemic.

2.3.5 Joint communication and dissemination activities with SCC01 lighthouse projects

MAtchUP Project makes a joint communication and dissemination activities with other SCC01 projects via mutual and frequent interactions on social media and with cross-references on MAtchUP newsletters.

On social media, while all the projects maintain individual accounts, there are regular cross-referencing and cross-linking among SCC01 projects to increase interactions and reach a wider community. The common hashtag used to accompany the communication via the projects' Twitter accounts is #EU SmartCities. A joint YouTube account is also available at this link:

 https://www.youtube.com/channel/UChPCzf64phTFphIX9jR3XbA/playlists

Additionally, all the projects host a dedicated page or section on the SCC01 projects' network on their websites and usually promote news from other projects in their newsletters. The SCC01 projects are jointly represented in a specific section of both the SCIS and the EIP-SCC Marketplace website and the SCIS & EIP-SCC Newsletters include news of the SCC01 projects.
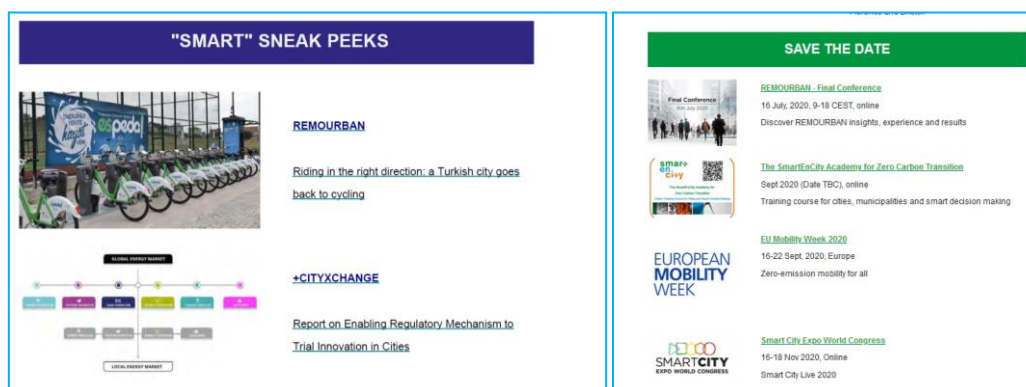
Figure 2.18 - Examples of SCC01 projects featured in MAtchUP newsletters

During conferences and exhibitions, a Multitouch tool, co-financed by the SCC01 projects members is used. This touch technology of the tool make it very user-friendly and, allow visitors to discover the different energy, mobility, ICT solutions of the lighthouse cities.

Furthermore, three joint campaigns on social media were launched in 2020 by ICE, who shared the idea among all the SCC01 projects. Two campaigns were dedicated to the COVID-19 pandemic, as a way to highlight the SCC01 mission in terms of social support and inclusion, also thanks to smart solutions that were readapted to face some new challenges of the pandemic, and to bring citizens of the SCC01 projects' cities and beyond closer together during the lockdown.

- **#CityFromMyWindow**: asking people to share pics from their home. A way to feel a little closer despite social distancing, to show our cities from a different perspective and to get a range of nice and unusual pictures of our smart and green cities. This campaign has been a success in term of participation, both from project partners and citizens.
- **#SmartCitiesHelp**: to communicate how our EU cities can help face the current COVID-19 pandemic and its consequences on society. ICE involved local partners in the activity, contacting the local correspondents directly asking for news on how they were facing the pandemic in their respective cities and how smart cities solutions could be used to manage it. They sent information, links and images on the activities of their cities. With such information, one card for each Lighthouse city was created to communicate how smart solutions (technical and non-technical) could help.

Figure 2.19 - Social media campaigns during Covid pandemic

More than 50 SCC01 cities were involved in this initiative, including MAtchUP cities. For the #CityFromMyWindow campaign, 511 mentions of the hashtag were gathered, with a potential audience of more than 87,000 Twitter users. The #SmartCitiesHelp campaign had a record of 213 social mentions with a potential audience of 82,600.

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Given the success of the first two joint campaigns, the #WeMoveSmart campaign was organised on occasion of the 2020 EU Mobility Week. A joint press release was produced by ICE and distributed to the SCC01 projects.

- #WeMoveSmart: the social media campaign was launched on occasion of the EU Mobility Week 2020 (16-22 September 2020) and aimed at engaging citizens on smart mobility solutions and behaviour but also at giving the SCC01 projects a possibility to share their smart mobility solutions through a joint hashtag. The campaign was supported by a pre-event news release, including a quote from the EC project officer and intensive efforts to involve the SCC01 cities in launching the campaign at local level.

Figure 2.20 - Social media campaign in EU Mobility Week

Overall, the campaign generated 719 social mentions with a potential audience of more than 286,900. After the campaign ICE launched a survey among the MAtchUP cities which joined the campaign to collect feedback from this experience. The outcomes and recommendations were shared with the SCC01 D&C TG for future joint social media campaigns.

2.4 Contribution from partners/Relation with other activities

Regarding the Task Groups, technical partners such as CARTIF, VTT, KVELOCE, ICE and SAM have participated in all the ongoing TG and in the case of VTT and KVE in the co-leadership of the new TG related to Monitoring & Evaluation. On other hand, CAR has been studied the possibilities to create a new TG related to SECAP and introduced this topic in some of audios held in TG replicability. On the other hand, VAL as coordinator has been involved in all the discussion in the BoC.

For the case of the participation in events, MAtchUP partners have participated in those that have considered of interest (*e.g. CARTIF in Smart City Expo World Congress, Nordic Edge Expo and EUSEW, Tecnalia in Smart City Expo World Congress, EUSEW, Smart Cities and Communities network event organized by the Replicate SCC01 project). But also* MAtchUP partners have been invited for their expertise to events organized by the LH network. For example, UBIEFE, KVELOCE and ICE participated in REMOURBAN Final Conference and By&ForCitizens Conference, respectively or DRE

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told about success solutions in the city in in Agora sessions in Smart City Expo World Congress. Finally, it has to remark the co-organization of events with other LH projects (e.g. EUSEW, Smart City response to COVID-19 webinar and Social Campaign for the EU Mobility Week) where ICE, Tecnalia and CARTIF have been involved. Finally, ICE contributed to the dissemination of events organized by the LH projects, whereas Kerava and Dresden have been in contact with other cities from national LH groups to exchange experiences gained.

2.5 Next steps

MAtchUP partners will continue participating in all TGs to learn and share knowledge with the network of LH as well as participating in activities organized by ongoing LH projects. Moreover, VTT and KVELOCE will continue the co-leadership of the Monitoring & Evaluation Task Group as well as the new initiative on Social Evaluation as part of this TG that is currently promoted by KVELOCE.

Additionally, since the project is entering in the fourth year of execution, MAtchUP partners will focus the activities of WP7 in the development of specific collaboration activities. Thus, Task 7.2 activities will focus on the topics and collaboration identified by cities and partners and will count on the support of the Collaborative Secretary of MAtchUP. On the other side, the cooperation between WP7 (Collaboration) and WP8 (Dissemination & Communication) will be increased to get higher impacts of the activities towards other cities and potential early adopters.

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3 Collaboration with other EU initiatives (T7.3)

3.1 Objective of T7.3

Task 7.3. contributes to overall objective of WP 7, which is to ensure the appropriate collaboration of MAtchUP with other relevant Smart Cities initiatives and projects to maximise knowledge exchange, impact and replication.

According to the DoA, the main goal of the "Task 7.3: Collaboration with other EU initiatives (CITYkeys, ESPRESSO, SCIS, JPI Urban Europe, EIP-SCC)", led by VTT, is:

The Secretariat will establish as well the cooperation means with other SCC initiatives, as the cross-cutting actions of CITYkeys and ESPRESSO, with which technical collaboration will be implemented in the fields of Smart City indicators and Standards for Smart Cities, and with SCIS, to which information will be provided to feed the indicators defined within this platform. Participation of technical partners, but especially from cities, will be sought.

In parallel, MAtchUP will collaborate with other initiatives as the European Innovation Partnership on Smart Cities and Communities, the Coordination Group and ISO 37151 on Standardisation of Smart Cities Performance, the EERA Smart Cities, Mayors in Action and 50000 AND 1 SEAP.

3.2 Methodology

At the beginning of task T7.3, an internal survey (VTT) about existing activities related to the initiatives within scope was conducted, as many types of contacts already exist and it is in the interest of WP7 to take advantage of already existing links and connections.

Further steps in fostering multiple forms of collaboration have been developed based on existing activities and connections. This process has received contributions from all partners as is presented in the following description of results.

3.3 Main results up to M38

The main kind of activities or procedures performed in T7.3 can be summarized as follows:

- Mapping - with a survey - the existing contacts and collaborations of the MAtchUP partners with the relevant initiatives to build MAtchUP activities upon them,
- Recognizing and utilizing useful inputs from the initiatives within the scope of this task in the various WPs of the MAtchUP project,
- Establishing contacts and an active cooperative relationship with European networks and initiatives related to Smart Cities topics,
- Advising and helping MAtchUP partners to carry out the functions to be part of a network or to participate in events / initiatives and so on, with the collaboration of the "Management of the Collaboration Secretariat in MAtchUP" team if necessary,

- Identifying topics of common interest for MAtchUP partners and for each of the networks and initiatives contacted and
- Fostering the participation of all the partners involved in the Collaboration Secretariat and in MAtchUP project, with European networks and initiatives related to Smart Cities topics.
- Concrete results of cooperation are SCIS video Story featuring Kerava, Finland (MAtchUP). See in:
- https://smartcities-infosystem.eu/newsroom/news/travel-share-learn-new-video-kerava-matchup and inclusion of Valencia in SCIS solution booklet BUILDING ENVELOPE RETROFIT SOLUTION BOOKLET (Available in SCIS website)

A summary of already completed and ongoing or planned collaborative activities with networks and initiatives relevant to MAtchUP are presented in Figure 3.1.

	COMPLETED	ONGOING / PLANNED	
CITYkeys*	Used KPI's to guide indicator framework development in the project.		
ESPRESSO*	Summary of key issues in ESPRESSO for MAtchUP partners produced	ESPRESSO architecture and findings used for guidance in planning city data platforms	
SCIS	Meeting held in Brussels for a dialogue on KPI and API development	Procedure and instructions developed for providing SCIS with pilot data	Data transmission from pilots to SCIS
JPI Urban Europe	Surveying of project partners' interests in future JPI UE projects	Dialogue with JPI Urban Europe in developing their activities	JPI Urban Europe project idea development leading to project proposals
EIP-SCC	Project partners' activities in EIP-SCC have been surveyed	Peer-to-peer information exchange on experiences and good practices, partner contributions to EIP-SCC's ongoing activities	
EERA Smart Cities	Project partners' activities in EERA have been surveyed	Peer-to-peer information exchange on experiences and good practices, partner contributions to EERA's ongoing activities	
Mayors in Action	Support of follower cities in SEAP/SECAP with reference to the approaches and guides from Mayors in action and 50000&1SEAP	Partner SEAP/SECAPs submission process ongoing with reference to approaches and guides from Mayors in action and 50000&1SEAP	
50000&1SEAP*			

*Completed initiatives

Figure 3.1 Summary of completed and planned activities regarding European initiatives relevant to MAtchUP

The figure will be updated as the activities progress.

A deep analysis has been conducted (VTT, CAR, SAM) on the opportunities of applying indicators from SCIS (Smart Cities Information System), CITYkeys and ESPRESSO in WP1 and in WP5, leading to numerous references to the said initiatives in MAtchUP indicators, more details are given in D1.1 Report on indicators, tools and methods for advanced city modelling and diagnosis, D5.1 Technical evaluation procedure, D5.2 – Economic evaluation framework and in D 5.3 Social acceptance evaluation framework . In addition to this, the aim of the analysis was also to find relations or potential common

interest in working also with European initiatives on the indicators issue. A step forward has been the establishment of the new IEA EBC Annex 83 on Positive Energy Districts, with major contributions from MAtchUP partners, where international work on relevant definitions and indicators can be coordinated. The Annex has begun its work in 2020.

The architecture from ESPRESSO has been studied by platform developers (VTT, SAM) in order to find useful inputs for MAtchUP project. These results have been distributed in summary form to the MAtchUP partners as an annex to D5.1. In particular the following items have been identified as useful for MAtchUP:

- 3D City Modeling applied in the Tartu (Tartu is currently LH city from SmartEnCity) case examined by ESPRESSO.

- Comprehensive work done in the ESPRESSO regarding interoperability.

- Reference architecture of ESPRESSO looks promising and could be a good model for our cities' platforms, this will be examined more deeply as the development of the platforms progresses.

- ESPRESSO's proposed "Smart City Information Framework" based on the open standards.

With SCIS, a dialogue has been conducted on KPI and API development with the aim of finding improvement potential in the procedures including avenues for further automation of the process. The monitoring and evaluation Task Group is also in collaboration with SCIS. Moreover, procedure and instructions have been developed (VTT) for partners for providing SCIS with pilot data. The partner cities have begun delivering data to SCIS based on the communicated instructions.

Regarding JPI Urban Europe, the project partners' interests in future JPI Urban Europe projects has been surveyed. Furthermore, MAtchUP has ongoing dialogues with JPI Urban Europe regarding the topics close to MAtchUP's focus areas through the project partners, taking the form of event participation and providing comments to development work within JPI Urban Europe. In particular, Framework Definition of PED/PENs has been supported by providing findings of the MAtchUP team to JPI Urban Europe. JPI Urban Europe calls are followed for topics relevant to MAtchUP partners for potential new project proposals.

EIP-SCC and EERA Smart Cities are European networks for development of Smart City topics and information exchange. The MAtchUP partnership is very active in EIP-SCC, with more than one partner participating in all of EIP-SCC's clusters. These activities are listed in the reporting on event participation and presentations in WP8. Within EERA the consortium has also participated in providing comments to ongoing development, including KPI development work, which was supported in the EERA JPSC Plenary Session of December 2019 by presenting the results of KPI development in MAtchUP.

Within MAtchUP there is support for the follower cities in SEAP/SECAP with reference to the approaches and guides from Mayors in action and 50000&1SEAP. In particular these will be used (CAR) in the preparation of guidelines on SECAP to be elaborated in WP1 and WP5 and reported in respective deliverables of those WPs.

Finally, the MAtchUP consortium has had a key role in developing the new IEA-EBC Annex 83 on Positive Energy Districts with VTT acting as the operating agent of the Annex with other partners taking also an active role (Demir Enerji, CARTIF, Tecnalia and Fraunhofer).

3.4 Contribution from partners/Relation with other activities

The following Table 4 depicts the main contributions from participating partners in the development of this deliverable in relation to Task 7.3. Moreover, a detailed listing of the partner participation in various events, publications and other forms of collaboration relevant to Task 7.3 has been collected in WP8.

Participant short name	Contributions
VTT	VTT has the main responsibility of Task 7.3., meaning overall management of the reported activities. Moreover, VTT has had a lead role in establishing IEA EBC Annex 83 for continued international collaboration on MAtchUP topics. VTT also participates in the dialogue with SCIS and has created the guidance on SCIS reporting to the partner cities.
CAR	CARTIF manages collaborative activities in a number of LH projects, which makes to be active in EIP-SCC, EERA and IEA EBC Annex 83. Lead role of CAR in WP1 means that they have managed the application CITYkeys, ESPRESSO and ISO 37151 standardisation to KPI definition as well as Mayors in Action and 50000 AND 1 SEAP results to SEAP/SECAP guidance.
TEC	TEC has conducted dialogue with SCIS about city data in MAtchUP and they are supporting ISO in the development of relevant standardization.
LNV VALENCIA	LNV is active in EIP SCC activities, in particular Action Clusters on Citizen Focus and Integrated Infrastructures & Processes (including Open Data) and, moreover, in the working group of Urban platforms. LNV collaborates with the development of ISO 37120 regarding KPIs.
SAM	SAM has analyzed the results of ESPRESSO for potential applicability in MAtchUP and applies the findings in platform development. SAM also participates in sharing information in EIP-SCC.
ICE	ICE manages and coordinates various events, publications and other forms of collaboration relevant to the various projects and initiatives in contact with Task 7.3. ICE also participates in sharing information in EIP-SCC and participates in the dialogue with SCIS.

Table 4 - Main contribution of partners in Task 7.3

The following Table 5 depicts the main relationship of this task to other activities (or deliverables) developed within the MAtchUP project and that should be considered along

with this document for further understanding of its contents. In addition to the below mentioned deliverables inside this work package, this task works closely with city demonstration work packages and especially in defining the baseline and performance monitoring as well as assessment of performance in Lighthouse cities, thus mainly with WP1 and WP5.

WP, Task or Deliverable number	Contributions
WP1 D1.1, WP5 D5.1, D5.2 and D5.3	Analysis on the opportunities of applying indicators from SCIS, CITYkeys and ESPRESSO in WP1 and in WP5, leading to numerous references to the said initiatives in MAtchUP indicators, with details given in D1.1, D5.1, D5.2 and D 5.3.
WP5 D5.8	Standard parameters are provided to identify the most replicable solutions issued from MAtchUP. Recommendations to SCIS and CITYKeys are reported in D5.8.
WP1 D1.20, WP5 D5.9	Analysis of SEAP/SECAP approaches and guidelines from Mayors in action and 50000&1SEAP, application of results is conducted in WP1 and WP5 and reported in respective deliverables D1.20 and D5.9.
WP5 D5.1	The architecture from ESPRESSO has been studied to find useful inputs for MAtchUP, with results summarized in an annex to D5.1
WP8	Detailed listing of the partner participation in various events, publications and other forms of collaboration relevant to Task 7.3 has been contributed to WP8.

Table 5 - Relation of Task 7.3 to other activities in MAtchUP

3.5 Next steps

A summary of ongoing and planned activities is presented in Figure 3.1. Results of Mayors in Action and 50000&1 SEAP are continued to being applied guiding the cities in developing their SEAPs and SECAPs. Regarding city data, collection and delivery of data to SCIS has begun based on the procedure and instructions developed in dialogue with SCIS. Findings of Espresso, and the Smart City architecture developed in it, are being used for guidance in developing the city data platforms in the partner cities. Information exchange on experiences and good practices within the events of activities of EIP-SCC and EERA will continue as MAtchUP progresses. The collaborative development of the new IEA EBC Annex 83, based in part on the results of MAtchUP, is being continued aiming at launching the new Annex in 2020.

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4 Other networks of cities (T7.5)

4.1 Objective of Task 7.5

According to the existing literature, theories of regional growth and local development emphasise the roles of agglomeration and knowledge as the main determinants of growth, whereas the theories of the networks of cities remark that growth is a process not only within cities but also between cities[2].

Therefore, taking into account the theoretical considerations made, the very main objective of Task 7.5 is *to promote widespread acceptance, awareness, replication and dissemination of the Smart City methodology and of the individual solutions implemented in the MAtchUP project, ensuring the transferability of its knowledge and results to the highest number of cities and Networks possible at EU ang global level.*

The task aims at creating links with other EU and non-EU cities and existing networks of cities (NoC) to foster the MAtchUP replication potential. By joining forces with other cities and networks, MAtchUP commits to a continuous process of knowledge transfer and to the replication of its solutions in other cities worldwide. The NoC will be used also as a further dissemination channel and as a test to check the level of interest in and potential replication of the proposed solutions. Besides exchanging documents and reports, cities and networks will be also invited to join or contribute as speakers in MAtchUP webinars, online and offline events (whenever possible), study tours etc.

4.2 Methodology

The Collaboration Secretariat started working on Task 7.5 since January 2019, with the definition of a survey to collect inputs and feedback about collaboration from MAtchUP partners. Concerning the collaboration with other cities and networks of cities, partners listed those they were in contact with (no sensitive information have been shared), and ICE made a dedicated database to collect the specific data. Together with partners, it was agreed to start contacting the networks once the project had first results and reports to share. Therefore, the activity started in the second half of 2020, with the definition of the Network of cities. The creation of the NoC followed several steps which required the effort and the contribution of the whole MAtchUP team:

1. First, as mentioned above, a survey within MAtchUP partners was launched in order to collect names of cities and organisations which they were already in contact with. In line with the GDPR restrictions, no personal information like names, surnames or emails were nor asked neither shared among the partners;

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[2] Rafael Boix, Networks of cities and growth: Theory, Network Identification and Measurement of the Network Externality, 2003

2. ICE drafted a Letter of Interest as formal request to join the network and shared it with MAtchUP partners. The letter specified the commitments from both sides (MAtchUP and the network) as well as the opportunities and the ways of collaboration. The full text of the letter is available in Annex A2;

3. Each project partner invited its own contacts (cities and organisations) to join the new-born MAtchUP NoC. To keep track of the number and names of cities and networks invited to join, ICE distributed a quantitative template to all MAtchUP partners. The full results of the template are reported in Annex A3.

Partner	Name of organisations/cities invited	Names of clusters invited	Number of invitations sent	Number of positive replies received	Names of cities/organisations who join the network	Comments

Table 6 - Quantitative template used to keep track of the invitation activity

4. The letters signed as well as the information provided were shared with ICE, e.g. the description, the logo, the contact point etc. This allows ICE to get in contact with the city/organisation and to include it in the dedicated section online;

5. A map dedicated to the MAtchUP NoC has namely been designed and will be publicly available on the website end of November 2020. The map shows the first cluster level of MAtchUP, composed by the WP7 Collaboration Secretariat, plus the LH and FW cities, and gives relevance to the second cluster level with new-born Network of Cities. Each city/organisation member is displayed in the map. By clicking on the city/organisation, a pop-up box opens and provides the relevant information about the members (description, logo, social networks, website, contact point etc.).
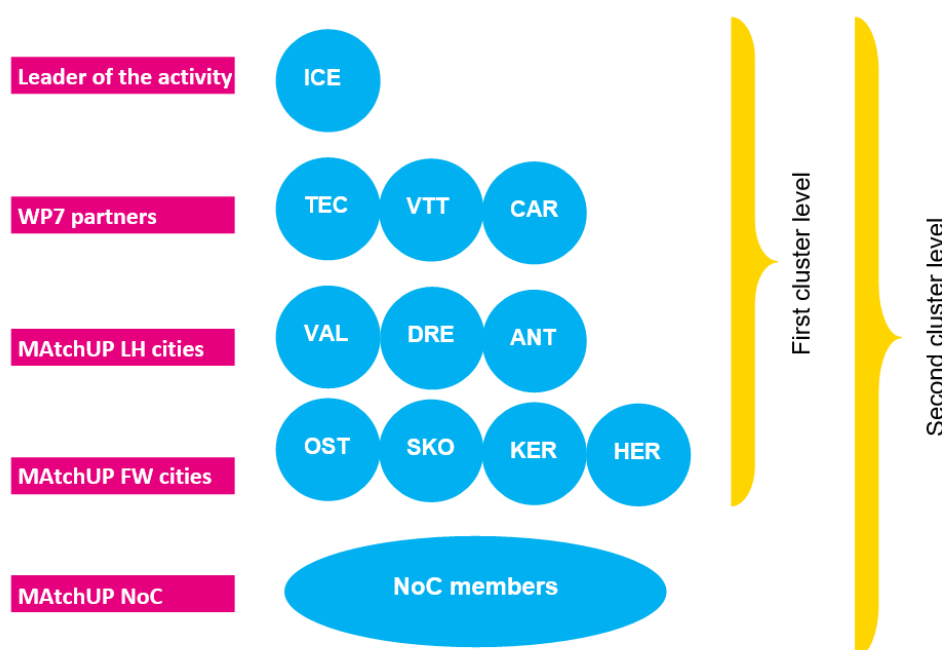
Figure 4.1 - MAtchUP cluster levels

4.3 Main results up to M38

As mentioned above, Task 7.5 has entered into practice in the second half of 2020 (from M33 on). The first activity was the drafting of the letter of interest, the dedicated email to accompany the letter and the quantitative template to collect the results. These three tools were sent to all partners to support their mailing activity and collection of results. The results up to November 2020 can be summarised as follows:

- 6 MAtchUP partners sent out invitations to their contacts
- 171 cities and network of cities have been invited to join the MAtchUP NoC
- Currently the MAtchUP NoC has 4 cities and 6 networks on board. Themselves alone represent 618 cities and organisations, which will can potentially receive MAtchUP's updates and get in touch with the project's results (see Table 7 for cities and Table 8 for networks)
- A dedicated map is being created in the MAtchUP website; the map will show all the links created and will display the related information about the cities/organisations which are part of the MAtchUP NoC (see Figure 4.2)

CITIES	
Name of city	**Country**
City of Sipoo	Finland
City of Kartal	Turkey
City of Genoa	Italy

City of Mantova	Italy

Table 7 - Cities participating in the MAtchUP NoC up to mid November 2020

NETWORKS				
Name of the network	**Country**	**Description**	**Numer of cities represented**	**Further collaborations**
ENEF cities	Ukraine	The Association "Energy Efficient Cities of Ukraine" (EECU) was founded in 2007. Helps local governments dealing with energy policies and issues.	**+90 Ukrainian cities** on board both large and small scale, from all regions of Ukraine	Member of "Energy Cities" and "Climate Alliance". Only national support structure of the Covenant of Mayors in Ukraine.
NALAS	Republic of North Macedonia	Network of associations of local authorities of South East Europe. The NALAS Secretariat, based in Skopje, is responsible for the overall coordination and the implementation of the activities.	**14 Associations** which represent roughly **9000 local authorities**, directly elected by more than 80 million citizens of this region.	
BRULOCALIS	Belgium	The Association of the City and the Municipalities of the Brussels-Capital Region, alias Brulocalis, is an association at the service of the local authorities of the Brussels-Capital Region, created and managed by them.	**19 municipalities** of the Brussels-Capital Region	
WVI	Belgium	Public regional body of the West-Flemish municipalities, that assists municipalities in fulfilling their tasks. WVI, in cooperation with the province of West Flanders, helped 29 municipalities in signing the Covenant of Mayors and now works out 5 Strategic Energy Action Plans. WVI is also regional coordinator for the Flemish Energy Loan.	**54 West-Flemish municipalities**	
SMART CITY CLUSTER	Spain	The SCC is an alliance that improves the quality of life of citizens. The network works in the development of smart cities, understood	**+150 companies and institutions**	

		as efficient, sustainable and comfortable.		
COORDINAMENTO AGENDE 21 LOCALI ITALIANE	Italy	Coordinamento delle Agende 21 Locali italiane is made up of Regions and local authorities that participate in the life of the Association to improve environmental management and to make Sustainable Development a step towards a more equitable future.	**43 provinces + 248 municipalities**	

Table 8 - Networks participating in the MAtchUP NoC up to mid November 2020
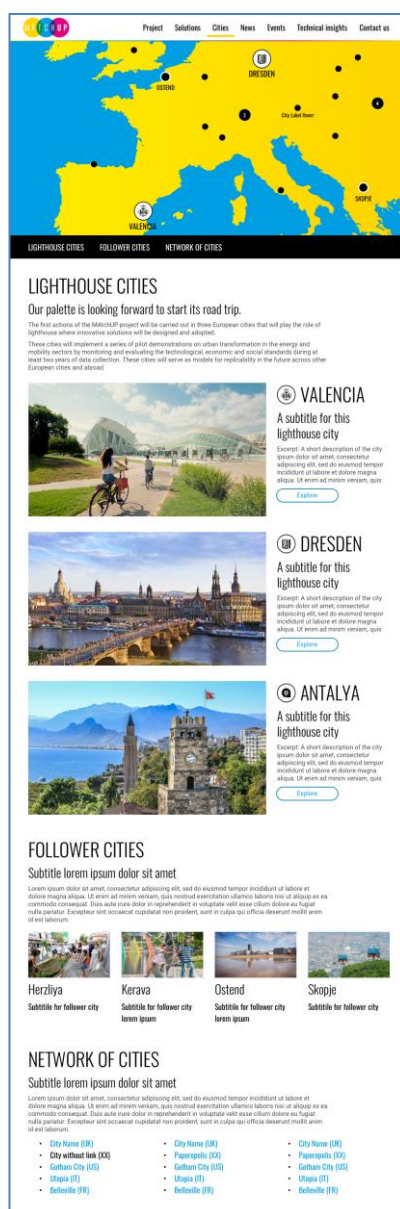
Figure 4.2 - Graphic mock-up of the MAtchUP NoC on the website

The map, to be finalised by end November, will be displayed on the top of the website section "CITIES" and will include the two layers of participation (LH/FW and other networks of cities and organisations). The LH cities will be represented with the dedicated MAtchUP emblem, big black circle will identify FW cities, while the cities and organisations of the network will be represented with smaller circles and their name. When clicking on the name, a pop-up box (Figure 4.3) will open. The box will display a brief description of the city, the links and one picture of the city as background. At the bottom of the page, the exhaustive list of cities belonging to the NoC will be available. By clicking on the name of the city/network the user is redirected to the website of the single member.
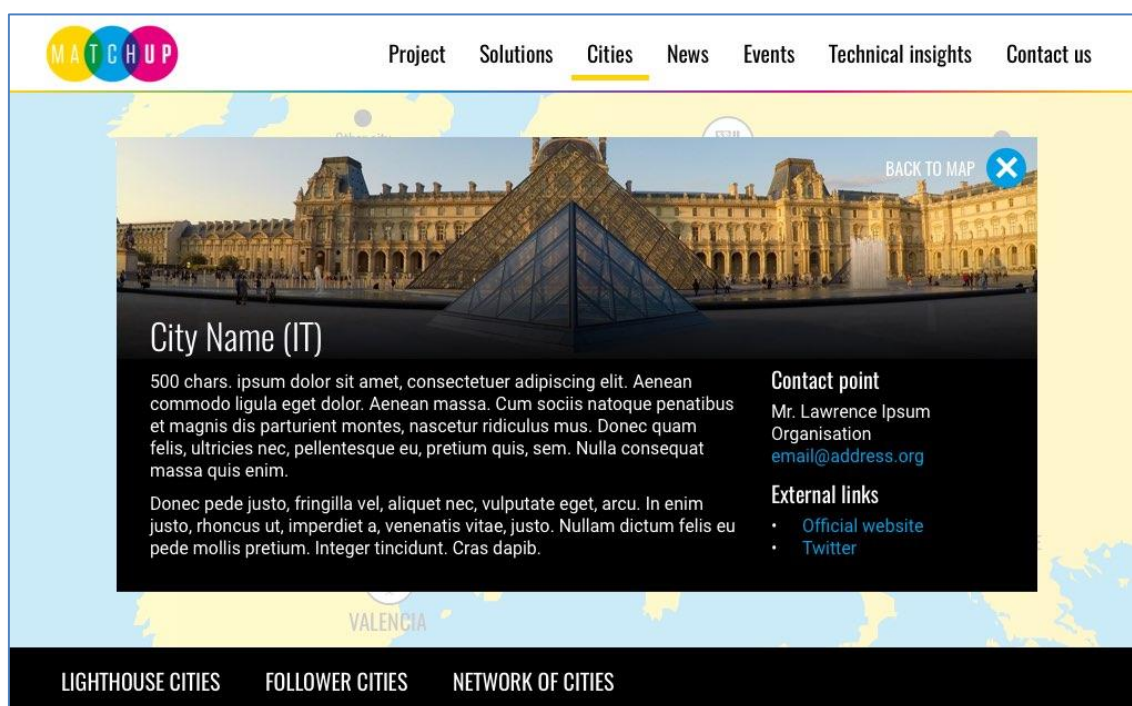
Figure 4.3 - Mock-up of the pop-up box which shows cities' info, links and picture

Even though the MAtchUP objective identified in the DoA is to reach 10 cities and/or networks, the goal of WP7 partners will go far beyond, as the collaboration activity is considered a real added value for MAtchUP. The task has just started and will get more results in the upcoming months. The recruiting of new members for the network is an ongoing activity which will be carried out until the end of the project.

The exhaustive list of invitations sent, and confirmations received is available in Annex A3of the current deliverable.

As stated in the Letter of Interest, by joining the MAtchUP network cities and organisations can benefit of the following advantages:

Benefits of the NoC
Receiving MAtchUP results, updates, communication material in preview
Receiving invitations to MAtchUP webinars, events, conferences and every public event linked to the project
Cross-dissemination done by MatchUP, both on socials and through press/news releases
Receiving MatchUP newsletters specifically designed for the NoC
Having their own space on MAtchUP website
Possibility to get in direct contact with all the NoC members

Table 9 - Benefits of joining the MAtchUP NoC

4.4 Contribution from partners/Relation with other activities

The following table depicts the main contributions from participating partners in the development of this deliverable as far as Task 7.5 is concerned.

Participant short name	Contributions
ICE	ICE is the leader of T7.5 and coordinates the activity. ICE sent out invitations to its networks and set up the Networks of cities' map in the MAtchUP website
CAR	CAR invited its networks and cities to join the MAtchUP NoC
LNV and VAL	LNV and VAL invited its networks and cities to join the MAtchUP NoC
SAM and ANT	SAM and ANT invited its networks and cities to join the MAtchUP NoC
UBIEFE	UBIEFE invited its networks and cities to join the MAtchUP NoC
OST	OST invited its networks to join the MAtchUP NoC
KER	KER invited its sister cities to join the MAtchUP NoC

Table 10 - Main contribution of partners in Task 7.5

4.5 Next steps

Being Task 7.5 just entered into its operative part, the next steps will be the following:

- Reminders to MAtchUP partners to send out invitations to the networks and cities they are already in contact with to invite them to join the MAtchUP NoC
- Finalisation of the map on the MAtchUP website and include the cities/organisations already on board

- Send out the 1st newsletter to the MAtchUP members of NoC to welcome them into the MAtchUP NoC and provide them with the results available so far, to launch the collaboration activity

The implementation of the network is a living and ongoing activity which will continue till the end of the project and will require the efforts and collaboration of all MAtchUP partners.

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5   Other SCC projects like NBS (T7.6)

5.1 Objective of T7.6

MAtchUP is committed to launch a direct cooperation with the SCC02 projects in order to contribute to the creation of new economic opportunities, and new products and services to leverage investments, reduce regulative and administrative barriers and foster the development of local economies.

As part of the strategy defined at this moment in the project, the network of interest includes 12 projects funded through SC02-SCC03 calls as well as a Platform. Further details of these projects are reported in D7.2.

Figure 5.1 - Current SCC2 projects in the collaboration framework

The main objectives expected by the collaboration with this network are the following:

- Cross-transfer of results and lessons learned among MAtchUP and NBS projects.
- Support and promote the most relevant events organised and news published by SCC02 and SCC03 projects.

The activities identified to meet these objectives are the following:

- Participation in activities organised by the NBS Cooperation Network like study tours, conferences and webinars.
- Involvement of NBS projects in activities organised by MAtchUP partners.
- Organisation of joint events and dissemination material with ongoing SCC NBS projects to disseminate common results of the projects (e.g. urban planning and renaturing strategies, demonstrative solutions implemented in the cities, impacts achieved, financial and business models applied, etc).
- Joint communication and dissemination activities with NBS projects.

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5.2 Methodology

CARTIF has the leadership of this task with the support of Tecnalia, VAL, LNV, DEM and ICE. Indeed, all these partners participate in SCC02 and/or SCC03 projects, which facilitate the realisation of collaboration activities.

Thus, this core group is involved in four NBS demonstrative projects, as follows:

- SCC03-2016: Nature4Cities (CARTIF, Tecnalia)
- SCC02-2017: Urban Green UP (CARTIF, ICE, DEM, UBIEFE), Grow Green (Valencia, Las Naves, UPV, Tecnalia), UnaLab (VTT, Fraunhofer)
- SCC02-2018: CLEVER Cities (Tecnalia)

Furthermore, VAL, DRE and ANT are participating in this task in order to learn more about the experiences gained in these projects and to improve their knowledge around these topics to turn their cities into more green and sustainable places.

A strategy has been defined in order to create the path for the collaboration among MAtchUP and the NBS Cooperation Network:

- **Definition of the interest of the collaboration**
  The objectives, activities performed and results of the ongoing NBS projects from Calls SCC02-SCC03 have been identified through a deep analysis of the website of these projects. Finally, the opportunities of collaboration have been defined as "learning and networking to foster the implementation of environment-friendly solutions in the cities through capacity building activities". As a result of the previous exercise, synergies among MAtchUP and NBS projects have been defined and completed with a proposal of ways of collaboration included in D7.2.

- **Encourage the collaboration among MAtchUP and NBS projects**

  A better understanding of the collaboration framework established in NBS projects was required to see the opportunities of collaboration among LH and NBS projects. This is possible thanks to the existing involvement of MAtchUP partners in ongoing NBS projects. Additionally, the Project Coordinator, Ernesto Faubel, signed the NBS project Manifesto on behalf of MAtchUP to show the interest of the project to collaborate with the network of NBS projects. Furthermore, some conversations with staff and coordinators of these projects have been performed to study the possibilities of collaboration. Finally, cities involved in SCC02 projects have been invited to join to the Network of Cities of MAtchUP (see chapter 4). Last but not least, news on NBS projects have been disseminated through the different channels of the project (i.e. Twitter, LinkedIn, website and newsletter).

  In order to facilitate the participation of MAtchUP partners in events organised by the SCC02-SCC03, WP7 members have been informed of these events on a regular basis by email. Also, a list of past and future events has been shared to help partners to decide the most suitable events to attend. This document includes the description of the agendas, topics and other further details and is included in D7.2.

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- **Compiling the collaboration activities performed among MAtchUP and NBS projects**

  In order to track the collaborative activities done in the project and to know the goals achieved, a template has been shared to the participant partners of this task.

5.3 Main results up to M38

This section reports the activities developed in collaboration with the NBS network from the beginning of the task in M13 (October 2018) until M38 (November 2020). So far, the task focused on the definition of the collaboration strategy. However, some collaborative actions have been already performed and are described below:

- **Signature of NBS Manifesto by MAtchUP coordinator**

  The NBS collaboration manifesto was signed via website by the Coordinator of MAtchUP, Ernesto Faubel, The description of the commitments of such signature is available at the following link: https://platform.think-nature.eu/nbs-manifesto.

- **Involvement of MAtchUP cities and cities of NBS projects in city networks**

  Cities working in NBS projects (i.e. all LH and FW cities of Urban Green UP) were invited to take part to the Network of Cities (NoC) created in MAtchUP. As reported in chapter 4, the city of Mantova, FW of Urban Green Up, already signed the Letter of Interest. Cities engaged in this network will be one of the main target groups to focus the collaborative activities to be performed in the project addressed to exchange knowledge and results from the project. On other side, MAtchUP cities were invited to participate in the network of cities from Grow Green.

- **Participation of MAtchUP partners in study tours on NBS**

  MAtchUP partners (VAL, CAR, ICE, VTT, KVE) attended to the study visit "Well-being & nature-based solutions in Lyon-confluence" during the Smart Cities & Communities network held in Lyon (October 2019). This renaturing area had problems related to water management and flood control and was restricted to industry and transport facilities for a long time. To face these challenges, two residential areas have been developed with green/blue spaces and the major highway was retrofitted to create access to the river; also, two additional bridges over the river were developed.

  Furthermore, on the occasion of the 5th project meeting held in Skopje (December 2019), MAtchUP partners attended a technical visit with a specific focus on Skopje NBS actions. The NBS solution visited consisted in the Green Roof of a Shopping Mall that was funded by the City of Skopje with the support of UNDP (United Nations Development Programme). The objective of this project was to help the City of Skopje to mitigate the threats arising from the climate changes, mitigate the heatwaves, air pollution and other threats to the environment.

Figure 5.2 - Technical visit to shopping mall Green Roof

- **Participation of MAtchUP partners in NBS events as speaker**

  In June 2019, MAtchUP Project Coordinator attended the Grow Green General Assembly in Wroclaw (Poland), and presented the methodology for urban planning based on Spatial Analysis, also used in MAtchUP.

- **Participation of MAtchUP partners in NBS events as attendee**

  CAR, TEC, ICE, VTT and KVE participated in BY&FORCITIZENS Conference held in the city of Valladolid (Spain) in September 2018 where SCCO1 projects (R2CITIES, CITyFiED, REMOURBAN, mySMARTLife) and SCCO2 project (Urban Green UP) coordinated by CARTIF were the backbone. A specific session about renaturing cities presented an overview of activities and NBS demonstrative solutions in SCC02 projects (Urban Green UP, Connecting Nature, UNaLab and URBiNAT) as well as in the project Phusicos.

  Programme and presentations of this session can be found in https://byforcitizens.com/

Figure 5.3 - Presentations of SCC02 projects

Furthermore, MAtchUP team of Valencia attended to NBS events such as the Launch of the IUCN Global Standard celebrated in July 2020.

- **Share knowledge among NBS projects and MAtchUP**

  Since MAtchUP and Grow Green share some common partners (VAL, LNV, UPV and TEC), some synergies have flourished since 2017 when both projects started. Additionally, some joint meetings were organised in 2018 to work on the integration of information collected in MAtchUP and Grow Green project in the urban platform of the Municipality of Valencia (VLCi). From MAtchUP side, the progress for integrating

IoT devices was much more advanced and some recommendations were made to Grow Green integration team. Whereas some guidelines were provided by the staff of Grow Green to UPV member of MAtchUP, in terms of integration of information in dashboards using GIS technologies.

- **Joint communication and dissemination activities with NBS projects**

MAtchUP Project makes a joint communication and dissemination activities of other SCC02-03 projects via mutual and frequent interactions with the posted contests on its media channels

Figure 5.4 - Example of retweet of Urban Green Up post on MAtchUP social networks

Figure 5.5 - Joint events of MAtchUP and GrowGreen

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5.4 Contribution from partners/Relation with other activities

CARTIF as task leader analysed the topics on which SCCO2/SCC03 projects work and proposed objectives and activities of collaboration, reported in D7.2. Additionally, both CARTIF and ICE shared events organised by NBS projects to MAtchUP consortium through emails, whereas ICE, as partner responsible of the communication in MAtchUP and Urban GreenUP projects, cross-disseminated news of both projects through social media channels.

On the other hand, the MAtchUP project coordinator and LNV as partners working in MAtchUP and Grow Green projects, are trying the collaboration among these projects, whereas CARTIF has initiated conversations with Urban Green Up coordinator in order to establish future collaboration.

Finally, MAtchUP partners VAL, CARTIF, TEC, ICE, KVE and VTT have participated in events organized in the framework of LH and NBS SCC projects and in some cases as speakers.

5.5 Next steps

Once defined the management structure of NBS projects and analysed the common, further ways or formats to collaborate will be investigated. Specific conversations between partners involved in task T7.6 and coordinators/partners working in SCC02-SCC03 projects will be held in order to align interest and be ready for the preparation of specific activities to learn and share knowledge among projects. All this process will be developed with the collaboration of CAR (Task 7.6 responsible), TEC (Leader of WP7) and ICE (D&C leader) in order to achieve higher impacts in the activities and multiply the opportunities for replication among European cities. Next steps will take the advantage of the participation of several partners in both types of projects (LH and NBS).

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6 Conclusions

To draw first conclusions on results achieved by the collaboration activities carried on so far, the first information to highlight is the great effort and commitment of all MAtchUP partners since the beginning of the project. Having a dedicated collaboration WP is something new to the SCC01 family, hardly wanted by MAtchUP to show how collaboration can increase the potential of future replication and knowledge transfer. The project wanted to give relevance to this activity and to commit a dedicated effort to it in order to have higher results in terms of networking and impacts.

The current report, even though it is a preliminary version, shows that the effort committed has been rewarded by the numerous new relations rose thanks to the networking activities. While the connections and collaboration with SCC01 projects is well-established and fruitful since the very beginning of the project, further relations like those with the EU initiatives, the new born Network of Cities and the SCC02-SCC03 projects started at a later stage. However, these latter relations already provided first results like:

- The engagement with 8 EU initiatives (3 activities completed, 5 still ongoing).
- The connection with 4 EU Smart Cities not related to MAtchUP and 6 Networks of Cities which represents a total of 614 cities which will potentially get in contact with MAtchUP and receive the projects' updates. The objective of the MAtchUP NoC is to get at least 10 cities on board, meaning it can be considered already achieved. However, the activity just started, and the project is committed and has the potential to reach a broader and international network.
- As for SCC02 several cross-dissemination activities and joint events are already ongoing with come NBS project (e.g. Urban Green UP, Grow Green).

All the above-mentioned activities will continue until the end of the project, with the involvement of all MAtchUP partners. This preliminary version will be updated in M60 with a detailed reporting of the results achieved in every task.

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Annex A1. Annex 1: Overview of work developed in Task groups

The community of Lighthouse projects has developed a cooperation structure since 2014 for a better visibility, higher impacts, faster scale-up processes and wider replication and adoption of the smart solutions. This cooperation is coordinated by a Board of Lighthouse projects Coordinators (BoC) and supported currently by six Task Groups (TGs). Each TG is composed of representatives of all running Lighthouse projects, chaired by one Lighthouse project, sometimes supported by one other Lighthouse project.

This annex describes the work performed in the current Task Groups of the LH network and the usefulness of the participation of MAtchUP partners for the project.

Dissemination and Communication Task Group

- **Organization of D&C Task Group**

The Dissemination and Communication Task Group is in charge of managing and centralising all the joint D&C activities of the SCC01 Projects. The leadership of this group is changing every 6 months in line the project taking over the leadership of the Board of Coordinators. The Group organises a virtual meeting every month and physically meets twice/year on occasion of cluster meeting with the other SCC01 Lighthouse projects, organized by the projects leading the BoC and the D&C TG.

- **Roadmap of D&C Task Group**

The first three funded projects, REMOURBAN, Triangulum and GrowSmarter, laid the basis of the SCC01 partnership and collaboration. The first joint dissemination activity dates back to November 2015 at the Urban Future Conference organised by Morgenstadt in Berlin.

With the new SCC01 projects funded in 2016 (MySmartLife and Ruggedised) a more intensive cooperation was set in place and the framework of the ongoing SCC01 cooperation was defined. As part of this framework the D&C Task Group has developed a joint D&C Plan with the last version updated in June 2019. It includes the structure of management involving all of the SCC01 projects, their visions on the D&C activities, key messages, joint communication channels and the strategy to implement the most relevant aspects of this collaboration.

Since its beginning, the activities of the D&C Task Group have been increasing and the group has been enriched by new additional lighthouse projects, joining the 18th SCC01 project in the collaboration framework soon.

The main objectives from joint collaboration in terms of dissemination and collaboration are represented by:

- Higher impacts in terms of outreach, engagement and replication by joining forces and D&C tools and channels (cross-referencing, joint communication tools and channels, etc)
- Time and cost saving from joint participation in events, conferences, fairs, etc.
- Lowering redundancy when addressing specific target groups

The activities foreseen in this task group have the aim to achieve these benefits by outlining the following collaboration key aspects:

- Managing the clustering of messages, tools, targets, channels, etc.
- Establishing a map of events of interest for the projects
- Co-organising the joint SCC01 presence at key European events
- Managing the joint multitouch tool used during exhibitions and key events
- Ensuring a smooth and priority-based implementation of the joint D&C strategy

As of October 2020, the supporting service of the European Commission, through the SCALE initiative, will provide an additional support to the SCC01 joint D&C activities and efforts so far covered by the D&C Task Group.

- **MAtchUP in the D&C Task Group**

ICE, leader of Communication and Dissemination activities in MAtchUP, represents the Project in the D&C Task Group and has joined to the D&C actions that have taken place since the beginning of the project (October 2017). Thus, ICE have shared the project identity (visual and content identity) and all the events developed by the LH network in the channels developed in the project (website, newsletter, social media). The project has created a dedicated section on the MAtchUP website to provide links to the SCC01 network with the direct links to the web pages of all the projects and EU initiatives. Also, annual updates of the Multitouch software tool have been performed with new solutions developed by MAtchUP LH cities and additional information from Follower cities.

On the other side, ICE participated in all the events organised by the LH projects that lead the BoC and contributed to the co-organisation of joint events like Barcelona Smart City Expo World Congress and Nordic Edge Expo. This covered the organisation of the joint presence through workshops and networking activities at the stand, the management of the stand, live tweeting and communications, support to the MAtchUP partners involved in the workshops and in the agora sessions, updates of the Multitouch, meetings with stakeholders at the stand, provision of information about the SCC01 EU funded initiative. Also, as responsible of this task group, ICE participated in the Biannual General Assemblies of the EIP-SCC Marketplace 2018 and 2019 and co-financed the joint SCC01 stand of Barcelona Smart City Expo World Congress (editions 2018 and 2019) as well as the joint SCC01 stand at the Nordic Edge Expo, in 2018.

As conclusion, the MAtchUP dissemination and communication work performed in jointly with SCC01 projects contributes to meet the objectives of the collaboration of this Task group, maximises the impacts in terms of outreach and engagement and consolidates the visibility and reputation of MAtchUP in the smart cities ecosystem at EU and global level.

Replication Task Group

- **Organization of Replication Task Group**

The mission of the Replication task group is to accelerate the demand-driven market uptake, to scaleup the replication potential of Lighthouse projects' solutions in Europe and beyond.

The Group organises monthly audios and physical meeting at least twice a year, connected with the main SCCO1 event organised by project that leads the BoC and the D&C TG. At the time being (November 2020), the role is covered by IRIS and is supported by CityxChange with around 70 members from R&D institutes, cities, and city networks, being 20-30 the attendees in each monthly audio. It is also important to highlight the involvement of SCIS and EIP in the activities organised by this TG.

- **Roadmap of Replication Task Group**

The Replication TG agreed on the following objectives and activities for the period 2018-2021. The description of these in each Action Plan defined is shown below.

- TG Replication: Action Plan 2018 and 2019

Objective 1: Share learning among lighthouse projects to make joint activities and enhance capacity building
Objective 2: Accelerate the take-up of smart city solutions by the follower cities and city interest groups
Objective 3: Highlight the potential of smart solutions and their social and environmental impacts

Activities carried out:

- List of Follower Cities interest in Low Energy districts, Integrated infrastructure and Urban Mobility.
- Identification of the most suitable activities from a set of possibilities like workshops, webinars, study tours, etc.
- Preparation of events according to the expectations of LH project partners.
- Collection of solutions implemented in each LH Project and corresponding KPIs to measure the impacts generated by such actions.
- Gathering success smart solutions in the fields of Energy, Mobility, ICT as well as the barriers and incentives found
- Drafting policy recommendations from Remourban, Triangulum and Grow Smarter in a joint Policy Paper
- Collaboration with SCIS for the development of booklets.

- TG Replication: Action Plan 2020

Objective 1: Knowledge sharing of replication strategies among Lighthouse projects - Gather in the common repository (OneDrive) all Lighthouse project's Deliverables on and tools for replication, especially from the first Lighthouse projects. Examples: replication roadmaps, tool catalogues, toolkits, replication potential assessment tools. - Support and promote SCC01 replication events organised half-yearly by the BoC chair.
Objective 2: Further identification, understanding and uptake of barriers and drivers for replication as encountered in the Lighthouse projects - Support the production of SCIS Solution Booklets realised jointly with Lighthouse projects.

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- Assign barriers encountered in Lighthouse projects to governance levels (local, Member State, European Commission), and identify opportunities for, and initiate, collaborative action between Lighthouse projects.
Objective 3: Supporting EU-regional and Member State networks of SCC01 cities, and other European networks, to accelerate scale-up and replication - Explore how TG Replication can support EU-regional and Member State networks of SCC01 cities to impulse the knowledge transference on LH solutions between SCC01 cities and engage cities outside the SCC01 network in that region / Member State. - Explore how TG Replication can cooperate with other European networks to accelerate the scale-up and replication of Lighthouse solutions.
Objective 4: Collaboration with TG Business Models & Finance - *B*enefit from the work already done by the TG, and to contribute to demand-driven market uptake by supporting and sharing cities' actions towards joint procurement. - One yearly invite to TG BM&F to present their work and plans in TG Replication, and/or organise a joint session.
Objective 5: Cooperation with TG Communication - Cooperate with TG Communication to produce joint SCC01 dissemination materials, and to promote the active participation of Lighthouse projects in key events for replication.
Objective 6: Cooperation with TG Monitoring - *Better, understand and define the replication potential of the solutions.* - Contribute to mapping and alignment of KPIs.

- TG Replication: Action Plan 2020-2021

Objective 1: Knowledge sharing between SCC01 Lighthouse projects on Replication Strategies - Share Lighthouse projects' replication approaches through presentations in TG Replication - Share Lighthouse and Fellow cities' national/regional replication cooperation and approaches through presentations in TG Replication (to be recorded for later reference). - Gather in TG Replication's common repository Lighthouse project's Deliverables on and tools for replication (replication roadmaps, tool catalogues, replication potential assessment tools..). - Support and promote TG Communication's calendar of most relevant SCC-01 organized webinars/events, and Lighthouse project's joint participation in these webinars/events. - Support TG Monitoring's mapping and alignment of Lighthouse project's KPIs for replication.
Objective 2: Knowledge sharing between the SCC01 Lighthouse projects on Barriers and Drivers for Replication as experienced by the SCC01 Fellow Cities' ecosystems - Share Fellow City replication experiences, identify barriers for replication at national and European level, through presentations in TG Replication - Support the production of SCIS Solution Booklets in co-creation with Lighthouse projects. - Promote and support SCC01, EIP-SCC/SCIS/Smart City Market Place replication events.
Objective 3: Collaborate with European networks outside SCC01 to accelerate scale-up and replication - Establish cooperation with European Strategic Energy Technology (SET) Plan Action 3.2 (June 2018) to identify added value for SCC01 projects, and to provide evidence/experience-based input to upcoming joint calls, the Horizon Europe Driving Urban Transitions Partnership, and other strategic priorities.

- Establish cooperation with <u>European Energy Research Alliance (EERA) Joint Programme Smart Cities (JPSC)</u> to identify added value for SCC01 projects regarding methodology for PEBs/PEDs planning, definition, implementation, monitoring and evaluation, and qualification and replication of solutions and processes, and to provide evidence/experience-based support to cities in the next 2-5-10 years.
Objective 4: Contribute to research in support of replication Research questions raised in TG Replication 2019-2020: - What has been replicated by FCs in Lighthouse projects, and what can be learnt from it? - How to capture replication outside of Lighthouse projects, and what can be learnt from it? - Could there be value in development of a joint vision on replication, or a joint replication methodology, to be able to study and understand better what works and what not? - What is the role of business modelling in replication, notably in relation to cities' business models and financing for sustainability?

- **MAtchUP in the Replication Task Group**

  As Leader of WP1 (Urban Transformation: Planning, Upscaling & replication), Task 7.2 (Collaboration with Lighthouse Cooperation Network) and Task 7.6 (Collaboration with Other SSC projects as NBS). CARTIF represents MAtchUP in the Replication Task Group

  The participation in this task from the beginning of the project was key to learning about the initiatives involved in the LH network such as SCIS, EIP-SCC, EUROCITIES and recently SCALE. Also, its participation was crucial to stay tuned on the collaboration activities performed among LH and FW cities in some countries like Finland and Spain or approaches followed from other LH projects in the path towards the replication of LH solutions. The strategies deployed in this Task Group through the annual Actions Plans were a source of inspiration for the definition of collaborative strategies among MAtchUP partners to boost the collaboration of the project with other LH and NBS projects.

  Finally, MAtchUP contributed to provide the feedback required in the different activities deployed in the TG such as the mapping of solutions implemented in MAtchUP, KPIs defined in the project or impacts expected in DoA as well as to provide suggestions on how to focus the future work of the Task Group.

Business Models & Finance Task Group

- **Organisation of Business Model & Finance Task Group**

  The Business Model & Finance Task Group organises monthly audios and dedicated meetings/workshops, usually on the occasion of the SCC01 meetings and EIP-SCC assemblies.

- **Roadmap of Business Model & Finance Task Group**

  The "SCC01s Action Plan for 2018" had the strategic objective of accelerating collaboration between the projects and cities and make significant progress towards achieving the aims of the EIP-SCC and the Commission. It included the following activities for the BM&F Task Group:

- Develop joint business models on five areas for proven technology that are ready for adoption. These areas are public housing retrofit, e-buses, charging for e-vehicles, smart lampposts and data platforms.
- Support Replication Task Force to activate and aggregate demand in cities.
- Engage with investment community and identify viable sources of funding.
- Ensure that pre-procurement activity is underway on at least two joint business models.
- Liaise with the EIP Action Cluster and their investment initiatives.

A "Packaging activity" on four main measures (Humble Lamppost, eBike, Social Housing, Data Platform) was started, which consisted of identifying common elements in what cities are doing, capturing what a measure is and how to implement it, in order to support replication, strengthen city decision making, deliver cheaper solutions and create a scale market.

SCC01 projects shared their respective BM&F approaches (during audio meetings and workshops, e.g. in Barcelona), in order to identify synergies, best practices and tools to improve effectiveness, and support accelerated scale adoption of smart city business models in the EU market.

The "SCC01s Action Plan for 2019" brought forward these activities, with the following tasks:

- Packaging: Pull together an 'Alpha' portfolio of measure packaging materials; align SCIS contribution with packaging; share the approach with the European Commission and INEA;
- BM&F Methods: map synergies, identify common definition of terms, identify and work some common approaches and tools;
- BM&F Toolkit: outline of a set of BM&F tools for cities and develop a plan for delivery;
- Joint work with Replication task group to jointly support overall market scale-up activities.

An activity to define relevant terminology on BM&F was started, to define a common ground for conversations among SCC01 partners and other stakeholders of the Smart city solutions market.

It was proposed to build on the review of BM&F methods adopted in the SCC01 projects to outline a Lighthouse BM&F toolkit which could be useful for cities interested in engaging on smart city solutions. The BM&F Toolkit focuses on business models & financing approaches, methods, and tools in use across the SCC01s to identify how the projects and the market can benefit from common tools and experience sharing. Discussions on the BM&F toolkit took place during audio meetings and workshops (e.g. Lyon).

The "Cross SCC01s BM&F Group – 2020 Plan" has the overarching goal to *"Collaborate across the portfolio of SCC01s to build tools and capacity that support scale adoption of smart city solutions enabled by the creation of business models and financing mechanisms that justify and attract investment, exploit past and*

planned Horizon investments, and result in maximised public value and market growth."

Activities foreseen by the plan include:

- Packaging: Finalise the 'alpha' portfolio of measure packaging, to provide consistent, quality guidance and tools that cities and the broader market can use with confidence;
- "BM&F Toolkit": compare, contrast, extract best practices from the various SCC01 approaches to produce an initial set of practical tools;
- Alignment across Task Groups & SCC01 Community transitioning to a more productive matrix-based cross-SCC01 operating model, sharing lessons, and developing greater commonality of solutions;
- Broader Market Engagement: in collaboration with EIP-SCC Marketplace, Networks, etc

As packaging moved forward, it was proposed to link it with the idea of "Transition Tracks", which provide a longer-term strategic roadmap on how a city addresses thematic areas of change (e.g. PED as a combined set of solutions that help a city transition; including electrification; district heating etc).

A "Deliverable Mapping" activity was carried out to identify the deliverables within SCC01s that might offer insights on BM&F as an initial inventory to feed the "BM&F Toolkit". The mapping was carried out through a dedicated template where the SCC1 programs described and categorized their deliverables relevant to BM&F topics, to highlight the synergies among them.

New activities on Positive Energy Districts were started, given the involvement of five new projects which foresaw this concept. It was proposed to organize workshops on PEDs regarding BM&F strategies and governance, which are key topics for PEDs.

Actions to promote further interactions and collaboration across Task Groups have been promoted (e.g. organization of joint workshops), in particular between the BM&F Groups and Replication one, as well as discussions on how to better use the resources available for collaboration across the SCC01 projects.

- **MAtchUP in the Business Model & Finance Task Group**
  UBIEFE, as partner of MAtchUP responsible for the WP on business models, is involved in this task group.

As part of its involvement in the Task Group, UBIEFE:

- Periodically takes part in the Task Group activities, (audio meetings and meetings/workshops);
- Shares the status of MAtchUP activities on business models with the other participants;
- Took part in the deliverable mapping activity;
- Shares with MAtchUP partners the information and knowledge gained from the Task Group (e.g. packaging materials, position papers developed on BM&F topics).

The participation in the Task Group has enabled project to widen our knowledge on BM&F approaches and apply the common tools and templates that have been developed (e.g. the packaging materials have been analysed for the development of MAtchUP business model evaluation framework).

Data Task Group

- **Organization of Data Task Group**

  The Data Task Group organises occasional audios and dedicated workshops on the occasion of the SCC01 meetings, being the email the main instrument of communication.

- **Roadmap of Data Task Group**

  The aims of the data management task group are:

  - Collect and disseminate Privacy Impact Assessments

  - Organise cross-SCC workshops on GDPR

  - Host data science workshops to share learning on the use cases for data

  - Collect and examine data management plans to provide recommendations

  - Work on the main insights about the various use cases developed in each project and develop 1 or 2 joint use cases.

- **MAtchUP in the DataTask Group**

  VTT participated in the only task group event done so far, held in Lyon during Smart Cities & Communities Lighthouse network event 17-18 October 2019. On that occasion the group decided to start drafting a common data management plan for the projects that has progressed only slowly afterwards.

  This activity had a minor benefit for MAtchUP partners since the project has a specific DPO that supports the project data management. However, the activity was useful at least to exchange experiences from older projects.

Monitoring & Evaluation Task Group

- **Organization of Monitoring & Evaluation Task Group**
  The Monitoring & Evaluation Task Group is co-chaired between MAtchUP and STARDUST projects. MAtchUP partners VTT and KVELOCE participate on behalf of the project.
  The Group organises a virtual meeting every month and meets physically twice/year on the occasion of cluster meeting with the other SCC01 Lighthouse projects. The group started with monthly audios in December 2019.
- **Roadmap of Monitoring & Evaluation Task Group**

  TG 2020 Action plan includes the following objectives:

  1. Establish a common understanding of the scope and meaning of *Evaluation & Monitoring* in all SCC01 projects by:

- Developing a word cloud clarifying the terminology and scope of this Task group in relation to other Task groups (Data management, Replication etc.).
- Defining a common approach for SCC01 projects to evaluation & monitoring: scope, evaluation boundaries, monitoring protocol, etc.
- Defining the SCC01 baseline methodology to set the starting point.
- Defining the social evaluation methodology of SCC01 projects (including qualitative methods, learning process etc.).

2. Develop a mapping exercise of the KPIs used by the SCC01 projects:

- Collect KPIs used to evaluate and monitor SCC01 project impacts, as a continuation of Replication TG work.
- Harmonization of common indicators and alignment with key initiatives and frameworks.
- Need for new indicators, especially –but not only– for the new projects (PED, LCA, social evaluation, air pollution, environmental quality...).

3. To deliver a methodology to facilitate SCIS reporting activity:

- Share experiences with SCIS reporting.
- Facilitate the interaction between SCIS and SCC1 network to reach more comparable results

4. Set up an active collaboration activity:

- Sharing experiences from different projects through concrete examples, e.g. on Monitoring Protocols
- Collaborate with other Task groups (Replication, Data management...), e.g.
  - o Data management task group on their objective "Collect and examine data management plans to provide recommendations"
  - o Replication, Communication & Cities TGs on stakeholder engagement
- Collaborate & Engage with city representatives, and other key stakeholders

- **MAtchUP in the Monitoring & Evaluation Task Group**

MAtchUP partners VTT & KVELOCE (in collaboration with STARDUST) lead the TG activities since the very beginning, including the following activities: active participation in the early discussions on the need for this new TG in San Sebastian SCC meeting in March 2019, preparation of the TG and its Action plan proposal in autumn 2019, organisation of the kick off in October 2019, preparation of all TG materials for monthly meetings and for the actions taken since the formal approval of the TG in November 2019

- VTT (role of Aapo Huovila in the TG: co-chair; role in MAtchUP WP5 leader),
- KVELOCE (role of Barbara Branchini in the TG > member of coordination team, lead of social evaluation activities; role in MAtchUP > lead of social evaluation and citizen engagement activities)

The TG has already progressed in all its four main activities and MAtchUP partners have been actively involved in every action. All closed or ongoing 17 SCC1 LH projects have participated in the TG work allowing to share experiences and learn

from others. Referring to the 4 objectives in point 3, the following learnings have been particularly useful:

- Obj 1. Better understanding of the scopes of monitoring & evaluation activities in different projects through a survey and discussions, with the aim to strive towards better harmonization in approaches between the projects. Here VTT is leading the preparation of a joint scientific Journal article together with all 17 SCC01 projects to better understand the similarities and differences in projects' evaluation activities. Scientific publications will allow further dissemination of the MAtchUP results and increase the visibility of the SCC in general within the scientific community.
- Obj 1. Learning from the baseline methods used in other projects through a survey and discussions
- Obj 1. Better understanding of the social evaluation methodology of SCC01 projects, sharing experiences and creating synergies to approach common challenges, as well as raising awareness about how the social impact of SCC01 LH projects is measured and its relevance.
- Obj. 2. Know the differences in KPIs used between Project based on joint analysis of results from KPI mapping by Replication TG
- Obj. 2. Analyse the gaps in smart cities KPIs. Here a gap on social evaluation KPIs has been identified and KVELOCE is leading their further development together with members from other projects.
- Obj. 3. Gather methodological and practical challenges in SCIS reporting and learning of potential solutions from TRIANGULUM Project.
- Obj. 4. Better understanding of typical issues in SCC01 project demos and their timelines, and possible solutions to address those. To this aim, the deliverables and timelines of monitoring and evaluation methods and results of the 17 SCC01 LH projects were mapped. General willingness to share materials was shown by projects representatives' and a common repository may be created.
- Obj. 4. Know the possible approaches to evaluation the replicability potential of SCC solutions.
- Obj. 4. Learning from relevant approaches developed in Replication, Business model and Data management task groups (KPI review, SC solution BM evaluation approach, Data management plan template).

These learnings will help WP5 activities on monitoring & evaluation of the demos and reporting the data to SCIS platform. They also provide a "toolkit" for addressing possible future issues in MAtchUP WP5. Finally, it is expected that the last LH project (RESPONSE) will join to the activities of this TG.

Annex A2. – Letter of interest - template

LETTER OF INTEREST IN PARTICIPATING IN THE MATCHUP NETWORK OF CITIES

[Name Surname] as [Civil Servant/Representative/…] of [Organisation legal name/City], is willing to participate in the **Network of Cities (NoCs)** of the MAtchUP project, funded by the European Commission under the H2020-SCC-2017 call, Smart Cities and Communities lighthouse projects topic (GA number 774477). MAtchUP aims at contributing to the **urban transformation through the implementation of innovative technologies in the energy, mobility, ICT sectors, citizens engagement**, and to support the replication in other cities. The project will implement such technologies in the cities of València (Spain), Dresden (Germany) and Antalya (Turkey), in order to improve the liveability of their urban environment and will replicate them in Ostend (Belgium), Kerava (Finland), Skopje (North Macedonia) and Herzliya (Israel).

As part of dissemination and collaboration activities, **the project will strengthen relationships with several cities at EU and global level to establish a Network of Cities**. This would facilitate the knowledge transfer, enhance the replication potential and increase the spread of activities and results among cities worldwide.

To this end, MAtchUP commits to:

- **Add** [Organisation legal name/City] to the MAtchUP website in the section dedicated to the NoCs

- **Follow** [Organisation legal name/City] social networks, if available

- **Subscribe** to the [Organisation legal name/City] newsletter, if available

- **Share** MAtchUP results, updates, communication material with [Organisation legal name/City]

- **Share** [Organisation legal name/City] results relevant for and in line with the goals of MAtchUP, through the project channels

- **Invite** [Organisation legal name/City] to MAtchUP webinars, events, conferences, and every public event linked to the project

- **Provide** name, surname, email of a representative of the project together with the MAtchUP logo in HD. [Organisation legal name/City] can display the info and logo on its website(s)

The [Organisation legal name/City] commits to participate in the MAtchUP NoCs in the following way:

- **Provide** the name, surname, email of a representative of the [Organisation legal name/City], together with a short profile of your organisation/city. The information will be included in the section of the website dedicated to the NoCs

- **Provide** the logo in HD of the [Organisation legal name/City]. The logo will be included in the section of the website dedicated to the NoCs

- **Connect** with the project through the Twitter and LinkedIn accounts, according to its possibilities

- **Subscribe** at least one of its representatives to the MAtchUP newsletter

- **Promote** its participation in the NoCs and the network itself through its channels, according to its possibilities

This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement N°774477

- **Invite** its stakeholders/members to follow the NoCs and the MAtchUP project, according to its possibilities

- **Participate**, whenever possible, to MAtchUP events, webinars, Study Tours (eventually also as speaker/contributor)

- **Participate**, whenever possible, in collaboration activities proposed by MAtchUP

- **Provide** feedback on the replication potential of MAtchUP interventions within their city

We invite you to contact the MAtchUP Dissemination & Communication Secretariat (info@matchup-project.eu) whenever necessary.

The undersigned is the representative of [Organisation legal name/City]

Location and date: xxx

Signed by: [Representative]

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Annex A3. – Network of cities: results of the quantitative template

Partner	Name of organisations/cities invited	Names of clusters invited	Number of invitations sent	Number of positive replies received	Names of cities/organisations who join the network	Comments
LNV	Manchester (UK) Wroclaw (Poland) Zadar (Croatia) Brest (France) Módena (Italy) Castelló (Spain) Budapest (Hungary) Birmingham (UK) Utrecht (Netherlands) Valenje (Slovenia) Alba Iulia (Romania) Koprivnica (Hungary) Turín (italy) Paris (France) Frankfurt (Germany) Metamorfossi (Greece) Isere (France) Leeds (UK)	Climate kic EERA JPSC Fiware Foundation global city teams challenge Covenant of mayors red innpulso Open and agile smart cities Red española de ciudades inteligentes think tank Scities AVESEN United 4 Smart cities and communities - itu URAIA - ONU Habitat ICLEI European Secretariat	36 cities + 12 networks	0 (as of 2 Oct 2020)		

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	Nantes (France)					
	Málaga (Spain)					
	Santander (Spain)					
	Herleen (Netherlands)					
	San Giuseppe Vesuviano (Italy)					
	Eeklo (Belgium)					
	Edirne (Turkey)					
	Oleksandriya (Ukraine)					
	Koper (Slovenia)					
	Durres (Albania)					
	Limassol (Cyprus)					
	Kotor (Montenegro)					
	Rethymno (Greece)					
	Hamburg (Germany)					
	Camerino (Italy)					
	Varsaw (Poland)					
	Bratislava (Slovachia)					
	Camerino (Poland)					
CAR	Kartal (Turkey) Laguna de Duero (Spain) Lund (Sweden) Botkyrka (Sweden) Värmdö (Sweden) Málaga(Spain) Rovereto (Italy)	Smart City Cluster	14	3	City of Kartal, City of Genoa Smart City Cluster	

	Naples (Italy)					
	Salerno (Italy)					
	Udine (Italy)					
	Florence (Italy)					
	Ludwigshafen am Rhein (Germany)					
	Valladolid (Spain)					
	Genoa (Italy)					
ANT	Adana - Adana Metropolitan Municipality Ankara - Ankara Metropolitan Municipality Aydın - Aydın Metropolitan Municipality Balıkesir - Balıkesir Metropolitan Municipality Bursa - Bursa Metropolitan Municipality Denizli - Denizli Metropolitan Municipality Diyarbakir - Diyarbakir Metropolitan Municipality Erzurum - Erzurum Metropolitan Municipality Eskişehir - Eskişehir Metropolitan Municipality Gaziantep - Gaziantep Metropolitan Municipality Hatay - Hatay Metropolitan Municipality Istanbul - Istanbul Metropolitan Municipality Izmir - İzmir Metropolitan Municipality Kahramanmaraş - Kahramanmaraş Metropolitan Municipality Kayseri - Kayseri Metropolitan Municipality Kocaeli - Kocaeli Metropolitan Municipality Konya - Konya Metropolitan Municipality		48	0 (as of 15 Oct 2020)		On october 7th, Antalya Metropolitan Municipality has sent total of 49 invitations to the all metropolitan municipalities in Turkey (30) and all total of 19 district municipalities of Antalya. Several approvals and interest feedback were given via telephone. The written form of responses are pending

	Malatya - Malatya Metropolitan Municipality					
	Manisa - Manisa Metropolitan Municipality					
	Mardin - Mardin Metropolitan Municipality					
	Mersin - Mersin Metropolitan Municipality					
	Muğla - Muğla Metropolitan Municipality					
	Ordu - Ordu Metropolitan Municipality					
	Sakarya - Sakarya Metropolitan Municipality					
	Samsun - Samsun Metropolitan Municipality					
	Sanliurfa - Sanliurfa Metropolitan Municipality					
	Tekirdağ - Tekirdağ Metropolitan Municipality					
	Trabzon - Trabzon Metropolitan Municipality					
	Van - Van Metropolitan Municipality					
	Akseki Municipality					
	Alanya Municipality					
	Elmali Municipality					
	Finike Municipality					
	Gazipasa Municipality					
	Gundogmus Municipality					
	Ibradı Municipality					
	Demre Municipality					
	Kas Municipality					
	Kemer Municipality					
	Korkuteli Municipality					
	Kumluca Municipality					
	Manavgat Municipality					

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	Serik Municipality Aksu Municipality Dosemealti Municipality Kepez Municipality Konyaaltı Municipality Muratpasa Municipality						
KER	Järvenpää Hyvinkää Kirkkonummi Mäntsälä Nurmijärvi Pornainen Sipoo Tuusula Vihti		9	1	City of Sipoo	All cities are Finnish
UBIEFE		Coordinamento Agende 21 Locali italiane	1	1	Coordinamento agende 21 locali italiane	
OST		WVI VVSG	2	1	WVI - public regional body that assists 54 West-Flemish municipalities	1 accepted, 1 not accepted. OST will keep sending invitations as long as their network keeps growing
ICE	Zaragoza Municipality (Spain) Split Municiplity (Croatia)	ACOR - Association of Communes in Romania	9 cities + 41 networks	4	Mantova Municipality (Italy)	Several cities/organisations expressed their

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	Mantova Municipality (Italy) Liverpool Municipality (UK) Izmir Municipality (Turkey) Ludwisburg Municipality (Germany) Medellin (Colombia) Quy Nhon (Vietnam) Capital City of Podgoric (Montenegro)	AMR - Association of Romania Municipalities ANMP - Associazione Nazionale dei Municipi Portoghesi Association Energy Efficient Cities of Ukraine Association of Communes in Hungary Association of Finnish Local and Regional Authorities Association of German Cities Association of municipalities and towns of Republic of Srpska Association of Municipalities and towns of Slovenia Association of Province L'Aia – Bruxelles Association of the Cities and Municipalities of Brussels Association of the Units of Local Self-Government of RM – ZELS Association of Towns and Communities of Austria Association of Towns and Communities of Slovakia AUC - Association of Ukrainian cities Austrian Association of Cities and Towns Brittany Region EU Office Brulocalis - Association of the City and Municipalities of Brussels)			NALAS - Network of Associations of Local Authorities of South-East Europe ENEF cities - Network of cities with more than 90 Ukrainian cities on board and official Covenant of Mayors supporting structure since 2019 BRULOCALIS – Association of the City and Municipalities of Brussels	interest, but their formal participation is still pending

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		CEMR - Council of European Municipalities and Regions				
		Council of European Municipalities and Regions				
		Croatian County Association				
		Croatian Regions Office				
		Diputación Provincial de Gerona				
		DStGB - German Association of Towns and Municipalities				
		Icelandic Association of Local Authorities				
		KEDE - Central Union of Municipalities of Greece				
		KL - Local Government Denmark				
		Liège Europe Métropole				
		LPS - Latvian Association of Local Governments				
		LSA - Association of Local Authorities in Lithuania				
		Municipalities and Cities Association of BIH				
		NALAS - Network of Associations of Local Authorities of South-East Europe				
		NAMRB - National Association of the Municipalities in Republic of Bulgaria				
		Norwegian Association of Local and Regional Authorities				
		SCTM - The Union of Towns and Municipalities of Serbia				

		SMOCR - Union of Towns and Municipalities of the Czech Republic Union of Cyprus Municipalities Union of Municipalities of Moldova Union of Municipalities of Montenegro ZMP.POZNAN - Association of Local Authorities in Poland Start Smart City				