



EDICITNET GLOBAL LUNCH TALKS :
URBAN FOOD INNOVATION

(Up)Scaling (Edible) Nature- Based Solutions: Experiences, Opportunities & Challenges

With EdiCitNet, URBiNAT, proGireg & CLEVER Cities

16th Mai 2022 | 12.00-13.00 CET

www.edicitnet.com



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 776665



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EdiCitNet Mission



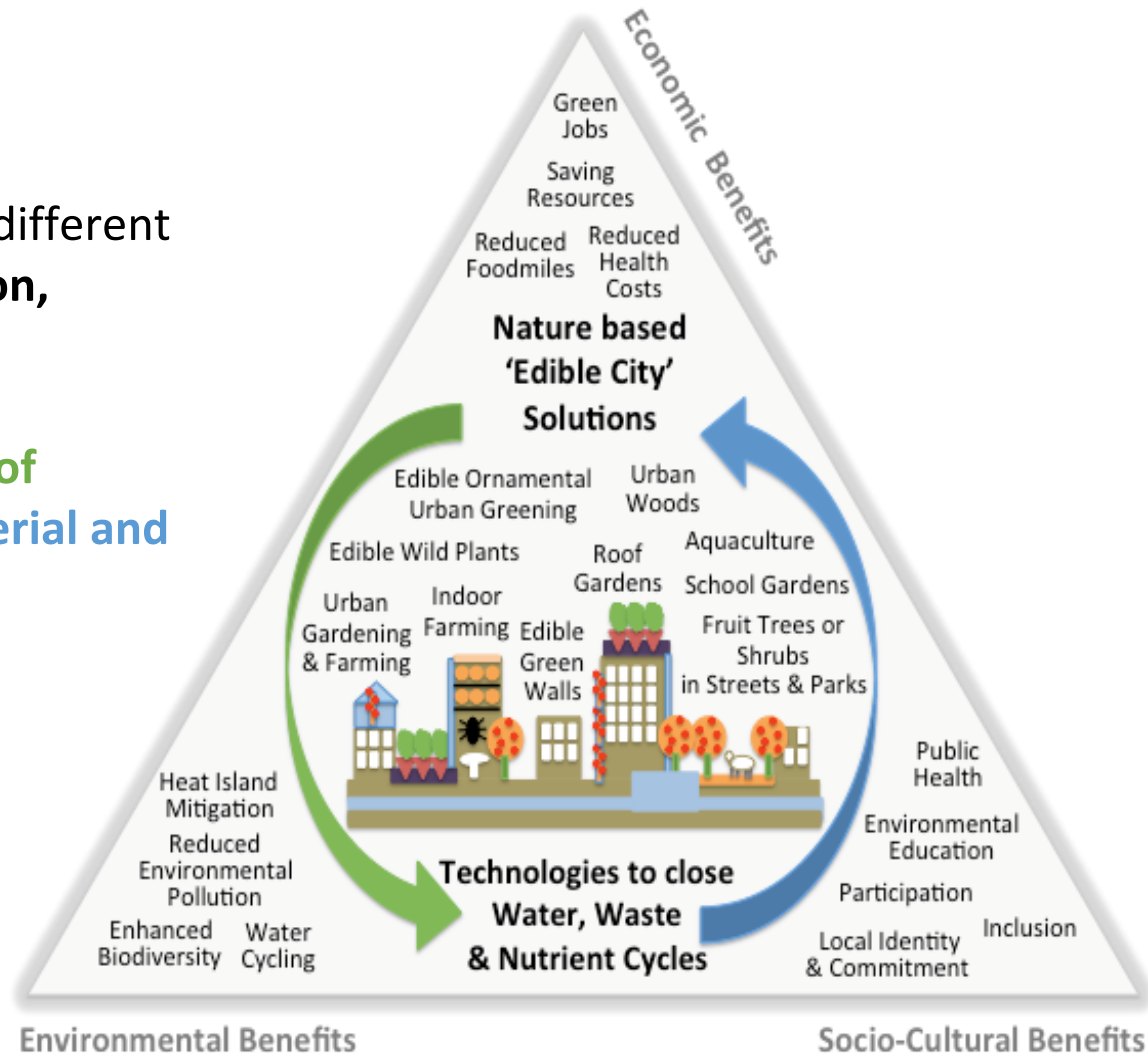
- **Mainstream & Scale Edible City Solutions (ECS) to unlock their untapped potential for the development of socially inclusive, biodiversity friendly, resilient and healthy cities**
- **Edible City Solutions (ECS) deepen the social dimension of NBS**
- **ECS invite citizens to co-create the sustainable development of their society, to *proactively* change the urban environment to their benefit & to induce a **paradigm shift of lifestyle****



What are Edible City Solutions? (ECS)

- ECS are **'edible NBS'**
- ECS comprise a wide range of different forms of **urban food production, distribution & consumption**
- ECS use **innovative principles of ecological design, closed material and energy flows**

Säumel et al. 2019
10.3390/su11040972





Co-creation & Networking



EdiCitNet Cities

- **Andernach (DE)**
- **Berlin (DE)**
- **Havana (CU)**
- **Oslo (NO)**
- **Rotterdam (NL)**

- Carthage (TN)
- Guangzhou (CN)
- Lomé (TG)
- Montevideo (UY)
- Sant Feliu de Llobregat (ES)
- Sempeter pri Gorici (SI)



(Up)Scaling Pathways



Scaling-up

Reaching more people with the same ECS activities.



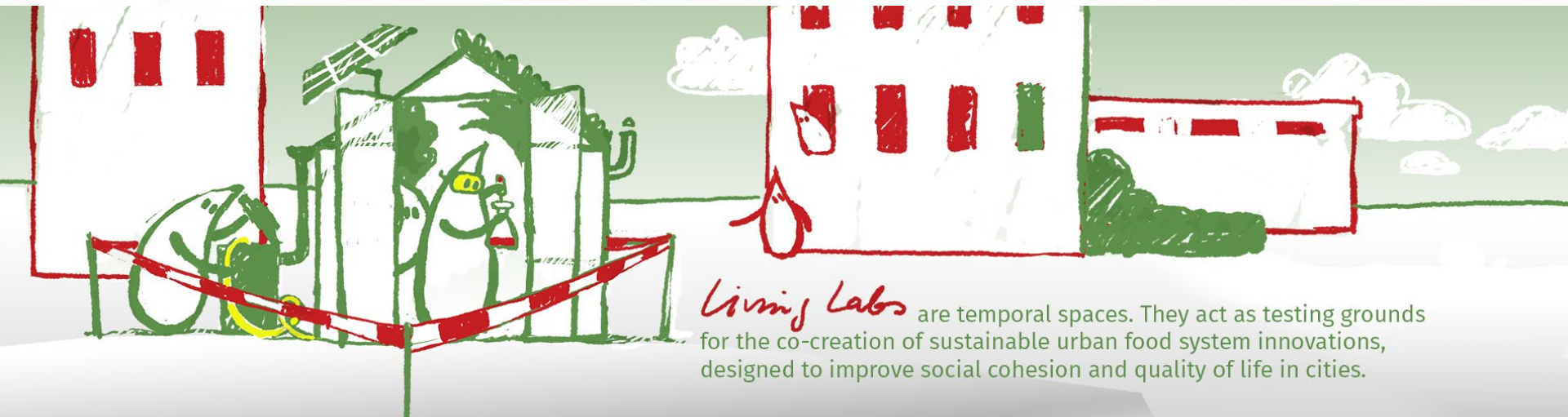
Scaling-wide

replicate ECS activities in new geographic areas.



Scaling-across

Novel ECS activities are started in new domains.



Living Labs are temporal spaces. They act as testing grounds for the co-creation of sustainable urban food system innovations, designed to improve social cohesion and quality of life in cities.



Scaling-deep

improvement of existing ECS activities for our target groups.



Scaling-soft

Networking, alliance building, dissemination of ECS knowledge





Living Lab Oslo (NO)

- **Piloting ECS** that provide social and economic value
- Running **experiments** that create opportunities for citizens and social entrepreneurs
- **Facilitating knowledge transfer, networking and in** to empower local citizens and utilize undervalued resources
- **Building on** the work of Oslo's **Urban Renewal Program**
- **Using synergies** emerging from Oslo's involvement in a green transformation





Living Lab Rotterdam (NL)

- Set up a city-wide **umbrella organization** of (edible) green initiatives (more than 200 in the city)
- To enhance their organizational power and contribute to their **empowerment, professionalisation, longevity** and **financial independence**
- Focusing on the **cooperation between initiatives** as well as their relationships with the **city government**
- Objectives are organised according to **working groups**





Living Lab Andernach (DE)

- Shift the dynamics of the local edible city movement from a “**top-down**” to a “**bottom-up**” approach
- Invite the **general public to engage** more intensively in the maintenance and development of Edible City Solutions
- Increase **participation of specific types of people**: displaced people, elderly people, young children





Living Labs Berlin (DE)

Hellersdorf:

- Integrate **edible landscaping** into new apartment blocks
- **Connect** “old” and “new” locals
- **Revive and develop** existing community garden, **attract more locals** to participate and co-create

Neukölln:

- Integrate community garden into active **cemetery**
- Explore ideas for **economic sustainability** of community garden
- Encourage the participation of **more diverse** local communities





Living Lab Havana (CU)

- Combine **science, technology and innovation with traditional knowledge** of local farmers
- Modular **aquaculture system & water re-use system**
- **Fruit tree planting program**
- **Mini-industria program**
- **International exchange with the ECS community**



(Up)Scaling in Oslo



Scaling-deep
improvement of existing ECS
activities for our target groups.



Scaling-up
Reaching more people with
the same ECS activities.



Scaling-across
Novel ECS activities are
started in new domains.



Scaling-soft
Networking, alliance building,
dissemination of ECS knowledge

- Improvement of **testbed system**: space, beds, follow up
- Facilitate **connection** to surrounding area
- Construct **meeting place** accessible for limited mobility
- Increase offers for **courses**
- Establishing a **nature path** with insect hotels, houses for bats and bumblebees, a composting site and biotope*
- Starting an **education farm**
- **Consultations** about sustainable ways to grow mushrooms
- Install **information signs** to spread awareness and knowledge, spread content on social media
- Map **biodiversity** and disseminate as publication
- Produce **educational material**, set up a teaching program*



Best Practice *Scaling-wide* in Oslo:

Scaling wide through Oslo's Strategy for Urban Agriculture



Oslo

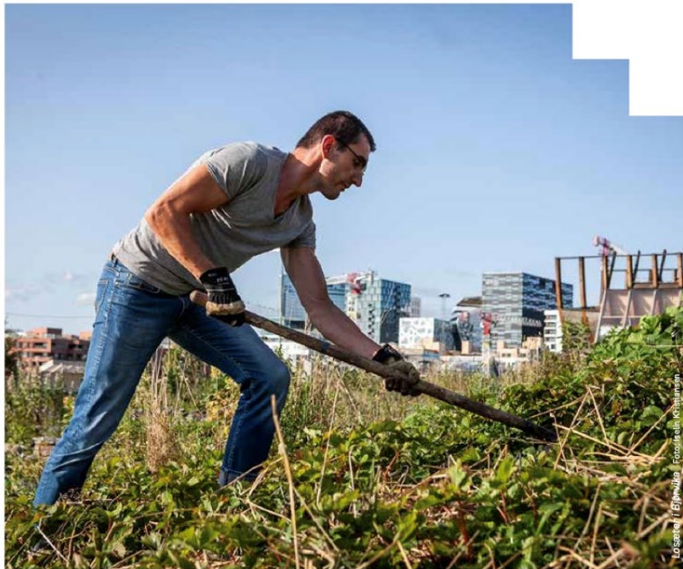
Bymiljøetaten

Spirende Oslo

- Plass til alle i byens grønne rom

Strategi for urbant landbruk 2019–2030

Sak 336/19 – vedtatt av bystyret 13.11.2019



- **“Sprouting Oslo” adopted in 2019**
- for a greener city; local **food** production; green **meeting** places; green **educational** areas; **collaborative** city of knowledge
- **transform** disused spaces to places where citizens can **cultivate together**
- planting of **pollinator friendly & edible plants** i.e. berry bushes, fruit trees and flower meadows
- 30 allotment **gardens**, school gardens (93,000 m²) and temporary growing boxes have been established
- 20 **meadows**, 13 **pastures** managed by the city



(Up)Scaling in Rotterdam



- Developing **local website** where initiatives can share knowledge and needs
- Producing a **city-wide map** visualising value of ECS in Rotterdam
- Making **map accessible** so everyone can contribute and learn
- **Consulting** with municipality and other stakeholders on how best to organise the network and integrate them
- **Enhancing** work of existing **initiatives** and also **preparing** fertile ground for **development** of ECS in new places and in new domains

Best practice: **Scaling-soft** in Rotterdam

Successful ECS Lobbying + Advocacy Work



- Creating a link between “official” authorities & practitioners on the ground
- Since 2016 worked to establish a **Green Office**:
- An **entry point** for green (food) initiatives + civil servant for support
- **Bringing transparency** into municipal machinery
- Enabling **participation** of green initiatives in **development** of new **green policies**
- **Green Broker appointed** in 2020, website being developed
- **Communication** is key!

KOM IN ACTIE Q

GROENLINKS
ROTTERDAM



**GROENMAKELAAR EN
GROENLOKET IN
ROTTERDAM**

06 feb 2020 · leestijd 2 minuten

(Up)Scaling in Andernach



Scaling-deep
improvement of existing ECS activities for our target groups.

- Installing resource-saving **automatic watering** system
- Expanding **collaboration** with local **fertilizer producer**



Scaling-up
Reaching more people with the same ECS activities.

- **Renting out** plots to locals for a small fee
- Cooperating with schools to set up **internships** with local youth



Scaling-wide
replicate ECS activities in new geographic areas.

- Installing **raised beds** in schools and kindergartens



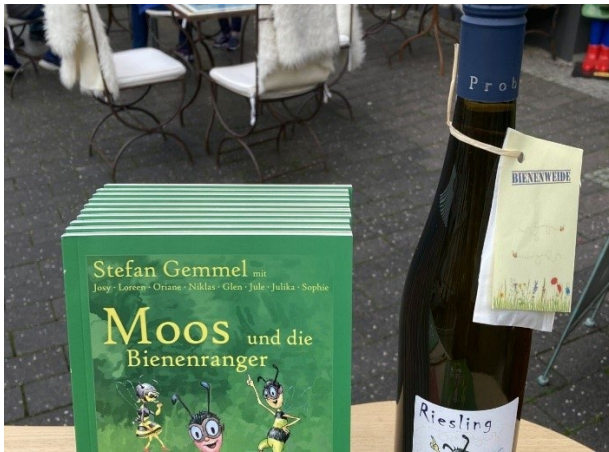
Scaling-soft
Networking, alliance building, dissemination of ECS knowledge

- Organising **workshops** on biodiversity for educators and general public
- Implementing **new outreach activities** (talks, social media, cookbook)



Best practice: *Scaling across* in Andernach

From bee rangers to digital beehives



- The **corona crisis triggered an unexpected and original ECS... and then another one**
- City Team member started a **writing project** connecting with authors, a teacher and youth - about **wild bees** and the threats they face
- Fiction in “Moss and the Bee Ranger” turned into **real-life impact: a digital beehive** - able to measure temperature, humidity, honey production and bee movement
- Monitoring bee behaviour makes it possible to **predict extreme weather events**
- Beehive is simple and **replicable**

(Up)Scaling in Berlin



Scaling-deep
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Scaling-up
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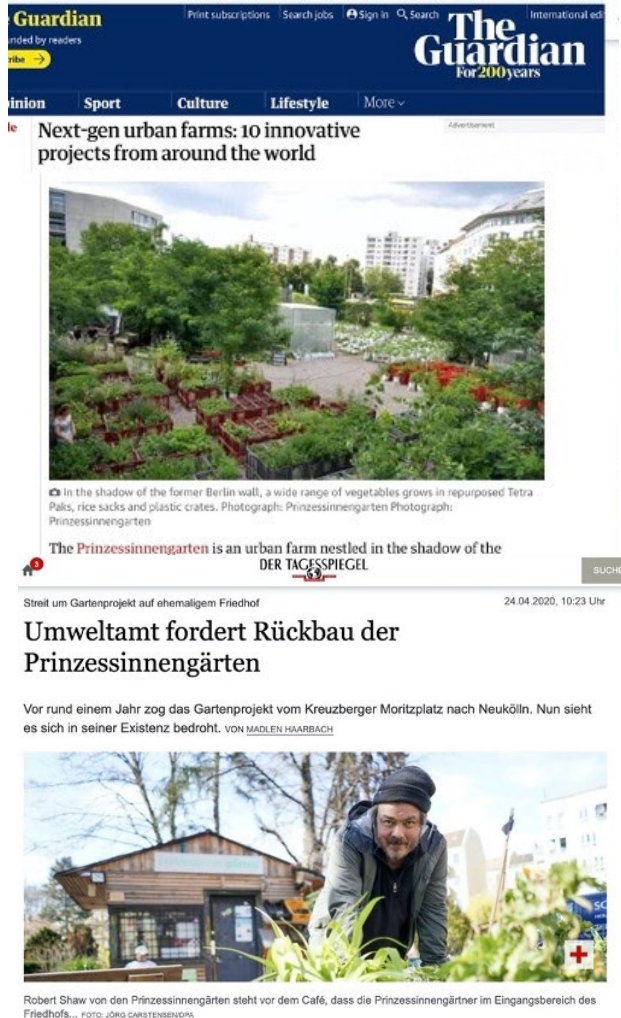


Scaling-across
Novel ECS activities are started in new domains.

- Planting and sale of **ornamental plants** for protection from pollution, to increase biodiversity and for additional income
- **Free space to co-create** with the neighbours (e.g. nature experience area with raised beds for children of neighbouring kindergartens; artist place)
- Collaboration with municipal housing company and other municipal stakeholders to showcase a best practice example of **Edible Landscaping** that can be used in future housing developments
- Installation of **grey water recycling plant**
- Organisation of pruning courses with locals
- Development of therapeutic gardening sessions

Best practice: **Scaling-soft** in Berlin

The ups and downs of being a figurehead of the urban gardening movement



- an article in a **local event magazine** ensured that 150 volunteers helped the two initiators to clean the area from rubbish
- more than **700 articles** about the **Prinzessinnengarten** have been published **worldwide...** gardeners felt like "**zoo animals**"
- becoming a sought-after partner in many projects, bringing **income and funding as social entrepreneurs and political support, providing jobs for more than 20 people**
- withstand against many multi-million-dollar investors, survive and expand despite **political and economic resistance and headwinds**

(Up)Scaling in Havana



- Setting up markets to enhance the **direct commercialisation** of agricultural products
- **direct provision** to hospitals, schools and kindergartens
- Unlock potential of **building integrated forms** of urban agriculture with high-tech solutions
- Integration of modules of **aquaculture/aquaponic systems** into the urban farms and cooperatives to amplify the range of food products
- **Innovation management** via regular feedback loops across practitioners, knowledge managers and decision-makers to adapt public policies and regulatory legal framework and teamwork



Scaling-deep
improvement of existing ECS
activities for our target groups.

Best Practice **Scaling-deep** in Havana: *ECS tools and best practice knowledge when shopping at your local farmers' market*



- **Turn every citizen into a clever farmer?**
- **agricultural store consultancies** run by the Cuban Ministry of Agriculture
- started in 1995/96 as “shops de semillas” (“seed shops”)
- today provision of a **broad range of products and services**: offer technical advice from agronomists; seeds, seedlings, saplings, biofertilisers, biopesticides, soil conditioners, veterinary drugs, protective clothing, information leaflets, publications and tools for farming or gardening





URBiNAT



contact: edicitnet-coordinator@eurtd.com

3 Breakout rooms + Miro board until 13.25

Please find the link to the Miro board in the chat!

“about space & domains”

1. Breakout Room

Scaling wide & across

(Ina/Olivia)

WP3 (Up)scaling workshop

Scaling-up: Reaching more people with the same ECS activities.

Scaling-wide: Replicate ECS activities in new geographic areas.

Scaling-across: Novel ECS activities are started in new domains.

Scaling-deep: Improvement of existing ECS activities for our target groups.

Scaling-soft: Networking, alliance building, dissemination of ECS knowledge.

Living Labs: are temporal spaces. Cities give strategies and processes for anchoring ECS in cities a try in protected rooms for enhancing social cohesion and better living conditions.

“about people & improvements”

2. Breakout Room

Scaling up & deep (Sara/Elena)

“about strategic scaling”

3. Breakout Room

Scaling soft (Marisa/Edi)





Thank you for joining us!



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