



# SPARCS

## D6.4 Cooperation handbook: Report of lighthouse projects cooperation: Working groups and platform results – updated version 1

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Description of the related task and the deliverable. Extract from DoA	<p><b>T6.1 Synergies and clustering activities with the Cooperation Network on SCC1 projects and the EIP-SCC marketplace (VTT) M1 – 60</b></p> <p>T6.1 ensures a deeper collaboration, communication and knowledge exchange among all H2020 SCC1 projects, foreseeing the organisation and coordination of common activities with other projects. The SCC1 projects share similar objectives and their communication often targets for same audience. The common activities aim for increasing the individual reach and enlarge the potential pool of replication and innovation acceptance.</p> <p>This handbook focuses on the work done in subtask 6.1.2 Clustering activities. It provides an update of activities performed as earlier planned and defined in D6.3 (Cooperation handbook: Report of lighthouse projects cooperation: Working groups and platform results). This deliverable will be further updated in M58 and released as D6.5 (Cooperation handbook: Report of lighthouse projects cooperation: Working groups and platform results - updated version 2).</p>		
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## About SPARCS

Sustainable energy Positive & zero cARbon Communities demonstrates and validates technically and socioeconomically viable and replicable, innovative solutions for rolling out smart, integrated positive energy systems for the transition to a citizen centred zero carbon & resource efficient economy. SPARCS facilitates the participation of buildings to the energy market enabling new services and a virtual power plant concept, creating VirtualPositiveEnergy communities as energy democratic playground (positive energy districts can exchange energy with energy entities located outside the district). Seven cities will demonstrate 100+ actions turning buildings, blocks, and districts into energy prosumers. Impacts span economic growth, improved quality of life, and environmental benefits towards the EC policy framework for climate and energy, the SET plan and UN Sustainable Development goals. SPARCS co-creation brings together citizens, companies, research organizations, city planning and decision making entities, transforming cities to carbon-free inclusive communities. Lighthouse cities Espoo (FI) and Leipzig (DE) implement large demonstrations. Fellow cities Reykjavik (IS), Maia (PT), Lviv (UA), Kifissia (EL) and Kladno (CZ) prepare replication with hands-on feasibility studies. SPARCS identifies bankable actions to accelerate market uptake, pioneers innovative, exploitable governance and business models boosting the transformation processes, joint procurement procedures and citizen engaging mechanisms in an overarching city planning instrument toward the bold City Vision 2050. SPARCS engages 30 partners from 8 EU Member States (FI, DE, PT, CY, EL, BE, CZ, IT) and 2 non-EU countries (UA, IS), representing key stakeholders within the value chain of urban challenges and smart, sustainable cities bringing together three distinct but also overlapping knowledge areas: (i) City Energy Systems, (ii) ICT and Interoperability, (iii) Business Innovation and Market Knowledge.

## Partners



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## EXECUTIVE SUMMARY

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SPARCS is an active partner in the overall H2020 collaboration framework and actively participates in the already established SCC1 clustering initiatives. The impact objectives of these projects and a significant portion of the target audiences overlap and therefore these common activities will capitalise on this overlap with the aim to increase the individual reach and enlarge the potential pool of replication and innovation acceptance. The collaboration enables knowledge exchange, and sharing, among individual partners and work packages of the projects as well as participating to its governance. The collaboration will take place by means of participation in meetings, organization of joint events, conference participation and by building common recommendations (in T6.2). The knowledge exchange further builds on partnerships with external cross-cutting and regional initiatives that offer additional opportunity to make contact with SCC projects (in T6.3 and T6.4). Opportunities for further common activities and common deliverables will be regularly assessed and subsequently discussed and agreed upon with the projects' officers.

This handbook focuses on the work done in subtask 6.1.2 Clustering activities. It provides an update of activities performed as earlier planned and defined in D6.3 (Cooperation handbook: Report of lighthouse projects cooperation: Working groups and platform results, M6). The deliverable provides an update on the SCC1 clusters, knowledge acquired and planned activities. This deliverable will be further updated in M58 and released as D6.5 (Cooperation handbook: Report of lighthouse projects cooperation: Working groups and platform results - updated version 2).



## 1. INTRODUCTION

### 1.1 Purpose and target group

The deliverable is generated by task T6.1, which ensures a deeper collaboration, communication and knowledge exchange among all H2020 SCC1, foreseeing the organisation and coordination of common activities with other projects. The impact objectives of these projects and a significant portion of the target audiences overlap and therefore these common activities will capitalise on this overlap to increase the individual reach and enlarge the potential pool of replication and innovation acceptance.

This handbook focuses on the work done in subtask 6.1.2 Clustering activities. SPARCS has been an active partner in the overall H2020 collaboration framework and actively participates in the already established SCC1 clustering initiatives, enabling knowledge exchange, and sharing, among individual parts and work packages of the projects as well as participating in its governance. The collaboration takes place through online/physical meetings, organization of joint events, conference participation and common recommendations (T6.2). The knowledge exchange further builds on partnerships with external cross-cutting and regional initiatives that offer additional opportunities to make contact with SCC projects and relevant platforms. Opportunities for further common activities and common deliverables will be regularly assessed and subsequently discussed and agreed upon with the projects' officers.

This handbook defines cooperation means and rules for the activities with the other projects and initiatives. This will define the objectives and activities, the responsible partners across the SPARCS consortium as well as the main cross-cutting issues agreed upon by the cluster.

### 1.2 Contributions of partners

Table 1 depicts the main contributions from SPARCS partners contributing to this deliverable.

*Table 1. Contributions of partners*

Partner	Contributions
VTT	Editor and main author of the deliverable.
GOPA	Contributions to the content, checking the content
CVUT	Contributions to the content, checking the content
Fraunhofer, CiviESCO, SUITE5, City of Espoo, City of Leipzig & Fellow Cities	Members of SCC1 tasks groups described their objectives for cooperation and planned activities in Table 2. The activities also include the FCs in order to boost knowledge exchange.



### 1.3 Relations to other activities

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The handbook will be periodically updated according to the progress of the cooperation. Updates will be reported periodically and consolidated in a final deliverable of this task at the end of the project. This deliverable D6.4 is based on the following tasks and activities:

- Task 6.2 will elaborate and consolidate joint recommendations based on the defined cross-cutting issues.
- D6.1 presents the coordination of collaboration, and this deliverable and SCC1 clustering activities follow the same workflow and process.
- D6.2 presents the Collaboration task force and outlines individual memberships in initiatives among others for H2020 SCC1.
- D6.3 sets the baseline for collaboration activities and participating in the SCC1 task forces
- Close relation to WP8 Dissemination and Communication.
- Each SCC1 cluster topic is related to corresponding WP in SPARCS: WPs 1-5, and WP7.

## 2. H2020 SCC1 COLLABORATION

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### 2.1 Overall H2020 SCC1 collaboration framework

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In the already established H2020 SCC1 clustering initiatives (Scalable cities), SPARCS focuses on enabling knowledge exchange and sharing among both individual parts and work packages of involved projects as well as on participating to its governance. The SPARCS project will actively participate in the SCC1 project coordinators' steering group ("board of coordinators") as well as in the communication collaboration, monitoring and the replication groups, where many of SPARCS partners are already active contributors.

Based on the most efficient task distribution, SPARCS has assigned its partners to be members of individual groups collaborating in H2020 SCC1 framework. The individual experts report to the Collaboration Task Force group of the project.

### 2.2 Cooperation means and rules for the activities

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The cooperation is realised through establishing dialogue and knowledge exchange in regular H2020 SCC1 meetings on various levels. The specific topic related SCC1 task force groups and their members from SPARCS are:

- Board for Coordinators: **VTT**
- Communication and Dissemination Coordinators: **GOPA com**
- Replication Coordinators: **FHG**
- Business Models Group: **CiviESCo**
- Data group: **SUITE5** (this group is not active at the moment. Only one meeting took place in 2019 with few participants)\*





- Monitoring and Evaluation group: **SUITE5, VTT, CVUT**
- City Coordinators group: **Cities of Espoo and Leipzig and the Fellow Cities**

From the SPARCS point of view, the project has nominated a key SPARCS partner as a representative in each group to act on behalf of SPARCS as an interface and knowledge sharer between the project and the group.

Each one of these groups is coordinating and managing efforts of all lighthouse projects in their own area, focusing specifically on establishing common practices, common goals and baselines and/or common outcomes and recommendations when it comes to replication.

All groups also collaborate via online calls, an established cloud platform and a series of in-person joint events, such as workshops, presentations and conference participations.

Some of the common activities are agreed upon by the Board for Coordinators or Group-level and are fulfilled by all projects within the H2020 SCC1 group. Those activities are executed within the SPARCS project boundaries, through the WP6, with the help of other project members and work package leaders, as and when needed.

Other, optional, selected activities and opportunities for further common activities and common deliverables will be regularly assessed and subsequently discussed and agreed upon with the projects' officers.

Within the project, the knowledge sharing is enabled in two ways:

- from the H2020 SCC1 to the project members (through the Ambassadors)
- from project members to the H2020 SCC1 (and back, if applicable) (through the Ambassadors)

When there are elements from the H2020 SCC1, the SPARCS Ambassador in the group has the mandate to take a decision, together with the Project coordinator or Project partner in question, when and if needed, and subsequently inform the project partners, usually during executive board calls and in the communication meetings and newsletter.

When project partners have requests for SCC1 group members, they leave an information request on Teams for the responsible partner, as outlined in the Ambassador workflow. In return, the Ambassador answers their request in Teams as well and if widely applicable – enters this outcome also into the newsletter.

All these activities are followed in the stakeholder mapping document in Teams and via requests in Teams in WP6. In case of participation and contribution to events, workshops and webinars, we will use tracking documents from WP8. Events targeted to different audiences are being collected and proposed in the course of the project at the common communication meetings.

### **2.3 Objectives and planned activities for SCC1 clusters**

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SPARCS participates in the following SCC1 task groups: Board for Coordinators, Communication and Dissemination, Replication, Business models, Data, Monitoring





and Evaluation, and City-to-city. The objectives for cooperation and planned activities for SPARCS members participating in SCC1 clusters are summarized in Table 2.

*Table 2. Cooperation in SCC1 task groups: objectives and planned activities*

<b>SCC1 Task Group: Board of Coordinators (VTT)</b>	
<b>Objectives for cooperation</b>	<p>Objective 1: Common coordination and strategic guidance of all H2020 SCC1 projects</p> <p>Objective 2: Ensuring knowledge sharing and knowledge transfer and lessons learnt from “older” to “younger” H2020 SCC1 projects</p> <p>Objective 3: Enabling and preparing the conditions for the development of the market on smart cities solutions</p> <p>Objective 4: Strategic input for further H2020 and other smart cities, energy-efficiency and sustainability-related programmes of the EC</p>
<b>Activities planned</b>	Monthly Telcos and other meetings planned together

<b>SCC1 Task Group: Communication and Dissemination (GOPA)</b>	
<b>Objectives for cooperation</b>	<p>Objective 1: Knowledge sharing between the Lighthouse Cities on new developments in the projects</p> <p>Objective 2: Common approach to branding and visibility and dissemination efforts of the H2020 projects</p> <p>Objective 3: Harmonised dissemination and coherent communication outputs for the overall Smart Cities group</p> <p>Objective 4: Coordinated efforts for the event/ workshop / webinars presence</p>
<b>Activities planned</b>	<p>Monthly Telcos</p> <p>In-person meetings minimum twice a year</p> <p>Branding meetings and other ad-hoc meetings depending on event or topic more frequently (especially e.g. Barcelona Expo calls)</p>

<b>SCC1 Task Group: Replication (FHG)</b>	
<b>Objectives for cooperation</b>	<p>Objective 1: Knowledge sharing between Lighthouse projects on replication strategies.</p> <p>Objective 2: Further identification, understanding and uptake of barriers and drivers for replication as encountered in the Lighthouse projects.</p> <p>Objective 3: Supporting EU-regional and Member State networks of SCC01 cities, and other European networks, to accelerate scale-up and replication.</p> <p>Objective 4: Cooperation with other Task groups &amp; dissemination</p>
<b>Activities planned</b>	<p>Monthly Telcos</p> <p>Live meetings twice a year</p> <p>Supporting PED/SCC booklets</p>



SCC1 Task Group: Business Models (CiviESCo)	
<b>Objectives for cooperation</b>	Objective 1: Support benchmark analysis related to the business models and financing instruments for smart positive energy districts.
<b>Activities planned</b>	Ad hoc meeting within the EIP SCC, frequent Telco on-demand and information/lesson learnt exchange among respective partners of the whole SCC1 business ecosystems.

SCC1 Task Group: Monitoring and Evaluation (SUITE5, VTT, CVUT)	
<b>Objectives for cooperation</b>	Objective 1: Learning from experiences of older SCC1 projects. Objective 2: Actively collaborating on development of not yet well-established indicators such as those for PED evaluation.
<b>Activities planned</b>	Monthly telcos and face-to-face workshops twice a year

SCC1 Task Group: City Coordinators (LHCs and Fellow Cities)	
<b>Objectives for cooperation</b>	Objective 1: Learning from experiences of other SCC1 projects and cross dissemination of knowledge.
<b>Activities planned</b>	Telcos, visits

## 2.4 SCC1 task group activities performed and key learnings

SPARCS partners (in particular those that are representing SPARCS in the various SCC1 task forces) have actively participated in knowledge sharing, consensus building and development actions supporting the building of a European-level knowledge base on Smart Cities and Communities. For each task group that SPARCS participates in, and for each objective outlined in Table 2, a summary of key activities performed, lessons learned and planned future activities are summarized in the following sections:

### 2.4.1 SCC1 Task Group: Board of Coordinators (VTT)

As the SPARCS project coordinator, VTT represents SPARCS in the SCC1 Task Group: Board of Coordinators (BOC). This task group focuses on the main strategic direction, priorities and shared targets for SCC1 projects. SPARCS activities, lessons learned and planned future activities in this task group are summarised below.

SCC1 Task Group: Board of Coordinators (VTT)	
<b>Objective 1</b>	Common coordination and strategic guidance of all H2020 SCC1 projects
<b>Activities performed</b>	Continuous follow-up and guidance via monthly meetings
<b>Objective 2</b>	Ensuring knowledge sharing and knowledge transfer and lessons learnt from “older” to “younger” H2020 SCC1 projects
<b>Activities performed</b>	Practically this has been mostly about the exchange of learnings, experiences and good practises, not only from older to younger projects, but in some cases also vice-versa. However, the learnings from previous projects do guide some



	decisions done in in the course of SPARCS, such as those on practical following up and reporting of the status of implementation of the demonstration actions and related monitoring schedule.
<b>Objective 3</b>	Enabling and preparing the conditions for the development of the market on smart cities solutions
Activities performed	SPARCS has actively contributed to recurring topics at hand in BOC, and also raised suggestions for discussion and collaboration, e.g., in relation to the Ukrainian war intensifying in February 2022 and its impacts on SCC projects. SPARCS has actively supported and participated on preparing white papers, e.g. towards the NetZeroCities, and suggesting on how Scalable cities and the Cities Mission (through NZC) could intensify collaboration.
<b>Objective 4</b>	Strategic input for further H2020 and other smart cities, energy-efficiency and sustainability-related programmes of the EC
Activities performed	SPARCS/VTT has actively contributed to various short-term expert studies, white papers and common publications that have been done by the BOC.
<b>Key Learnings / Observations</b>	
The massive group of the SCC lighthouse projects gives credibility and trust towards how smart city solutions have been implemented and monitored. The group provides many learnings for how to build the replication and upscaling targeting next steps outside and after the SCC projects.	
<b>Activities planned</b>	The collaboration in Scalable Cities is useful and we plan to keep up VTT's active participation in BOC and related activities. At short term, most practical collaboration efforts are put towards developing a booklet about the state of the art of the European Smart Cities, and branding of the Scalable Cities. VTT will also support e.g. the organisation of the Scalable cities participation at the Barcelona Smart Cities fair in November 2022.

### 2.4.2 SCC1 Task Group: Communication and Dissemination (GOPA)

As the SPARCS dissemination manager and WP8 (Dissemination and Communication) leader, GOPA represents SPARCS in the SCC1 Task Group: Communication and Dissemination (GOPA). This task group focuses on development and management of a shared dissemination and communications strategy between SCC1 projects and plans shared events. SPARCS activities, lessons learned and planned future activities in this task group are summarised below.

As all 18 SCC1 projects share similar objectives, their communication often targets for the same audience. Therefore, common activities enable both an increase in the individual reach as well as broadening the possibility for replication and knowledge sharing and innovation. SPARCS has been collaborating especially with the other younger projects that share the focus on Positive Energy districts:

- +CityxChange and MAKING-CITY (2018 onwards)
- POCITYF (2019 onwards)
- ATELIER (2020)
- RESPONSE (2021)



SCC1 Task Group: Communication and Dissemination (GOPA)	
<b>Objective 1</b>	Knowledge sharing between the Lighthouse Cities on new developments in the projects
Activities performed	<ul style="list-style-type: none"> <li>Attendance in monthly telcos for regular exchanges of individual projects' progress; dissemination across internal SPARCS channels (e.g Teams) in order to keep partners up to date with the latest development from other cities</li> <li>Informing SPARCS consortium about speaking opportunities at upcoming conferences and events organised by SCC1 projects.</li> </ul>
<b>Objective 2</b>	Common approach to branding and visibility and dissemination efforts of the H2020 projects
Activities performed	<ul style="list-style-type: none"> <li>Dissemination of all relevant content by members of the task group (e.g information on news and events) across social media channels and website</li> <li>Regular contribution to Smart City Marketplace newsletter as well as other newsletter to maximise the impact of communication</li> <li>Launching communication campaign in cooperation with other SCC1 partners (such as A view from my window, Smart cities during COVID, EU Mobility Week).</li> </ul>
<b>Objective 3</b>	Harmonised dissemination and coherent communication outputs for the overall Smart Cities group
Activities performed	<ul style="list-style-type: none"> <li>Proving shared input and key messages at occasions such as attending common events (e.g. Barcelona Expo, EUREG)</li> </ul>
<b>Objective 4</b>	Coordinated efforts to the event / workshop / webinars presence
Activities performed	<ul style="list-style-type: none"> <li>Co-organising and participating in one webinar on Citizens Engagement in the framework of the EU Week of Cities and Regions (13 October 2021). A similar set up is prepared for the 2022 edition of this European initiative.</li> <li>Co-organisation and participation in a joint webinar on <a href="#">Digital solutions in supporting cities' energy transition to climate neutrality</a> together with POCITYF under EU Green Week 2022.</li> </ul>
Key Learnings / Observations	
<p>The close cooperation between SCC1 project usually works better amongst project which are the same stage of their lifecycle, particularly in terms of organisation of joint events. At the same time, communication efforts could be further enhanced by better coordination from the Scalable Cities Secretariat. Information about possible speaker contributions is one area which could be strengthened. However, in the overall perspective the collaboration on communication and dissemination is very fruitful as it provides an opportunity to amplify the common messages and reach to audience in other countries around Europe.</p>	
<b>Activities planned</b>	<ul style="list-style-type: none"> <li>Joint event co-organised with POCITYF under the umbrella of EU Week of Cities and Regions in October 2022</li> <li>Joint conference participation at Barcelona Smart City Expo in November 2022</li> <li>Ongoing contribution to newsletter and active engagement on social media</li> </ul>



### 2.4.3 SCC1 Task Group: Replication (FHG)

As the SPARCS replication manager and WP5 (Replication) leader, Fraunhofer represents (FHG) SPARCS in the SCC1 Task Group: Replication (Fraunhofer). This task group focuses on interacting with cities and relevant stakeholders to support replication activities through the promotion of relevant technologies and solutions for smart cities. Information about trending/important topics from other SCC1 projects has been used to propose new ideas to SPARCS partners, which has enabled SPARCS partners to extend their network and possibilities. The Task Group organises a meeting every other month to discuss current topics related to replication and exchange experiences made in individual projects. Face-to-face meetings should occur once a year. Due to Covid these meetings were shifted online, with an exception and the first face to face meeting in May 2022 in Utrecht. Niklas Effenberger (FHG) took part in the meeting. The roles of SPARCS and of FHG within SPARCS have been presented several times. SPARCS activities, lessons learned and planned future activities in this task group are summarised below.

SCC1 Task Group: Replication (FHG)	
<b>Objective 1</b>	Knowledge sharing between Lighthouse projects on replication strategies.
Activities performed	<ul style="list-style-type: none"> <li>• Participation and meetings in TG Rep with peers from other projects (e.g. RUGGEDISED, IRIS, POCITYF, ATELIER).</li> <li>• Attendance of two day conference “Scalable Cities (with all SCC1 Lighthouse cities being invited), community event ‘Moving from solutions to systems change’.</li> <li>• Networking and exchange in workshops.</li> </ul>
<b>Objective 2</b>	Further identification, understanding and uptake of barriers and drivers for replication as encountered in the Lighthouse projects.
Activities performed	<ul style="list-style-type: none"> <li>• Exchange in online workshops on SC barriers and drivers within the TG Rep meetings.</li> <li>• Offline exchange on above mentioned conference. Followed by intensive virtual contact (two online meetings).</li> <li>• Collaboration to identify “the best practices of systemic governance” for a virtual “Cities Repository on Systemic Governance”.</li> </ul>
<b>Objective 3</b>	Supporting EU-regional and Member State networks of SCC01 cities, and other European networks, to accelerate scale-up and replication.
Activities performed	<ul style="list-style-type: none"> <li>• Exchange with EUROCITIES network on annual conference on SC scale-up practices. Regular virtual contact with network cities and effective exchange of SPARCS project results.</li> </ul>
<b>Objective 4</b>	Cooperation with other Task groups & dissemination
Activities performed	<ul style="list-style-type: none"> <li>• External reviewer for SCC1 Project RUGGEDISED in Work Package 7: Replication to Follower cities and Knowledge transfer.</li> <li>• Cooperation with TG Communication &amp; Dissemination to promote events and results.</li> <li>• Participation in PED-EU-Net Urban Stakeholder Webinar.</li> </ul>



Key Learnings / Observations	
	<ul style="list-style-type: none"> <li>Interactive formats and exchange prove to be enormously beneficial to inspire project cities on how to overcome barriers</li> <li>Repositories and best-practice catalogues are useful but the group should aim to go a step further</li> <li>It is beneficial to have the TG Replication to discuss issues and trends</li> </ul>
Activities planned	<ul style="list-style-type: none"> <li>Two more “SPARCS City Forums” planned in 2022 – one internal event and one public to work on questions of replication and scale-up of SC solutions</li> <li>Onsite visits in Espoo and Leipzig to boost mutual learning and connections in between project partners</li> </ul>

#### 2.4.4 SCC1 Task Group: Business Models (CiviESCO)

In its role as financial advisor and WP7 (Exploitation and Business Ecosystems) leader, CiviESCO represents SPARCS in the SCC1 Task Group: Business Models (CiviESCO). This task group focuses on the development of joint financing and business models between SCC1 projects for solutions that are ready for adoption. It also identifies relevant investors and viable sources of financing for these solutions. SPARCS activities, lessons learned and planned future activities in this task group are summarised below. The task group suffered because of the lack of resources due to the fact that some projects ended, and they have no longer budget to be committed for the task group activities. As well, the task group is quite slow in the deployment of the action plan since the chairperson belongs to one of the above-mentioned projects. On the other side, SPARCS has been involved in the task force promoted by SCALABLE Cities among the members of the task group for the deployment of two different mission papers in the field of funds and financing options for the development of smart city related business models.

SCC1 Task Group: Business Models (CiviESCO)	
Objective 1	Support benchmark analysis related to the business models and financing instruments for smart positive energy districts.
Activities performed	Contribution to the two mission-oriented papers: the first Funding and financing the transition towards climate-neutral cities (outlined and discussed with the Mission manager, Matthew Baldwin); the second is still in the co-draft process #4th Mission oriented Paper on How to Fund and Finance Climate Neutral Cities. Every telco of the task force has been attended.
Key Learnings / Observations	
SPARCS has an active role and maybe should with the third wave of projects take the lead of the task group, vice versa the opportunity to be inside a cross collaborative network will be very low.	
Activities planned	Providing inputs to the 4th mission paper and be proactive towards the TG’s request for collaboration.





## 2.4.5 SCC1 Task Group: Monitoring and Evaluation (SUITE5, VTT, CVUT)

SPARCS is represented by SUITE5, VERD, VTT, and CVUT in the SCC1 Task Group: Monitoring and Evaluation. The task group is chaired by VTT (Aapo Huovila); and SUITE5 (Georgios Papadopoulos), VERD (Aristotelis Ntafalias) and CVUT (Tomas Vacha) represent SPARCS in the monthly meetings and other Task group activities. This task group focuses on shared tools and process for collecting data, monitoring and evaluation, and identification of shared indicators from SCC1 projects. It also provides mechanisms and algorithms for data cleaning, harmonisation and dissemination. SPARCS activities, lessons learned and planned future activities in this task group are summarised below.

<b>SCC1 Task Group: Monitoring and Evaluation (SUITE5, VERD, VTT, CVUT)</b>	
<b>Objective 1</b>	Learning from experiences of older SCC1 projects
Activities performed	Participation in monthly meetings and workshops in TG M&E with monitoring & evaluation experts from the other 17 SCC1 projects and other collaborative task group activities generated research partnerships and methodologies that helped produce publications about SPARCS cities by VTT, CVUT and FHG <sup>1</sup> . SPARCS approach to evaluate replicability of smart city solutions was presented by SUITE5 in a task group meeting on the 10 <sup>th</sup> of February 2021 and findings and similar approaches were discussed with the other SCC1 project representatives. Results of the research in process learning in city pilot projects were presented by CVUT in an online workshop on the 12 <sup>th</sup> of May 2021, organised by the TG M&E. After the presentation experiences on process learning were discussed between SCC1 project representatives.
<b>Objective 2</b>	Actively collaborating on development of not yet well-established indicators such as those for PED evaluation.
Activities performed	Inputs into SPARCS KPIs (developed by WP2, SUITE5) for the governance domain were generated by CVUT based on the previous exchange facilitated by the TG M&E. Participation in the PED Assessment workshop on the 22 <sup>nd</sup> of October 2021, co-organised between the Task group and the IEA Annex 83 on PEDs.
<b>Key Learnings / Observations</b>	
The PED pilot projects need to be designed from the outset to catch the lessons learned from both technological research and innovation process learning. This second pillar has been largely omitted in older SCC1 projects and is only slowly corrected by recent collaborative efforts (e.g. Scalable Cities, COST ACTION PED-EU-NET, IEA Annex 83 etc.)	
<b>Activities planned</b>	Further collaboration & social learning

<sup>1</sup> Fatima, Zarrin, Vacha, Tomas, Swamygowda, Kavyashree and Qubailat, Reef, (2022), Getting Started with Positive Energy Districts: Experience until Now from Maia, Reykjavik, Kifissia, Kladno and Lviv, Sustainability, 14, issue 10, p. 1-20.





### 2.4.6 SCC1 Task Group: City Coordinators

The SPARCS Lighthouse cities and Fellow cities represent SPARCS in the SCC1 Task Group: City Coordinators. This task group focuses on city to city knowledge and experience sharing and further dissemination of knowhow and learnings to relevant city stakeholders. SPARCS activities, lessons learned and planned future activities in this task group are summarised below. This group was silent for quite long period, but has been recently (late 2021) reactivated. As a part of this reactivation, all the Fellow cities have been invited to join to the group in addition to the Lighthouses.

SCC1 Task Group: City Coordinators (LHCs + FCs)	
<b>Objective 1</b>	Learning from experiences of other SCC1 projects and cross dissemination of knowledge.
Activities performed	<ul style="list-style-type: none"> <li>• SPARCS partners Kladno, Kifissia, Maia and CiviESco participate in the telcos organized by the City Coordinators group. The next meeting is scheduled for October 2022.</li> <li>• Kladno has maintained collaboration and exchange on numerous occasions with the Czech Fellow City group comprising of Brno (RUGGEDISED), Litomerice (STARDUST), Pisek (+CityxChange) and Prague (TRIANGULUM). SPARCS provided a strong ground for Kladno to participate in wider events.</li> </ul>
Key Learnings / Observations	
Fellow city experiences can often match those of lighthouses in terms of new organizational and stakeholder engagement models, processes as well as governance formats. Some fellows were able to use SCC1 collaboration to kick-start large multi-stakeholder investment projects. City of Espoo and Leipzig anticipate more active participation in the upcoming months.	
<b>Activities planned</b>	Fellow city cooperation continues in 2022 with joint Urbis Fair workshop (9/2022). City Coordinators Task Group meeting in October 2022

## 2.5 Recommendations for cross-cutting issues

Based on the activities for the exchange and the consolidation of knowledge among other SCC1 projects, SPARCS will facilitate building common recommendations (in T6.2) on agreed cross-cutting issues. Recommendations will be synchronized with the corresponding project meetings and workshops, by adding a dedicated agenda. These recommendations will contribute to ongoing work and fill the existing gaps. Each cross-cutting issue has a responsible project partner as follows:

- Impact monitoring: **VERD**
- Effective business models for sustainable solutions: **FHG**
- Regulatory, legal aspects and data security/protection: **VTT**
- Data security/protection: **SUITE5**
- Gender and socio-economics (Social Sciences and Humanities): **SPI**
- Storage solutions (from short-term to seasonal): **VTT**
- Big data, data management and digitalization: **SUITE5**
- Electro-mobility: i) its impact on energy system and ii) appropriate city planning



- measures to support large scale roll-out: **VTT**
- Positive energy blocks: **VTT**
  - Citizen engagement: **GOPA, SPI.**

VTT organized one workshop in March 2022 to discuss how each partner should collect information and how the partners should formulate it for the information for D6.6 Recommendations on cross-cutting issues (M48). A follow-up workshop will be organized in October 2022 and the discussion will be continued during the consortium meeting in November 2022.

## 2.6 Outlook

SPARCS Lighthouse and Fellow Cities have been active in participating across various events and fostering new connections to disseminate the acquired knowledge and also discuss encountered issues. Comprehensive details of activities across all cities have been described in D6.9 and D6.11.

Future activities	SPARCS contact person
EU Weeks of Cities and Regions October 2022 <ul style="list-style-type: none"> <li>• Joint event with POCITYF: <i>Making the energy transition a success through citizen engagement</i></li> <li>• Joint event with Covenant of Mayors and SPARCS: <i>Financial mechanisms</i></li> </ul>	<a href="mailto:Zarrin.fatima@vtt.fi">Zarrin.fatima@vtt.fi</a> WP6 leader  <a href="mailto:Vladislava.Gospodinova@gopacom.eu">Vladislava.Gospodinova@gopacom.eu</a> WP8 leader
Two more “SPARCS City Forums” planned between October – December 2022: one internal event and one public to work on questions of replication and scale-up of SC solutions	<a href="mailto:Niklas.Effenberger@iao.fraunhofer.de">Niklas.Effenberger@iao.fraunhofer.de</a> WP5 leader  <a href="mailto:Zarrin.fatima@vtt.fi">Zarrin.fatima@vtt.fi</a> WP6 leader
Onsite visits Lighthouse visits to boost mutual learning and connections in between project partners  Leipzig: 20.9 – 21.9, 2022  Espoo: 24.10 – 25.10, 2022	<a href="mailto:mari.hukkalainen@vtt.fi">mari.hukkalainen@vtt.fi</a> Coordinator
City Coordinators Task Group meeting in October 2022	<a href="mailto:angelo.giordano@civiesco.it">angelo.giordano@civiesco.it</a> WP7 leader
Organizing Climathon Climate-KIC event focusing on the citizen engagement tool produced in SPARCS and in alignment with the societal vision of the City Vision Reykjavík 2050 (October 2022)	<a href="mailto:sylva.lam@reykjavik.is">sylva.lam@reykjavik.is</a> Project Manager, City of Reykjavik
Barcelona Expo World Congress (November 2022)	<a href="mailto:Vladislava.Gospodinova@gopacom.eu">Vladislava.Gospodinova@gopacom.eu</a> WP8 leader
Scalable cities participation at the Barcelona Smart Cities fair in November 2022	<a href="mailto:mari.hukkalainen@vtt.fi">mari.hukkalainen@vtt.fi</a> Coordinator



<p>CVUT is co-organising an event on New European Bauhaus in Prague planned for November 2022 to which SPARCS cities will be invited.</p>	<p><a href="mailto:Michal.Kuzmic@cvut.cz">Michal.Kuzmic@cvut.cz</a> Project partner</p>
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