

D9.5: Report on attendance at events held by other SCC-01 co-ordinators 2

+CityxChange | Work Package 9, Task 9.2

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List of Abbreviations

+CxC	+CityxChange or Positive City ExChange
DG ENER	Directorate-General for Energy
EC	European Commission
EERA JPSC	European Energy Research Alliance, Joint Programme on Smart Cities
EIP SCC	European Innovation Partnership on Smart Cities and Communities
ERRIN	European Regions Research and Innovation Network
FAC	Future Analytics Consulting, Ireland
INEA	Innovation and Networks Executive Agency
ISOCARP	International Society of City and Regional Planners
JPI UE	Joint Programming Initiative Urban Europe
LCCC	Limerick City and County Council
MAI	Municipality of Alba Iulia
MP	Mesto Pisek
NTNU	Norwegian University of Science and Technology
PEB/D/N	Positive Energy Blocks / Districts / Neighbourhoods
R&I	Research and Innovation
R2M	Research to Market
SB	Sestao Berri 2010 Sociedad Anonima
SCC01	Horizon 2020 Smart Cities and Communities call
SDG	Sustainable Development Goals
SCIS	Smart Cities Information System
SET	Strategic Energy Plan
SMO	Obshtina Smolyan (Smolyan Municipality)
TK	Trondheim Kommune
TRD3.0	Universitetskommunen Trondheim 3.0
VORU	Võru Linnavalitsus (Võru Municipality)
WP	Work Package
ZEB	Zero Emission Building
ZEN	Zero Emission Neighbourhood



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1 Executive Summary

This report describes the participation and lessons learned by +CityxChange partners in events organised by other SCC01 projects, SET-Plan Action 3.2, EERA Joint Programme Smart Cities, SCIS, EIP SCC, and other European networks during the second six months of the project.

The report is Deliverable 9.5 of +CityxChange Task 9.2 “Extra-Project Cooperation with existing LHCs and FCs through clustering events and workshops run by existing SCC01 projects, EIP SCC, SCIS and other EU platforms”, in Work Package 9 “Inter-Project Collaboration and Clustering”. It complements Deliverable D9.4 “Report on Intra-Project Collaboration, Including Study Visits and Peer to Peer Workshops”.



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2 Interaction with other SCC01 Projects

2.1 Scope

+CityxChange partners participate in SCC01-organised events, workshops and Task Groups, and NTNU takes part in the SCC01 Board of Coordinators.

2.2 Launch of the Smart City Guidance Package (8 May 2019, Brussels)

On 8 May 2019, the Smart City Guidance Package was launched in Brussels, as one of the key results of the EIP SCC Action Cluster on Integrated Planning, Policy and Regulations. NTNU held one of the welcome addresses and participated in an interactive session on vision development on behalf of +CityxChange, together with a representative of the MAKING-CITY project.

2.3 ERRIN Smart Cities Working Group Meeting (14 May 2019, Brussels)

ERRIN (European Regions Research and Innovation Network) had invited for a workshop of their Smart Cities Working Group around the key topics of the two new Lighthouse Projects, titled Smart Cities WG Meeting: Latest developments on PEDs and the future of Smart Cities.

As the main contribution, the two new Lighthouse Projects funded through the H2020 SCC1 calls for 2018 were presented. Both +CityxChange and MAKING-CITY presented their project with presentations from their respective coordinators and cities. For +CityxChange, the Project Manager from the Norwegian University of Science and Technology (NTNU) and the Lighthouse City Manager for Trondheim Municipality held a joint presentation, titled +CityxChange – Developing a Lighthouse Project for Positive Energy Districts, on the approaches of the project and the background and motivation for the application process, highlighting the city needs, co-creation of a project proposal, and implications for collaboration. MAKING-CITY was represented by its Project Coordinator CARTIF, the Lighthouse City of Groningen, and the Follower City of Bassano del Grappa. There were four breakout discussion sessions on the topics of PEB/PEDs, Citizen Engagement, Follower cities, and Scaling up, financing and dissemination. The PEB/PED sessions were co-moderated by CARTIF and NTNU, the Citizen Engagement sessions were co-moderated by the City of Groningen and Trondheim Municipality. The details and the presentations are available from the event page¹.

¹ <https://errin.eu/events/smart-cities-wg-meeting-latest-developments-peds-and-future-smart-cities>



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Afterwards, informal discussions with MAKING-CITY were held on a variety of shared project-related topics to further the mutual understanding and collaboration.

2.4 EIP SCC General Assembly (16-17 May 2019, Brussels)

The EIP General Assembly took place 16-17 May 2019 in Brussels. It was visited by many relevant smart city actors including the European Commission, the SCC-1 Lighthouse Projects, and SCIS. The first day centered around investor and industry perspectives, while the second day was built around the EIP SCC action clusters. An exhibition area showed results and allowed for further discussions with relevant partners and stakeholders. For the action clusters, +CityxChange through its Project Manager participated in the Smart City Guidance Package, Energy topics, and the Small Giants initiative.

2.5 Study Visit by Tartu (4-5 September 2019, Trondheim)

A delegation of municipality of Tartu, Estonia, visited Trondheim in September 2019, for competence and experience exchange. Tartu is a Lighthouse City in the SCC01 project SmartEnCity.

Day 1 emphasised exchange of experiences between Trondheim and Tartu municipalities, beyond their work as Lighthouse Cities. These discussions included information regarding Trondheim's initiatives such as UN cooperation, UniversityCity (Trd3.0), and Smart City strategy. In addition, climate, energy, real estate and innovation strategies were presented and discussed, as well as how to work with citizen engagement and specifically youth and the next generation. The day concluded with a walk in the historic area of Trondheim and the +CityxChange demonstration area of Brattøra, followed by dinner.

On Day 2, +CityxChange was the centre of attention. The day started with information regarding research-based innovation towards SDGs and the TRD3.0 University-city cooperation on smart sustainable cities. This was followed by presentations and discussions about social innovation and artistic practices from both cities. The Research Centre on Zero Emission Neighbourhoods in Smart Cities presented their work with the ZEB Living Lab and ZEN pilot projects, the +CxC demonstration area at campus Gløshaugen, and the new H2020 project Syn.ikia working with sustainable plus energy neighbourhoods.

SCC01 projects +CityxChange and SmartEnCity were presented, and the experiences of Trondheim and Tartu as Lighthouse Cities discussed and compared. This session was followed by a site visit of the Sluppen PEB demonstration area.



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2.6 Smart Otaniemi - Energy solutions for the block level (12 September 2019, Oulu)

The Finnish Smart City initiative Smart Otaniemi had invited for a workshop on the topic of Energy solutions for the block level – Opportunities in Smart City business environment². It brought the business perspectives together with energy challenges and solutions at block level, such as the PEBs developed in +CityxChange,. NTNU and Trondheim Municipality gave a joint presentation on +CityxChange – Innovation and integrated measures for positive energy districts. MAKING-CITY was represented by the Lighthouse City of Oulu, who presented their project and deployment plans. A number of other initiatives also presented their solutions and started discussions. The project members further participated in a panel discussion on energy and research with a business perspective. The meeting concluded with individual sessions between the project to explore and shape potential for future collaboration.

2.7 Nordic Edge Expo (24-26 September 2019, Stavanger)

The Nordic Edge Expo is the largest Nordic expo on smart cities, and a valuable meeting place for companies, cities and institutions that are engaged in their missions towards becoming smarter cities while providing solutions for smarter societies, globally.

Trondheim municipality (TK) and NTNU had a joint booth, in which the +CityxChange project was promoted as part of the TRD3.0 Strategic University-City Agreement, with a delegation of around 15 persons. In addition, representatives of LCCC participated. TK and LCCC held a joint presentation about the +CityxChange project.

The +CxC partners participated in the following sessions organised by EIP SCC and the SCC01 Task Groups: “On a Mission for the European Cities of the Future - Achievements, Challenges, Opportunities” and “EIP-SCC Action Cluster Initiatives Workshop – to action!”, as well as the final event of the Triangulum project (23 September).

2.8 100% Climate Neutrality Conference 2019 (1-2 October 2019, Sønderborg)

NTNU presented +CityxChange at the 100% Climate Neutrality Conference, hosted by SCC01 Lighthouse City Sønderborg. The programme included, amongst others, sessions with and about the next generation, as well as presentations about the SmartEnCity SCC01 project and cities network.

²<https://smartotaniemi.fi/energy-solutions-for-the-block-level-opportunities-in-smart-city-business-environment-seminar-12-9-2019-in-oulu-2/>



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2.9 European Week of Regions and Cities (7-11 October 2019, Brussels)

NTNU, TK, LCCC, MP, and MAI participated in the European Week of Regions and Cities, speaking in and contributing to various events, including the final event of Triangulum, Remourban and GrowSmarter “From dream to reality. Sharing experiences from leading European smart cities.

LCCC, MP and NTNU participated in the H2020 RES in Buildings Clustering meeting organised by INEA on 8 October. This event invited a variety of H2020-funded projects to discuss opportunities for cooperation, including PVSITES, BIPVBOOST, Be-Smart, PVadapt, Hybrid-BioVGE, GeoFit, GEO4CIVHIC, SWS-Heating, TRI-HP, RES4BUILD, Ideas, Recognition, and SolBioRev, as well as SCC01 projects +CityxChange and MAKING-CITY. DG RTD presented Set Plan and Research priorities, DG ENER presented the RES Directive, and EASME presented a project overview of Energy Efficiency in Buildings.

LCCC and TK organised an event on “The future of urban energy systems: innovation for positive energy cities and sustainable communities”. During this event, the cities of Trondheim (NO) and Limerick (IE) explained how they are transforming how they work with local communities to adapt to the reality of a new energy market and adopt a positive energy behaviour. The two cities explained to the audience how they will develop innovative solutions that can be replicated across European cities in order to accelerate reaching the UN Sustainable Development Goals. Together with the EIP-SCC, they invited stakeholders to discuss the practical issues of developing Positive Energy Districts across Europe.

NTNU organised a full-day European Conference, bringing together stakeholders from academia, industry, funding agencies and public authorities to debate the shaping of the future research and innovation landscape. The conference provided opportunities for stakeholders to come together, deepen the dialogue and work across sectors and disciplines to contribute to influencing the shaping of two Horizon Europe missions: Healthy Oceans, and Climate-Neutral and Smart Cities. The cities session included recommendations based on experiences from +CityxChange as well as other SCC01 lighthouse projects, SCIS and European stakeholder networks related to SET-Plan Action 3.2. The session will result in a vision paper to be sent to the Mission Board of the Horizon Europe Mission on Climate-Neutral and Smart Cities.

2.910 SCC01 Smart Cities & Communities Lighthouse network event (17-18 October 2019, Lyon)

This event was organised by Smarter Together. The Lyon event was the 8th event organized by the Smart Cities & Communities network. The previous events have either focused on replicating solutions from the Lighthouse Cities to Follower cities (Brussels, Stavanger) or



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sharing experiences and best practices (San Sebastian, Sonderborg, Lisbon, etc.). It gave extensive opportunities for networking and knowledge exchange, as well as a Board of Coordinators meeting for ongoing collaboration and information.

2.10 SCC01 Online Board of Coordinators & Task Group Meetings

+CityxChange participates in the online meetings of the Board of Coordinators (NTNU), and the Task Groups on Replication (R2M), Communication & Dissemination (ISOCARP), Business Models and Finance (OV) and Monitoring (FAC and NTNU). +CityxChange has become co-coordinator of the Replication Task Group (R2M) together with SCC01 project IRIS. As already described in the previous sections, we also participate in the face-to-face meetings, e.g. in Lyon, Stavanger, and Barcelona.



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3 Contribution to SET-Plan Action 3.2

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 SCC01 lighthouse project, and through European networks such as EERA Joint Programme Smart Cities and the European Innovation Partnership on Smart Cities and Communities.

NTNU (Annemie Wyckmans) was in September 2019 elected as R&I Chair of the Stakeholder Group to SET-Plan Action 3.2.

3.1 PED Definition Workshop (6 May 2019, Brussels)

3.1.1 Scope

The PED Definition workshop was organised by EERA Joint Programme Smart Cities, as a result of the discussions held during the first PED City Workshop in Vienna on 3 April (see Deliverable 9.1). NTNU hosted the workshop in its offices in Brussels. Han Vandevyvere of VITO/NTNU led the workshop.

+CityxChange participated in the workshop with several partners: Pisek and Limerick municipalities, Smart M Power, and NTNU.

In addition the workshop had participants from Joint Programming Initiative Urban Europe, SCC01 projects MAKING-CITY and GrowSmarter, and EERA Joint Programme Smart Cities (Fraunhofer ISE, AIT, LNEG, IREC, SINTEF, Tecnalía, University of Bologna, ENEA, CIEMAT, and VTT).

3.1.2 Workshop Outcomes

The aim of the workshop was to define a PED as an example for others to follow, a target on which sectors can cooperate (smart grids, buildings, e-mobility etc). The working definition should make sure everyone can be on board in some manner (stepped approach), and to not make an unattainable ideal. The approach would be similar to the one used for near-zero energy buildings some years ago: originally it seemed like blue sky thinking, but the definition was gradually integrated into regulations and certifications.



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In the paragraphs below, we provide a brief summary of the key outcomes of the PED definition workshop. For more detailed descriptions, see the introductory presentation and working document in the Annex to this report.

We created the following working definition for Positive Energy Districts:

Positive Energy Districts (PED) are mixed-use energy-efficient districts that have net zero carbon dioxide (CO₂) emissions and actively manage an annual local surplus production of renewable energy (RES). They require interaction and integration between buildings, the users and the regional energy, mobility and ICT system, while ensuring social, economic and environmental sustainability for current and future generations.

We have identified four types of PEDs:

- **Auto-PED (PED_{autonomous}):** 'plus-autarkic', net positive yearly energy balance **within the geographical boundaries** of the PED and **internal energy balance** at any moment in time (no imports from the hinterland) or even helping to balance the wider grid outside
- **Dynamic-PED (PED_{dynamic}):** net positive yearly energy balance **within the geographical boundaries** of the PED but **dynamic exchanges** with the hinterland to compensate for momentary surpluses and shortages
- **Virtual-PED (PED_{virtual}):** net positive yearly energy balance **within the virtual boundaries** of the PED but **dynamic exchanges** with the hinterland to compensate for momentary surpluses and shortages
- **Candidate-PED (pre-PED):** no net positive yearly energy balance **within the geographical boundaries** of the PED but energy difference acquired on the market by importing certified green energy (i.e. realizing a zero carbon district).

We propose the following **boundary definitions**:

- **Geographical boundary:** Spatial-physical limits of the PED in terms of delineated buildings, sites and infrastructures – these may be contiguous or in a configuration of detached patches
- **Functional boundary:** Limits of the PED in terms of energy grids, e.g. the electricity grid behind a substation that can be considered as an independent functional entity serving the PED; a district heating system that can be considered as a functional part of the PED even if the former's service area is substantially larger than the heating sector of the PED in question; or a gas network in the same sense
- **Virtual boundary:** Limits of the PED in terms of contractual boundaries, e.g. including an energy production infrastructure owned by the PED occupants but situated outside the normal geographical PED boundaries (for example an offshore wind turbine owned through shares by the PED occupant community)

As next steps, we plan to investigate a range of questions, as formulated below:



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- Definition of energy flexibility
- Should we aim for a hard definition or checks-and-balances? (Hard definition + guidelines with checks and balances to help cities get there)
- Is the PED word appropriate?
- Is there a minimum size?
- Performance-based or based on measures? If performance-based, how do we ensure that we are sufficiently technology neutral to enable new technology solutions to fit in?
- What is affordable? For whom?
- Definition of functions and functional boundaries: inclusion of functions such as industry (or other functions), definition of the kind and share of mobility that should be accounted as part of the PED, etc.
- What reference to calculating the "annual local surplus"?
- What consequences does the inclusion of "ensuring social, economic and environmental sustainability" have for the definition? What if they are not considered, but are still energy positive?
- Is Auto-PED realistic and under which circumstances?

In addition, the plan is to develop a scientific paper to better understand the common parts + differences between the different concepts.

3.2 PED Webinar (7 June 2019, online)

The PED webinar was organised by JPI UE, as manager of SET-Plan Action 3.2. During the webinar, 3 panellists presented their most recent work, followed by a discussion and polling on priorities. The panellists were Hans-Günther Schwarz, Chair of SET Plan Action 3.2 / BMVIT; Annemie Wyckmans, Chair of EERA JPSC / NTNU; and Petra Schöfmann, Expert Energy Center / Urban Innovation Vienna.

The participants were also reminded to contribute their demonstration projects to the PED Programme Booklet of Positive Energy Districts in Europe:

https://jpi-urbaneurope.eu/app/uploads/2019/04/Booklet-of-PEDs_JPI-UE_v6_NO-ADD.pdf.

Next steps will include further discussions with stakeholders and problem-owners on the PED framework, further mapping activities and the development of an agenda for a joint call organised by JPI UE.

3.3 PED Programme Stakeholder Group Meeting (19 June 2019, Brussels)

This meeting was organised by JPI UE in Brussels, for all stakeholders of SET-Plan Action 3.2. The SET Plan Action 3.2/JPI Urban Europe PED Programme is supported by 19 countries and a stakeholders group that is committed to the Implementation Plan through activity fiches.



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During the meeting, the Stakeholder group including NTNU discussed the state of play and elaborated the next steps:

- Elaborating PED definition
- Mobilising and involving urban stakeholders
- Clarification on organisational matters
- ToDo's and next steps

The activities roadmap for 2019 was presented, along with the agenda for the upcoming PED joint calls. The stakeholders discussed how a PED City Platform could be best established, to support and complement already ongoing city cooperation in, amongst others, SCC01 projects and EIP SCC. Furthermore, the Smart City Guidance Package was presented, and its alignment with PED strategies investigated.

The Terms of Reference for PED Stakeholder Group involvement were proposed and discussed, as a basis for the election of Chairs for R&I, Cities and Industry among the Stakeholder Group.

3.4 Presentation to the SET-Plan Action 3.2 Steering Group (online, 27 June 2019)

On 27 June 2019, NTNU presented the activities of EERA JPSC related to SET-Plan Action 3.2, and its cooperation with other European stakeholder networks and SCC01 Lighthouse projects, to the Steering Group of SET-Plan Action 3.2 including national delegates.

3.5 ERRIN (22 October, Brussels)

As R&I Chair of the SET-Plan Action 3.2 Stakeholder Working Group, NTNU was invited to present during the "Smart Cities Working Group Meeting: Climate neutral and smart cities – from SET Plan to city mission", organised by ERRIN in Brussels. The agenda also included contributions by DG ENER and JPI UE, a discussion session on the role of cities in the SET-Plan, and the upcoming Horizon Europe Mission on Climate-Neutral and Smart Cities as well as the potential cities partnership.

3.6 Online IWG Stakeholder Meetings

NTNU participates in the online meetings of the SET-Plan Action 3.2 Implementation Working Group (IWG) Stakeholder Meetings, which are organised once every 1-2 months. NTNU originally participated in its capacity as Coordinator of the EERA Joint Programme Smart Cities, but now contributes in a dual role as +CityxChange Coordinator as well. During these meetings, the working structure of the IWG is discussed, and plans are made to set the Implementation Plan into action, with labs, tools, replication, monitoring and evaluation activities.



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In September 2019, Annemie Wyckmans was elected as R&I Chair for all stakeholder networks in SET-Plan Action 3.2. Chairs were also elected for “Cities” and “Industry”, in addition to “R&I”. This will enable us to extract and summarise R&I priorities and challenges from other European networks and SCC01 projects, to inform and influence the further development of SET-Plan Action 3.2 activities such as creating a PED Definition and framework, upcoming joint calls, and national support efforts.

3.7 Interaction with EERA and EERA JP Smart Cities

EERA JP Smart Cities is an official stakeholder in the SET-Plan Action 3.2, and EERA JPSC partners are involved in all SCC01 projects. The Project Coordinators of the 2018- and 2019-funded SCC01 projects, are all EERA JPSC partners, and NTNU leads the EERA JPSC.

EERA JPSC is developing a strategic research agenda for Positive Energy Blocks, Districts and Cities, to support SET-Plan Action 3.2 as well as the upcoming Mission on Climate-Neutral and Smart Cities and the Urban Partnership in Horizon Europe. As a concerted effort between European universities and RTOs, the strategic research agenda will provide 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.

During Spring 2019, EERA JPSC developed a PED definition together with other SET-Plan Action 3.2 stakeholder networks and SCC01 lighthouse projects, including +CityxChange partners. In Autumn 2019, this cooperation will be continued to investigate energy flexibility, followed by PED governance in Spring 2020.

In addition to the already mentioned PED Definition meetings (Section 3.1), EERA JPSC organised a PED definition session during its semi-annual partner meeting in Copenhagen on 25 June 2019, and will organise a PED energy flexibility workshop on 11 December 2019 in Bolzano. For both events, other stakeholder networks of SET-Plan Action 3.2 and SCC01 projects are invited to join the discussion and resulting report. During the Copenhagen meeting, one of the 2019-funded SCC01 projects, “SPARCS” was presented, as well as national/regional PED initiatives from Denmark and Italy, mapping and gap analysis of PED activities in Europe by EERA JPSC, and updates in the European PED programme as developed by JPI UE.

Several +CityxChange partners contributed to the COST Action proposal on Positive Energy Districts that was submitted by EERA JPSC in September 2019, led by Fraunhofer.



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4 Conclusions and Next Steps

During the second six months of the +CityxChange project, we have strengthened our interaction with other SCC01 projects and cities, and cooperation towards SET-Plan Action 3.2 with other European stakeholder networks such as EIP SCC, EERA, and SCIS.

This is shown in the more concentrated scope of activities around distinct networks and events, as well as a more prominent role as co-coordinator of the SCC01 Task Group on Replication (R2M) and R&I Chair of the SET-Plan Action 3.2 Stakeholder Group (NTNU).

During the next period, +CityxChange will clarify its role in the Marketplace, after the merger between EIP SCC and SCIS.

In addition, +CityxChange will contribute to updating the Smart City Information System, and will participate in SCC01-related activities upon the invitation of INEA. This offers additional possibilities for dissemination and knowledge sharing and exchange.

Partners will further leverage on their existing commitments in other EU programmes such as the EERA Joint Programme on Smart Cities, Urban Europe Research Alliance and the Covenant of Mayors, effectively linking +CityxChange to these EU-wide initiatives.

+CityxChange will also contribute to ongoing initiatives to create vision papers and other types of input to the upcoming Horizon Europe programme, in particular to the Mission on Climate-Neutral and Smart Cities and the Urban Partnership, together with other SCC01 lighthouse projects, and within the framework of SET-Plan Action 3.2.



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