



INTEGRATED PLANNING, POLICY AND REGULATIONS

ACTION CLUSTER ROADMAP 2021-2022

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Background Action Cluster

Within the EIP-SCC, the Action Cluster of Integrated Planning, Policy and Regulation focuses on what is needed to plan and manage smart city projects in an integrated way.

Integrated planning and implementation of smart sustainable and climate-neutral city projects can be considered as: an iterative sequence of phases from planning to implementation and replication, which integrates in any phase: 1) a long-term perspective and long-term obligations when deciding upon short-term actions; 2) multiple policy domains and sectors next to different disciplines in science and practice; 3) a combination of multiple energy, transport and ICT technologies in one territory; 4) all stakeholders and (end-) users, government levels and their mandates and responsibilities; 5) financial and economic aspects, current and new value chains, and any co-benefits¹.



The Action Cluster counts three initiatives:

- The initiative “Tools for Decision-Making, Management and Benchmarking”, led by Bernard Gindroz (BGM Consulting)
- In the initiative “From Planning to Implementation and Upscaling of Smart City Projects”, led by Judith Borsboom (Locality) and Margit Noll (JPI Urban Europe), partners collaborate on the exchange of experiences in the integrated planning and implementation of smart city projects, and their upscaling and replication afterwards to achieve the urban transition to smart and sustainable cities on an increasing scale across Europe.
- The recently established initiative “Regulatory Frameworks” is led by Annemie Wyckmans (NTNU), Marit Myrstad (Trondheim Kommune) and Klaus Livik (Powel). The Initiative will identify and support concrete changes for the regulatory framework to become an enabler towards climate-neutral cities, rather than a barrier. It will be based on the experiences of +CityxChange and other SCC01 Lighthouse projects, and further developed together with Smart Cities Marketplace experts and practitioners.

¹ J. Borsboom-van Beurden, M. Garcia Fuentes, H. Strasser, K. Urrutia Azcona, B. Gindroz, J. Kallaos, S. Costa (forthcoming), A novel method for integrated planning and implementation of smart and climate-neutral cities.

Recent developments and achievements

In the last year, several activities have taken place:

- Special event at Smart Sustainable Planning for Cities and Regions Conference – 10 December 2019 – hosted by EURAC, 80- 100 attendees

Organised by Action Cluster IPPR together with Urban Europe Research Alliance, JPI Urban Europe, SET Plan 3.2 Positive Energy Districts, Horizon 2020 smart city lighthouse projects Smarter Together, REPLICATE, +CityxChange and STARDUST, the European Energy Award, and Tuscan Organization of Universities and Research for Europe

Focus on how local governments can be better supported

Report of the event in Springer book in series Green Energy and Technology, publication January 2021, summary on the website of the Action Cluster



Scientific publication with core group planned

Key take aways:

Cross-domain working, multi-disciplinarity and profound stakeholder engagement are of paramount importance for making districts or cities effectively smarter and more energy-efficient, and Europe provides many excellent examples;

A commonly accepted definition of integrated planning and implementation is still lacking and some key aspects of smart and energy-efficient cities are not always incorporated, such as urban data as an enabler. A comprehensive definition could facilitate the integration of different concepts and tools in future, enlarging their joint applicability for users as city administrations;

To better support local governments, it would also help to make current concepts and tools better accessible for time-pressured city administrations, adapt them towards specific urban situations and contexts, and translate them into specific local processes and procedures;

There are still some persistent knowledge and innovation gaps research could address, such as making clear which technologies are when applicable, which stakeholders should be engaged then, and which dilemmas can be expected; or: investigating how to make smart city plans ready for procurement;

Next to Horizon Europe and Green Deal funding, ERDF funding will be available for local innovation, while synergies between ten European direct funding programs (including Horizon Europe, Digital Europe and Invest EU and ERDF) will be possible to promote the entire chain from low to high Technology Readiness Level, stimulating not only SME participation but also providing opportunities for researchers and practitioners;

The commitment of 100 cities through city contracts as planned by the Mission on Climate-Neutral and Smart Cities in Horizon Europe, would mobilize citizens, policies and actors well beyond research and innovation.

→ Preparation new Initiative on Regulatory Frameworks, led by Annemie Wyckmans (NTNU), Marit Myrstad (Trondheim Kommune), Klaus Livik (Powel) on 29 October 2020, about 70 attendees

Presentations:

Smart City Guidance Package for „Community on Practice of Cities Webinar How to scale up digital solutions in smart cities and communities?“, organized by DG-Connect at 26 May 2020

Presentation of the Smart City Guidance Package as part of the SCC-01 lighthouse project SmartenCity Academy Lesson 4 on 22 September 2020

Smart Cities Marketplace booklet summarising Smart City Guidance Package has been developed + additional financial information: to be published end of 2020

By JPI Urban Europe/SET Plan Action 3.2 PED Programme:

Launch [Positive Energy Districts pilot call](#);

ERA-NET Cofund PEDs (ENPED): proposal submitted; update of [PED Booklet](#);

Viable Cities (SE) new member of Programme Management, focusing on replication strategies;

Cooperation with SCALE project started

JPI Urban Europe:

Project Results Catalogue in ERA-NET Cofund Smart Urban Futures ([ENSUF](#)) now online;

ERA-NET Cofund Urban Accessibility and Connectivity ([ENUAC](#)), first call launched;

ERA-NET Cofund on enhancing urban transformation capacities, first call in preparation

Preparation of [Urban Partnership DUT](#):

development of roadmaps for the 3 pillars (PEDs, District Doughnuts, 15 minutes city)



Foreseen activities and outcomes

For the entire Action Cluster IPPR:

Webinar on synergies between EU funds and link to smart specialisation strategies (S3), preferably co-organised with Errin, Dutch Enterprise Agency, and regional authorities. We might link this also to the methodology of the SCGP to pose the right questions for a smart specialisation strategy and the link of R&I to the economic recovery plans, thus creating leverage. For example the plan of the Italian government to create a digital innovation hub which provides services to the public sector and is national co-ordination centre for Green Deal and digitalisation.



Initiative „Regulatory Frameworks“:

- Start planning the subgroups for charting regulatory and legal barriers in realising clean energy provision, see plan as outlined at 29 October
- Recruit members if needed and link to Dutch Smart City Developments
- Based on the canvas of priorities, needs and capacities, a working document will be drafted, summarising the state of the art in terms of regulatory frameworks for smart cities. This will be done in cooperation with the SCM Policy Paper.

This initial charting will give rise to a series of online working meetings. These will be held with down-to-earth, peer-to-peer knowledge exchange and cooperation between experts in this field on concrete cross-cutting activities. Depending on the specific scope, the working meetings will be held either in cooperation with core networks within their established meeting arenas, or organised by ourselves to attract participants across stakeholder networks. The working meetings will enable us to create an overview and substantiate whether and how regulatory frameworks are a problem for the development of climate-neutral and smart cities, to enable them to be better addressed.

Based on the working meetings, a first policy paper will be created, in cooperation with interested experts from EIP-SCC and other networks/platforms. The policy paper will be presented in selected European arenas, to generate concrete discussion and influence agenda-setting of national and European regulatory and other relevant policy frameworks. The policy paper will take stock of the most persistent problems now regarding regulatory frameworks, and chart and categorise the main problems with regulatory frameworks when planning and implementing smart and climate-neutral solutions.



In parallel to these meetings, this Initiative will clarify what is the realistic capacity and competency of the participants, in order to be able to plan for achievable outcomes. Together with the participants, we will create a timeline and growth plan for extending the original scope towards other aspects of smart and climate-neutral cities in the future. The growth plan will be discussed with EIP-SCC and presented at the end of Y1.

Initiative „From Planning to Implementation and Upscaling“:

Making the Smart City Guidance Package part of the new Smart Cities Marketplace website and developing an update mechanism. Gamification techniques and profiling should be considered here (in progress)

Translation of summary Smart City Guidance Package with Covenant of Mayors (if still relevant?) – anyway establish closer link to Covenant of Mayors (ComeEasy project?)

Joint workshop with Geospatial initiative to identify where earth observation data can play a role in integrated planning and implementation of climate-neutral and smart solutions

Further developing the content of the Smart City Guidance Package for multi-level governance, by recruiting new testbeds & applying for funding, preferably linked to specific topics in vertical ACs (Urban mobility and SUMP, Citizen Focus and Sustainable Districts, possibly also 100 Intelligent Cities).

Scientific article on different approaches to integrated planning with SCC-01 projects REMOURBAN and SmartenCity with the aim of making clear for what purpose which methodology and identifying synergies

- Explore possibilities for accreditation and certification besides training: handbook for future lighthouse projects?
- Promote integrated approaches to upcoming SET-Plan 3.2 call for Positive Energy Districts, e.g. idea for PED version if SCGP (we tried that in 2019 but unfortunately did not get the project)

Alignment with Driving Urban Transitions Partnership (This links also with the earlier idea of development of a robust strategy for collaboration with several networks, e.g. UERA, EERA JP SC, JPI UE, CoM for example on training activities). Organise joint meeting on creating synergies DUT SCM in near future. PED also part of DUT

Initiative „Tools, Standards and Benchmarks“ (based on exchange Bernard-Simona early 2020):

Liaise SCGP to CEN/CENELEC processes, identify opportunities, promote its use

Collecting expression of standardisation needs from all ACs for further consideration at EU standardization level (CEN/CENELEC/ETSI Sector Forum SSCC + new CEN TC 465)

CO₂ monitoring in cities,

Urban Heat Island Effect impacting on climate change mitigation and health



Join the community of the Action Clusters and Initiatives of the Smart Cities Marketplace

The community consists of many action clusters and initiatives with a variety of activities to help to shape the market for smart cities in Europe. These are assemblies of partners, committing to work on specific issues related to smart cities, by sharing the knowledge and expertise with their peers, providing added value with their national and local experience and identifying gaps that need to be filled at the European level. The work of each Action Cluster is collected under thematic initiatives.

An Initiative pools the work of the various partners around a particular objective while promoting learning beyond the project and geographic borders, and opening the results to the world at large. Links with EU-funded projects allow results to be consumed by thousands of active people on the Marketplace. Each Initiative is led by an Action Cluster.

Action Clusters of the Smart Cities Marketplace:

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