

NetworkNature

Nature-based solutions for sustainable urban development

World Urban Forum

30th June 2022



**WORLD
URBAN
FORUM**
ELEVENTH SESSION



**Network
Nature**

Agenda

Time	Topic
9.00 – 9.05	Welcome & introduction Maud Lelievre, President of the IUCN French Committee, General Delegate of Les Eco-Maires
9.05 – 9.15	EU frameworks and priorities for sustainable urban development Laura Liger, Policy Officer, Urban and territorial development, DG REGIO European Commission
9.15 – 10.05	Panel: Nature-based solutions experiences from cities around the world <ul style="list-style-type: none">• Małgorzata Bartyna-Zielińska, Project coordinator, Water and Energy Office, Wroclaw City Hall• Luca Costantino Arbau, Officer, Sustainable Resources, Climate and Resilience, ICLEI Europe• Deema Abu Thiab, National Program Coordinator, UN-Habitat Jordan, Amman• Jiali JIN, Research Assistant, Research Institute of Forestry, Chinese Academy of Forestry, Beijing, China• Yuhong Wang, Program Leader Civil Engineering, Hong Kong Polytechnic University, Hong Kong
10.05 – 10.25	Q&A
10.25 – 10.30	Closing remarks Maud Lelievre, President of the IUCN French Committee, General Delegate of Les Eco-Maires

EU frameworks and priorities for sustainable urban development

Laura Liger

Policy officer, Directorate General for Regional and Urban policy, European Commission



The New Urban Agenda

- **Global framework for sustainable urban development**, and gives guidance on how well-planned and well-managed urbanization can support transformation
- **Means of implementation** (intervention mechanisms, hard measures for infrastructure and services, soft measure and technology and innovation) as **toolbox for actors of the city** can find ways to implement a common vision of the urban through different instruments
- Refers notably to considerations for **nature-based solutions** as part of urban, territorial development and planning processes; it also refer to support for **nature-based innovation**.

EU framework

- **European Green Deal** – making Europe a climate-neutral continent by 2050
- **The New Leipzig Charter** : promoting integrated urban development and urban policy for the common good
- **Horizon 2020 and Horizon Europe** : more than 280 million euros have been invested in urban-related research and innovation, continue to support EU cities in their greening action notably with the ‘EU missions’
- **Cohesion policy** : One of the **main EU investment policies** – implemented in all EU regions - with a budget of **€ 392 billion** (2021-2027). Supporting the implementation of **EU priorities** (EU Green Deal, Europe fit for the Digital Age ect.) to improve citizens’ quality of life.

The Urban Agenda for the EU

Multilevel governance instrument to seeks better involvement of cities and the urban dimension in the design and implementation of policies at the EU and national levels.

14 thematic Partnerships composed of different actors: cities, national level, EU level and NGOs (> 300 actors)

Each Partnership establishes their priorities & objectives, each developing an **Action plan** which goes through a consultation process before finalisation (>130 actions)

One worked on Sustainable Use of Land and Nature-Based Solutions

Material available on [Futurium](#)

New call for a partnership on Greening cities to be launched in July 2022

AMSTERDAM PARTNERSHIPS



URBAN
POVERTY



INCLUSION OF
MIGRANTS REFUGEES



AIR
QUALITY



HOUSING

BRATISLAVA PARTNERSHIPS



DIGITAL
TRANSITION



URBAN
MOBILITY



JOBS SKILLS IN
THE LOCAL ECONOMY



CIRCULAR
ECONOMY

MALTA PARTNERSHIPS



SUSTAINABLE
USE OF LAND



CLIMATE
ADAPTATION



PUBLIC
PROCUREMENT



ENERGY
TRANSITION

VIENNA PARTNERSHIPS



CULTURE/CULTURAL
HERITAGE



SECURITY IN
PUBLIC SPACES

NBS experiences from cities around the world

Moderator

Maud Lelievre, President of the IUCN French Committee,
General Delegate of Les Eco-Maires

Speakers

Ms Małgorzata Bartyna-Zielińska, Project coordinator,
Water and Energy Office, Wroclaw City Hall (GrowGreen)

Mr Luca Costantino Arbau, Officer, Sustainable Resources,
Climate and Resilience, ICLEI Europe (Proglreg)

Ms Deema Abu Thiab, National Program Coordinator, UN-
Habitat Jordan, Amman

Ms Jiali JIN, Research Assistant, Research Institute of
Forestry, Chinese Academy of Forestry, Beijing, China
(CLEARINGHOUSE)

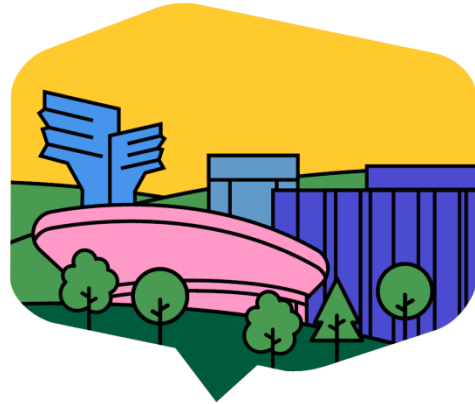
Mr Yuhong Wang, Program Leader Civil Engineering, Hong
Kong Polytechnic University, Hong Kong (UNaLab)

Panel discussion



WORLD URBAN FORUM

ELEVENTH SESSION



Nature-based solutions for sustainable urban development

in GrowGreen project

WORLD
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FORUM



KATOWICE, POLAND | 26-30 JUNE 2022

UN HABITAT
FOR A BETTER URBAN FUTURE



Ministerstwo
Funduszy
i Polityki Regionalnej



KATOWICE
dla odmiany

Wrocław miasto spotkań

Green cities for climate and water resilience, sustainable economic growth, healthy citizens and environments



Manchester



Wroclaw



Valencia



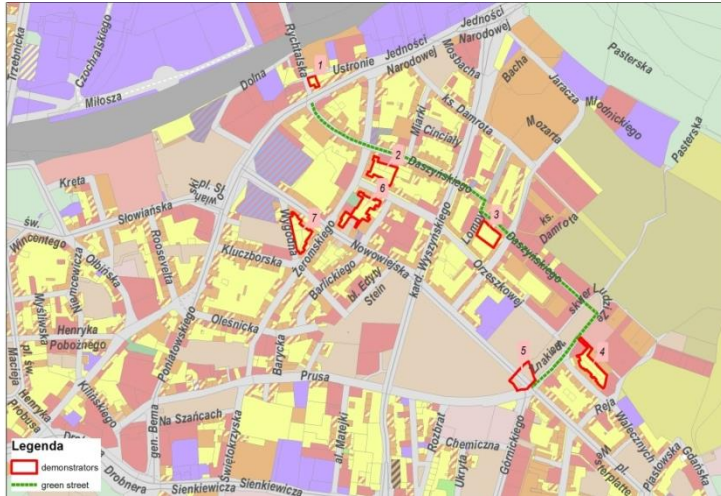
WUF11 – Katowice / Poland | 26-30 June 2022



This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement No 730283



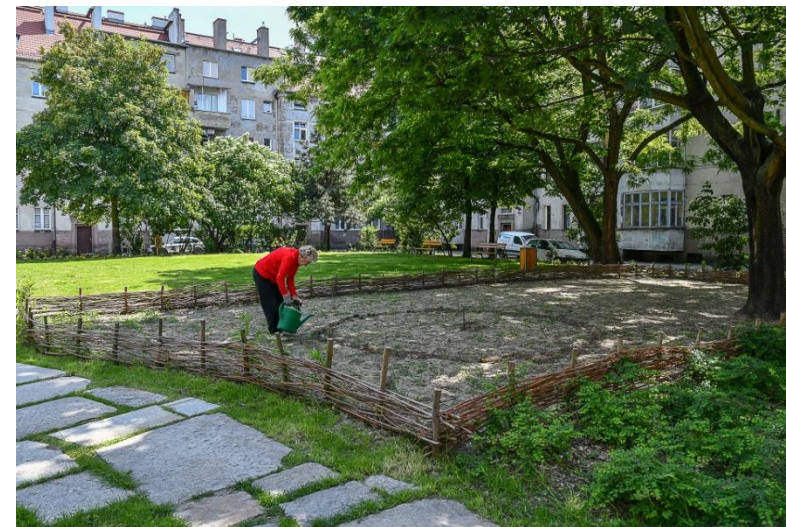
Green cities for climate and water resilience, sustainable economic growth, healthy citizens and environments



WUF11 – Katowice / Poland | 26-30 June 2022



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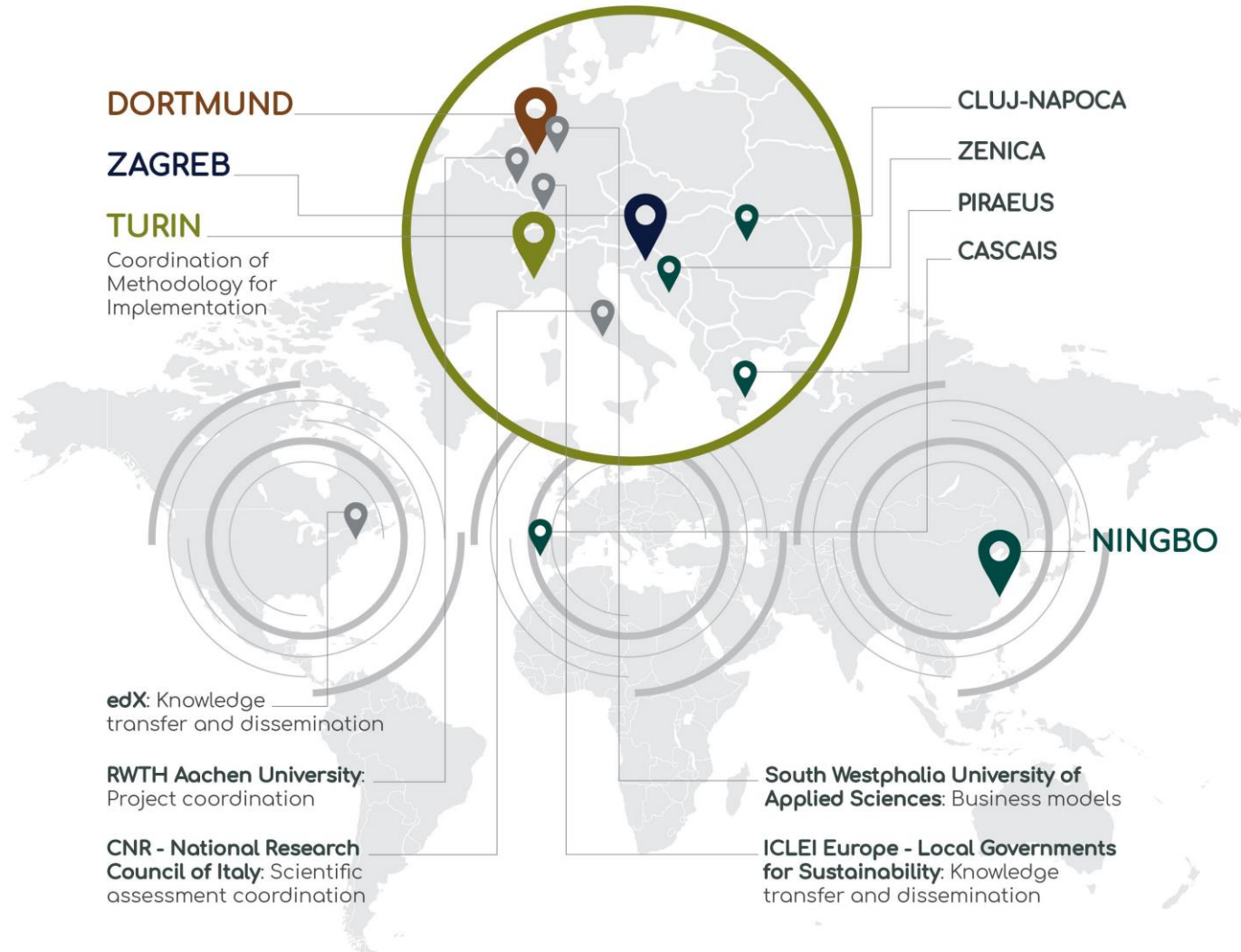
Nature-based solutions for sustainable urban development

Experiences from *proGireg: Nature for Renewal*

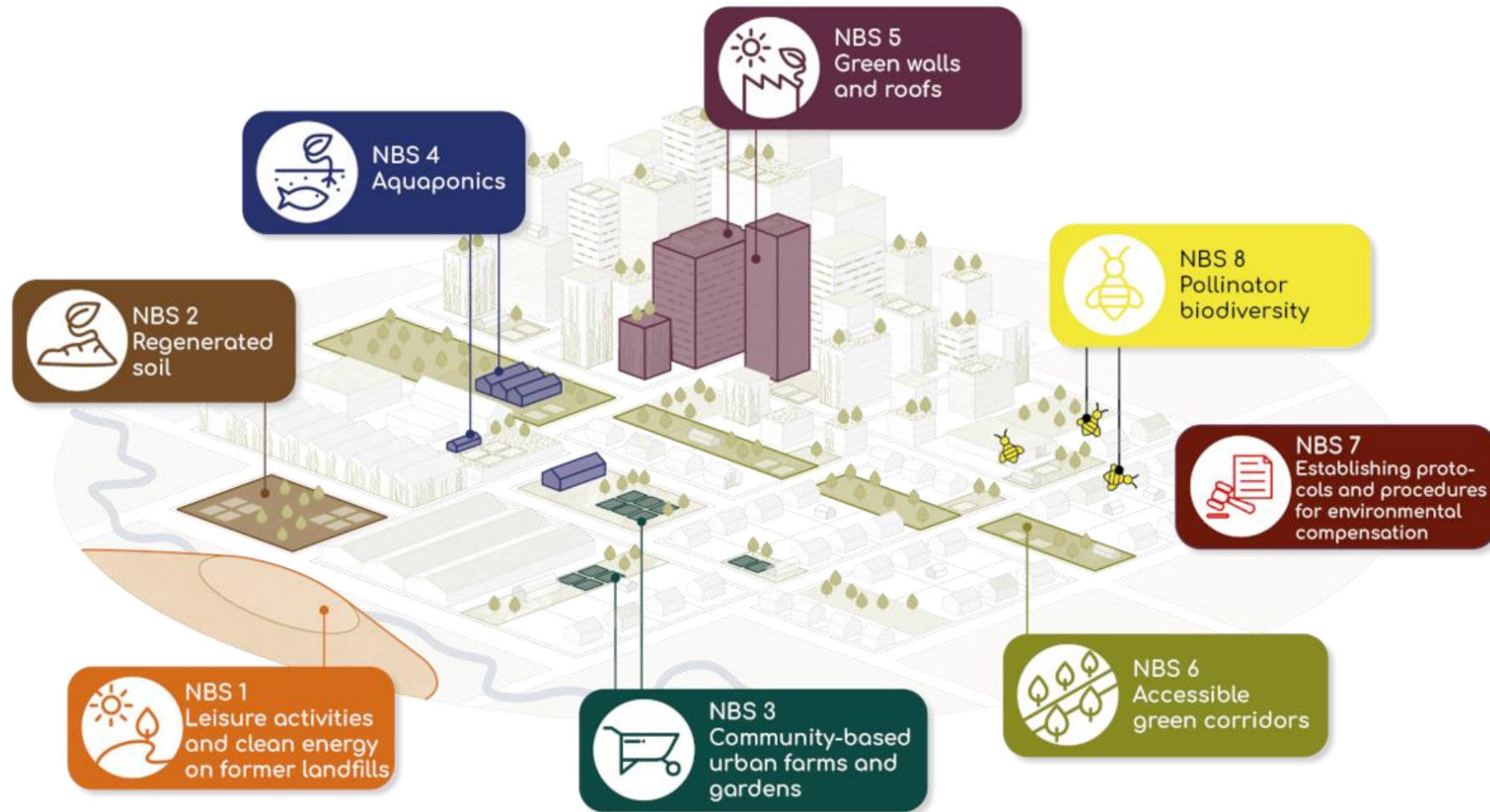
Luca Arbau. Officer, Urban Resilience and Climate Adaptation
ICLEI Europe

World Urban Forum 11 – 30 June 2022

Project overview



Nature-based solutions



The Living Labs

Dortmund



Ningbo

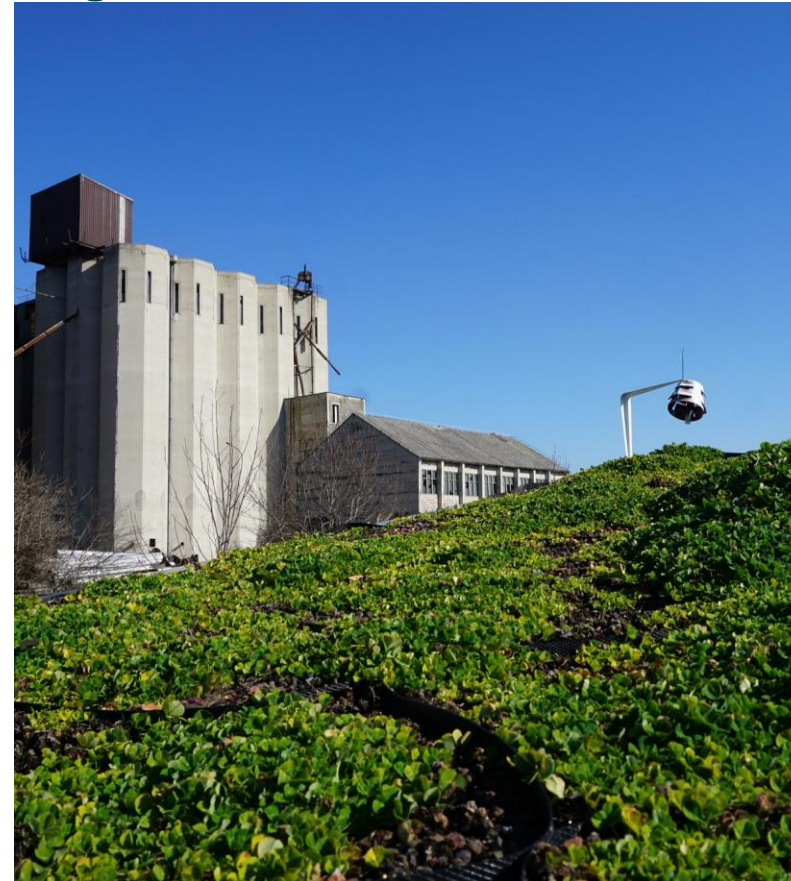


The Living Labs

Turin



Zagreb



Partners



Stadt Dortmund



CITY OF ZAGREB
City Office for Strategic Planning
and Development of
the City



CITTA' DI TORINO



CASCAIS
AMBIENTE



CLUJMETROPOLITAN



ZENICA
GRAD



Local Governments
for Sustainability
EUROPE



die urbanisten
lokal. kreativ. lebendig.



FONDAZIONE
DELLA COMUNITÀ
DI MIRAFIORI ONLUS
I vostri luoghi comuni



hei-trogmbh
AQUAPONIC DEVELOPMENT



GREENER CITIES
IN EUROPE



Lohrberg
Stadtlandschafts-
architektur

Starlab®
Living Science



ENVIRONMENT
PARK Parco Scientifico
Tecnologico per l'Ambiente



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ISGlobal Instituto de
Salud Global
Barcelona



National Research Council of Italy



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DEGLI STUDI
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Fachhochschule
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University of Applied Sciences

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UREĐENJE GRADA
ZAGREBA

ORTI
ALTI



ZENIČKA RAZVOJNA AGENCIJA
ZENICA DEVELOPMENT AGENCY



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Sesvete

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This project has received funding from the European Union's Horizon 2020 Innovation action programme under grant agreement no. 776528.

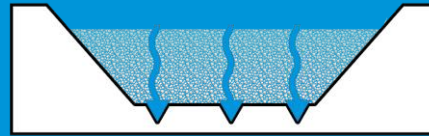
This work was financially supported by the National Key Research and Development Programme of China (2017YFE0119000).

Al Zohour Green Triangle- Main Functions

Water Inlets



Water Retention Function



Water Detention Function



Water Reuse Function



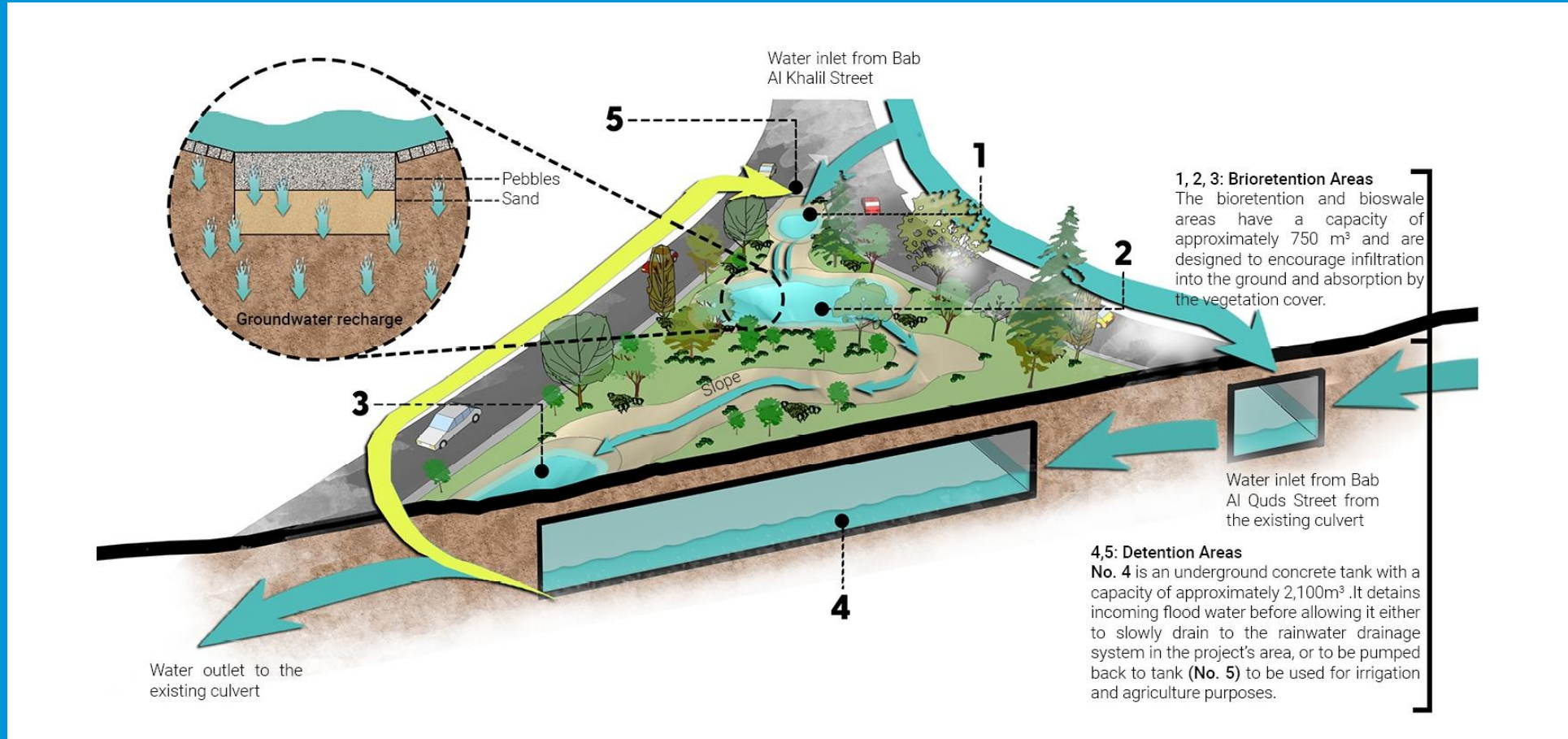
Water Outlets



Landscape



Al Zohour Green Triangle- Project Idea



I Al Zohour Green Triangle- mplementation Phase

Before Implementation



During Implementation

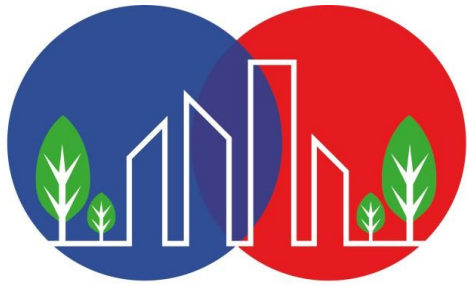


After Implementation



Al Zohour Green Triangle- Project Perspective





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中欧城市森林应对方案

Nature-based solutions for sustainable urban development

World Urban Forum 11

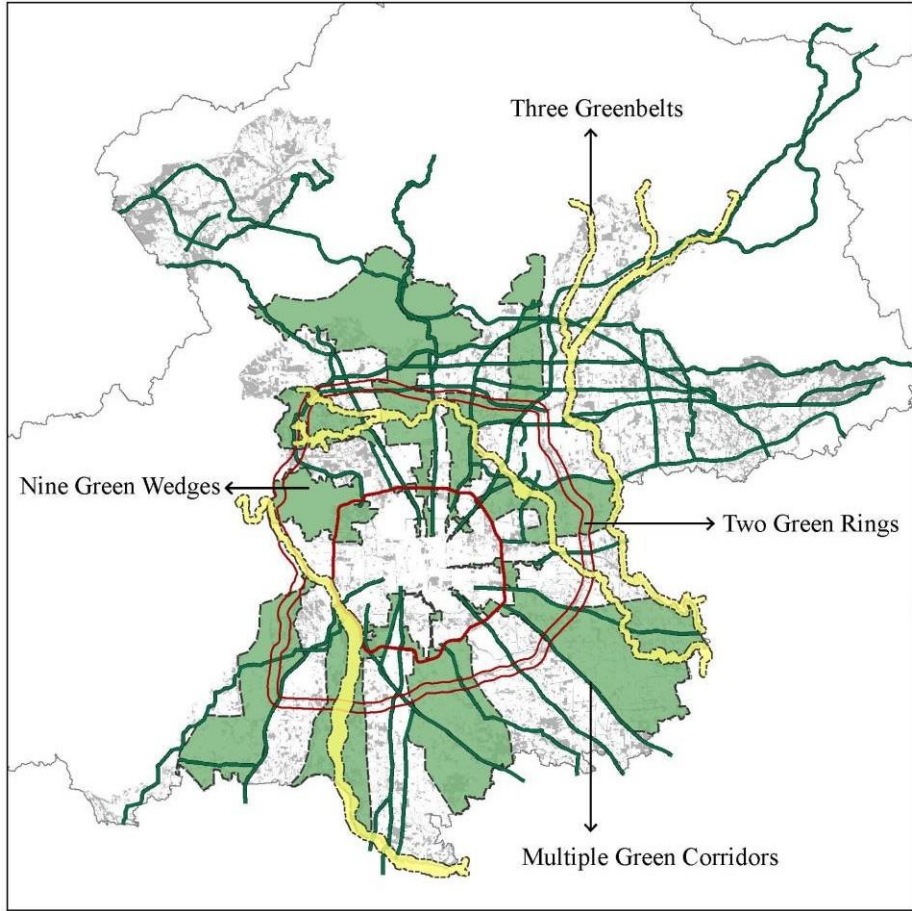
Inner-city afforestation in Beijing
National Forest City Programme

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement n°821242 and National Key R&D Program of China under grant No. 2021YFE0193200.

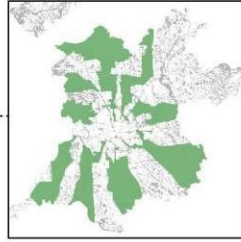
该项目获得科技部重点研发计划（项目编号：2021YFE0193200）和欧洲H2020研究与创新计划的资助（拨款协议号码：821242）。



Inner-city afforestation in Beijing

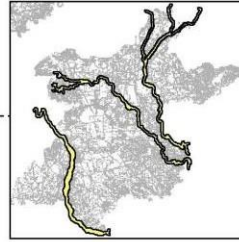


Layout map



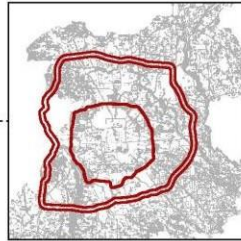
Nine Green Wedges

planned to plant an area of 29280 hectares forest including trees in suburban parks and large forest patches.



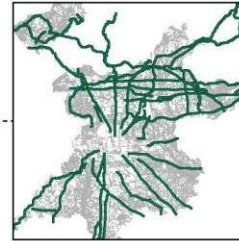
Three Greenbelts

planned to plant an area of 12087 hectares forest including trees along three main rivers (e.g. from right to left is Chaobai River, Beiyun River and Yongding River).



Two Green Rings

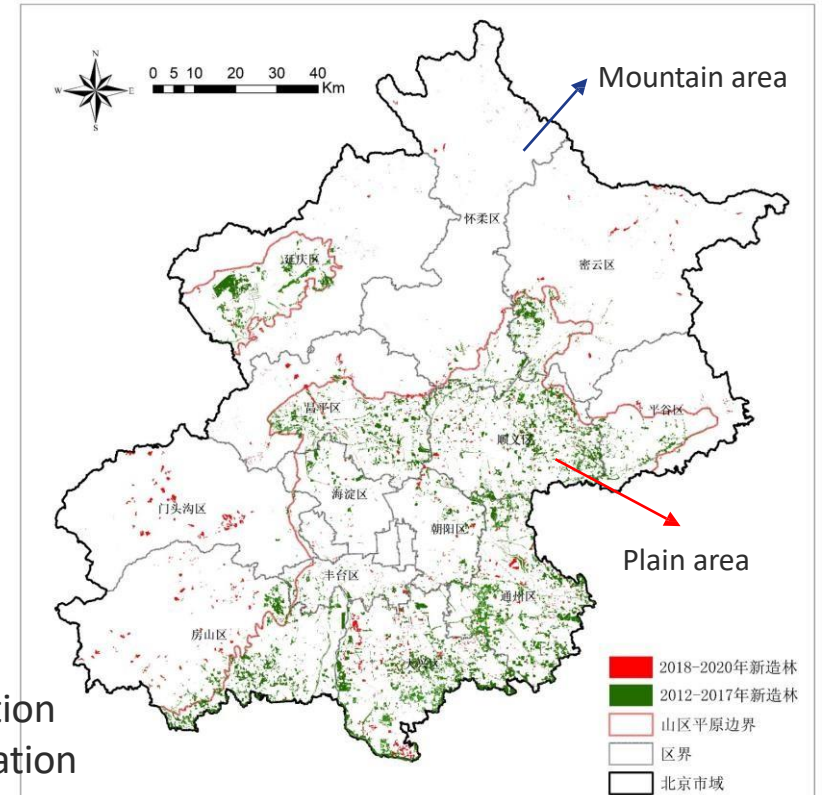
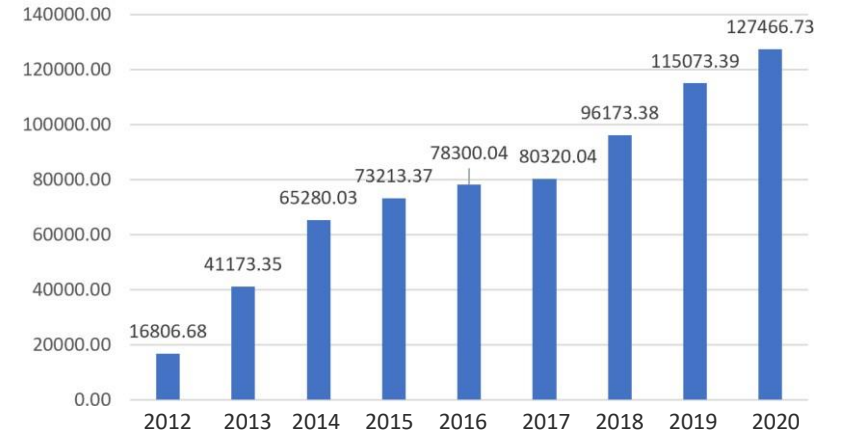
planned to plant an area of 14327 hectares forest including trees along the fifth and sixth ring roads.



Multiple Green Corridors

planned to plant an area of 10980 hectares forest including trees along the main roads, river branches and railways.

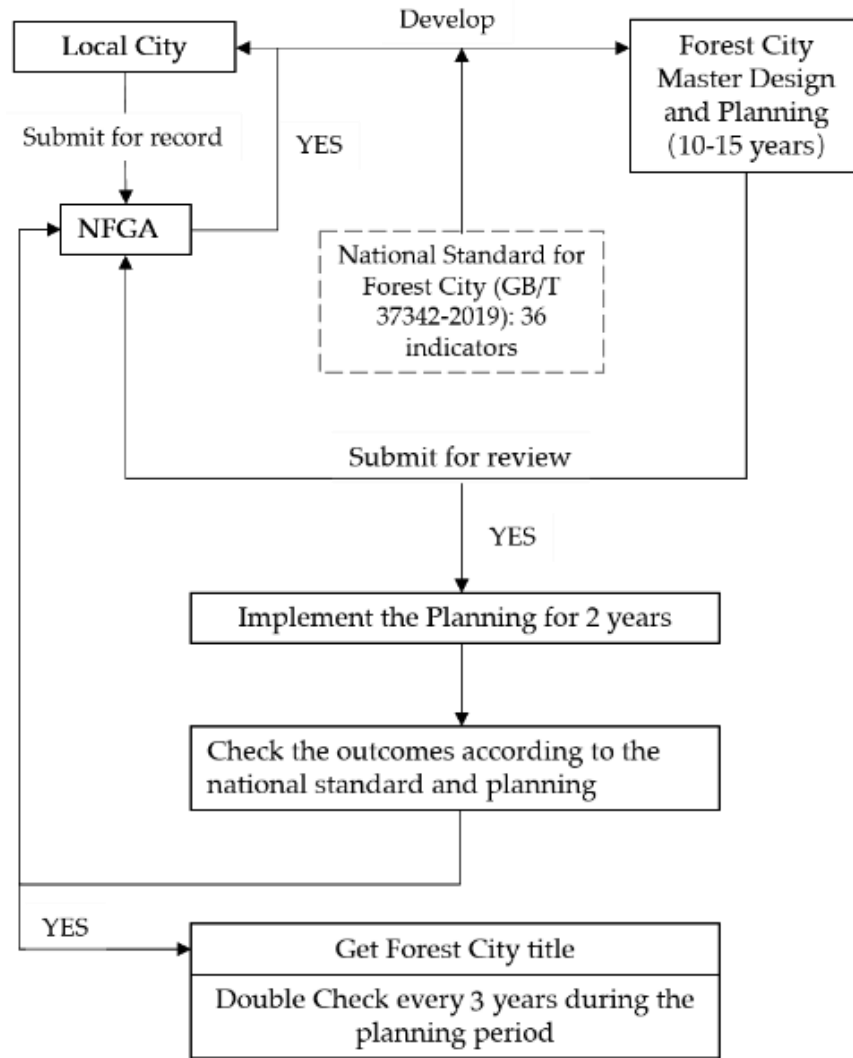
Area of new afforestation (hectares)



Spatial distribution of new afforestation

National Forest City Programme

Location of Forest City (194)



Policy framework



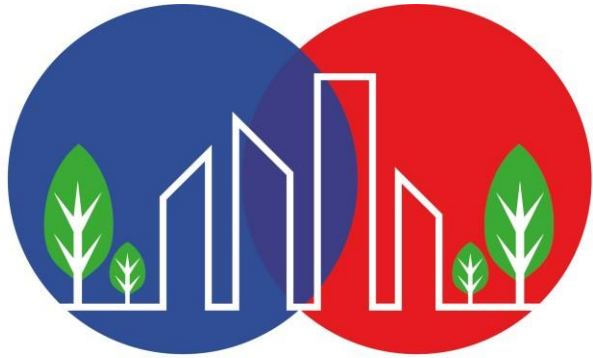
Province boundary

County-level Forest city

Prefecture-level Forest city



谢谢 Thank you



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中欧城市森林应对方案



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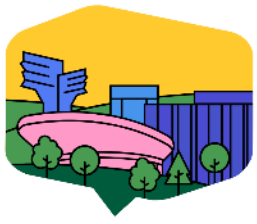


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How to Restore Urban Rivers?

Past

Current

Trials

Future



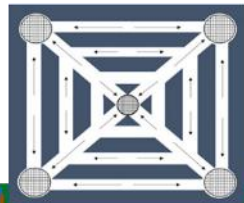


Stormwater Storage and Reuse Through Road Pavements

1. Surfaced-induced porous pavement, made with the assistance of 3D printing (patent pending)

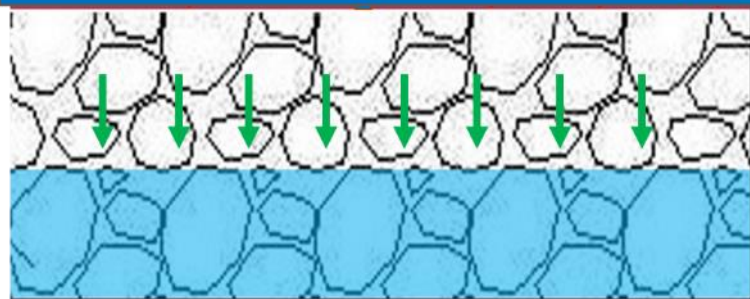


Road is as strong as conventional road



2. pollutant removal

3. Deicing /cooling/dust control



Placed under bicycle lane or sidewalk

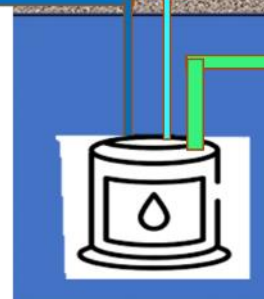


Water can be used to irrigate green walls

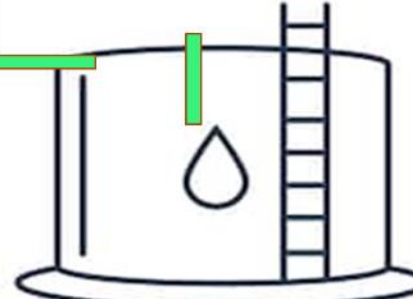
The secondary tank can be placed under a large space such as roundabout



4. Primary storage tank and pump



5. Secondary storage tank and pump





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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 887396.