

Sustainable energy Positive & zero cARbon CommunitieS

SPARCS: Co-creation model for sustainable and smart urban areas

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The Espoo Story



The Sustainable Espoo Programme

Goals



1. Espoo will be a pioneer in implementing the UN Sustainable Development Goals



2. Espoo will achieve carbon neutrality by 2030



3.The Espoo community and residents will act sustainably



4.Espoo will be a model city of sustainable urban development



5. Espoo is the best development partner for sustainable and smart urban solutions

Development entities

Mobility and transport

Energy systems

Circular economy and sustainable living

Sustainable land use and construction

Nearby nature and biodiversity



'Research questions'

- 1. How to co-develop urban areas and urban solutions together with different stakeholders, including the city organization, companies, universities and research institutions, organizations, landowners and citizens?
- 2. How to define goals and aims for sustainability and integration of smart solutions together with different stakeholders fo shared benefits and optimization locally?
- Urban area (district, block, space) as a system comprised of multiple interlinking elements





Kera area as an innovator in co-creation

- Kera is currently a brownfield area (old logistics area) which will be turned into a new urban district with 14.000 residents and 10.000 jobs
- ► The new Kera will be built sustainably according to the principles of the circular economy, favouring carbon-neutral solutions
- Kera's transformation from an old industrial area to a new city district enables experimentation with sustainable solutions and a new kind of cooperation, where the city is built together from the beginning. Kera is an opportunity for cooperation, learning and growth at the forefront of future urban development
 - ► Kera Development Commitment
- Kera is a focal point of city activities and development projects
- Temporary uses of the logistics halls for local businesses, art and culture









Where can co-creation have a positive impact on urban planning?

Sustainability, attractiveness, digitalisation

1. To create not only ecologically sustainable and smart urban areas, but also community-based, stimulating and surprising urban areas.

User orientation, flexibility, resilience

2. To develop urban structures or services that are user-oriented, flexible over the regional lifecycle and more resilient to different shocks in the operational environment.

Economy

3. To optimise the resources and economic roles of public and private actors in the regional lifecycle. To improve the productivity of project implementation.

Innovation

4. To increase the innovation capacity of the urban community and test new services and solutions.

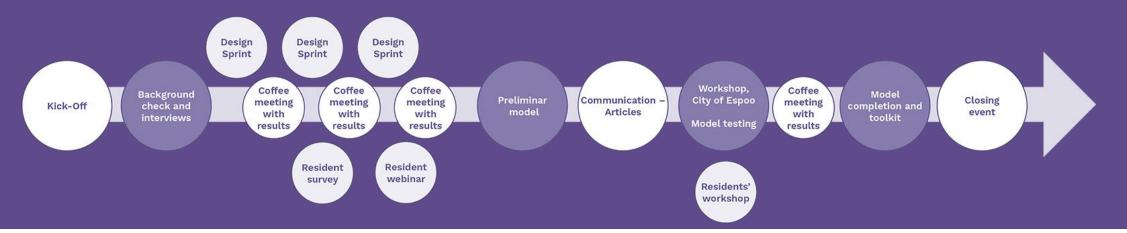




Co-creation as a method

- Procurement process to find consultant partners to support the model creation: WSP Finland and Korkia Consulting won the tendering process
- The co-creation model has itself been created through a co-creation process and methods (including best practices from 'alliance' type of working processes) together with diverse stakeholders in Dec 2021 – Dec 2022
 - Benchmarking and interviews
 - Design Sprints (workshops) and interactive 'Coffee Meeting with Results' webinars
 - Citizens: online questionnaire, webinar, workshop

- The toolbox has been developed as an open website during the development which has also acted as a resource bank. The final model/toolbox is also on the same website
- Stakeholders: companies, organizations, city departments, landowners (Kera area), other cities, universities and research institutions, citizens
- Number of participants:
 - Organizations: ~150 individual participants representing +40 different organizations
 - Citizens: ~130 responses to online questionnaire, ~20 participants in live workshop

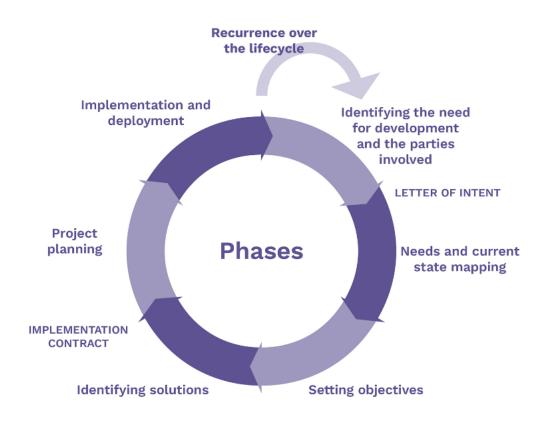








Co-creation model



Co-creation model as a diagram

- Co-creation is equal and network-like mode of working together with diverse stakeholders to achieve common goals. It enables the processing of complex issues, such as the achievement of sustainability goals, and the development and implementation of new solutions.
- The reliability of the process and the commitment to it require the preparation of binding agreements in its various stages when aiming for implementation.
- A co-developing process can essentially speed up implementation and still be democratic and open
- Key to success and securing the community's continuous development is the ability to move forward without being anchored to reaching a certain final situation
- Achieving a common understanding of the goals and ensuring the feasibility of new ideas is also key.



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Topics

- How to co-develop and co-create new innovative urban solutions in a given area?
- Focus on:
 - Urban Energy
 - Urban Mobility
 - Urban Green&Blue Infrastructure (example on the right)

- Identification of the actors involved in the design, construction and maintenance of blue-green infrastructure in the region as an initial market dialogue and internal work within the city.
- Defining the roles and cost responsibilities of private and publicactors in the implementation of blue-green infrastructure in the region. Implementation and maintenance models.
- 3. Expert survey and description of the state of nature, values, flows and potential for ecosystem services, and identification of special sites and places of interest in the local natural environment through surveys.
- 4. Defining, together with the market dialogue consortium, the target level of solutions for green and blue-green infrastructure and their readiness and maintenance in light of the municipal and national strategic objectives. Translating objectives into a clear vision and identifying needs in the form of a plan.
- 5. Communicating the vision for blue-green infrastructure and organising a comment and development round on the project website. Opening up a permanent dialogue with all stakeholders.
- 6. Revision of the target level of blue-green infrastructure based on feedback and in relation to other needs of the plan. Agreeing and describing the main principles of the content. Review of the solutions.



- 7. Establishing a commitment and performance indicators for the implementation of blue-green infrastructure. Feedback possibility for market operators and others interested in the development of the area.
- 8. Refining, innovating and specifying solutions for individual sites (plot park, street) through planning, competitions, etc.

 Description of the level of maintenance and actors involved and verification of the effectiveness of solutions in relation to indicators (net biodiversity gain, CO2, cooling, sustainable stormwater management functional diversity, food/crop, etc.) + interaction.
- Reflecting on and evaluating the contractor's development ideas. Creating a maintenance target and contract documents.
- 10. Specification of the level and means of maintenance through a negotiated procedure with the selected maintenance contractor for the area/site and commitment to the substantive objectives.
- Residents' functional and maintenance start-up with workshops involving the maintenance contractor or maintenance company.
- **12.** Development of sites and measurement of the implementation of regional targets through annual reviews by landowners and the city. Possible corrective measures.





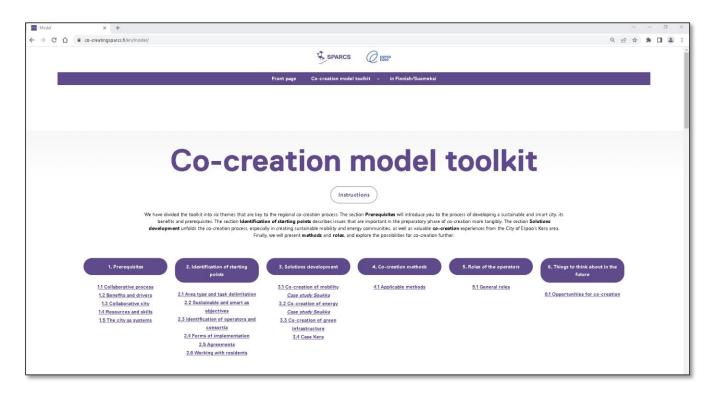


Co-creation model for sustainable and smart urban areas



- Open, free to use and accessible online toolbox for different stakeholders
- ► A 'toolbox': source of inspiration and practical tools and methods, not a rigid model or pre-defined format
- Case context is everything no two cases are exactly alike
- Dynamic toolbox developing, 'a process'
 - Geographical areas cases
 - ► Thematic areas (e.g. 3d-model as a tool in the co-creation process)

www.co-creatingsparcs.fi/en

















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