

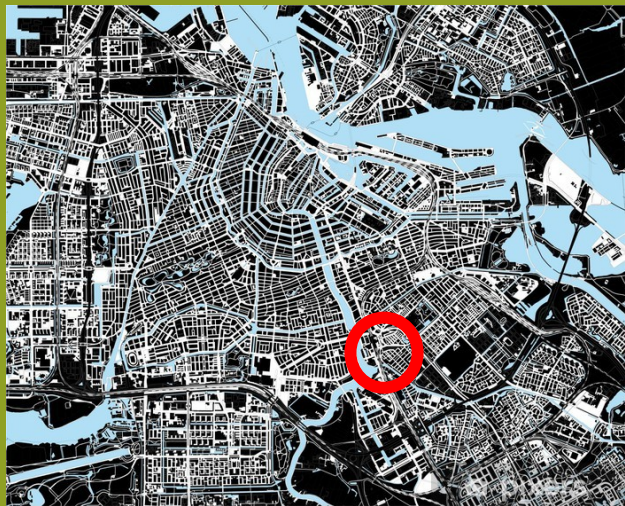


Green Tower Living Lab

Test ground for Healthy Living, Urban Food systems and Circular Materials



Photo by FABRICations



Location

Bajeskwartier

Lindenhoevestraat 4, 1096 AG
Amsterdam.

Site Characteristics

- Privately owned site enclosed by water and train tracks.
- Connected to the Amstelkwartier neighbourhood via a newly built tunnel running under the train tracks.
- Easily accessible by public transport via the metro stop Spaklerweg.
- 7,5 ha of which 135.000 m² build area with at least 70% of housing.
- 1300 apartments divided over seven residential towers. Apartments range from social housing, medium-fee rent, free sector rent and owner-occupied homes (prices vary from €300,000 to €3,000,000).
- Sale of apartments started in medio 2021. First residents are expected to move in in 2023.

Contact

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The Green Tower Living Lab aims to support the sustainable development of the former Bijlmer Bajes prison site into a new sustainable neighborhood.

The Bajeskwartier

On the location of the old 'Bijlmerbajes' a green and energy neutral city district will arise. Bajeskwartier has ambitious sustainability goals to implement innovative sustainable solutions for healthy living, climate resilience, sustainable energy and circular urban food systems. The neighborhood will be home to seven residential towers with a wide range of owner-occupied apartments and (social) rental homes from the housing corporation De Alliantie. Bajeskwartier aims to be a car-free zone, with high ambitions in terms of sustainability and creativity.

The Green Tower

The one and only prison tower that will remain will be transformed into 'The Green Tower'. The Green Tower will function as Bajeskwartier's central sustainability hub where all sustainable systems from the neighbourhood come together (e.g., heat pumps and waste processing installations). Additionally, it will be the place where the Bajeskwartier informs and educates residents and visitors about its sustainable ambitions in a fun and interactive manner. Other than the installations that will be openly showcased, the Green Tower will host a vertical city garden with sustainable urban agriculture, a restaurant, climbing wall, viewpoint and various experiments from the *Green Tower Living Lab*.

The Green Tower Living Lab

The Green Tower Living Lab explores how innovation can be an integral part of large-scale real-estate development projects from the get-go by testing potential sustainable innovations early in the area's development process. The Green Tower Living Lab supports the sustainable development of the Bajeskwartier neighborhood by combining the strengths of entrepreneurs, citizens, policymakers and scientists. Together we set up multidisciplinary and scalable pilots and experiments in which we develop, implement and test the latest sustainable innovations in the Bajeskwartier to achieve its sustainability objectives. We do this step by step. From small scale experiments on different locations throughout the Bajeskwartier in the early development stages, towards larger experiments and projects in the Green Tower in later development stages. This way, experiments scale-up along with the development process of the Bajeskwartier.

Living Lab Organisation

The Bajeskwartier is a private development project developed by Bajes Kwartier Ontwikkeling (BKO). The BKO consortium consists of AM Developers, Cairn Real Estate and AT Capital. To fulfil the sustainability ambitions of the Bajeskwartier, BKO and AMS Institute jointly initiated the *Green Tower Living Lab*. Additionally, AM Developers and Wijngaarde and Partners are active contributors in the Living Lab.



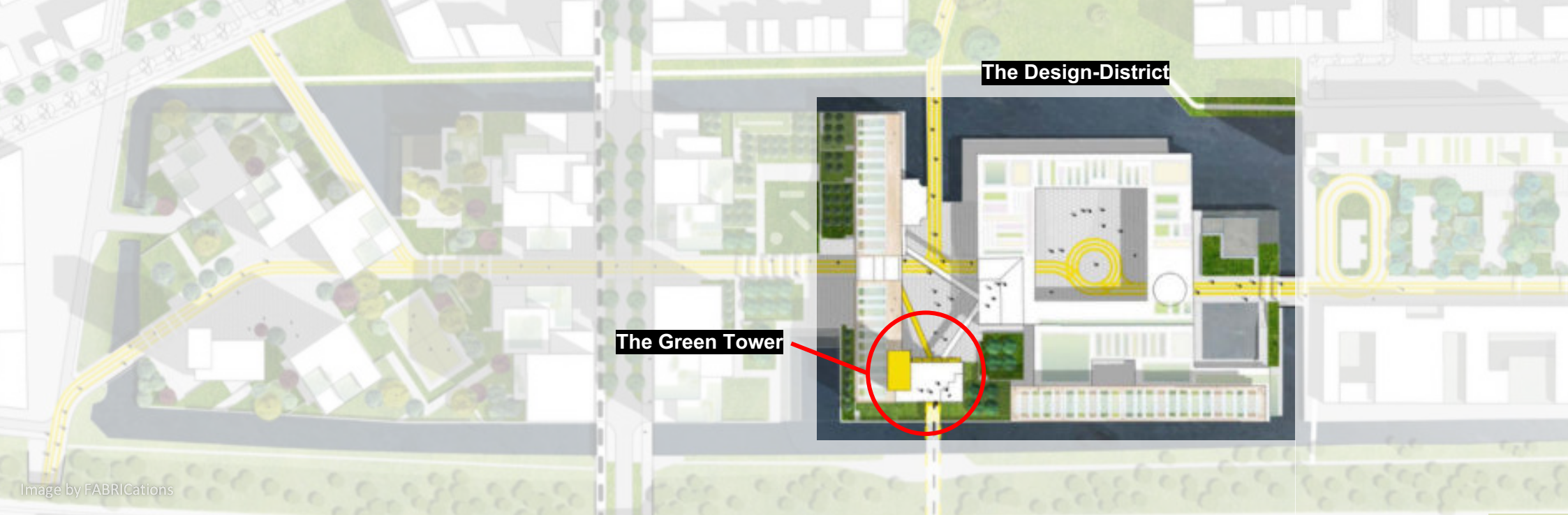


Image by FABRICations

Innovation challenges

The Green Tower Living Lab wofocuses on three central challenges:

- **Zero Waste Urban Food Systems:** How can we create a circular urban food system that produces local food (e.g., using vertical urban farming), creates zero food waste and recycles waste streams onsite (e.g., by recovering nutrients and implementing smart energy- and heating grids)?
- **Circular and Biobased Materials:** How can we reduce the buildings' carbon footprint and simultaneously improve indoor- and outdoor climate conditions?
- **Healthy & Sustainable Public Space:** How can we create climate resilient public space that positively influences the wellbeing of citizens?

Experimentation facilities

The Bajeskwartier neighborhood is an ongoing development project which means that experimentation opportunities vary over time. In the early development stage experiments can take place in the public (green) space of the site and in and around the main building. Experiments that do not need any complex alterations to existing constructions can be implemented directly depending on local permits. In later stages, innovations and experiments can be implemented in the Green Tower. Larger and more long-term experiments and pilots can be implemented in the Green Tower from 2023 onwards. Once the residential towers are there, experiments might also take place in the public space around the residential towers. Experimentation within the residences and with local inhabitants can be explored but this is not the Living Lab's main scope.

How to get in touch?

Interested in conducting an experiment in the Bajeskwartier? Since every experiment is custom made, the fastest way is to email us with your challenge, experiment, and idea and we will elaborate on a project together! When desired or needed, AMS Institute can support in exploring plan development-, network- and funding opportunities.

Area plan of the Bajeskwartier

The former Bijlmer Bajes prison



Photo by Marco van Middelkoop

Impression of the Green Tower



Image by FABRICations

Impression of the Design District



Image by FABRICations