

NL

Netherlands



100 Climate Neutral Cities in Europe by 2030

Informal harvest of 34 sessions organised on 14 & 21 June 2021

Content

A BIG THANK YOU	6
About this document	7
'It takes an ecosystem to raise a climate neutral city'	9
Opening, lunch & closing sessions	11
Opening session facilitated by FME	12
Opening session facilitated by VNG	14
Lunch sessions 14 & 21 June 2021	16
Closing sessions 14 & 21 June 2021	18
Track Circularity	21
Exploration; Circular Cities driven by Innovation (Floriade)	22
Accelerating climate neutrality through events (Paris 2024)	24
The Blue Delta Coalition; let's bring in circularity towards broad prosperity	26
How to Create a Circular city	28
Track Sustainable Buildings & Energy	31
Vision & Strategy to address future ways of living	32
The ecosystem approach: Local Digital Twins to create Climate Neutral cities	34
Fossil-free construction sites for a climate neutral city (Oslo, Amsterdam)	36
Renovation Wave: using AI within the built environment (Reimarkt/TNO, TBI, Metabuild)	38
Fiercely Attractive Frontrunners on Positive Energy Districts (Groningen, Sweden)	40
Climate Change Adaptation Towards 2025: Experiences from Denmark and The Netherlands	42
Track Smart & Green Mobility	45
The Zaragoza story: Joint investment Plans to accelerate public private partnerships	46
Creating an urban mobility system that works for everyone. A Belgian-Dutch cooperation	48
How Urban Air Mobility (UAM) will change the way we organize and plan our cities	50
Unleashing the potential of Smart active mobility for Climate Neutral Cities	52
Istanbul's vision & ambition for smart & green mobility: benefits of collaborating with one of Europe's few megacities	54

Track Urban Leadership	57
Roundtable European smart city lighthouse projects: Lessons learned for companies and cities	58
Public private citizen partnerships on measure our city projects	60
Unlocking climate neutral co-benefits for digital infrastructures in cities	62
European landscape of climate-neutral and smart cities: How to engage for wide deployment of innovative solutions?	64
Can we use Public-Private Partnerships to finance the needed strategies to obtain the Climate Neutral City?	66
Financing as a driver for mission-driven deployment (EBRD Green Cities)	68
Financing the transition to climate-neutral cities: The investors perspective and financing possibilities through the Smart Cities Marketplace	70
200 Intelligent & Climate Neutral Cities Jam	72
Urban Transitions - Inclusive Citizen Engagement (part of Mayor's Manual podcast)	74
 Annex	 77
100 Climate Neutral Cities in Europe by 2030	78
100 Climate Neutral Cities in Europe by 2030	79
Alignment between sessions and initiatives from European institutes	80
Our partners	83
Co-organised	83
Join us	84

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We are on the doorstep of the most critical challenge of all time and your voice was a crucial addition to our stage. We truly appreciate your valuable time building this ecosystem.

Best regards from the organising committee,
Aafke Mak, *FME*
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Diana van Altena, *Ministry of the Interior and Kingdom Relations*
Jacobine de Zwaan, *Netherlands Enterprise Agency*
Janine Kaja, *Europe Enterprise Network*
Jonas Onland, *Association of Netherlands Municipalities, VNG*
Willeke van der Dussen, *Ministry of Foreign Affairs*

About this document

The event '100 Climate Neutral Cities in Europe by 2030' held on 14 and 21 June 2021, focused on the question: How can we help European cities become climate-neutral as fast as possible? All 34+ sessions promoted mission-driven innovation, investments and (citizen) engagement.

The programme was built on current and future business opportunities in which technology acts as a flywheel for replication, acceleration and scale. The program was co-created with our local and (inter) national partners. We focussed on the following cross-sectoral themes:

- Circularity (in particular the Energy-Water-Food nexus)
- Sustainable Buildings and Energy
- Smart & Green Mobility
- Urban Leadership: How can the government act as an orchestrator and facilitate systematic change?

On 14 & 21 June we created collective energy and imagination with over 450 participants from 40 countries. How can we lengthen and strengthen the created sparks?

The aim of this document is to provide an overview of the harvest and to gain insights in learnings. The sessions that are included in this document each have one page with a session description and a second page with conclusions and insights.

Please be aware that this document is not an official publication.

The mission is set; 100 climate-neutral cities by 2030 and a climate-neutral continent by 2050. But how can we help European cities reach this target? Similar to the village that is needed to raise a child, we need each other to bring about climate-neutral cities. And like growing up, innovations for climate-neutral cities need the opportunity to learn, (inter)act, fail, learn and grow.

‘It takes an ecosystem to raise a climate neutral city’

Focus

Our aim is to gain insights in the earning potential of EU cooperation on ‘100 Climate-neutral Cities by 2030’. The event acknowledges the importance of well-functioning quadruple-helix ecosystems for realising the vision of the ‘Climate Neutral City’ through concrete business opportunities now and in the near future. These ecosystems integrate public and private partners, combine digitalisation and sustainability, and work from local to (inter)national scale.

Complex problems require not only broad approaches combining multiple solutions, but also a (value) chain and system changes for developing new markets. Ecosystems experience financing and collaboration structures as important obstacles for the creation and scaling of climate-neutral solutions in cities. Investments are needed on process innovation, innovative procurement, mixed finance/funding and public-private partnerships, all supported by multi-level governance. Therefore, we will focus on co-creating insights that enable mission-driven collaboration and blended finance/funding mechanisms.

Climate-neutrality is a continuous journey of learning-by-doing and sharing our learning experiences with each other. Developing climate-neutral and sustainable solutions through co-creation requires building relations and creating conditions for (international) collaboration. An international learning environment is key to amplifying innovative best practices and disclosing new markets. Therefore, we need to continue building relations and to create conditions for (international) collaboration.

Objectives

- Mapping opportunities for business (in particular SMEs) for climate-neutral city-related topics in the Green Deal and Post-COVID Recovery funds, and the mission plan ‘100 Climate-neutral cities by 2030’
- Strengthen current and develop new partnerships and commitment for long-term collaboration within a

European context (networks, ecosystems, funding, financing)

- Investigate possibilities for combining local, regional, national, European and international funds for scaling and making the climate-neutral and smart city market infrastructure more mature
- Defining the building blocks of the climate-neutral city and how to apply them towards 2030 to create sustainable, resilient and livable cities

Cross-sectoral approach

The mission-driven event is structured by a cross-sectoral perspective on the following important subjects:

- Circularity (in particular Energy-Water-Food-Waste)
- Sustainable Buildings and Energy
- Smart & Green Mobility
- Urban leadership: How can the government act as an orchestrator and facilitate systematic change?

Deliverables

First steps taken towards:

- An ecosystem analysis for each of the cross-sectoral topics with the aim of forming 5-10 comprehensive consortia
- The ‘prototype’ of the climate-neutral city
- Leadership manual on mission-driven innovation (from innovation to mass), quadruple-helix collaboration, multi-level governance and blended funding
- During the summer period after the mission, these first steps will be developed into concrete plans, to be executed from Q3 2021 onward.

What does this mean for the event?

The main questions during the opening, lunch and closing sessions are based on creating a shared value by bringing together perspectives, abilities and language. On 14 June this is: ‘What are the needs of the private sector?’ On 21 June we focus on the reverse: ‘What are the needs of the public sector?’

Opening,
lunch &
closing
sessions

Opening session facilitated by FME

(14 June 2021)

The following speakers look forward welcoming you

Danielle van Mulukom

Head of International Business at
the Netherlands Ministry of Foreign
Affairs

Dirk De Bilde

CEO Siemens Nederland

Rosalinde van der Vlies

Director Clean Planet at European
Commission, DG Research &
Innovation

Maarten van Poelgeest

Chairman of the Implementation
table built environment, Dutch
Climate Agreement

Jeroen Heuvelink

Head at Strategy and International
Affairs of the Netherlands Ministry
of the Interior and Kingdom
Relations

While many European cities have embraced the climate-neutrality concept, developed strategies and implemented projects, a widespread breakthrough is not yet taking place. In the field of smart sustainable cities, innovation processes take place not only between industry partners alone, but in a wider context that also involves a variety of public and societal parties. It is important to realise this, and act upon it, since the market for smart sustainable solutions has a huge potential.

The European mission-driven approach is about tackling barriers, deploying solutions and creating market potential and impact by combining public and private forces. By working together in new ways, we can reach the target of 100 climate neutral cities by 2030!

During the opening a framework is set for the coming sessions. Panelists will share their views on what the climate neutral city should look like, how they can play a role in this, and eventually inspire people to think about new economic and social structures that are needed to accelerate entrepreneurship, investment, multi-level governance and innovation with impact.

Most valuable insight

How to eat an elephant? In small pieces.

Session

Opening session 14 June

(Co)organisers

FME

Contact person

Aafke Mak



Which pressing urban issue (challenge) did you address?

The necessity to connect our shared challenge of reaching 100 climate neutral cities by 2030 with viable business models and cooperation systems in order to keep this transition feasible for the private sector.



How can we create a way to achieve climate-neutrality goals?

- The private sector has a social purpose, which it needs to fulfil more actively. However, solid business models are necessary.
- EU can offer targeted support to cities in cross-sectoral approach.
- EU aims to create synergies and create coherence in policies. We will be working together and connect the dots.



What could be the next step to work across Europe? How do we create urgency?

- Access to finance is extremely important.
- Gain insights in the earning potential
- Frontrunners are important. Give frontrunners a more active role and clear vision of what's in it for them.
- Find/develop more comprehensive financing & business models.
- Create new cooperation models.



What are preconditions to successfully deploy solutions that prove to be scalable?

- We need to mature the market to reach our goals.
- Working in ecosystems is important, none of the partners can't do it alone. However, we are not used to work in ecosystems, so we need to find new ways to cooperate.
- Transitions are difficult because waiting is often the best strategy: if you wait, you can profit. On a collective level we need to go faster. We need to start earlier.



Who is in your dream team - locally - nationally - in Europe - in EU-networks?

A group of people from all these organizations who have the mandate and budget to act.

Opening session facilitated by VNG

(21 June 2021)

The following speakers look forward welcoming you

Matthew Baldwin

Deputy Director-General DG Move
and Mission Leader, European
Commission

Anna Lisa Boni

City Missions board member and
secretary general of Eurocities

Lot van Hooijdonk

Aldermen of the city of Utrecht,
responsible for Mobility, Energy &
Green

Franc Weerwind

Mayor of the city of Almere and
chairman of the Information Society
Committee, Association of Dutch
Municipalities (VNG)

While many European cities have embraced the climate-neutrality concept, developed strategies and implemented projects, a widespread breakthrough is not yet taking place. In the field of smart sustainable cities, innovation processes take place not only between public partners alone, but in a wider context that also involves a variety of private and societal parties. It is important to realise this, and act upon it, since the challenges for smart sustainable solutions are huge.

The European mission-driven approach is about tackling barriers, deploying solutions and creating market potential and impact by combining public and private forces. By working together in new ways, we can reach the target of 100 climate neutral cities by 2030!

During the opening a framework is set for the coming sessions. Panelists will share their views on what the climate neutral city should look like, how they can play a role in this, and eventually inspire people to think about new economic and social structures that are needed to accelerate entrepreneurship, investment, multi-level governance and innovation with impact.

Most valuable insight

Without cities the Green Deal won't happen.

Session

Opening session VNG 21 June

(Co)organisers

VNG

Contact person

Jonas Onland



Which pressing urban issue (challenge) did you address?

It is our responsibility to bring the Green Deal to the ground. Cities are where policies meet people. Targets on climate neutrality are one thing, but implementation is another.



What are preconditions to successfully deploy solutions that prove to be scalable?

We have got the ingredients; you just have to bake the cake. We need to create diversity and bring it to the ground. We need absolute preparedness to work together in 4-helix. There is no point in continuing sectoral. Only cross-sectoral thinking enables the transformation that would help the delivery of the Green Deal.

Missions can create business opportunities. We need to push on a strong business way by creating new investment opportunities and jobs. We also need to look at the spillovers of the mission, this will create new industries.

Banks are going to be crucial. We need sustainable finance, which citizens can invest in so they can invest in their street. There is not a pot of gold, it is a facilitating process.



How can we create a way to achieve climate-neutrality goals?

We strongly believe that digital is the core of this transformational change. Digital infrastructures need to be secure and inclusive. We need new legislation on digital, fundamental rights need to be secured.

Cities are digital and green. We need to be closer to the people and recognize that main challenges are in cities. Climate-neutrality is a global phenomenon but is must be solved at the local level. Cities must go through a systemic transformation. Systematic is at the centre. It needs to be radical, fast and holistic. Cities need help and support. But it is the only way. We need to stretch the systems.



What could be the next step to work across Europe? How do we create urgency?

Let's work and stick together. We are living in an exciting time. The mission needs a broad movement of players and strong involvement. 2030 is tomorrow: it is a very short deadline.

The 100 CNC must see themselves as living labs. We don't focus on 100, we focus on creating a movement. It is also trial and error and we are ready to share.

We have twin objectives: we want all cities to be there in 2050. Cities must all get there. 100 CNC should not be seen as an exclusive club. We don't plan on saying no. We might have too many applications but stay with us for mentoring exchanges.

Lunch sessions

14 & 21 June 2021

Join us for lunch!

Facilitated by

Dutch Governments' Innovation Community (RIC) and Ministry of Foreign Affairs

In an energetic hour where experts will share their achievements, perspectives and experiences realising their ambition. We will discuss what we need, want and must do in the years to come.

Line-up 14 June:

Pallas Agterberg - Challenge Officer
Alliander

Leen Peeters - Owner at Th!nk E

Sako Arts - CTO and co-founder of
FruitPunch AI

Line-up 21 June:

Cathalijne Dortmans - Alderwoman of the municipality of Helmond including Brainport Smart District

Jaroslav Kacer - Former alderman of the municipality of Brno

Andy Lurling - Founding Partner LUMO labs

NB. The insights and perspectives of the two sessions are combined in one overview.

Most valuable insight

The municipality is the most important stakeholder. They are provided with new tasks that they have never had before.

Session

Lunch sessions 14 & 21 June

(Co)organisers

Dutch Governments' Innovation Community (RIC) and Netherlands Ministry of Foreign Affairs

Contact person

Frits Bussemaker



Which pressing urban issue (challenge) did you address?

Not only technology evolves faster, but society as well. Society is evolving much faster than we can cope with. How do we make sure that we leave no one behind?



How can we create a way to achieve climate-neutrality goals?

We need to rethink what kind of society we want.

Sometimes it feels that we are waiting for the day that people from Mars will arrive on planet Earth. Only such a disruption will bring current power blocks together. We need to work together in order to get further. At this moment, the national regulation doesn't coincide with local issues. For example, to make a home sustainable, we need local and national government to work together. EU Standardisation is the basis to set this up and municipalities need to be aligned.



What are preconditions to successfully deploy solutions that prove to be scalable?

We create new problems if we don't coordinate funding. We need to create mission driven funding. It shouldn't be difficult to bring funding together in a public private investment plan.

It is time for change in our approach. We need to identify the challenge and be more creative about the different solutions. Urbanisation is a fact, digitalisation is a fact. Just imagine what technology can do. Not one technology will change the world, it is the combination. We see the best solutions where there is a holistic approach - without lock-ins. Technology is always a tool, nor good nor bad, it is how people use it. Is it an interaction between the citizen and the technology? How can you manage a purchase for technology? It is all about communication.

We need to do things differently. The energy transition is wrapping up fast. We can't use energy the way that we have been using it. It is too expensive. We need to make it sustainable. It's going too fast. At this moment we don't solve enough problems. Even with electric cars you create the same traffic jam.



What could be the next step to work across Europe? How do we create urgency?

Discussions on zero-emission have a more social approach than we think. If we don't make it sexy, it won't sell. Engagement strategies are essential, both on mid-term as well as long-term. We consider citizens under one umbrella, but citizens are a diverse group with different backgrounds, financial means, interests and concerns.

A single offer will not be successful to ensure a broad engagement. For example, intergenerational learning has been proven successful, though we hardly use it. Children, teenagers and students are an important group. Kids can change their parents' behavior. About 50% of end-consumers are so-called followers. They are convinced because their family and friends say they should do it or join.

The technical innovations are more accepted if they include the community. Think about kids painting drawings on the outside of a new substation building. Suddenly people will interact and engage more, kids will talk about it at school. It will also attract more media attention and it will engage parents that would normally not be interested.

Closing sessions

14 & 21 June 2021

Building Blocks of the Climate Neutral City;
the Concept and Way Forward

The mission is clear. And the deadline is there. In 2030 we need to be ready. But what are the actual building blocks of the climate neutral cities? Through these two days we go in depth on several topics. But how do we connect all the topics? What are these building blocks and how do we connect them? In this session we will take first step in building the framework of the climate neutral city and define the conditions we need to enable this.

We end by defining the path on how we can create this with the community and how we can make an offer to VP Timmermans and the mission leader on behalf of the Netherlands.

Most valuable insight

With all the content and timeline we are able to build the blueprint and approach for the modular climate neutral city.

Session

Building Blocks for the climate neutral city

(Co)organisers

VNG/BZK/RVO/FME

Contact person

Jonas Onland



Which pressing urban issue (challenge) did you address?

What is the blueprint of the climate neutral city? What building blocks (food, water, energy, digital etc.) are necessary in every city to secure a sustainable, resilient, livable city which is human centered and in balance with nature. And how do we get there? What process is necessary to enable citizens to be part of this transformation? Where we create a blueprint which cities can learn from and apply their local autonomy and culture.



How can we create a way to achieve climate-neutrality goals?

By developing the blueprint and concept roadmap cities are able to re-use the modules without re-inventing the wheel. Based on the hubs (food, water, energy e.o) cities are able to adapt existing and new infrastructures.

Underneath the modules (what is the blueprint) we focus on the how;

- Leadership program
- Roadmap
- Ecosystem approach
- Citizen engagement approach
- One stop shop for blended funding through Joint Investment Plans



What are preconditions to successfully deploy solutions that prove to be scalable?

- A co-creation process with multiple helix partners to create the concept of the climate neutral city.
- A multi governance leadership team to steer the mission and create the conditions for success (through legislation, funding, technology and knowledge sharing)
- A deadline; Q4 interest and climate contract by the end of 2022.
- A coalition of the willing of ecosystems (connected with the member state and EC) proof the concept of the climate neutral city.
- Upscaling and deployment strategy.



What could be the next step to work across Europe? How do we create urgency?

Anticipate on the mission 100 climate neutral city by forming a consortium through a city deal which will be launched in the second half of 2021 and will be offered, together with the EC (VP Timmermans & Vestager) to the new cabinet.



For which possibilities would you like to go? What is your top 3?

1. Finalize the concept of the climate neutral city
2. Create a leadership team based on the coalition of the willing
3. Launch the coalition on a national and European level



Who is in your dream team - locally - nationally - in Europe - in EU-networks?

5-10 mayors of the ecosystems in NL, Prime minister and VP Timmermans & Vestager and The captains of industry.

Track Circularity

Exploration; Circular Cities driven by Innovation

(Floriade, Almere, Amsterdam)

From April 14, 2022, Almere will be the stage for six months for the world horticultural exhibition Floriade Expo 2022. The theme is “Growing Green Cities”. Dutch horticulture, national organisations and international participants will present innovations and solutions for sustainable and liveable cities. Two million national and international guests are expected to visit the world horticultural exhibition.

Floriade is linked to the development of a sustainable residential area Hortus in which the physical architecture and green living environment seamlessly merge and merge with technological possibilities. Sustainable innovation, with a focused view of the future of Almere, the expansion of the city with approximately 60,000 homes and approximately 100,000 households and its (growth) ambitions inextricably linked to it.

Exploration

We (city of Almere, Amsterdam and Floriade) want to explore this with potential partners in a potential hybrid model where we connect new innovative propositions to the Floriade in 2021 and 2022 and take that, together, to a next level.

Set-up for the 14th: Setting the scene: why is innovation crucial for liveable cities, short talks by:

- Jeanine Peek, Topsector ICT
- Hans Bakker, CEO Floriade
- Geert-Jan Put, Economic Affairs Almere
- Brian Benjamin, Digital City Almere and Floriade
- Grenoble Green Award 2022
- Leonie van den Beuken, Amsterdam Smart City
- Petra Claessen, BTG

Session

Why is innovation crucial for liveable cities?

(Co)organisers

City of Almere, Floriade BV, Amsterdam Trade & Innovate, Amsterdam Smart City, BTG, Start-up Amsterdam, MRA, Up!Almere, We Make the City - Green

Contact person

Danny Frietman



Which pressing urban issue (challenge) did you address?

The challenge of (tech) innovation on circularity within cities.



How can we create a way to achieve climate-neutrality goals?

- Build on existing ecosystems within cities
- Share knowledge between cities, because cities cope with the same challenges
- Public private partnerships are needed to foster and capture innovations
- Build on the talent of people within cities, they are the heartbeat of innovation



What are preconditions to successfully deploy solutions that prove to be scalable?

- Create an architecture build for the future
- Create customer journeys that reflect all generations
- Focus on the SDGs as building blocks of circular innovation
- Shift towards a usage economies (and away from an ownership economy)



What could be the next step to work across Europe? How do we create urgency?

Anticipate on the mission 100 climate neutral city by forming a consortium through a city deal which will be launched in the second half of 2021 and will be offered, together with the EC (VP Timmermans & Vestager) to the new cabinet.



For which possibilities would you like to go? What is your top 3?

Growing Green Cities



Who is in your dream team - locally - nationally - in Europe - in EU-networks?

RvO, ASC, Floriade, Amsterdam Trade & BTG.

Accelerating climate neutrality through events

the Olympic Games of 2024 (Paris)

How can you give your city a push towards climate neutrality by organizing a (big) event? During this session, the City of Amsterdam (Netherlands) and the City of Paris (France) share their challenges in reaching their sustainability goals and discuss the opportunities organizing an event in your city can bring. More specifically, Paris will share their experiences with the upcoming 2024 Olympics.

Programme:

- Introduction
- Key notes, in which both speakers will share experiences and insights

- City of Paris - François Héroult, Chef de projet Relations Internationales - Délégation Générale aux Jeux Olympiques et Paralympiques chez Ville De Paris
- City of Amsterdam - Leonie van der Beuken, Program Director of Smart City Amsterdam
- How can society at large profit from the organization of (sports)events? by More2Win – Michiel van Rijn van Alkemade, director
- Q&A

Most valuable insight

Events are micro-cities and are therefore a great way to test out solutions

Session

Accelerating climate neutrality through events: the Olympic Games of 2024 (Paris)

(Co)organisers

Netherlands embassy in Paris, GreenWave

Contact person

Ruben Dubelaar



Which pressing urban issue (challenge) did you address?

How can you give your city a push towards climate neutrality by organizing a (big) event? During this session, the City of Amsterdam (Netherlands) and the City of Paris (France) share their challenges in reaching their sustainability goals and discuss the opportunities organizing an event in your city can bring. More specifically, Paris will share their experiences with the upcoming 2024 Olympics.



How can we create a way to achieve climate-neutrality goals?

By implementing solutions with a high potential at events, where their usefulness and effectiveness can be proven, and society can in a broader sense be introduced to the new solution.



What are preconditions to successfully deploy solutions that prove to be scalable?

A solid plan to scale-up if a solution works.



What could be the next step to work across Europe? How do we create urgency?

By being more explicit about the role of events in relation to wider cities, and using them more effectively to test and scale up useful tech.



Who is in your dream team - locally - nationally - in Europe - in EU-networks?

A group of experts as well as cities who organize events and can learn from each other.

The Blue Delta Coalition; let's bring in circularity towards broad prosperity

Food, water and energy are the core building blocks of the climate neutral cities. But how do we secure that every city has the availability of these building blocks? In a way that it's circular, locally produced and helps to reduce carbon emissions? Therefore, we need to restructure this industry. The north of the Netherlands has a solution; the Blue Delta Coalition.

The ecosystem has an 800 year history in innovation in water, food and energy and is taking the step into the next era through a community driven approach. In this session you will gain an understanding about the impact and ambitions of the Blue Delta Coalition in helping cities to become climate neutral.

Most valuable insight

New methodologies on how to become climate neutral.
A new narrative: de-risk, symbioses, replicability, sustainability to create broad prosperity for humans & nature

Session

The Blue Delta Coalition; let's bring in circularity towards broad prosperity

(Co)organisers

VNG, Leeuwarden & RUG

Contact person

Christopher Hofman & Jonas Onland



Which pressing urban issue (challenge) did you address?

How is the ecosystem in the north, The Blue Delta Coalition, creating a vision and approach to help the Netherlands become climate neutral. Based on their cultural legacy through a new perspective. What are the opportunities and challenges.



How can we create a way to achieve climate-neutrality goals?

Based on a shared vision which is developed with citizens and communities the goal is set. The ecosystem has defined landmark initiatives which form the roadmap towards achieving broad prosperity. The landmark initiatives are defined by the cultural heritage of the ecosystem.

Apart from the 'what (mission)' there is a lot of focus on how to do that; to build the consortium and creating a new process for transformation.



What are preconditions to successfully deploy solutions that prove to be scalable?

To help the ecosystem of the Blue Delta Coalition it is necessary to support them in connecting to the national and European networks. Via the DSIH (NL) & living-in.eu (EU) the connection is made to share and learn from other ecosystems and solutions.

Within the ecosystem there is a need to organize/formalize the multilevel governance which will enable the ecosystem to anticipate faster on developments on NL and EU level.



What could be the next step to work across Europe? How do we create urgency?

The Blue Delta Coalition is already connected to the AI coalition. By making the connection with the DSIH approach and living-in.eu the ecosystem will accelerate.

The second step is to investigate if the coalition with province of Friesland and the Groningen and Leeuwarden as cities want to become part of the mission 100 climate neutral cities.



For which possibilities would you like to go? What is your top 3?

1. Make the connection with the DSIH network
2. Connect through the projects on the digital twin consortium



Who is in your dream team - locally - nationally - in Europe - in EU-networks?

Leadership team from the blue delta coalition from a multiple helix (city, province, citizens, captains of industry & universities) and connecting them with the NL & EU ecosystems.

How to Create a Circular city

A design session on how to integrate solutions for energy, water and food the Olympic Games of 2024 (Paris)

Creating circular cities can contribute significantly to reaching the goal of climate neutral cities. If cities are to move towards a circular economy, a traditional city planning approach will not suffice. This can only be done successfully when an integrated approach is applied.

But where to begin? Food production can be a starting point to create integrated solutions for problems related to living, energy, water and waste. This will enable new connections on a social, ecological and economic level, and kick-start a circular economy.

The workshop will use the redevelopment of Phoenix West in Dortmund as a case for participants to design a circular city district. We will use the systems design approach to show how technological solutions related to energy, water, food and waste can be integrated to create a food-producing city district.

The workshop

The workshop will start with a short summary of the vision of Dortmund for the redevelopment of Phoenix-West. We will then lay-out the technological solutions that are available for energy, water and food and will introduce the assignment for the participants of the workshop: create a circular city district.

Scope

We will focus on re-proposing one of the historic buildings in Phoenix West the 'Schalthaus' and turn it into an urban farm that is integrated in the Phoenix-West development.

Assignment

How to create a circular food production system, making use of available technologies for energy (ATES, bio energy) and water (waste water management)

Most valuable insight

You need building blocks, both for the (integrated) solutions and the process of designing these solutions

Session

Workshop – Create a circular city

(Co)organisers

Sustainable Urban Delta
Priva, World of Walas

Contact person

Thera Rohling



Which pressing urban issue (challenge) did you address?

Creating circular cities can contribute significantly to climate neutral cities, which requires an integrated approach. But how do you do that, where to begin?



How can we create a way to achieve climate-neutrality goals?

We need integrated solutions, but don't seem to be able to implement such solutions, especially on larger scale. On the one hand 'integrated' makes the implementation of a solution complex and difficult. So we need to make it small, something tangible and relevant – to put things in motion.

On the other hand we need to have a strategy and a clear concept to make sure the integrated solution adds value, is profitable and – most important of all – is scalable.



What are preconditions to successfully deploy solutions that prove to be scalable?

- Decide on a strategy of integrated solutions
- Choose a starting point
 - begin with an initiative, project or sector (e.g. food production), that has enough links to other initiatives projects etc. and look for possibilities to integrate (technical) solutions
- Set parameters and scope (focus)
 - start simple and work towards complexity
- Build on the results to:
 - expand the level of integration with other projects, initiatives or sectors
 - create a concept that is scalable
- Facilitate this process
 - apply models and use visualization

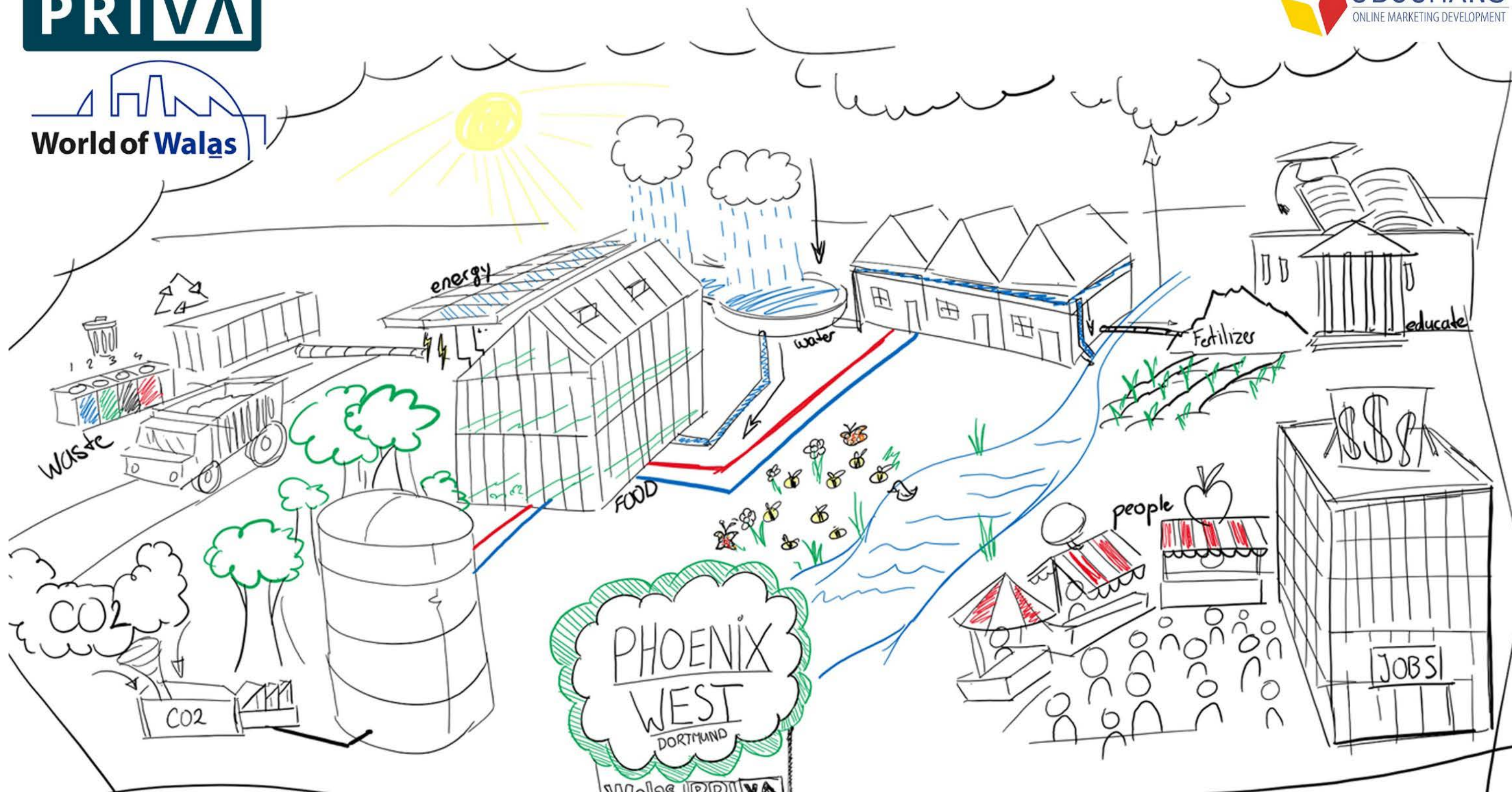


What could be the next step to work across Europe? How do we create urgency?

Work on a roadmap, create a program and invite city governments, entrepreneurs and knowledge institutions to get together and design a circular city.

- Make it clear that the ultimate goal should be integrated solutions, but
- Make it possible and doable by offering a clear process and expert facilitation,
- And invite city governments, entrepreneurs, knowledge institutions, citizens to participate.

World of **Walas**



Track Sustainable Buildings & Energy

Vision & Strategy to address future ways of living

New European Bauhaus

A session to inspire the audience involved in keeping, creating and making cities and towns sustainable and human centred.

Your host, **Robert Dijksterhuis** - Dutch Sustainable Building Envoy, Ministry of Interior & Kingdom Relations, will discuss and explore the opportunities of the New European Bauhaus announced beginning of 2021 by the European Commission. It is a creative and interdisciplinary initiative, convening a space of encounter to design future ways of living, situated at the crossroads between art, culture, social inclusion, science and technology. It brings the Green Deal to our living places and calls for a collective effort to imagine and build a future that is sustainable, inclusive and beautiful for our minds and for our souls.

Join to see and hear more about the New European Bauhaus and learn from the experience of innovators and enablers in three cases, which will give insight and highlight current innovative inclusive design approach applied in the Netherlands.

Guests:

- Floris Alkemade - Chief Government Architect (Rijksbouwmeester) of [College van Rijksadviseurs](#). Topic: the New European Bauhaus, the Dutch housing challenge linked to essential sustainability requirements of the construction sector. College van Rijksadviseurs is the Board of Government Advisors, an independent advisory board which advises the Dutch cabinet on spatial quality, upon request or at its own initiative.
- Ivo Plakman - Strategic Advisor, City of Rotterdam Topic: [Culture Campus, the City's Future](#) and New

European Bauhaus. Starting in 2022, location Charloisse Hoofd will turn in to Rotterdam's latest hotspot "the Culture Campus" the place where locals, cultural creatives, educators, students and scientists derive inspiration from the city's skyline and from each other.

- Tjeerd Haccou - architect and founding partner of **Space and Matter** [slides not included in this pack] Topic: [Schoon schip](#), a floating sustainable neighborhood located in Buiksloterham, a neighborhood in Amsterdam-Noord where the robustness of old industry goes hand in hand with sustainable new-build projects. Additionally, he will present [CrowdBuilding](#), an online platform to facilitate collective building and living in the Netherlands. A new approach to speed up sustainable, inclusive and beautiful housing construction involving end-users, addressing all aspects of New European Bauhaus. [Space & Matter](#) is an Amsterdam-based studio for spatial and strategic design.
- Vera Winthagen - Policy analyst and Industrial designer, part of the Joint Research Centre (JRC) of the **European Commission**, [New European Bauhaus](#) team of the European Commission. She will share insights on how NEB is taking off in Europe and high light inspiring and engaging examples from across Europe and beyond.

Most valuable insight

Speed up! Slow down in transformation will be costly.

Session

Vision & Strategy to address future ways of living: New European Bauhaus

(Co)organisers

Netherlands Ministry of the Interior and Kingdom Relations

Contact person

Diana van Altena



Which pressing urban issue (challenge) did you address?

New European Bauhaus at a national, city and neighborhood level in NL; and examples to learn from in Europe (where the Netherlands could participate as well; or provide solutions or learn from others).



How can we create a way to achieve climate-neutrality goals?

Principles of New European Bauhaus, address the challenges for the transition and rethinking of cities/building/living/ inclusiveness.

Need for a long term vision at all levels of governance; Change is needed – Science and data has all proof.

Speed up! Slow down in transformation will be costly.

Redirect the way of building; (e.g. biobased building) and rethink our cities.

Bottom up – vs Top down – involve all levels; support fruitful initiatives (to scale up).



What are preconditions to successfully deploy solutions that prove to be scalable?

- Vision (and perseverance)
- Awareness at large; speed up.
- Apply fact based (Science & data) proven innovations (there is a lot out there).
- Change education system in the various domains involved in urban development.
- Finance & Investments – a lot of solutions are out there, but need to be scaled up.
- Network of knowledge.



What could be the next step to work across Europe? How do we create urgency?

NL could join New European Bauhaus initiatives such as Nordics; [Nordicbauhaus](#) or [Bauhaus of the seas](#).

Rijksbouwmeester is in the process of becoming a partner of the JRC/ NEB programme.

Local solutions - “Crowd building” facilitate influence, role and position of citizens in building/ facilitating new urban developments. The people vs the ‘investors/big money’ (also needed; ‘ownership/support’ at a national level – which department is in charge?).



For which possibilities would you like to go? What is your top 3?

In September call for proposals will be launched by the EC; to result in 5 pilots and additional flanking measures. More calls to follow.

Dutch organisations to be involved.



Who is in your dream team - locally - nationally - in Europe - in EU-networks?

Solutions to fit local circumstances; not 1 size fits all; but knowledge/experience of others can help to make a ‘European solution’ fit locally. Requires quadruple helix.

The ecosystem approach

Local Digital Twins to create Climate Neutral cities

The digital transformation can help us to accelerate to accomplish our shared mission to become climate neutral. To move from mission towards concrete steps we work with iconic projects; digital solutions that solve several societal challenges with multiple technologies. One of these iconic projects are Local Digital Twins; the future operating system of the sustainable city. But how do we get there? One of the main

drivers for change are the ecosystems (municipalities and regions) where citizens, government, business and knowledge come together. Through the ecosystem 'Dutch Societal Innovation Hubs' approach the VNG, IPO and several ecosystems will explain the steps and challenges in helping to create the digital infrastructure of the Netherlands.

Most valuable insight

Local Digital Twins have to potential to become the future operating system of the sustainable & resilient city to accelerate climate neutrality

Session

The ecosystem approach: Local Digital Twins to create Climate Neutral cities

(Co)organisers

VNG

Contact person

Irene van Hooff



Which pressing urban issue (challenge) did you address?

The challenge was how ai driven local digital twins will help in accelerate in the mission to create climate neutral cities and help to accomplish a network of digital twins; The Digital Twin as operating system of the climate neutral city.



How can we create a way to achieve climate-neutrality goals?

The DT as operating system for cities will enable ecosystems to:

- Apply scenario planning on crises (covid-19, biodiversity collapse) and becoming resilient.
- Scenario planning in creating the climate neutral city (to make data driven decisions in the effects of emissions).
- Managing the operation of a city in a more effective way (predictive maintenance)
- Building circular and climate neutral neighbourhoods with citizens and communities.



What are preconditions to successfully deploy solutions that prove to be scalable?

The following conditions need to be in place:

- Awareness and commitment the Leadership of ecosystems and member states.
- Blended funding program (EU, National, regional and local) to support development, deployment of a network of connected DT's
- Network of leading ecosystems to lead a coalition of the willing.
- Multi year program to support the approach



What could be the next step to work across Europe? How do we create urgency?

The urgency is there. The next steps are:

- Building the Digital Twin Community in NL including the roadmap through the DSIH.
- Organize the leadership and funding (local , regional and national funding).
- Anticipate on the CSA 'AI driven local digital twins' of the EC.
- Connect the Dutch DT ecosystem to living-in.eu and the European networks.
- Anticipate with the network to the mission 100 climate neutral cities by 2030 by and for the citizens.



For which possibilities would you like to go? What is your top 3?

1. Connection to the mission, DT & DSIH (ecosystem approach) to create a common roadmap
2. National DT program
3. Connection to the EC to connect with EU examples



Who is in your dream team - locally - nationally - in Europe - in EU-networks?

A network of ecosystems (Mayors), EIB, EC (commissioner Breton/Vestager/timmermans), Member states (minister Digital) and regions. In close collaboration with top leaders of industry.

Fossil-free construction sites for a climate neutral city

(Oslo, Amsterdam)

In order to make cities climate neutral by 2030, the construction process has to achieve the same. Additionally, construction sites can serve as a testbed for larger sustainability issues within a city. During this session, we will discuss the possibilities for making the construction site more sustainable, focusing on more efficient power consumption, removing diesel generators and using sustainable alternatives.

Programme:

- Introduction and key-note by the city of Amsterdam by Sacha Stolp, Director of

Innovation for the Future Proof Assets Program

- Experiences and future ambitions by the city of Oslo by Ingrid Bjerke Hauan, Climate Advisor at the city of Oslo
- Panel discussion with experts from AMS Institute, BAM, NCC, Sintef Community, Steen og Lund
- Moderated Q&A
- Key points & common threads + opportunities for cooperation by Marcus Scoliège, regional business development team Nordics and Baltics

Session

Fossil-free construction sites for a climate neutral city (Oslo, Amsterdam)

(Co)organisers

FME, City of Amsterdam, City of Oslo, Regional business development network Nordics & Baltics

Contact person

Sacha Stolp/Marcus Scoliege/Aafke Mak



Which pressing urban issue (challenge) did you address?

In order to make cities climate neutral by 2030, the construction process has to achieve the same. Additionally, construction sites can serve as a testbed for larger sustainability issues within a city. During this session, we will discuss the possibilities for making the construction site more sustainable, focusing on more efficient power consumption, removing diesel generators and using sustainable alternatives.



How can we create a way to achieve climate-neutrality goals?

By making the building process more sustainable.



What are preconditions to successfully deploy solutions that prove to be scalable?

- In this case, a solid supply of 'green' building equipment and machinery, as well as a solid energy grid
- Cities should learn from each other in this respect, companies should work together to enlarge the availability of green building solutions, and both should work together with each other as well as knowledge institutes to find the most efficient and successful way to create a green building site.



What could be the next step to work across Europe? How do we create urgency?

Triple helix in NL and NO should work together more extensively to learn from each other and advance together. Urgency is created by appointing frontrunners and making them visible.



For which possibilities would you like to go? What is your top 3?

A concrete, financed, cooperation project between NL and NO.



Who is in your dream team - locally - nationally - in Europe - in EU-networks?

Cities, private sector organisations, companies, a delegate at the EU who can really help us forward.

Renovation Wave: using AI within the built environment

(Reimarkt/TNO (NL), TBI (NL), Metabuild (D))

Artificial Intelligence and climate neutrality, where and how do they meet in the building and construction sector?

The Renovation Wave Strategy, published by the European Commission last autumn, aims to at least double renovation rates in the next 10 years and make sure renovations lead to higher energy and resource efficiency. AI is key to fast track this challenging strategy.

Your hosts, Mr. Robert Dijksterhuis - Dutch Sustainable Building Envoy, Ministry of the Interior & Kingdom Relations and Mr. Huub Keizers - Coordinator Built Environment Netherlands AI coalition (NLAIC) / Bouwen Techniek Innovatiecentrum (BTIC) will take you on an innovative journey in the use of AI in the building and construction sector.

Join and experience new ways of working and learn about the experience of innovators and enablers in three projects, become aware of the advantages requirements to facilitate the uptake and use of AI in refurbishing and improving building stock.

Speakers in this session are:

Guests

- Matthijs Vallinga, (Reimarkt) and Stan Klerks (TNO) on AI assisted renovation (PDF presentation available)
[Reimarkt](#) is committed to accelerate the renovation wave in the built environment, providing service to all

involved in refurbishing and improving buildings such as occupants, home / building stock owners, municipalities and suppliers. [TNO](#) connects people and knowledge to create innovations that boost the sustainable competitive strength of industry and well-being of society.

- Jeroen Pat of TBI on the use of AI within innovative projects. (PDF presentation available)
[TBI](#) is a group of companies that renews, furnishes and maintains the living environment in a sustainable way. The group is characterized as an agile organisation. TBI companies have high-quality, specialist expertise in the fields of technology, construction and infrastructure
- Tariq Kaddoura of Metabuild on AI-driven solutions to improve energy-efficiency, occupant comfort and cost-effectiveness of projects.
[Metabuild](#), a Berlin based company, is reinventing building design and is obsessed with bringing decision-making to a new era using advanced building simulation and AI-driven optimization. It is bridging the gap between architecture, engineering and software development.

We would love to continue the conversation.

Please e-mail us at gebouwdeomgeving@nlaic.com

Most valuable insight

- Assess which stakeholders are most effective to address and how
- Cooperation is essential to speed up AI / machine learning

Session

Renovation Wave – AI built environment

(Co)organisers

Netherlands Ministry of the Interior and Kingdom Relations and NL AI Coalition

Contact person

Diana van Altena



Which pressing urban issue (challenge) did you address?

Artificial Intelligence and climate neutrality, where and how do they meet in the building and construction sector?



How can we create a way to achieve climate-neutrality goals?

To the core: AI / data based decision making is key to renovate/retrofit buildings and make them meet European Energy Standards. 'Building Energy Modelling'

Being able to calculate the potential impact of renovation is essential for real estate owners (ranging from individuals to conglomerates)

AI is also key to speeding up the design process of these retrofits. Use of AI within the building & construction sector (which is not so prone to innovation) is key. Although there are data issues that hamper fast progress.



What are preconditions to successfully deploy solutions that prove to be scalable?

Still many 'demo cases', difficult to scale up. European market is required.

- Need volume for cases for machine learning (training AI models is expensive; Robots need data)
- Need for learning from each other
- Need support by the governments to
- Need open data/ taxonomy standards
- Need to deal with P
- Market sector needs to step up / become more interested in pursuing new technologies to reap enormous benefits.

Lesson: architects, building engineers, construction sector in general are NOT so much interested.

BUT: Stakeholder: developer and building owners are. As benefit = directly related to finance and market value of properties.



What could be the next step to work across Europe? How do we create urgency?

For this topic we need to gauge – what is the strength of NL in the topic; where are the best cases/projects to learn from in Europe?

How to deal with experienced 'difficulties related to data (e.g. GDPR on individual energy consumption etc.)

European measures tend to go beyond 'green washing' putting pressure on private developers.



For which possibilities would you like to go? What is your top 3?

- Possibilities for RVO to partner up with NLAI Coalition/Bouwend Nederland to find additional attractive showcases in NL.
- See if they organise EU-wide events related to the topic.
- Showcase R&D innovation related to the topic for relevant stakeholders.



Who is in your dream team - locally - nationally - in Europe - in EU-networks?

Task ahead is tremendous; need to learn together (not to replicate cases but speed up) – coalitions of organisations active in this field.

Machine learning requires lots of data and cases.

Fiercely Attractive Frontrunners on Positive Energy Districts

(Groningen, Sweden)

A session with inspiration for a wide audience involved and/or interested in the development of Climate Neutral Cities and Positive Energy Districts.

With the Mission '100 Climate Neutral Cities in 2030 – by and for Citizens' and the aim for a climate-neutral continent by 2050, the European Commission aims to exploit the cities' access to capital, know-hows, and economies of scale for the development to pilot and scale up innovations, such as positive energy districts and instruments such as the 'City Climate Contract'.

How can European cities become climate neutral? We need each other to bring about climate-neutral cities. And like growing up, innovations for climate-neutral cities need the opportunity to learn, (inter)act, fail, learn and grow. Questions arise on technology, finance, funding, governance and the eco-systems required.

Your host, **Mr. Robert Dijksterhuis** - Sustainable Building Envoy from the Ministry of Interior & Kingdom Relations of the Netherlands, will take you on a journey to France, Sweden and the Netherlands and introduce you to fiercely attractive frontrunners in their approaches and contribution to realize the Climate Neutral City.

Speakers

1. Floor de Jong, manager International affairs, City of [Groningen](#) (Netherlands), on the approach of Groningen to become a Climate Neutral City by 2030, amongst others by engaging citizens. Groningen is

the 6th largest city in the Netherlands (over 230.000 inhabitants) and is a front runner in the field energy and sustainability. The city council has expressed a desire to be CO2-neutral by 2035, and increasingly more companies and citizens are joining in this ambition. Groningen was involved in the development of the Horizon Europe Mission on 100 Climate Neutral Cities.

2. Albert Edman, Strategist at [Viable Cities](#) (Sweden) on Viable Cities experiences of Climate City Contracting and developing a national Climate Neutral City mission infrastructure in Sweden. Viable Cities is a strategic innovation programme for climate-neutral and sustainable cities is the largest investment to date in Sweden in research and innovation on smart and sustainable cities. Viable Cities now brings together 100 members from several different fields of research, business, public affairs and civil society. Viable Cities' mission is to achieve climate-neutral cities by 2030 with a good life for everyone within the planet's boundaries. **Klimatkontrakt 2030** (Climate City Contract 2030) is a concentrated effort from Swedish cities and the national level to speed up the work to cope with this. It is an agreement between cities, government agencies and Viable Cities in which all parties commit to make concrete contributions to speeding up the climate transition. Background and example of a climate city contract: <https://en.viablecities.se/klimatkontrakt-2030>

Most valuable insight

‘Goal: good life for all in the city’

Session

Positive Energy Districts/Climate city Contract

(Co)organisers

Netherlands Ministry of the Interior and Kingdom Relations

Contact person

Diana van Altena



Which pressing urban issue (challenge) did you address?

How can European cities become climate neutral?
Experience with PED/Climate City Contract



How can we create a way to achieve climate-neutrality goals?

Key is a multigovernance approach, involving citizens and to have support of the government at all levels, supported by funding and R&D.

The way of working of the Viable Cities Programme in Sweden involves all relevant parties with a climate city contract.

Have to keep in mind that aligning the building construction sector and property owners to become fossil free, requires a tailored approach.



What are preconditions to successfully deploy solutions that prove to be scalable?

- Vision, goals and support mechanism – based on cities need and actions (local solutions – not 1 size fits all) Involving citizens and business;
- Technology; how to pick the right data;
- Local, regional, national support;
- Funding: investment climate. Good governance on financial flow;
- Collaboration; Energy cooperations;
- R&D – but mostly in the sense of scaling up existing technology;
- Long-term thinking and large time span for loans.



What could be the next step to work across Europe? How do we create urgency?

- Cooperation from NL with leading countries in the approach of the Climate City Contract (Sweden, Austria, France, Spain).
- Within NL several steps still need to be made.
- Urgency is clear – key is to map relevant key projects already going on to obtain climate neutrality; apply existing technology, scale up experiments; and provide support with R&D at social and technical levels.



For which possibilities would you like to go? What is your top 3?

‘Inspired on the Swedish Viable cities programme, a similar support package for NL cities that would like to participate in the Horizon call; with a mechanism to inspire nation wide, involving technologies and funding available.



Who is in your dream team - locally - nationally - in Europe - in EU-networks?

Requires triple/quadruple helix cooperation and partnerships across Europe. This idea is also part of the approach of the mission. It is cities + business/companies together to tackle the challenges.

Climate Change Adaptation Towards 2025

Experiences from Denmark and The Netherlands

Background information

https://stateofgreen.com/en/uploads/2021/03/SoG_WhitePaper_LAR_2020_210x297_V09_WEB.pdf?time=1620201362

Cities around the world increasingly face the adverse effects of climate change, including rising sea levels, climbing temperatures, longer periods of drought and stronger storms. When combining these phenomena with the challenges of increasing urbanisation and the fact that most cities have extensive areas of impermeable surfaces, the need for rethinking urban development is clear.

Climate adaptation seeks to lower the risks posed by the consequences of climate change, including flooding that arises from extreme rain events.

Over the next decade, both the Netherlands and Denmark will invest heavily on adapting its cities to climate changes, and both nations have already implemented several efforts in climate adaptation. A key aim is to combine climate change adaptation with urban development and gain greater value. Instead of expanding the underground sewage system, municipalities and utilities are collaborating on making dual-purpose solutions.

In this respect, Nature Based Solutions (NBS) can play a key role in urban water management and contribute to building cities that are attractive for people to live,

work and play in. This session will highlight the climate change adaptation efforts and experiences from Denmark and the Netherlands, as well as highlight some of the innovative solutions for cities to future risks and challenges as a results of climate change.

Programme

- Introduction by moderator: Climate neutral cities towards 2025
- Presentation: Rotterdam's Climate Change Adaptation plan and key solutions by Johan Verlinde, programme manager Rotterdam WeatherWise
- Presentation: Copenhagen's Climate adaptation plan and key solutions by Lykke Leonardsen, Head of Program for Resilient and Sustainable City Solutions, City of Copenhagen
- Panel discussion: what are future challenges and how do we solve them?
With:
 - Ole Schrøder, Founding Partner, TREDJE NATUR
 - Johan Verlinde, Programme Manager, City of Rotterdam
 - Roy Janssen, Marketing Director, Rockflow, ROCKWOOL Group
 - Martin van Rijn, Director Product Management, Staal Instruments

Session

Climate Change Adaptation Towards 2025: Experiences from Denmark and The Netherlands

(Co)organisers

FME, InnovationQuarter, Embassy of Copenhagen, Regional business development team Nordics & Baltics, Dansk Industri, State of Green

Contact person

Aafke Mak, Charlotte Gjedde



Which pressing urban issue (challenge) did you address?

How can European cities become climate neutral?
Experience of PED/Climate City Contract



How can we create a way to achieve climate-neutrality goals?

Groningen explained their position and posed several questions to Sweden.

Sweden elaborated on their approach.

Swedish approach is inspirational; as it is a type of multigovernance approach supported by funding and R&D. See links on the next slides

Key is integrated approach; involving citizens; and have support by the government at all levels involved in the contract.

Building construction and property owners are difficult to align to become fossil free



What are preconditions to successfully deploy solutions that prove to be scalable?

- Vision, goals and support mechanism – based on cities need and actions (local solutions – not 1 size fits all) Involving citizens and business;
- Technology; how to pick the right data;
- Local, regional, national support;
- Funding: investment climate. Good governance on financial flow;
- Collaboration; Energy cooperations;
- R&D – but mostly in the sense of scaling up existing technology;
- Long-term thinking and large time span for loans;
- (details see link climate city contract next page)



What could be the next step to work across Europe? How do we create urgency?

- Cooperation from NL with leading countries in the approach of the Climate City Contract (Sweden, Austria, France, Spain).
- Within NL several steps still need to be made.
- Urgency is clear – key is to map relevant key projects already going on to obtain climate neutrality; apply existing technology, scale up experiments; and provide support with R&D at social and technical levels.



For which possibilities would you like to go? What is your top 3?

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Who is in your dream team - locally - nationally - in Europe - in EU-networks?

Requires triple/quadruple helix cooperation and partnerships across Europe. This idea is also part of the approach of the mission.
It is cities + business/companies together to tackle the challenges.

Track Smart & Green Mobility

The Zaragoza story

Joint investment Plans to accelerate
public private partnerships

Great ambition the climate neutral city! But who is going to pay for it? To transform you need to invest.

Join us and learn about the journey that Zaragoza is taking as the first European city to make use of the one stop shop for funding based on their long term mobility plan. A financial instrument by the European

Investment Bank (EIB) which enables cities to achieve their mission of 2030. It takes a ecosystem approach and Public Private Partnership to accomplish this. But first of all; leadership, vision and a strategy to define concrete steps and Key Value Indicators (KVI's) to realise the 2030 targets.

Most valuable insight

The EIB will work on a one-stop-shop for blended funding for cities

Session

The Zaragoza story; Joint investment Plans to accelerate public private partnerships

(Co)organisers

Zaragoza & VNG

Contact person

Jonas Onland & Paloma Fra



Which pressing urban issue (challenge) did you address?

How do you create a joint investment plan based of blended funding to support the mission towards 2030. And what do you run into; within the ecosystem but also towards national/ european level



How can we create a way to achieve climate-neutrality goals?

The Joint investment plan will help in the following ways:

- It forces the ecosystem to build the leadership team and create a concrete strategy (incl. new business models) to support the city towards climate neutrality in 2030
- It generated the necessary investment (public/private, between 500mio-1 billion) via local, regional, national and European funding via the EIB
- Through the Urbis proposal as an umbrella every investment needs a business case that proves a sustainable business model + show the societal impact on climate neutrality



What are preconditions to successfully deploy solutions that prove to be scalable?

The Joint Investment Plan as a standardized service will support cities in accelerating in the first step. To make sure that the pace is fast the following conditions need to be in place:

- leadership program for ecosystems (public/private) to make sure cities are aware of the possibility and are able to create the JIP
- Communication, inspiration and simple access to funding via the Urbis program by the EIB, EC and member states to stimulate the upscaling.



What could be the next step to work across Europe? How do we create urgency?

Through the policy (legislative packages Digital and Fit for 55) and EU funding (MFF & RRF) the urgency is there. The following actions are necessary:

- the standardised instrument needs to be in place.
- A network of 10 cities in 10 countries to proof it works (led by Zaragoza as frontrunner)
- A network of big cities (through f.e. Eurocities) in Europe to apply for the instrument
- Upscaling through the financial working group of living-in.eu



For which possibilities would you like to go? What is your top 3?

1. Create the coalition to create the conditions (member states, EC and EIB)
2. Create the standardised & scalable service
3. Network of frontrunners



Who is in your dream team - locally - nationally - in Europe - in EU-networks?

A network of ecosystems, EIB, EC, Member states and regions. In close collaboration with top leaders of industry, covenant of mayors & philanthropy

Creating an urban mobility system that works for everyone

A Belgian-Dutch cooperation

How can technology ensure that we do not only go from A to B as fast as possible, but also do that as clean and sustainable as possible? What modal shift do we need, and how do we achieve that? Join FME and Agoria members, as well as Belgian and Dutch cities, for a discussion and brainstorm on climate neutral mobility! NB. This session will be in Dutch

- Key notes by front runner cities about their challenges:
- City of Leuven/Louvain - Katrien Rycken – Leuven2030
- City of Apeldoorn – Wim Willems, alderman of the City of Apeldoorn
- Q&A / moderated discussion with panel
- Hans de Ruyscher, Siemens Mobility Belgie
- Wieland Hendrikse, The Urban Future

Programme

- Introduction by/of FME and Agoria
- The benefits of Belgian-Dutch cooperation

Most valuable insight

Cities across borders can advance a lot by learning from their processes: communication is key. Companies across borders can advance innovation by working together.

Session

Creating an urban mobility system that works for everyone: a Belgian-Dutch cooperation

(Co)organisers

FME, Agoria, City of Apeldoorn, City of Leuven

Contact person

Aafke Mak



Which pressing urban issue (challenge) did you address?

How can technology ensure that we do not only go from A to B as fast as possible, but also do that as clean and sustainable as possible? What modal shift do we need, and how do we achieve that?



How can we create a way to achieve climate-neutrality goals?

By focusing more on cooperation.



What are preconditions to successfully deploy solutions that prove to be scalable?

- Willingness
- A solid plan
- A clear question
- Mandate to act
- Budget to spend
- Acceptance from the population



What could be the next step to work across Europe? How do we create urgency?

- Rely more on cooperation and exchange: how can we learn from each other's pitfalls and processes (both public and private)
- Be open to being honest
- Be open to new ways of cooperating



For which possibilities would you like to go? What is your top 3?

Setting up a (financed) PPP cooperation between NL, BE and possibly other countries to speed up the transition



Who is in your dream team - locally - nationally - in Europe - in EU-networks?

Cities, private sector organisations, companies, a delegate at the EU who can really help us forward

How Urban Air Mobility (UAM) will change the way we organize and plan our cities

We evolved from horses to cars, now we advance from cars to flying cars. It will drastically change the way we will organise the climate neutral city. In 10 years this will be a fact of life. So we need to start thinking on how we plan are cities. Do we still need roads? Or can we plant trees? Urban Air Mobility (UAM) makes it possible to directly move towards a shared mobility

concept, based on clean energy and less movement. But what is necessary to realise this? And what do we need to today to make sure we make the right decisions for tomorrow. Within this session you will learn more on what the European Commission and several consortia are doing. You will find out that the sky is not the limit.

Most valuable insight

Urban Air Mobility (UAM) will change the way we plan our cities and how we organize mobility. We have the chance to do this directly based on shared mobility & clean energy. We need to start preparing now.

Session

How Urban Air Mobility (UAM) will change the way we organize and plan our cities

(Co)organisers

VNG

Contact person

Jonas Onland



Which pressing urban issue (challenge) did you address?

Explore the opportunities & threats of Urban Air Mobility (UAM) (flying cars, drones and others) for cities and region. Based on the innovation & research call of the EC there are several challenges defined which need to be solved for large implementation within the Urban Air Space (safety, cybersecurity, social acceptance). But it also has a direct impact on the planning of cities. How many roads do we need if mobility will move (partially) to the air? And what is the challenge for real estate within cities to transform to heliports



How can we create a way to achieve climate-neutrality goals?

Urban Air mobility will have a major impact to become climate neutral by moving cargo and person to the air. Before starting with implementation, the opportunity is there to directly transform the mobility system of cities towards:

- Shared mobility (90% reduction of vehicles compared to ownership).
- Directly clean energy (via hydrogen & and electricity).
- Leaving space for less roads and more nature (biodiversity) within cities.
- Directly moving towards full autonomous mobility via the geospatial digital infrastructure



What are preconditions to successfully deploy solutions that prove to be scalable?

There are several preconditions that need to be in place to secure a safe, clean, reliable and socially accepted air space

- European and national legislation needs to be aligned (liability, aviation & digital)
- A geospatial infrastructure
- Hardware development of clean and safe drones (different sizes; from monitoring drones up to flying cars)
- Physical infrastructure within cities
- Business value for the end user (citizens and companies)



What could be the next step to work across Europe? How do we create urgency?

- Create awareness of the impact, opportunities and challenges of UAM for the climate neutral city
- Built a network of cities that work on UAM within NL and connect them with the EU ecosystem.
- Create a roadmap towards safe and clean UAM within cities.
- Develop an industry strategy to accelerate the development of autonomous flying vehicles.



For which possibilities would you like to go? What is your top 3?

4. Creating awareness on the impact of UAM within the field of Mobility and infrastructure within NL
5. Building the coalition of the willing to accelerate the development of UAM within cities
6. Building a coalition of the willing with industry partners that help in the development of UAM



Who is in your dream team - locally - nationally - in Europe - in EU-networks?

Leadership team on UAM within NL (industry, mayors, state secretary I&W). With the ecosystem built the connection with the UAM ecosystem in EU and the EC.

Unleashing the potential of Smart active mobility for Climate Neutral Cities

Cities and climate change are deeply intertwined; urban activity is one of the greatest contributors to the global carbon footprint. However, climate change also poses an immense threat to city life. Shifting towards active mobility is perhaps the most powerful transformer for creating sustainable and safe cities that are actively contributing to reducing carbon emissions as well as becoming socially equitable, healthier, and happier places to live. The ambition of the EU to create 100 climate neutral cities by 2030 cannot be reached without seriously investing in smart active mobility and improving cycling conditions.

This session can focus on finding answers to questions such as how to build on the active mobility momentum during COVID-19 and how to build back better (now and during the aftermath)? What are the policies and interventions needed to achieve modal shift towards active mobility? And which business solutions are most promising in

this respect? And how can this strengthen the ambitions of the EU to create 100 climate neutral cities by 2030?

Programme

- Welcome (5min)
- Why is it important to focus on the transformative shift towards active mobility? (presentation) (5 min)
- What are best practices? (presentation, including recap of Celebrating Cycling Cities-event that we will launch on June 1st in collaboration with the European Cyclists' Federation and during which best practices will be shared) (10 min)
- How do we move forward most successfully? (workshop focusing on answering the question what is needed for the transition towards climate neutral cycling cities and which business solutions might be most promising?) (25 min)
- Recap and follow-up (10min)

Most valuable insight

What we have learned in 40 years can be transferred in 5 minutes!

Session

Unleashing the potential of Smart Active Mobility for Climate Neutral Cities

(Co)organisers

Dutch Cycling Embassy, European Cyclists Federation and Handshake

Contact person

Lucas Harms



Which pressing urban issue (challenge) did you address?

Transforming urban mobility, making it climate resilient, AND more safe, more social, more healthy, more wealthy and more happy places to be!



How can we create a way to achieve climate-neutrality goals?

By transforming urban mobility patterns, looking at and learning from best practices (and failures) from cities around Europe (and elsewhere), to boost cycling and pedestrian conditions, thereby limiting the environmental impacts and space consumption of traditional modes of transport.



What are preconditions to successfully deploy solutions that prove to be scalable?

Not only focus on hardware, but also on software (or mindware) and orgware conditions. So no exclusive focus on physical environment, but changing the minds of citizens and companies (to fix the 'operational denial') and bringing stakeholders together and aligning them properly to reach the common goal of climate neutrality.



What could be the next step to work across Europe? How do we create urgency?

Creating a European Community of Practice on Cycling – a platform for exchange of knowledge, expertise and experience and do's and don'ts to move forward most successfully.



For which possibilities would you like to go? What is your top 3?

Moving forward with European Community to exchange best practices and learn from each other and speed up the change!



Who is in your dream team - locally - nationally - in Europe - in EU-networks?

DCE working together with European Cyclists' Federation, Cycling Industries and corporations and consultancies to bring inspiration and change to cities and citizens.

Istanbul's vision & ambition for smart & green mobility

benefits of collaborating with one of Europe's few megacities

As one of Europe's few mega cities, the challenges Istanbul faces in terms of the transition to smarter and greener mobility are immense. The privately owned car remains the most popular form of mobility, and that has become even stronger during the COVID-19 pandemic. On average, Istanbulites lose 2,5 hours per day due to being stuck in traffic. Imagine what this does to Istanbul's air quality.

Luckily, the city of Istanbul strongly feels the need to make this transition to a smarter and greener form of mobility. Not just by transitioning to e-mobility, but also by redesigning public space to accommodate active forms of mobility, such as walking and cycling and by improving access to public transportation.

The Dutch economic network in Turkey has been in close cooperation with Istanbul's city officials to see where Dutch organizations can make the difference in this transition. Supported by the RVO, we

have undertaken studies and organized several visits, seminars and workshops in order to bring focus in our collaboration. Together with the city of Istanbul, we have decided to focus our future collaboration on data driven mobility, public space redesign and e-mobility.

Now it is time to define next steps: how can Istanbul's vision and ambition for its transition to a smarter and greener mobility system lead to increased collaboration with Dutch organizations? In what way can Istanbul position itself as a living lab for testing innovative solutions? Is Istanbul's local innovation ecosystem mature enough to provide and deploy innovative solutions? And can EU funding programs help kick start our collaboration?

Together with the city of Istanbul, we will discuss the aforementioned questions and define an agenda for the near future that will lead to increased collaboration.

Most valuable insight

A megacity like Istanbul could be better utilized to test and scale up solutions

Session

Istanbul's vision & ambition for smart & green mobility: benefits of collaborating with one of Europe's few megacities

(Co)organisers

General Consulate of the Netherlands in Istanbul, Istanbul Metropolitan Municipality, Istanbul Technical University, Clearwater Innovations B.V.

Contact person

Rory Nuijens



Which pressing urban issue (challenge) did you address?

The transition to smart & green mobility



How can we create a way to achieve climate-neutrality goals?

It is important to support political ambitions with enough financial support that is aimed at scaling up solutions. Especially also for developing economies such as Turkey, as there the innovation ecosystems might not be as well developed. These ecosystems therefore have more difficulty to play a role in turning innovations into practise.



What are preconditions to successfully deploy solutions that prove to be scalable?

Most important precondition is to have customers that are willing to deploy these solutions.



What could be the next step to work across Europe? How do we create urgency?

In terms of Smart & Green Mobility the KIC Urban Mobility provides a good way to promote European collaboration in order to deploy innovations in that field. In terms of research leading to innovation, the Horizon Europe Widening Participation program could help developing countries such as Turkey to increase their innovation capacity.



For which possibilities would you like to go? What is your top 3?

In the collaboration with Istanbul, the focus is on data driven mobility, the redesign of public space and the transition to e-mobility.



Who is in your dream team - locally - nationally - in Europe - in EU-networks?

There is already collaboration between the Dutch Consulate General in Istanbul, the Istanbul Metropolitan Municipality, Istanbul Technical University, AMS Institute, KIC Urban Mobility

Track Urban Leadership

Roundtable European smart city lighthouse projects

Lessons learned for companies and cities

Horizon2020 featured the so-called smart city lighthouse projects, which successfully demonstrated an integrated approach to smart and low carbon transport, buildings and infrastructures in cities, with in-depth engagement of and co-creation with stakeholders and smart IT. Common ingredients of most plans are installation of smart meters, smart thermal and/or power grids, and renewable energy systems in combination with thermal insulation and deep retrofitting, smart lighting, mobility and logistics hubs combining electric vehicles and clean transport, electrification of fleets and private cars, autonomous vehicles, Intelligent Transport Systems (ITS) and establishment of urban data platforms, connecting the different domain subsystems through interoperable ICT, providing new services or supporting co-design and co-creation.

To ensure replication and scaling-up afterwards, demonstrations in 2 to 3 lighthouse cities are closely followed by 3-5 fellow cities that have the obligation to develop plans bold city visions for replication of successful solutions. Since 2015, nearly 20 of such projects have been funded encompassing around 50 cities with lighthouse projects and more than 80 fellow cities aiming to adopt and replicate the demonstrated innovative solutions.

With these projects in different stages of implementation, they offer a rich variety in experiences of setting up and executing such integrated, highly ambitious projects by public-private collaboration. Representatives of Munich (Smarter Together), Amsterdam (Atelier), Trondheim (+CityxChange), Rotterdam (Ruggedised) and Groningen (Making City), share their most important lessons learned, and what

would they advise to companies and cities interested to develop Climate City Contracts in future.

Agenda

10:00 – 10:05 Welcome – Judith Borsboom (Locality)

10:05 – 10:25 Short Pitches of the Smart City Lighthouse Projects – City of Munich (Bernard Klassen), City of Rotterdam Rotterdam (Albert Engels), Norwegian University of Science and Technology (Dirk Ahlers), City of Amsterdam (Rudy Rooth), City of Groningen (Jasper Tonen)

10:25 – 10:50 Roundtable questions and Q&A with the audience

10:50 – 10:55 Wrap-up - Judith Borsboom (Locality)

Most valuable insight

Period concessions key obstacle, commitment companies needs attention, financial constructions can mitigate negative transition effects

Session

Round table smart city lighthouse projects

(Co)organisers

Locality

Contact person

Judith Borsboom



Which pressing urban issue (challenge) did you address?

There are many good demonstrations, for example the Horizon 2020-funded comprehensive, integrated and inclusive smart city lighthouse projects addressing energy, mobility and digitalisation. However, despite these projects having loads of experience, the transfer of lessons learned is not easy. The 100 Climate-neutral City Contracts can benefit highly from these lessons learned. Five lighthouse project cities reflect on public-private partnerships.



How can we create a way to achieve climate-neutrality goals?

All lighthouse projects established public-private partnerships with solutions providers and with citizens/local businesses to work on CO2 reduction in a district. Innovative solutions were applied, together with re-search institutes and companies. These large-scale demonstrations facilitated growth of the market for these solutions but this was not the explicit aim. The last generation of these projects (Atelier, POCITYF) implement Positive Energy Districts – the bar very high and combinations of solutions often experimental. Subsidies were important (H2020 funded 18 to 25 Million for 2-3 demonstrations and 3-7 observers)



What are preconditions to successfully deploy solutions that prove to be scalable?

Different aspects were stressed in different projects/cities: peer-to-peer exchange is key, higher rate of refurbishment of owner-occupier apartments realised (Munich); 10-year permits and concessions not enough for investors in sustainable technology (Amsterdam); fair balance between drawbacks and benefits and financial constructions to deal with energy poverty (Groningen); a good story and commitment of the top of companies are key (Rotterdam). The principle of demonstrating city – active observer city that develops a bold city vision and intends to implement the solutions later proved very valuable – although not easy.



What could be the next step to work across Europe? How do we create urgency?

- Show the examples: e.g., models of the public-private partnerships of each demonstration – SCALE and Smart Cities Marketplace consortium?
- The Netherlands was very successful with 6 smart city lighthouse projects: sharing their experiences and knowledge with companies and cities would already be very useful (see Teuben report)
- Alignment between different government levels to enable Climate City Contracts needed, also for comparable Dutch projects for realising the energy visions etc.)



For which possibilities would you like to go? What is your top 3?

City administrations, citizens and/or local businesses, solutions providers, consultants (often TNO/VTT/Cartif/Tecnia)



Who is in your dream team - locally - nationally - in Europe - in EU-networks?

Apart from aforementioned local partners: associations of cities and companies (VNG-FME) + investors

Public private citizen partnerships on measure our city projects

For municipalities (and other authorities) citizen measurement projects offer the advantage that they can attune their policy and services much more precisely to reality (based on measurement results instead of assumptions) and can therefore work much more effectively. There are enormous business opportunities for suppliers of sensors, processors of data, parties that maintain contact with citizens and the traditional market must adapt to this new reality. However, there are also drawbacks and challenges on comparing results, on involving citizens and on avoiding a digital divide.

On this topic the City Deal 'A smart city, this is how you do it', works together with Eurocities, supported by the TSI-programme of the EU. During a talk show session we engage with various

stakeholders in this process to learn from their experiences: citizens, aldermen, scientists, businesses and representatives of Eurocities. You are very welcome to ask your questions to our guests and participate in the discussions.

Program timeline

00 – 10 min – Welcome & introduction to the 'Local Measurement' project within the City Deal and soon within the European 'CitiMeasure' project, by Jan-Willem Wesselink of the Future City Foundation and City Deal 'A smart city, this is how you do it' (host)

10 – 20 min – Topic 1: Perspective from the government, with alderman Van Willigen (municipality of Zwolle) - Conversation - How is Zwolle working on this, how is Van Willigen working on this as a director? What is his request for help?

20 – 30 min – Topic 2: Perspective from science, with Marita Voogt (Innovator Environmental Monitoring, at National Institute for Public Health and the Environment, RIVM) - Conversation - What does this mean for the role of RIVM? What is RIVM's request for help?

30 – 40 min – Topic 3: Business perspective, with Jeroen Moonen (Civity) - Conversation - Explanation about Sniffer Bike, focus on how you can turn a project like this into a business. What is the need for help from the business community / Civity?

40 – 50 min – In conversation with Eurocities about the European 'CitiMeasure' project

50 - 55 min – Wrap up & closing

Most valuable insight

More collaboration between municipalities, businesses and citizens, on which data is collected and how to share this data between different stakeholders

Session

Public private citizen partnerships on measure our city projects

(Co)organisers

Future City Foundation / City Deal “A smart city, that’s how you do it”; Eurocities & Urban agenda (Ministry of the Interior and Kingdom Relations)

Contact person

Jan-Willem Wesselink



Which pressing urban issue (challenge) did you address?

More and more municipalities are experimenting with citizen measurement projects. In addition, citizens, with the support of the municipality, install sensors to measure a certain aspect of the quality of life in that neighbourhood. Collecting data offers residents insight into their own living environment and indicates how they can enhance it.

What opportunities do these urban measurement projects offer residents, but also governments and companies? And how can they take advantage of these opportunities together?



How can we create a way to achieve climate-neutrality goals?

- By making citizens more aware of the impact of climate change.
- By initiating more citizens science projects.
- In which the citizens collect data in their own neighbourhood.



What are preconditions to successfully deploy solutions that prove to be scalable?

- Collaboration between different stakeholders: municipalities, businesses and citizens.
- More exchange of knowledge and best practices between different projects.
- By creating standards for citizens measurement projects.



What could be the next step to work across Europe? How do we create urgency?

What could be the next step to work across Europe? How do we create urgency?



For which possibilities would you like to go? What is your top 3?

See above



Who is in your dream team - locally - nationally - in Europe - in EU-networks?

- Local governments and companies across Europe.
- Connection with European networks (like AOSC, FIWARE etc.).
- Combination of developers, data scientists and policy makers.

Unlocking climate neutral co-benefits for digital infrastructures in cities

Technologists are often told that they should not supply technology but need to collaborate in integrated solutions and create public value. These purpose driven solutions often have complex business models and value chains. Even more, they depend on digital infrastructures which are essential to coordinate strategic synergies. Unfortunately, the development of these infrastructures does not always keep up with the pace of digital innovation. This slows down the market development of innovative, integrated and sustainable solutions, which are highly necessary to achieve climate goals.

How to speed up? Creating a highly developed, solid and fast urban digital infrastructure is all about accelerating entrepreneurship, investment and innovation with societal impact. During the workshop we will dive into impact

measurement frameworks and business models on the wide portfolio approach of digital infrastructures. We will set up an interactive dialogue - led by Henk de Jong, CEO of PBLQ - with European frontrunners who will share their successes, failures and lessons learned. Their insights will be co-created into tools which will encourage administrators to integrate climate neutral ambitions in their digital infrastructure policies and deployment activities.

14.00 - 14.05 Introduction

Welcome by Jacobine de Zwaan, Senior Advisor Smart Cities, Netherlands Enterprise Agency
'Connecting Worlds' by Henk de Jong, CEO PBLQ and former city manager of the City of Amsterdam

14.05 - 14.20 Learning

Case Porto by Paulo Calçada, CEO / Board

Member at Porto Digital
Case Stockholm by Anders Broberg, Senior Advisor Smart City, City of Stockholm
Private sector and investors perspective by Jaewon Peter Chun, President at World Smart Cities Forum and former Master Planner of Busan (South Korea)
European Commission perspective by Cristina Martinez, Deputy Head of Unit Technologies for Smart Communities at European Commission (DG Connect)

14.20 - 14.50 Interactive Panel discussion

lead by Henk de Jong between Paulo Calçada, Anders Broberg, Jaewon Peter Chun and Cristina Martinez

14.50 - 15.55 Reflection

Most valuable insight

A solid/flexible digital infrastructure creates value with intangible assets which we don't yet capture in the GDP

Session

Unlocking climate neutral co-benefits for digital infrastructures in cities

(Co)organisers

Netherlands Enterprise Agency & PBLQ

Contact person

Jacobine de Zwaan



Which pressing urban issue (challenge) did you address?

- The development of digital infrastructures does not always keep up with the pace of digital innovation. This slows down the market development of innovative, integrated and sustainable solutions, which are highly necessary to achieve climate goals.
- Without a digital infrastructure we will not be able to create data driven decision making. How to collect the data and make it workable and usable?



How can we create a way to achieve climate-neutrality goals?

- Digital is not only the backbone of a city, but also its ears and eyes, sensing what's going on in and around the city and transforming this information into actionable data. Unfortunately, the topic of digital infrastructure is not in the DNA of the municipality, but it is fundamental because it is where transitions take place.
- Create value with intangible assets which we don't yet capture in the GDP. There is no thrive that is not circular.
- Data is knowledge & science. To support the systematic transformation of both society and climate neutrality data has to be made available



What are preconditions to successfully deploy solutions that prove to be scalable?

- PPP model is an important factor. Nothing will happen in isolation. We have to create a level playing field by establishing partnerships within an ecosystem. It is important to provide space to the ecosystem to define their own solutions. The governments has to make sure that everyone is at the table.
- You need governance, contracts and a mandate to manage smart grid systems.
- 95% of money will have to come from the private sector
- You need to slice the issue in different levels, need to review a different way. We need more data, both historical and real time



What could be the next step to work across Europe? How do we create urgency?

- To mature the market we need an acting perspective on how to build a digital road. Awareness is not enough.
- Learn (and use) from grand design developed by frontrunners and help governments design an assertive strategies that avoid vendor lock-ins
- Create data brokerage services



Who is in your dream team - locally - nationally - in Europe - in EU-networks?

EU-level : Living in EU, DG Connect
Local level: Porto, Stockholm

European landscape of climate-neutral and smart cities

How to engage for wide deployment of innovative solutions?

Have you always been curious to hear from the European Commission itself how you can engage in European policy development and knowledge sharing networks on deployment of innovative climate-neutral and smart solutions? This is your chance! With the new programming period of the European Commission, the Green Deal and post-Covid 19 Recovery Funds of Next Generation EU, many new opportunities for large-scale innovation and deployment of climate-neutral smart city solutions in local and regional ecosystems have been created.

This session gives an overview of the European landscape in terms of policy developments and knowledge sharing networks for decarbonising cities from the energy, digitalization, innovation system and research perspective. Representatives of DG-Energy (Georg Houben), DG-Connect (Cristina Martinez), European Innovation Council (Francesco Matteucci) and the Unit Territorial Development at Joint Research Centre (Alessandro Rainoldi), explain the evolving European landscape of policies and instruments as the Renovation Wave and Living-in.EU, and relevant networks such as

the Smart Cities Marketplace, 100 Intelligent Cities challenge and JRC's Community of Practice on Cities. How can city administrations, urban stakeholders, businesses, researchers and citizens engage to hear more about new policies and upcoming opportunities for learning and sharing knowledge, for building partnerships and for developing new projects and programmes around innovative climate-neutral and smart city solutions? In this interactive session there will be ample opportunities for Q&A with the audience.

Agenda:

15:00 – 15:05 Welcome – Corinne van Voorden (Netherlands Enterprise Agency)
15:05 – 15:50 Short Pitches from DG-Energy (Georg Houben), DG-Connect (Cristina Martinez), European Innovation Council (Francesco Matteucci) and the Unit Territorial Development at Joint Research Centre (Alessandro Rainoldi) followed by Q&A – moderated by Judith Borsboom (Locality)
15:50 – 15:55 Wrap-up - Corinne van Voorden (Netherlands Enterprise Agency) and Judith Borsboom (Locality)

Most valuable insight

Innovation performance, funding, and ecosystem are holding back European innovation

Session

European landscape of climate-neutral and smart cities

(Co)organisers

Locality, Netherlands Enterprise Agency

Contact person

Judith Borsboom, Corinne van Voorden



Which pressing urban issue (challenge) did you address?

The European paradox means that EU countries fail to fully translate scientific advances into marketable innovations: strong research not translated into innovation, lack of breakthrough innovations creating new markets, financing gaps for transition from lab to enterprise and scaling of high-risk innovative start-ups, fragmented ecosystem at EU level, not all regions or talent included. Innovations do not reach the urban market or are insufficiently deployed.



How can we create a way to achieve climate-neutrality goals?

The EIC provides a one-stop shop for breakthrough, deep-tech, market-creating innovators, agile funding from idea to investment, and building ecosystems (finance will come once the local innovation ecosystem is in place, having the good mindset and culture). An ecosystem of innovation development can increase cities' attractiveness for companies, increase participation in EU projects, provide soft incentives to officials, share best practices and support development of PPPs. This building on open innovation tools (proof of concept laboratories, living labs, research infra, people, market)



What are preconditions to successfully deploy solutions that prove to be scalable?

Cost-efficient data platforms and local data spaces facilitate cities' access to information and knowledge on how to contribute to Green Deal in the European way (public and private investors in Living-in.EU). The Urban Observatory of JRC provides benchmark indicators for cities, Cities Community of Practice and City Science Initiative, handbook of territorial strategies to achieve the SDGs. Smart City Lighthouse projects have been successful in quadruple helix innovations in their local ecosystems and provide many good examples. The Smart Cities Marketplace matches plans of cities with investors.



What could be the next step to work across Europe? How do we create urgency?

Preparing cities and companies for Urban Initiative ERDF, Green Deal incl. Renovation Wave, Renovation WaveNext Generation EU, InvestEU, Just Transition, Smart Cities Marketplace, Digital Innovation Hubs, EIC GreenTech programme, providing better access to European knowledge sharing networks and communities of practice. Aligning ecosystems from local to EU level. Having more Dutch partners participating in EU networks and innovation opportunities (e.g., in SDG Voluntary local reviews, EIC Greentech)



For which possibilities would you like to go? What is your top 3?

European Commission (DG-Ener, DG-Clima, DG-Connect, DG-Move, DG European Innovation Council (new after trial), JRC, Member States, management authorities ERDF



Who is in your dream team - locally - nationally - in Europe - in EU-networks?

Companies, citizens, research and city administration working on local ecosystems for climate-neutral innovation

Can we use Public-Private Partnerships to finance the needed strategies to obtain the Climate Neutral City?

Public Private Partnerships (PPPs) have been used for infrastructure business for decades. The new development in terms of Smart and Sustainable Cities and the need to coordinate several stakeholders to reach goals of climate neutrality frame PPPs as the logical way to operate in the current context. However, their deployment is still limited in these types of applications. What are the challenges and how can we overcome them?

The goal of this 55 minutes workshop is to identify not only potentials, but also areas of improvement and suggestions to realize said improvements. For that, we will invite experts from the investment area, municipalities and other involved institutions who have already have some sort of contact with PPPs. The ideal number of panelists would range between four and six.

The methodology to come to the identification of potential and the areas of improvement will be made through the presentation of 3 different theoretical urban cases. It is basically brainstorming regarding the

application of a PPP for three cases in three different areas. The approach to those cases from the different actors will hopefully raise known possibilities and issues on PPPs, such as difficult risk allocation or trust issues, and lesser-known ones. At the same time, we want to hear the suggestions of panelists and audiences to overcome the issues from their own experience and perspectives.

Structure of the workshop:

Introduction (5 minutes)

Short introduction of the panelists and their experience (no more than 3 minutes per panelist)

Case analysis (10 minutes each):

1. Electric mobility.
2. Data gathering and sharing.
3. Improvement of urban biodiversity / greening brown infrastructure.

Conclusions and closure (5 minutes)

Most valuable insight

PPPs and other interplay is important to advance but trust issues need to be overcome.

Session

Public-Private Partnerships

(Co)organisers

Cleantech Scandinavia, TNO

Contact person

Alicia Requena



Which pressing urban issue (challenge) did you address?

Can we use Public-Private Partnerships to finance the needed strategies to obtain the Climate Neutral City?



How can we create a way to achieve climate-neutrality goals?

There is a funding gap between what the climate neutral city needs and what has been done so far. These new investments that are needed cannot only be funded by loans, so other types of financial mechanisms, such as the PPPs, could be used to fill in that gap and, at the same time, foster innovation and business.



What are preconditions to successfully deploy solutions that prove to be scalable?

When a solution is scalable, it is important, first and foremost, to work with trust issues; PPPs often have a bad reputation because there have been cases in which the public institution has clearly lost. However, if procurement procedures and contracts are clear, what needs to be stated is how to allocate responsibilities: design, implementation, risk, funding, and revenues.



What could be the next step to work across Europe? How do we create urgency?

A very important step that Europe can work on is in contractual support for the municipalities.



For which possibilities would you like to go? What is your top 3?

It depends on the context (responsibilities and dynamics of each municipality).



Who is in your dream team - locally - nationally - in Europe - in EU-networks?

PPPs are necessarily a conjoint work between all actors involved in a project. I would add national governments and the EU as institutions that can help negotiate those agreements.

Financing as a driver for mission-driven deployment

(EBRD Green Cities)

“[EBRD Green Cities](#) strives to build a better and more sustainable future for cities and their residents. The programme achieves this by identifying, prioritising and connecting cities’ environmental challenges with sustainable infrastructure investments and policy measures.”

During this interactive session organized together with the EBRD, we aim to learn more about what the initiative achieves on the ground in some of the EU cities that are part of the EBRD programme.

How does EBRD Green Cities enable and establish public-private cooperation and bring together the various stakeholder interests to shape and finance green and sustainable projects that contribute to the

EU ambition to have 100 climate neutral cities by 2030?

On the panel will be Caspar Veldkamp, EBRD Director for Netherlands/China/Mongolia/North Macedonia/Armenia, Plamena Marinova, Deputy Mayor of the [City of Varna](#) (EBRD Green City since 2019) and Julije Domac, Board Member of the EU [Covenant of Mayors](#).

The session will be moderated by Matthew Jordan Tank, Director, Sustainable Infrastructure Policy & Project Preparation of the Sustainable Infrastructure Group at the EBRD.

Please join us!

Most valuable insight

With pushing for systemic change (public awareness, multilevel governance coordination, stakeholder engagement) cities make the difference!

Session

Financing as a driver for mission-driven deployment (EBRD Green Cities)

(Co)organisers

EBRD, Netherlands Enterprise Agency

Contact person

Jurre de Bok



Which pressing urban issue (challenge) did you address?

The challenge of how to translate macro level, very strategic and high over global climate challenges and policy goals into an actual positive impact on the daily lives of people and the quality of it. Find balance between current needs of citizens (short term) – long terms sustainability objectives that require investment and time.



How can we create a way to achieve climate-neutrality goals?

- Balance between prioritise concrete short term actions with visionary long term goals.
- Make contributions to climate neutrality visible for citizens (responsibility local leadership).
- Engage stakeholders and citizens.
- Public awareness and responsibility.
- Cross-cutting/integrated planning.



What are preconditions to successfully deploy solutions that prove to be scalable?

From a finance perspective: new alternative business models, appreciation of non-commercial factors/results/ impact (also for public infrastructure).



What could be the next step to work across Europe? How do we create urgency?

Build vast partnerships. EBRD Green Cities interest aspect: ability to leverage its impact through other key partnerships/ donors etc.: EU5P, EU Climate Fund, EU Climate Investment Fund.

Financing the transition to climate-neutral cities

The investors perspective and financing possibilities through the Smart Cities Marketplace

While EU funding possibilities in Horizon Europe play an important role in developing and validating innovative climate-neutral and smart city solutions and technologies, it has become more and more clear that funding alone will not suffice to cover the costs of the transition to climate-neutral cities. For that reason, the possibilities offered by the private sector are becoming more and more important for the implementation of smart and climate-neutral urban solutions. The Smart Cities Marketplace plays an active brokerage role here, and matches climate-neutral and smart city plans to a network of sustainable investors.

What are the requirements to plans from investors perspective, what type of information is needed and how can city administrations make use of the matchmaking facilities of the Smart Cities Marketplace? This session answers these

questions and explains how cities can make use of this matchmaking to have a wider array of possibilities for financing the transition to climate-neutral cities. Eelco Kruizinga (DNV) explains the route to find money for good plans!

Agenda

15:00 – 15:05 h What is the Smart Cities Marketplace? Tatiana Pasquel Garcia (VITO)
Judith Borsboom (Locality)
Eelco Kruizinga (DNV)

15:05 – 15:35 h The investors perspective
Heimen Visser, Primevest
Rémi Cuer, Kyotherm

15:35 - 15:50 h Matchmaking: how does it work? - Eelco Kruizinga (DNV)

15:50 – 15:55 h Wrap-up and next steps -
Judith Borsboom (Locality)

Most valuable insight

It is well possible for city administrations to use private finance for smart lighting and district heating plans

Session

Financing the transition to climate-neutral and smart cities

(Co)organisers

Locality

Contact person

Judith Borsboom



Which pressing urban issue (challenge) did you address?

Many cities look at their own budgets or national/ EU funding to get their climate-neutral and smart city plans financed. However, as the costs of the energy transition amount to roughly 1 Billion Euro per medium-sized city, this cannot be realised without using private finance. City administrations should consider these when preparing their plans and be aware specific information should be there from the investors perspective.



How can we create a way to achieve climate-neutrality goals?

Primevest and Kyotherm explain how their organisations finance smart lighting and district heating plans without claims to ownership of the infrastructures. If cities should make more use of private finance (as also Matthew Baldwin referred to), the market for climate-neutral and smart solutions will grow enormously. Both organisations highlight their business model. Besides, Eelco Kruizinga explains how cities can find finance via matchmaking through the of the Smart Cities Marketplace. Kyotherm is one of the investors in this.



What are preconditions to successfully deploy solutions that prove to be scalable?

The investors need more plans and plans of higher quality with a better financial paragraph. Insufficient good plans are coming in, so resources are not entirely used. For city administrations, the conditions for using private finance need to be more clear. Preferably it should be off balance and without transferring any ownership rights of buildings and infrastructures owned by the municipality. There is a need to have more examples of good models for developing strategies and project portfolios and for financing available and better known.



What could be the next step to work across Europe? How do we create urgency?

- Realisation that energy transitions cannot be financed from the balance sheet of the municipality – climate treaty has been signed by Dutch government: awareness raising campaign with VNG and investors?
- Joint effort to raise project maturity level – webinars Smart Cities Marketplace/academy.
- More cities using the Smart Cities Marketplace to find private finance for their plans.



For which possibilities would you like to go? What is your top 3?

City administrations, city staff preparing plans, solutions providers, investors, intermediaries as consultants and Smart Cities Marketplace.



Who is in your dream team - locally - nationally - in Europe - in EU-networks?

Public Private Partnerships come in many different combinations. Therefore, the choice of partnership will be highly dependent on the context, responsibilities and dynamics of each city. The most important element to make the perfect choice is knowledge of the context and of each actor's capacities.

200 Intelligent & Climate Neutral Cities Jam

The Intelligent Cities Challenge (ICC) is a project by the European Commission (EC) helping more than 100 European cities on their way to green, climate-neutral and sustainable growth through the use of digital technologies. In 2021, the EC will also launch a “100 Climate-Neutral Cities” (CNC) mission, supporting cities on their way to achieving climate neutrality by 2030. Both the ICC and CNC aim to support European cities in their transformation towards sustainability. This workshop will bring together stakeholders from these two city networks to share their ambitions and approaches, creating synergy and amplifying their impact.

Program

13:00 – 13:10 Welcome and introductions, Cornelia Dinca, Amsterdam Smart City International Liaison & Leonie van den Beuken, Amsterdam Smart City Program Director

13:10 – 13:35 Short pitches by 100 Intelligent Cities Challenge (ICC) and 100 Climate Neutral Cities Mission (CNC) stakeholders including: Jacobine de Zwaan (RVO Advisor Smart Cities), Dana Eleftheriadou (Head of ICC), Christiaan Norde (City of Amsterdam International Affairs Advisor)
13:35 – 13:50 Roundtable discussion with the audience
13:50 – 13:55 Final reflections and program end.

This workshop is an initiative by Amsterdam Smart City which is representing the mentor region of Amsterdam in the ICC. The purpose of this session is to share the methodology and lessons learned from ICC with stakeholders of the 100 climate-neutral cities mission, creating synergy and cross-overs between these two closely related initiatives.

Most valuable insight

ICC and CNC are inspiring examples of how the European Commission is mobilizing resources to accelerate the twin green and digital transitions

Session

200 Intelligent & Climate
Neutral Cities Jam

(Co)organisers

Amsterdam Smart City,
Netherlands Enterprise Agency

Contact person

Cornelia Dinca



Which pressing urban issue (challenge) did you address?

The session brought together stakeholders of the European Commission's 100 Intelligent Cities Challenge (ICC) and 100 Climate-Neutral Mission, to create synergies between these two initiatives and help amplify their impact.



How can we create a way to achieve climate-neutrality goals?

The goal of the session was to connect two different but complementary networks / initiatives of the European Commission.

Further collaboration and sharing of knowledge and experiences between similar networks is necessary in order to scale promising solutions and approaches, while learning from others and avoiding that we reinvent the wheel over and over again.



What are preconditions to successfully deploy solutions that prove to be scalable?

- Good policy
- Strong leadership
- Sense of urgency
- Collaboration
- Innovative thinking
- Shared ambition
- Funds
- Imagination
- Test areas
- Open data platforms
- Commitment
- Holistic approach
- Trust between different departments & stakeholders
- Real engagement of citizens and civil society groups (for example through citizens assemblies)



What could be the next step to work across Europe? How do we create urgency?

- Mission-oriented thinking can help create the necessary urgency to inspire bottom-up innovation and solutions.
- Additionally, good policy will need to be in place to ensure the right incentive; implementing the “polluter-pays” principle and other similar policies will be necessary to achieve 100 climate neutral cities by 2030.
- Recap from session: <https://amsterdamsmartcity.com/updates/news/aiming-for-the-moon-to-achieve-200-intelligent-climate-neutral-cities-by-2030>



For which possibilities would you like to go? What is your top 3?

Follow-up session to explore what concrete solutions from the Intelligent Cities Challenge can /should be scaled up in Climate Neutral Cities Mission, and how.



Who is in your dream team - locally - nationally - in Europe - in EU-networks?

Iordana Eleftheriadou
Matthew Baldwin
Mariana Mazzucato

Urban Transitions - Inclusive Citizen Engagement

(part of Mayor's Manual podcast)

Episode #18 of Mayor's Manual is made specifically to help you make European cities reach their target of becoming climate neutral by 2030 through inclusive citizen engagement. Guests are Leonie van den Beuken and Alexandra Almaral. Leonie is the program director at Amsterdam Smart City, an expert in creating inclusiveness in citizen engagement initiatives and driven by the opportunity to create and facilitate sustainable solutions. Alexandra is founder of the Shift Initiative, an expert on belonging, engagement and inclusiveness with a keen focus and enthusiasm for cross-cultural behavioral insights and human transformation.

The podcast discusses how we can create inclusive change. Change that gives a feeling of belonging, includes all voices and takes into account human behaviour throughout transitions. Topics include how we can create acceptance, the right mindset and a common language for necessary change. Listen in to learn more about the topic of change from the perspective of acceptance and inclusion, using one of the three links below:

Spotify: <https://bit.ly/mayorsmanual18spot>

Google: <https://bit.ly/mayorsmanual18google>

Apple: <https://bit.ly/mayorsmanual18apple>

Most valuable insight

Inclusive citizen engagement is about having a conversation without judgement to really understand motivations and needs.

Session

Urban Transitions – Inclusive citizen engagement (Mayor's Manual podcast)

(Co)organisers

AMS Institute, City of Amsterdam

Contact person

Sacha Stolp



Which pressing urban issue (challenge) did the podcast address?

The podcast places a spotlight on inclusive citizen engagement as a means to help EU reach their targets to become climate-neutral by 2030.



The need for change: are we seeing acceptance of the need to change in the EU and more specifically in cities?

At an organizational level there is increasing recognition that change towards climate-neutrality is necessary, as we see more and more mainstream actors incorporating to this end.

At an individual level, many people on a theoretical level agree that change is necessary, however when they understand that this might also have (what they experience to be a) negative impact on their lives, changes become much more difficult to accept.

Therefore, it's important to realize the psychological process that underlies change.

And to note that there are also many people that aren't thinking about change at all, as they are too busy with simply making ends meet.



Making change inclusive: how to make change and innovation inclusive?

It's important to include everyone in the conversation, too many groups are left out. For example, many designs have traditionally focused on men, and are missing a female perspective.

And in addition to including everyone, inclusion should start by asking more questions to really understand motivations and needs.



How to have the conversation: how to create urgency and enable listening?

In order to generate a genuine understanding of a person's truth, a conversation should be had without judgment and with empathy.

Shared values can be helpful in such a conversation, by bridging differences. They can also help with creating a sense of urgency and provide a basis for dealing with (uncomfortable) changes.



What are key recommendations to mayors on how to further inclusive citizen engagement?

We need to move away from trying to 'optimize', and instead think of doing things 'different'. In that process of change it is key to empower people to make change happen together, rather than trying to force change top-down. However, in that process you do have to educate citizens that change can be uncomfortable.

Annex

100 Climate Neutral Cities in Europe by 2030

Discover opportunities for business and cities

Programme Monday 14 June 2021

Circularity (Energy-Water-Food-Waste)	Sustainable Buildings & Energy	Smart & Green Mobility	Urban Leadership
09:00 - 09:55	Opening facilitated by FME The following panelists look forward welcoming you! - Dirk de Bilde, CEO Siemens Nederland - Rosalinde van der Vlies, Director Clean Planet at European Commission, DG Research & Innovation - Maarten van Poelgeest, chairman of the Implementation table built environment, Dutch Climate Agreement		
10:00 - 10:55	Circular Cities driven by Innovation (Floriade, Almere & Amsterdam)	The Zaragoza story: Joint investment Plans to accelerate public private partnerships (NBSO Barcelona, Groningen, Friesland, VNG)	Round Table European Smart City Lighthouse: lessons learned for companies and cities (Netherlands Enterprise Agency)
11:00 - 11:55	Food Innovations (Floriade, Almere & Amsterdam)	Vision & Strategy to address future ways of living: New European Bauhaus (Ministry of the Interior and Kingdom Relations)	Public private citizen partnerships on measure our city projects (Future City Foundation, Eurocities)
12:00 - 12:55	Join us for lunch! Enjoy key-notes from 1. Pallas Agterberg - Challenge Officer Alliander 2. Leen Peeters - Owner at Th!nk E 3. Buster Franken - CEO of FruitPunch AI (Dutch Governments' Innovation Community, Dutch ministry of Foreign Affairs)		
13:00 - 13:55	The ecosystem approach: Local Digital Twins to create Climate Neutral cities (Dutch Societal Innovation Hub, Rotterdam, Helmond)	Creating an urban mobility system that works for everyone (FME, Agoria Belgium). NB. Dutch speaking session	Mayor's manual podcast: Climate-neutral cities - fiercely attractive solutions for engagement & belonging (AMS Institute, city of Amsterdam)
14:00 - 14:55	Accelerating climate neutrality through events: the Olympic Games of 2024 (Netherlands embassy in Paris, FME, Green Wave)	How urban air mobility will change the way we organize and plan our cities (VNG)	Unlocking climate neutral co-benefits for digital infrastructures in cities (Netherlands Enterprise Agency)
15:00 - 15:55	The Blue Delta Coalition: how food, water and energy will help us to become sustainable (VNG)	Fossil free construction cites for a climate neutral city (Oslo, Amsterdam, FME, IQ, Regional business development team Nordics)	The European landscape of climate-neutral smart cities: how to engage for wide deployment of innovative solutions? (European Commission, Netherlands Enterprise Agency)
16:00 - 16:55	Building blocks of the Climate Neutral City; the concept and way forward		

100 Climate Neutral Cities in Europe by 2030

Discover opportunities for business and cities

Programme Monday 21 June 2021

Circularity (Energy-Water-Food-Waste)	Sustainable Buildings & Energy	Smart & Green Mobility	Urban Leadership
09:00 - 09:55	Opening facilitated by Association of Netherlands Municipalities (VNG) The following panelist look forward welcoming you! - Matthew Baldwin Deputy Director-General DG Move and Mission Leader, European Commission - Anna Lisa Boni, City Missions board member and secretary general of Eurocities) - Lot Van Hooijdonk, Alderwomen of the city of Utrecht, responsible for Mobility, Energy & Green - Franc Weerwind, Mayor of the city of Almere		
10:00 - 10:55	Technology solutions for energy, water, food and how these solutions can be integrated (Sustainable Urban Delta, city of Dortmund)	Unleashing the potential of Smart Active Mobility for Climate Neutral Cities (Dutch Cycling Embassy, EU-Handshake & European Cyclists' Federation)	Help shape the role of municipalities in mission-driven innovation (City of Amsterdam)
11:00 - 11:55	Podcast Mayors Manual	Renovation Wave: using AI within the built environment (Ministry of the Interior and Kingdom Relations, AI-coalition)	Seeking: innovative solutions for zero emission waste collection and street cleaning (Eurocities, Big Buyers for Climate and Environment)
12:00 - 12:55	Join us for lunch! Enjoy key-notes from 1. Cathalijne Dortmans - Alderwoman of the municipality of Helmond 2. Jaroslav Kacer - Former alderman of the municipality of Brno 3. Andy Lurling - Founding Partner LUMO labs (Dutch Governments' Innovation Community, Dutch ministry of Foreign Affairs)		
13:00 - 13:55	Circular Cities driven by Innovation part II (Floriade, Almere & Amsterdam)	Istanbul's vision & ambition for smart & green mobility: benefits of collaborating with one of Europe's few megacities (The Netherlands Innovation Network)	Public Private Partnerships to raise a climate neutral city (Cleantech Scandinavia, TNO)
14:00 - 14:55	Food Innovations part II (Floriade, Almere & Amsterdam)	How climate adaptation can be used to reach a climate neutral city: experiences from Denmark and The Netherlands (FME, IQ, Embassy of Copenhagen)	Financing as a driver for mission-driven deployment (EBRD Green Cities)
15:00 - 15:55	Fiercely Attractive Frontrunners on Positive Energy Districts (Groningen, Nantes, Sweden)	200 Intelligent & Climate Neutral Cities Jam (Amsterdam Smart City)	Financing the transition to climate-neutral cities: the investors perspective and financing possibilities (Smart Cities Marketplace)
16:00 - 16:55	Building blocks of the Climate Neutral City; the concept and way forward		

Alignment between sessions and initiatives from European institutes

Developed by Judith Borsboom, Locality (May 2021)

	Policies	Funding	Financing	Networks / ecosystems
Track Circularity				
Circular Cities driven by Innovation (Floriade)	Circular economy action plan, Living-in.EU, Digital Europe, From Farm to Fork	Green Deal, 100 Climate-neutral Cities, ITEA4, Climate-KIC, Digital Europe, ERDF, smart specialisation strategies, EUI	InvestEU	EIT Raw materials, EIP Agriculture, New European Bauhaus, 100 Intelligent Cities
Food Innovations (Floriade)	Circular economy action plan, From Farm to Fork	Green Deal, Horizon Europe	InvestEU	EIP Agriculture
The Blue Delta Coalition: how food, water and energy will help us to become sustainable	Circular economy action plan, From Farm to Fork, New European Climate Adaptation Strategy, EU Energy System Integration Strategy	LIFE, 100 Climate-neutral Cities, smart specialisation strategies/ERDF	InvestEU	EIP Agriculture
Accelerating climate neutrality through events: the Olympic Games of 2024 (Paris)	Circular economy action plan, climate-neutral and smart cities, EU Energy System Integration Strategy	Green Deal, Horizon Europe, EIB		
Seeking: innovative solutions for zero emission waste collection and street cleaning	Sustainable Urban Mobility Plans, Circular economy action plan,	Green Deal, Horizon Europe	InvestEU, Smart Cities Marketplace	EIT Raw Materials, EIT Mobility
Smart & Green mobility				
Creating an urban mobility system that works for everyone (Belgium)	Sustainable Urban Mobility Plans, Clean Mobility Package, Single European Sky, Sustainable and Smart Mobility Action Plan	Connecting Europe Facility Transport, Horizon Europe, EIT Mobility, Digital Europe, EIB	Smart Cities Marketplace, InvestEU	CIVITAS, Eltis, ConnectSME, Urban Development Network
How urban air mobility will change the way we organize and plan our cities	Digital Europe	EIT Mobility, Horizon Europe, ITEA4, Digital Europe	InvestEU	100 Intelligent Cities
The Zaragoza story: Joint investment Plans to accelerate public private partnerships	Sustainable Urban Mobility Plans, Clean Mobility Package, Sustainable and Smart Mobility Action Plan	Connecting Europe Facility Transport, Horizon Europe, Digital Europe, EIB, EUI	EIB, InvestEU	Eltis, CIVITAS, Urban Development Network
Technology solutions for energy, water, food and how these solutions can be integrated (Dortmund)	Circular economy action plan, From Farm to Fork	EUI, LIFE, Horizon Europe (Nature Based Solutions),	InvestEU, LIFE	EIP Agriculture, URBACT, EITs Mobility a Raw Materials
Data sharing regarding Smart & Green Mobilty (Istanbul)	Sustainable Urban Mobility Plans, Clean Mobility Package, Living-in.EU, , Sustainable and Smart Mobility Action Plan	EUI, EIT Mobility, Horizon Europe, Digital Europe	InvestEU	Eltis, 100 Intelligent Cities, New European Bauhaus, CIVITAS, EIT KIC Urban Mobility
Unleashing the potential of Smart Active Mobility for Climate Neutral Cities	Sustainable Urban Mobility Plans, Clean Mobility Package, Sustainable and Smart Mobility Action Plan	EUI, EIT Mobility, Post-Covid19 Recovery Funds, ERDF, Horizon Europe, Digital Europe, CEF Digital	InvestEU, Smart Cities Marketplace	Eltis, CIVITAS, URBACT

	Policies	Funding	Financing	Networks / ecosystems
Smart Buildings & Energy				
Fossil-free construction sites for a climate neutral city (Baltics)	Renovation Wave, climate-neutral and smart cities, European Climate Pact, EU Energy System Integration Strategy	EIT Raw materials, EIT Mobility, Inno Energy, Horizon Europe, EUI, InvestEU, 100 Climate-Neutral Cities, JPI Urban Europe PED call	Smart Cities Marketplace, Investors confidence project	CIVITAS, Eltis
Vision & Strategy to address future ways of living: New European Bauhaus	European Climate Pact, Renovation Wave, EU Energy System Integration Strategy	Green Deal, Horizon Europe, JPI Urban Europe PED call, Digital Europe	EIB, InvestEU	New European Bauhaus
The ecosystem approach: Local Digital Twins to create Climate Neutral cities' (Rotterdam, Helmond)	Digital Europe, living-in.EU, European Climate Pact, EU Energy System Integration Strategy	Digital Europe, InvestEU, ERDF/smart specialisation strategies, Horizon Europe, ITEA 4	Smart Cities Marketplace, Investors confidence project	100 Intelligent Cities challenge
Renovation Wave: using AI within the built environment	Renovation Wave, EU Energy System Integration Strategy	EU City Facility, Horizon Europe, Digital Innovation Hubs	EIB Jaspers and Elena facility	100 Intelligent Cities challenge
How climate adaptation can be used to reach a climate neutral city: experiences from Denmark and The Netherlands	Mission Board on Climate Adaptation, New European Climate Adaptation Strategy	EUI, LIFE, Climate-KIC, Next Generation EU, funds destined by Mission Board on Climate Adaptation, Horizon Europe, Digital Europe		New European Bauhaus
Fiercely Attractive Frontrunners on Positive Energy Districts (Groningen, Nantes)	Green Deal Action Plan, EU Energy System Integration Strategy	JPI Urban Europe PED call, EUI, EU City Facility, Interreg?, 100 Climate-Neutral Cities, Just Transition Fund (iig voor Groningen)	Smart Cities Marketplace Matchmaking with Sustainable Investor Network	SET Plan 3.2
Leadership				
Public private citizen partnerships on measure our city projects	Living-in.EU	Horizon Europe, ITEA4, Digital Europe	InvestEU	100 Intelligent Cities
200 Intelligent & Climate Neutral Cities Jam (Amsterdam Smart City)	Living-in.EU, climate-neutral and smart cities, EU Energy System Integration Strategy	100 Climate-Neutral Cities, 100 Intelligent Cities, JPI Urban Europe PED call, EU City Facility, EUI, Digital Europe	InvestEU	100 Intelligent Cities
Public-Private Partnerships (Cleantech Scandinavia)	climate-neutral and smart cities, circular economy	Interreg NW Europe, Eureka, Eurostars, smart specialisation strategies	InvestEU	Investors Confidence project
Innovation & deployment opportunities within Green Deal, Horizon-Europe, EU-recovery funds	climate-neutral and smart cities, Digital Europe, Living-in.EU, EU Energy System Integration Strategy	Next Generation EU, 100 Climate-Neutral Cities, Horizon Europe, Digital Europe	InvestEU	100 Intelligent Cities,
Unlocking co-benefits for mission-driven and cross-sectoral solutions	Living-in.EU, Climate-neutral and smart cities, EU Taxonomy	100 Climate-Neutral Cities, Horizon Europe smart city lighthouse projecten, Digital Europe	Smart Cities Marketplace Matchmaking, InvestEU, blended finance	100 Intelligent Cities, Smart Cities Marketplace

	Policies	Funding	Financing	Networks / ecosystems
Leadership				
Help shape the role of municipalities in mission-driven innovation (Amsterdam)	smart cities, climate-neutral cities, living-in.EU	EUI, JPI Urban Europe PED call, 100 Climate-Neutral Cities, 100 Intelligent Cities, ITEA4, Horizon Europe, Digital Europe	Smart Cities Marketplace, EIB Jelena and Jaspers Facility, InvestEU	Smart Cities Marketplace, SCALE, URBACT community
Multilevel financing - mixed funding for public-private partnerships	climate-neutral and smart cities, EU Energy System Integration Strategy	Horizon Europe	Smart Cities Marketplace Matchmaking, InvestEU, blended finance	Smart Cities Marketplace
League of International Test Beds	Green Deal	Interreg NW Europe, Eureka, Eurostars, Digital Europe	InvestEU	
Financing as a driver for mission-driven deployment	Clean air for Europe, SDGs	EBRD, EUI		Urban Development Network
Podcast Mayor's Manual	smart cities, climate-neutral cities, living-in.EU	EUI, JPI Urban Europe PED call, 100 Climate-Neutral Cities, 100 Intelligent Cities, Horizon Europe, Digital Europe	InvestEU, Smart Cities Marketplace with Investor Network	Urban Development Network, Smart Cities Marketplace

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Join us

The concept of a climate neutral city is a continuous journey: not a final destination. The Netherlands believes that the only way to boost sustainable urban development and build inclusive and futureproof cities, is by working together and learning from each other. We believe in international cooperation in which every voice is important. Every challenge provides an opportunity. We're stronger when we have different perspectives, united by empathy and our collective vision in creating an integrated approach.

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