



WORLD GREEN INFRASTRUCTURE NETWORK  
vegetation makes it possible!



Norwegian Association  
for Green Infrastructure



## *Nonpartisan Policy Workshop on Green Roofs and Walls*

*June 13th, 2019*

Photo: Scandinavian Green Roof Institute

# *Nonpartisan policy workshop part 1*

(open to the public by registration)

10:00 – 10:10 - Opening and welcome from Hanna Marcussen, Oslo Vice Mayor for Urban Development

10:10 – 10:40 – State of the Art Green Roofs and Walls in Europe. Prof. Dr. Manfred Köhler, President of World Green Infrastructure Network (WGIN)

10:40 – 11:10 – State of the Art Green Roofs and Walls in the Americas. Steven Peck. GRP, Founder and President Green Roofs for Healthy Cities, WGIN Board Member

11:10 – 11:30 – Brief presentation of the Oslo Draft Strategy for Green Roofs and Walls. Bymiljøetaten

11:30 – 12:00 - Pecha Kucha. Outstanding examples of policy supporting green roofs and walls (WGIN board)

Finish of Part 1

# *Nonpartisan policy workshop part 2*

(participation by invitation only)

12:30 – 14:00 – Round table discussions for topics related to Green Roof policy. Barriers. Enablers. Oslo's role.

- Innovation and technology development
- Research and education
- Municipal properties and projects
- Integration in Master Plans and Sector Plans
- Supporting tools – Blue-green factor, guidelines, Municipal agency roles
- Economic Incentives
- Stormwater and climate adaptation
- Building integrated greening and the biophilic city
- Urban Agriculture
- Supporting urban wildlife and biological diversity

14:00 – 14:30 – Group discussion and key conclusions

Finish of Part 2

# Oslo Municipal Masterplan 2018 - 2040



## 3.1 A Greener City

- Oslo is faced with increasing climate challenges
- A greener city means citizens and nature working together in the blue-green city. **Urban agriculture, green roofs and roof gardens make the city greener and more habitable for people, animals and plants.**

# Oslo Municipal Masterplan 2018 - 2040



Urban development will take climate change into account. Opening av piped waterways, managing flood zones, work with green roofs and preservation of valuable vegetation are important measures. **Vegetation of surfaces is an important stormwater management measure that absorbs and delays runoff.**

# Cooperation platform for the present political administration 2015-19



The Vice Mayors wish to:

- Establish an ambitious strategy for green roofs inspired by Copenhagen





*Illustrasjon: Nordic – Office of architecture /  
SLA / Rambøll / Norsam*



A-lab / GXN / Edit/atelier / iArk / Sweco /  
Akershus eiendom

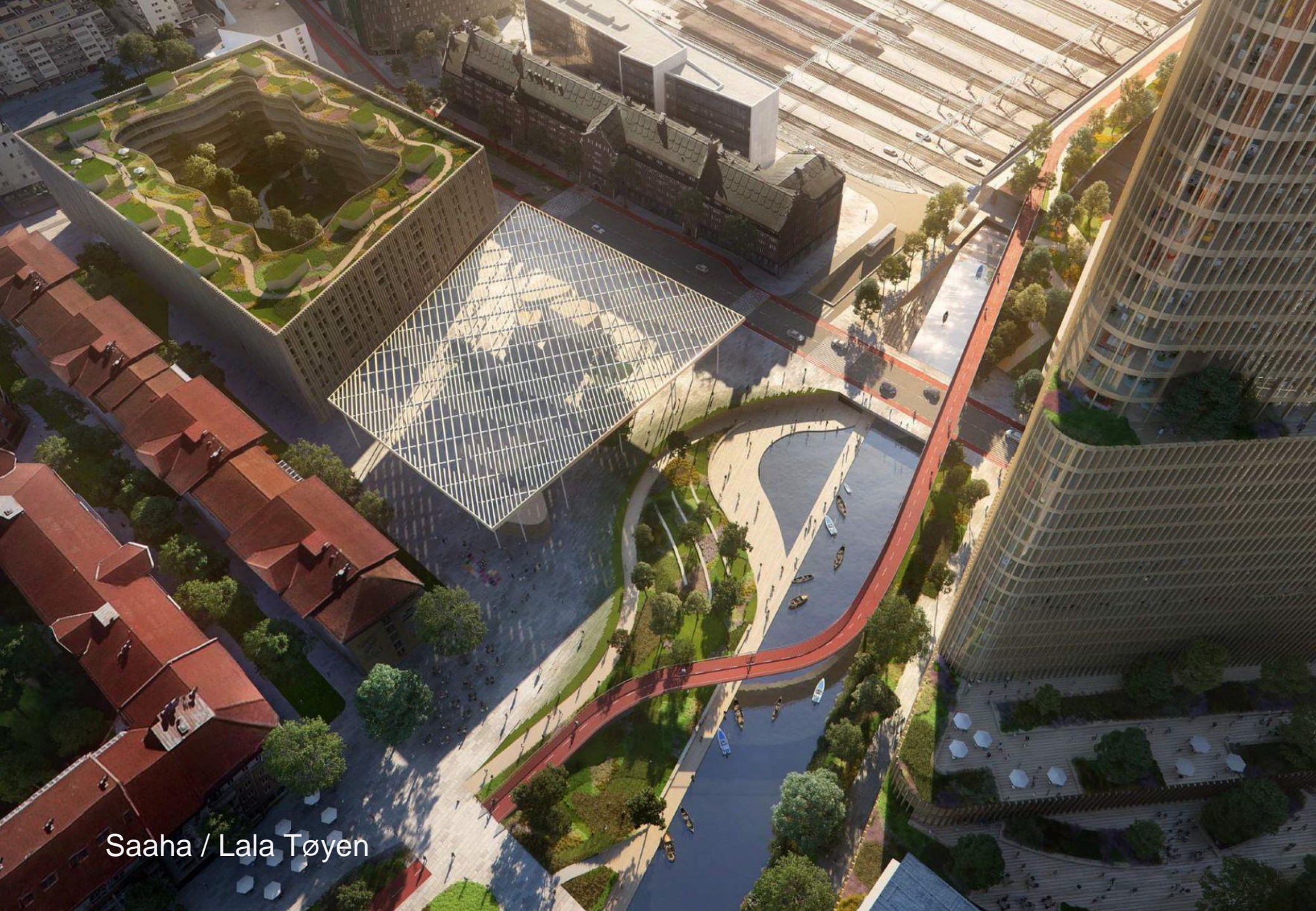




Illustration: Arcasa architects



Mad arkitekter / LÉVA  
Urban Design / Vill Energi



Saaha / Lala Tøyen



*Ineo Eiendom at Stovner, Oslo  
MAD architects*



Schmidt Hammer Lassen



# Oslo draft strategy, December 2018

## 4.1 Vision

Oslo municipality wishes an **interdisciplinary and ambitious** venture for the establishment of green roofs and facades, with a significant focus on solutions that help meet **current and future challenges**. The following vision is therefore chosen for green roofs and facades in Oslo:

Oslo is a vibrant, beautiful and smart city where green roofs and facades make a contribution to **solving urban challenges**, **safeguarding biological diversity** and creating **new, exciting meeting places**.



*Oslo Sentralbanestasjon og Operakvartalet – et tenkt eksempel på grønne tak og fasader (fotografi/montasje: Nucleus)*



## 4.2 Goals

The potential for green roofs and facades in Oslo is great. **We currently do not have sufficient knowledge and experience on how to best implement these solutions in the city.** The vision therefore requires that a wide range of local knowledge be established before a significant development of these solutions is implemented.

## **Main goal # 1:**

By 2025, Oslo has built up the necessary interdisciplinary expertise and systems for planning and establishing natural green roofs and facades.

1.1 An interdisciplinary environment has been established in Oslo for **cooperation between actors working for the establishment of green roofs and facades.**

1.2 The municipality, the academic community and developers have acquired **local knowledge and developed methods, tools and systems for establishing green roofs and facades in Oslo.** This will be the basis for establishing sustainable building-integrated green structures with multifunctional solutions that take care of local conditions and priorities.

1.3 The City of Oslo has **investigated how green roofs and facades should be incorporated into the municipal hierarchy and regulations** that correspond to the municipality's objectives for the city.

- A program is being established with public, business, knowledge and relevant organizations. The program will be the starting point for the successful implementation of this strategy.
- Oslo Municipality and external actors must be active participants and motivate competence-building initiatives for local solutions for green roofs and facades.
- Establish green roofs and facades on existing and new municipal buildings. These will be used for competence building and experience gathering.
- Develop and develop methods and tools, and guidance materials for planning and developing green roofs and facades on new and existing private and municipal buildings in Oslo.
- Develop and develop solutions and plans for the development of green roofs and facades in Oslo, both in municipal and private buildings, which address specific local challenges in various districts.
- Utrede and establish instruments to stimulate the development of green roofs and facades on municipal and private buildings.
- Harmonize and adapt building requirements for municipal buildings in Oslo so that the requirements for green roofs and facades are adapted and do not conflict with other requirements and purposes, eg. Oslo Municipality's functional requirements for purpose building.
- Implement strategies and requirements for green roofs and facades in the municipality's plan and regulations for new buildings and rehabilitation

## **Main goal # 2:**

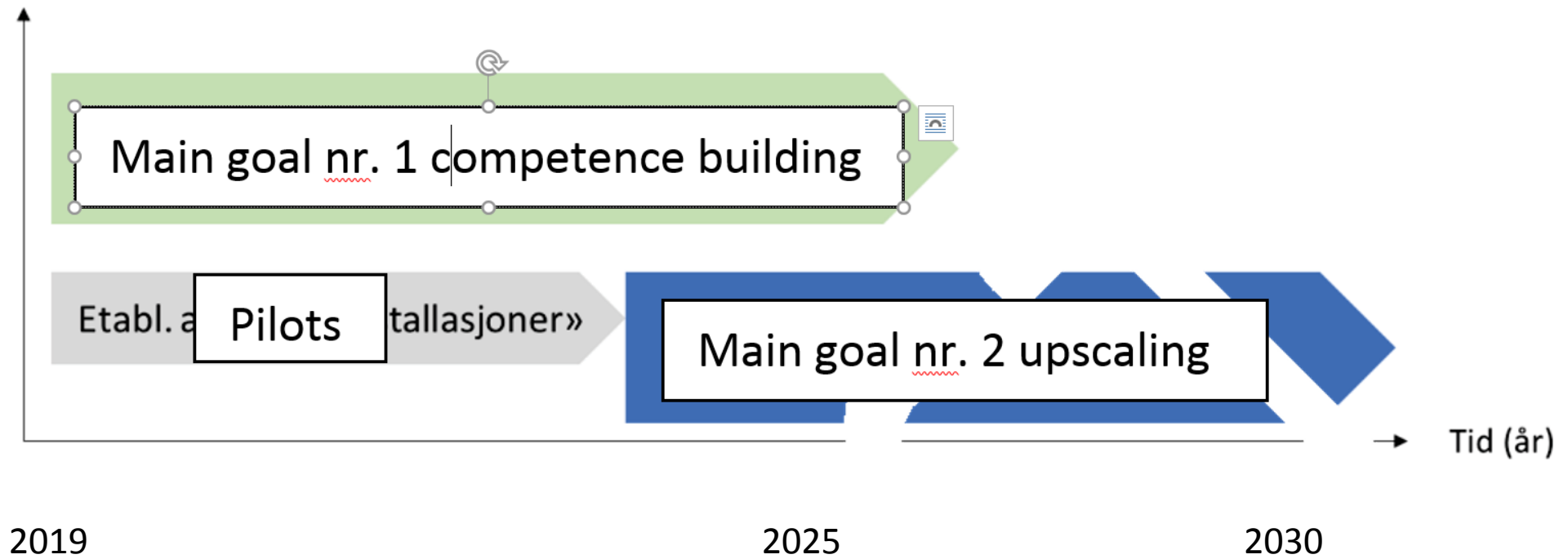
By 2030, Oslo has established green roofs and facades to an extent that significantly contributes to solving important environmental challenges and to Oslo becoming a more beautiful and more inclusive city.

2.1 From 2025, the municipality will demand **green roofs and facades for all new buildings and total rehabilitation for municipal operations**. The requirements must be adapted to the individual project and **assessed together with other local priorities and applicable requirements**.

2.2 The **City of Oslo will actively stimulate** the construction of green roofs and facades on **existing** and **new private buildings** in Oslo.

- Establish green roofs and facades on municipal buildings.
- Practice and follow up the established requirements for green roofs and facades in new buildings and at rehabilitation.
- Actively stimulate the development of green roofs and facades on private buildings through established and new instruments.
- Continuously adapt and improve the municipality's strategies, plans and regulations and tools for new expertise and experience for establishing green roofs and facades.
- Work with competence building and experience exchange in cooperation with other actors.
- Promote green roofs and facades over municipal and private institutions and actors, both locally, nationally and internationally.

Mål og tiltak





# Round table discussions

- Innovation, technology, research, education, pilots and guidelines
- Municipal properties and agency roles
- Integration in masterplans and sector plans. BGF
- Stormwater management Adaptation to climate change
- Economic incentives
- Biophilic city and healthy ecosystems