

# D9.18: Report on attendance at events held by other SCC-01 co-ordinators 7

+CityxChange | Work Package 9, Task 9.2

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<b>Authors</b>	Annemie Wyckmans, Dirk Ahlers, Elisa Junqueira de Andrade (NTNU)
<b>Contributors</b>	Executive Board by Rosie Webb, Terence Connolly, Pat Stephens (LCCC); Silja Rønningsen, Bjørn Ove Berthelsen (TK); Tudor Drambarean (MAI); Miloš Prokýšek, Jiří Tencar (MP); Luis Carlos Delgado Ortiz, Andy Bäcker (SB); Eftima Petkova (SMO); Siim Meeliste (VORU); Helena Fitzgerald, (UL).

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# Table of Contents

Table of Contents	2
List of Acronyms	3
Executive Summary	5
<b>1 Interaction with other SCC Projects, Scalable Cities and the Smart Cities Marketplace</b>	<b>6</b>
1.1 Scope	6
1.2 The SCC Board of Coordinators and Scalable Cities	6
1.3 Cooperation with the Smart Cities Marketplace	7
1.4 Cooperation towards the EU Cities Mission	8
1.5 Cooperation towards the New European Bauhaus	10
1.6 SCC Task Groups	10
1.6.1 Task Group Replication	10
1.6.2 City Coordinators Group	11
1.6.3 Task Group Communication	11
1.6.4 Task Group Monitoring	11
1.7 Other meetings and events	12
1.7.1 Smart City Expo Barcelona (16-18 November 2021)	12
1.7.2 CommunityxChange and EnoLL at the French presidency	12
1.7.3 Sustainability Forum Sofia (20 April 2022)	13
<b>2 Cooperation with EERA, SET-Plan Action 3.2 and the Driving Urban Transitions Partnership</b>	<b>14</b>
2.1 Cooperation with the European Energy Research Alliance	14
2.2 Cooperation with SET-Plan Action 3.2	14
2.3 Towards a European Integrated Framework for PEDs	15
<b>3 Conclusions</b>	<b>17</b>



## List of Acronyms

<b>BREEM</b>	Building Research Establishment Environmental Assessment Method
<b>BOC</b>	Board of Coordinators
<b>COST</b>	European Cooperation in Science and Technology
<b>DG ENER</b>	Directorate-General for Energy
<b>DGNB</b>	German Sustainable Building Council
<b>EC</b>	European Commission
<b>EERA JPSC</b>	European Energy Research Alliance, Joint Programme on Smart Cities
<b>ERRIN</b>	European Regions Research and Innovation Network
<b>FAC</b>	Future Analytics Consulting, Ireland
<b>INEA</b>	Innovation and Networks Executive Agency
<b>ISOCARP</b>	International Society of City and Regional Planners
<b>JPI UE</b>	Joint Programming Initiative Urban Europe
<b>KPI</b>	Key Performance Indicator
<b>KPMG FA</b>	KPMG Future Analytics
<b>LCCC</b>	Limerick City and County Council
<b>MAI</b>	Municipality of Alba Iulia, City of Romania
<b>MP</b>	Mesto Pisek, City of Czeck Republic
<b>NTNU</b>	Norwegian University of Science and Technology
<b>OV</b>	Officina Verdi Group
<b>PEB/D/N</b>	Positive Energy Blocks / Districts / Neighbourhoods
<b>POW</b>	Powel AS
<b>R&amp;I</b>	Research and Innovation
<b>R2M</b>	Research to Market
<b>SB</b>	Sestao Berri 2010 Sociedad Anonima
<b>SCALE</b>	European Smart and Lighthouse Cities Amplified
<b>SCC</b>	Smart Cities and Communities
<b>SCC01</b>	Horizon 2020 Smart Cities and Communities call
<b>SCIS</b>	Smart Cities Information System
<b>SCM</b>	Smart Cities Marketplace
<b>SET-Plan</b>	Strategic Energy Technology Plan



<b>SMO</b>	Obshtina Smolyan, City of Bulgaria
<b>TG</b>	Task Group
<b>TK</b>	Trondheim Kommune
<b>VORU</b>	Võru Linnavalitsus, City of Estonia
<b>WP</b>	Work Package



## Executive Summary

+CityxChange actively pursues synergies with other relevant EU platforms and projects, facilitating collaboration and exchanging good practices.

This series of reports describes the participation and lessons learned by +CityxChange partners in events organised by other SCC projects, the Board of Coordinators, Scalable Cities, the Smart Cities Marketplace (SCM), the EU Cities Mission, the NetZeroCities Platform, the New European Bauhaus, SET-Plan Action 3.2, the Driving Urban Transitions Partnership, and the EERA Joint Programme Smart Cities, during the seventh six-month period of the project M37-M42.

This report is Deliverable 9.18 of the +CityxChange Task 9.2 on Extra-Project Cooperation through other SCC01 projects and EU platforms, in Work Package 9 “Inter-Project Collaboration and Clustering”. Some general content is repeated from the previous D9.15, especially on longer running collaborations and background information. This report complements Deliverable D9.17 “Report on Intra-Project Collaboration Including Study Visits and Peer to Peer Workshops 7”.



# 1 Interaction with other SCC Projects, Scalable Cities and the Smart Cities Marketplace

## 1.1 Scope

In the +CityxChange project, we cooperate with other H2020 SCC projects, the Scalable Cities secretariat and the Smart Cities Marketplace to anchor our experiences in a broader setting, to get feedback by peers, and to share learnings that might help ourselves and others achieve goals faster and better – and to learn from stories of failure. Some common parts of this section are repeated from D9.15.

## 1.2 The SCC Board of Coordinators and Scalable Cities

+CityxChange participates in the online meetings of the Board of Coordinators (NTNU), and the Task Groups on Replication (R2M, co-chair, and NTNU), Communication & Dissemination (ISOCARP), Business Models and Finance (OV), Monitoring (KPMG FA) and City Coordinators Group (Lighthouse and Fellow Cities, and NTNU). These groups meet regularly in online meetings.

The Board of Coordinators (BoC) of the SCC projects meets online on a monthly basis, supported by the Scalable Cities Secretariat. Every other month, the BoC meeting is extended with participation by representatives of the Smart Cities Marketplace and DG ENER. Typical topics of discussion are:

- Mission Papers and Solution Booklets based on cooperative efforts to bridge the implementation gap, in particular related to financial, regulatory and governance challenges;
- Scalable Cities Calls for Experts, in this period related to “Digitalisation in urban energy systems” and “Systemic changes in governance”;
- Cooperation towards the EU Cities Mission, the NetZeroCities platform and the New European Bauhaus;
- Risk registration and mitigation, and project extensions, due to COVID-19;
- Joint dissemination activities such as the IRIS - Scalable Cities SCC community event in Utrecht 1-2 June, and participation in the Smart City Expo Barcelona 15-17 November;
- Updates from the Task Groups.

A group of project members from ATELIER, ENERGE, MakingCity, mySmartLife, Pocityf, and +CityxChange formed around a workshop at Sustainable Places 2020 (see D9.10). The collaboration, aiming to consolidate learnings regarding energy citizenship and PEDs, is continuing with regular meetings and development of joint articles. The first ones were a



summary article on the workshop around the topic of Energy Citizenship<sup>1</sup>, and an extended version with further background and open questions.<sup>2</sup> Further publications and a future workshop at Sustainable Places 2022 is in planning. This helps to aggregate learning and open questions between the project and find valuable topics for exchange and learning.

### 1.3 Cooperation with the Smart Cities Marketplace

NTNU (WP9) and R2M (WP8) cooperate with the Smart Cities Marketplace (SCM) to identify opportunities for +CityxChange partners to cooperate on topical Action Clusters and Initiatives, masterclasses, matchmaking, cities-meet-investors meetings and similar activities organised by SCM. +CityxChange participates in the regular Action Cluster meetings and Partnership Forum (previously known as General Assembly).

On 9 November 2021, NTNU, POW and TK participated in an online workshop of the Action Cluster on Integrated planning, policy and regulation, on the challenge of “Let’s shape together 2022 Action Cluster activities and explore together opportunities”. NTNU, POW and TK contributed as Initiative Leads on Regulatory Frameworks. The event also included presentations by the other Initiative Leads, the Action Cluster Lead, DG ENER, the NetZeroCities Mission Platform, the New European Bauhaus and the Living-in.eu initiatives. The discussions made it clear that all initiatives are shaping their activities to support the EU Cities Mission and the New European Bauhaus initiative. This gives new opportunities for cooperation, but also requires restructuring of the activities to avoid fragmentation. The results of the discussion will be integrated towards the definition of the tender for the new contracting period for the Smart Cities Marketplace from Summer 2022 onwards.

On 26-27 April 2022, NTNU participated in the Smart Cities Marketplace Forum in Brussels. The Forum was organised together with the Covenant of Mayors, the European Innovation Council and the Netherlands Enterprise Agency, and was streamed live to include online participants. As this was the first physical meeting of SCM since before COVID, many partners used the opportunity to network with colleagues on-site and to discuss future cooperation. The programme included, amongst others, a workshop related to the SCC Mission Paper on Systemic changes in governance (coordinated by external expert Locality in cooperation with NTNU), and discussions related to near-future priorities and changes in organisations structures within the Smart Cities Marketplace.

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<sup>1</sup> Energy Citizenship in New Energy Concepts. van Wees, M.; Revilla, B.P.; Fitzgerald, H.; Ahlers, D.; Romero, N.; Alpagut, B.; Kort, J.; Tjahja, C.; Kaiser, G.; Blessing, V.; Patricio, L.; Smit, S. *Environ. Sci. Proc.* 2021, 11, 27. <https://doi.org/10.3390/environsciproc2021011027>

<sup>2</sup> Energy Citizenship in Positive Energy Districts—Towards a Transdisciplinary Approach to Impact Assessment. van Wees, M.; Revilla, B.P.; Fitzgerald, H.; Ahlers, D.; Romero, N.; Alpagut, B.; Kort, J.; Tjahja, C.; Kaiser, G.; Blessing, V.; Patricio, L.; Smit, S. *Energy Citizenship in Positive Energy Districts—Towards a Transdisciplinary Approach to Impact Assessment*. *Buildings* 2022, 12, 186. <https://doi.org/10.3390/buildings12020186>



## 1.4 Cooperation towards the EU Cities Mission

All SCCs encouraged their cities to submit an Expression of Interest towards the EU Cities Mission, with a deadline 31 January 2022. In support of this effort, many SCC cities participated in a webinar organised by the EU Cities Mission and NetZeroCities platform on 10 December 2021. Scalable Cities, TG Replication and the City Coordinators Group organised an online information session specifically for the SCC cities and projects on 17 December 2022, with a presentation by Matthew Baldwin, head of the EU Cities Mission, followed by a Q&A session. In total, 377 cities from all 27 EU Member States and Associated Countries applied. On 28 April 2022, the 112 selected Mission Cities were publicly announced, including 53 SCC cities. The BoC, Scalable Cities and the Task Groups are discussing how we can support our cities in their Cities Mission journey.

In 2021, the BoC and Scalable Cities in cooperation with the Smart Cities Marketplace started to systematically extract learnings and experiences across projects and summarise them into recommendations for the EU Cities Mission and NetZeroCities Mission Platform. In 2021, we delivered two Mission Papers to the EC Cities Mission.

Each Mission Paper summarised important experiences across the SCC projects on a particular challenge, to inform and advise the EU Cities Mission and NetZeroCities Mission Platform in their roll-out of 112 climate-neutral cities by 2030. Mission Paper 1 summarised challenges and advice related to funding and financing of the transition towards climate-neutral cities, while Mission Paper 2 suggested five essential conditions to achieve Climate Neutral Cities:

- Make room for holistic, flexible, 5-year calls in Horizon Europe and the Mission Board
- Climate City Contracts that support the mandates of local and regional authorities
- Green finance for urban decarbonisation ecosystems
- Capture and codify the work of demonstrators to build confidence in investors, support common solutions, and underpin massive scale-up
- Support cohesion with dedicated mechanisms

MP2 was discussed with the EU Cities Mission, SCCs and Scalable Cities during a hybrid working meeting in Brussels on 26 November 2021, with NTNU present on behalf of +CityxChange and as coordinator of the Mission Paper 2 writing process on behalf of the SCCs. Based on feedback from this meeting, Mission Paper 2 was fine-tuned and re-submitted to the EC in Spring 2022. +CxC actively contributed to both MPs.

Based on the meeting with the EU Cities Mission in November, the topic for a third Mission Paper was defined during a follow-up brainstorming session between Scalable Cities and the SCCs, on the systemic changes in governance required for SCC Lighthouse and Fellow Cities to reach their targets.

For Mission Paper 3, Scalable Cities dedicated resources to issuing an open call for external experts that could source material among the SCCs and write the paper, with

representatives from the SCCs, the City Coordinators Group, TG Replication and Scalable Cities as a core group to coordinate with the external experts. +CxC's Project Coordinator is the main representative on behalf of the SCCs. In order to further support the external experts, a resource group is formed among the BoC. This resource group commits to making additional material available from their SCC projects and taking part in online meetings in which preliminary findings are discussed. +CxC's Project Manager takes part in this resource group.

Several meetings were organised between the external experts and the resource group, City Coordinators Group and TG Replication, in order to source relevant material from the SCCs and support the external experts in interpreting and prioritising the available material. During these discussions, it became clear that the outcome of this process should be a Solution Booklet with dedicated information for cities, rather than a 2-page policy brief as MP1 and MP2 have been. The core group organised amongst others the following meetings with city stakeholders:

- 27 January 2022, online, with the City Coordinators Group, TG Replication and the SCC MP3 Resource Group
- 18 March 2022, online, meeting between the external experts and the SCC MP3 Resource Group
- 7 April 2022, online, meeting between the external experts, the City Coordinators Group, TG Replication and the BoC
- 21 April 2022, Brussels, workshop between the external experts, the Core Group, and EnergyCities city representatives, with group discussions. Matthew Baldwin, head of the EU Cities Mission, attended the session and gave feedback on its main findings.
- Upcoming: 2 June 2022, Utrecht, presentation of preliminary results during a workshop with participants of the IRIS - Scalable Cities SCC community event

We find the process of defining joint challenges across SCC projects, extracting on-the-ground experiences from each project, and summarising them in 2-page position papers or city-targeting Solution Booklets (e.g. the Citizen Engagement booklet described in D9.8), highly rewarding. Having to agree on a common text among the projects gives additional commitment to the discussions compared to simply presenting experiences to each other. We have therefore actively engaged in the core group and resource group for MP3. As the process with engaging external experts is very different from the Board of Coordinators writing its own MPs, this cooperation is a pilot in which we need to find the most appropriate roles, mandates and responsibilities for all involved. Engaging external experts does give additional capacity to the process, making the process of co-writing Mission Papers and Solution Booklets more sustainable in the long term.



## 1.5 Cooperation towards the New European Bauhaus

The BoC, Scalable Cities and Smart Cities Marketplace jointly contributed to the “LIFE in the New European Bauhaus” Event<sup>3</sup>, organised by the LIFE programme 15-17 November 2021. NTNU actively participated in the core group across these three organisations, to gather relevant speakers among the SCC Lighthouse and Fellow Cities and document the NEB activities already ongoing in the SCC projects. This exercise showed us that there is a lot of interest in NEB in our initiatives.

Several SCC and Scalable Cities partners continued their engagement towards the New European Bauhaus, amongst others by submitting joint proposals towards the HORIZON-MISS-2021-NEB-01-01 call on “Support the deployment of lighthouse demonstrators for the New European Bauhaus initiative in the context of Horizon Europe missions”. 5 NEB Lighthouse projects are to be selected for funding and expected to start around October 2022.

The CrAFt project, funded through the HORIZON-MISS-2021-CIT-01-02 call on “Collaborative local governance models to accelerate the emblematic transformation of urban environment and contribute to the New European Bauhaus initiative and the objectives of the European Green Deal”, will start on 1 May 2022, with NTNU as Project Coordinator, partially building on the experiences and interests of the SCC projects towards the EU Cities Mission and NEB.

## 1.6 SCC Task Groups

### 1.6.1 Task Group Replication

As summarised in previous deliverables in this series, the Replication Task Group (TG) aims to accelerate scaling up and replication of SCC projects, solutions and processes. In order to achieve this, the TG facilitates knowledge sharing on replication activities among the SCC projects, including commonly used roadmaps, toolkits and assessment techniques. In addition, the TG promotes cooperation among SCC projects to jointly overcome challenges and barriers, and to promote drivers for replication.

TG Replication participates in alignment meetings with EERA Joint Programme Smart Cities, the Driving Urban Transitions Partnership, the Smart Cities Marketplace, COST Action PED-EU-NET and IEA EBC Annex 83.

In M37-42, particular topics of interest have been development of an updated strategic programme, distribution of roles and responsibilities with the City Coordinators Group, and cooperation towards the EC Cities Mission and the NetZeroCities platform.

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<sup>3</sup> <https://bauhaus-life-event.b2match.io/agenda>

## 1.6.2 City Coordinators Group

The City Coordinators Group (CCG) connects the City Coordinators of Lighthouse and Fellow Cities across SCC projects, to exchange experiences and develop new cooperations. The CCG cooperates closely with TG Replication, and is responsible for 2 main objectives: sharing replication experience of Fellow Cities, and dissemination of replication approaches and experiences.

On 19 November 2021 the City Coordinators Group, together with the Scalable Cities Roadshow and Call for Experts invited SCC cities to a consultation session aimed at collecting and exploring the cities' needs and priorities, with the final purpose of using this information to draft the profiles for the Call for Experts accordingly.

This presented a good opportunity for the SCC cities to give their input and shape the profiles of the experts according to their specific and prioritised needs. Working with external experts is still new within the SCC projects and a lot of the discussion revolved around what the role of the experts would be, how the interaction would be organised between the SCC cities and the experts, and similar concerns. As external experts will be involved in more SCC and Scalable Cities activities from 2022 onwards, there will be more opportunities to shape and prioritise specific topics.

## 1.6.3 Task Group Communication

ISOCARP participates in the TG Communication on behalf of +CityxChange. This provides added value to +CityxChange in the form of coordination and joint approach with Scalable Cities and the SCC projects for events, the sharing of invitations to webinars and similar events, coverage in newsletters of other SCC projects, resharing posts on social media, answering questions for new projects, and joining forces to improve overall impact presentation.

## 1.6.4 Task Group Monitoring

+CityxChange participates in the Task Group on Monitoring. The Task Group facilitates the cross-project collaboration of responsables for monitoring and evaluation in each SCC project, aiming to improve and share:

- Common understanding on the scope and meaning of monitoring and evaluation, scope, evaluation boundaries, and monitoring protocols for quantitative as well as qualitative project outcomes; developing social evaluation methods; addressing common practical M&E issues and common methodological evaluation issues;
- Mapping of Key Performance Indicators used across projects, aiming to harmonise them for better cross-project comparison and learning, and to identify gaps for new



KPIs to be developed (e.g., related to Positive Energy Districts, qualitative outcomes, environmental, financial and societal KPIs);

- Facilitate reporting to the Smart Cities Marketplace (formerly known as SCIS), including discussion of appropriate data boundaries and scoping for reporting, as well as methodological differences, to find a common reporting approach for comparable results.

The work of TG Monitoring is enriched by cooperation with IEA EBC Annex 83<sup>4</sup> on Positive Energy Districts, connecting research to the monitoring practices of SCC lighthouse demonstrators. It was also discussing the more technical details of PED indicators and what the projects could already contribute out of their work.

## 1.7 Other meetings and events

### 1.7.1 Smart City Expo Barcelona (16-18 November 2021)

NTNU attended the expo (+CxC did not have a larger presence due to uncertainties related to COVID) and interacted at the Nordic Pavilion with Nordic partners and cities, with the Stockholm stand of GrowSmarter, and multiple other SCC projects.

The expo was much smaller than in previous years, but also allowed more time for interactions. Communication with people and cities at the Nordic Pavilion was relevant to renew contact and outreach. Interaction with the stand of GrowSmarter and other Lighthouse projects and cities was valuable to exchange general updates, challenges and reactions to Covid and strategic and technical mitigations.

Many cities see a renewed need for urgency, which is yet difficult to translate into dedicated action and availability of funding. The format of a smaller Expo was welcome by many as a missed venue for meet-ups and discussion. This network effect and the ability to find some meeting points at certain stands was important to facilitate serendipitous encounters. Even in more prepared events, it remains valuable to have common meeting points.

### 1.7.2 CommunityxChange and ENoLL at the French presidency

UL participated in the High-level Conference on Citizen Engagement in EU Missions, organised on 21 March 2022 in Paris as part of the French Presidency. UL was invited to a booth hosted by ENoLL, to share the CommunityxChange approach to citizen engagement developed through +CityxChange and implemented within the +CxC Lighthouse and Fellow Cities. CommunityxChange informs the operation of Limerick's Citizen Innovation Lab – a member of the European Network of Living Labs (ENoLL) – initiated through the +CityxChange project in Limerick.

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<sup>4</sup> <https://annex83.iea-ebc.org/>



At the event, UL conveyed early results of the integrated operation of the six CommunityxChange frameworks indicating that they can create a platform for continuing collaboration with the potential to support citizen engagement in co-design, co-implementation and co-assessment of the EU Cities Mission<sup>5</sup>. Further dissemination material included slides with tag lines, a video, a poster, and an ENoLL flyer with the +CxCh logo shared on social media.

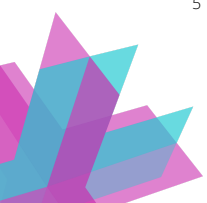
Based on this experience, UL is planning to produce a CommunityxChange summary that lies fully within the +CityxChange project identity, to be shared with the Mission Cities and in particular the cities that submitted an Expression of Interest but were not selected.

### 1.7.3 Sustainability Forum Sofia (20 April 2022)

Smolyan participated in the Sustainability Forum Sofia, a high-profile event dedicated to urban sustainability. The aim of the event was to bring together key local and international experts from the sector at government, expert and business level to present and discuss the latest trends in sustainable urban planning and buildings. The Forum was organised by the Bulgarian Green Building Council and the MakingCity Project. The event featured several presentations of different tools on the way to achieving sustainable cities - financial instruments, building design, construction materials and urban planning as resources to achieve a green environment.

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<sup>5</sup> <https://cityxchange.eu/cityxchange-at-high-level-conference-on-citizen-engagement-in-eu-missions/>



## 2 Cooperation with EERA, SET-Plan Action 3.2 and the Driving Urban Transitions Partnership

### 2.1 Cooperation with the European Energy Research Alliance

As reported in previous deliverables of this series, EERA JP Smart Cities is an official stakeholder in the SET-Plan Action 3.2, and EERA JPSC partners are involved in all SCC projects. Most Project Coordinators of the SCC projects from 2018 and onwards are all EERA JPSC partners, and NTNU leads the EERA JPSC.

EERA JPSC is developing a strategic research and innovation agenda for Positive Energy Districts and climate-neutral cities, to support SET-Plan Action 3.2/Driving Urban Transitions Partnership as well as the Mission on Climate-Neutral and Smart Cities. As a concerted effort between European universities and RTOs, the strategic research agenda provides a scientifically valid and practically viable methodology (bridging science and practice), a systemic dimension (merging technical, spatial, regulatory, innovation, economic, social and other perspectives), and a mixture of participatory, practice-based, transformative, experimental and technical research, to support the real-time and future challenges European cities experience in their ambitions to develop, scale up and replicate Positive Energy Blocks, Districts and Cities.

### 2.2 Cooperation with SET-Plan Action 3.2

As reported in previous deliverables in this series, SET-Plan Action 3.2 Smart Cities and Communities aims to create 100 Positive Energy Districts by 2025. +CityxChange contributes to this Action by sharing knowledge regarding definitions, boundary conditions and Key Performance Indicators, as well as experiences from the participating Lighthouse and Follower Cities on planning and implementing Positive Energy Blocks and Districts. SET-Plan Action 3.2 is coordinated by the Austrian Federal Ministry of Transport, Innovation and Technology (BMVIT), and managed by Joint Programming Initiative Urban Europe (JPI UE).

+CityxChange contributes to SET-Plan Action 3.2 both directly as an SCC lighthouse project, and through European networks such as EERA Joint Programme Smart Cities and the European Innovation Partnership on Smart Cities and Communities. In addition, NTNU (Annemie Wyckmans) is R&I Chair of the Stakeholder Group to SET-Plan Action 3.2, which enables her to participate in the SET-Plan Action 3.2 Steering Committee as an observer. This position enables us to align R&I efforts across European platforms; the SET-Plan Action 3.2 Stakeholder Group includes, amongst others, representatives from SCC projects, the EERA Joint Programme Smart Cities, the Urban Europe Research Alliance, the European Construction Technology Platform, and ERRIN. Some parts of this section are repeated from D9.15.

One of the most promising opportunities for cooperation is the development of an integrated PED framework for Europe.

## 2.3 Towards a European Integrated Framework for PEDs

+CxC actively contributes to the European alignment work on PEDs between the Smart Cities Marketplace, the Driving Urban Transitions Partnership and SET-Plan Action 3.2, the COST Action PED-EU-NET, IEA EBC Annex 83, the SCC TG Replication and SCALE (now Scalable Cities). The alignment aims to create an integrated PED definition and framework that will be comparable transnationally, with measurable KPIs that can support the European mission of achieving 100 PEDs by 2025 (SET-Plan Action 3.2), and support the PED calls to be launched by the PED programme and the PED pillar of the Driving Urban Transitions Partnerships. For further details regarding the initial activities, see D9.15.

On 11 November 2021, NTNU contributed to organising a PED City Panel workshop, hosted by JPI Urban Europe. During the workshop, we presented a draft paper on the Integrated Framework to experts from local, national and European levels. In addition to asking for feedback to the direct content of the paper, in particular requirements for indicators (technological, environmental, social) and certification schemes, we inquired about framework conditions that would be required in order to support for local implementation, as well the potential contribution of such a framework towards climate-neutral cities (EU Cities Mission). Furthermore, we discussed the structural transformation of the SET-Plan Action 3.2 PED Programme into a transition pathway of the prospective Horizon Europe Partnership "Driving Urban Transitions" and future cooperation between city authorities and the PED Programme within this framework.

The progress on this Integrated Framework for PEDs was presented during the SET-Plan Action 3.2 Steering Committee meeting of 17 November 2021, online. The presentation included information on the PED definition, cooperation with other initiatives, and national consultations.

On 29 November 2021, a dedicated workshop was held for the +CxC partners to give input to the framework.

On 17 December 2021, an internal workshop was held among the alignment partners, including NTNU, to discuss feedback from the Steering Committee and identify next steps. These included, amongst others, to further detail the quality-related aspects and context factors of the definition as a dedicated track. In parallel, the quantitative KPIs of the definition will be further developed in order to produce a viable assessment method. The overall ambition remains, of course, to produce an integrated framework across these three dimensions.

On 3 February 2022, a follow-up workshop was held within the alignment group, with participation by NTNU, to further consolidate the basic approach. The workshop included a discussion on whether a (minimum) quantitative PED definition on European level is





needed, and, if yes, what are the aspects and parameters that should be defined. Furthermore, we discussed whether context factors are a feasible approach, and for which purpose they can be used.

On 9 March 2022, NTNU hosted an online workshop on behalf of EERA Joint Programme Smart Cities, to discuss quality-related indicators for the Integrated Framework on PEDs. The workshop included plenary and group work on worst- and best-case scenarios for the integrated approach, how these could be avoided or strengthened, and identification of co-benefits between quality-related and quantitative aspects that could support the integrated approach. The participants were tasked with finding additional KPIs that are already in use by assessment systems and could be applied to the PED Integrated Framework. Preliminary results included, amongst others, clear feedback that we should prioritise to develop a strategy on how to get to an integrated approach, than on identifying detailed lists of indicators, as details would be elaborated on national/regional levels. Furthermore, contributors identified relevant sets of KPIs within existing assessment schemes such as DGNB and BREEAM.



### 3 Conclusions

During months 37-42 of the +CityxChange project, we have continued to reinforce our interactions with other SCC projects, Scalable Cities, the Smart Cities Marketplace, SET-Plan Action 3.2, the Driving Urban Transitions Partnership and EERA JP Smart Cities. In addition, we have engaged more prominently in activities towards the EU Cities Mission, the NetZeroCities Mission Platform and the New European Bauhaus initiative.

The opportunity to connect with other lighthouse demonstrators and to exchange experiences on processes, technologies, regulatory challenges and other learnings, and to convey these towards decision makers at national and European level, is invaluable. We have therefore taken on several active and coordinating roles towards other projects and platforms, to help accelerate the development and dissemination of these cross-cutting insights.

