



Green legacy of the 'third Golden Age'

Using the multiple benefits of green while densifying the city

Geertje Wijten
Department of Planning and Sustainability
City of Amsterdam

Green legacy of the 'third Golden Age'

Context: facts and challenges

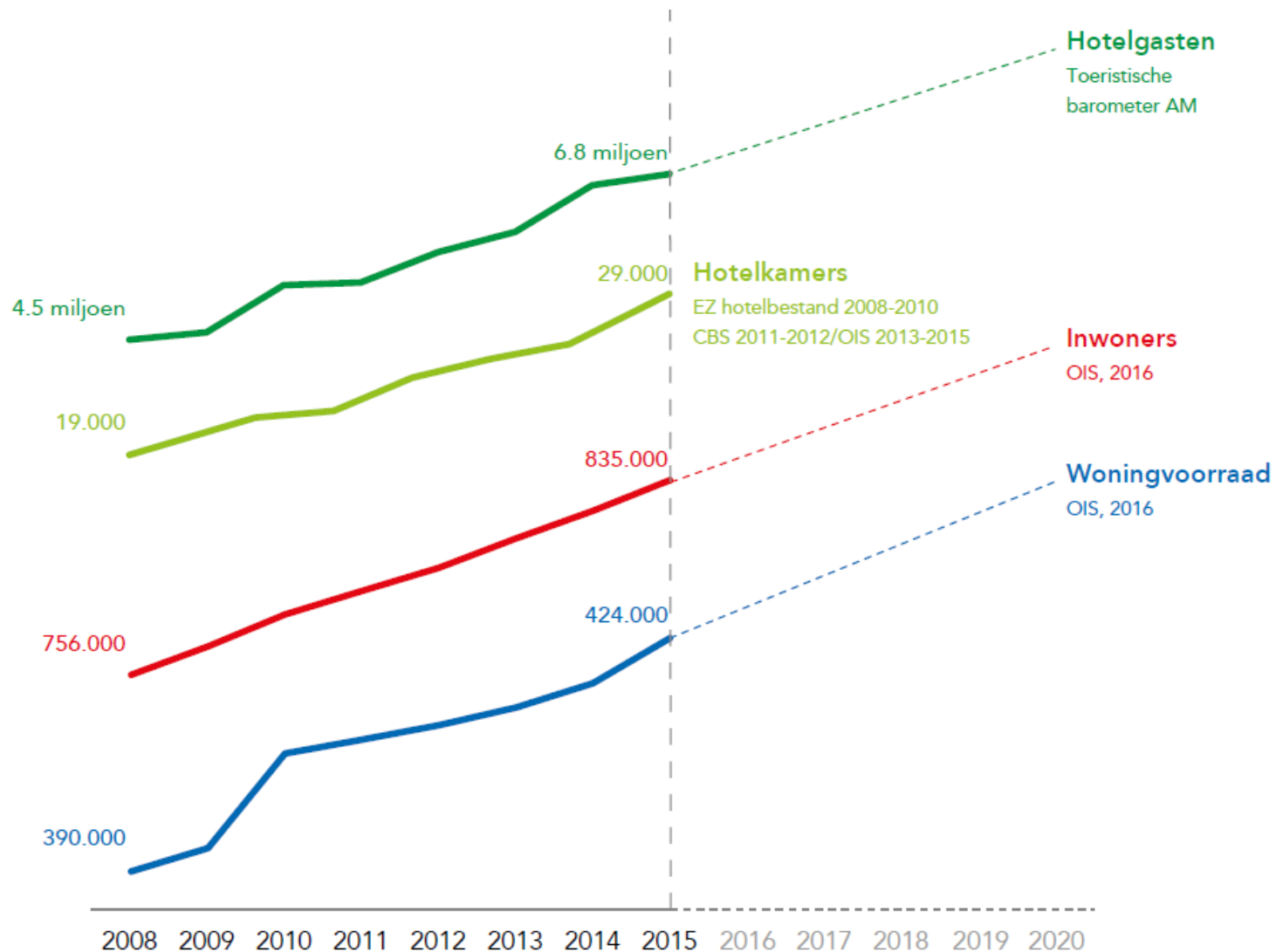
History: the 1st and 2nd Golden Age and recent years

Future: the green strategy for the 3rd Golden Age?

Context: Amsterdam facts



Context: Amsterdam is growing rapidly ...



Context: Several publications define this period as the 3rd Golden Age...

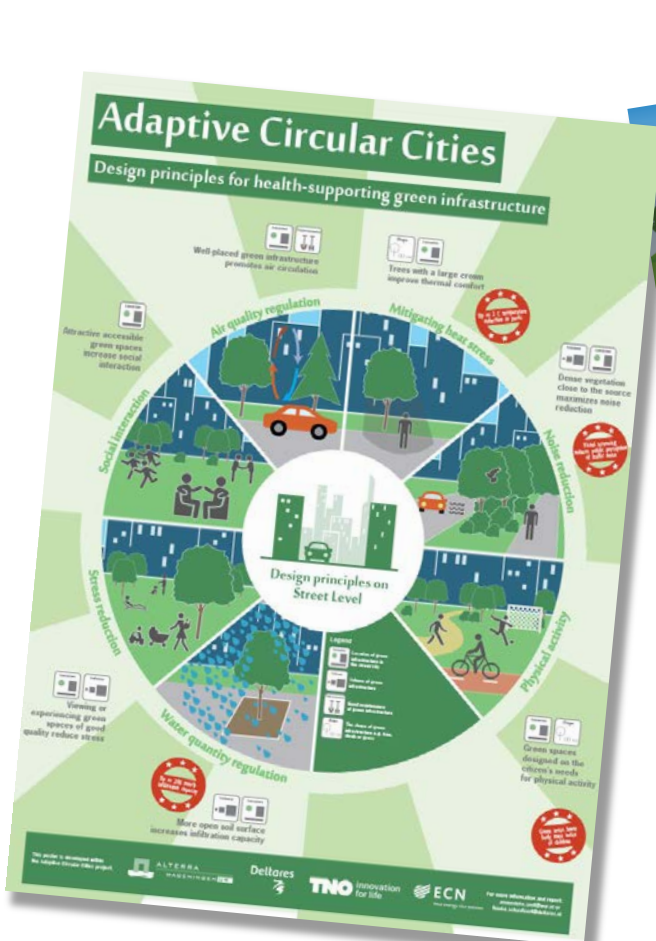


**Bajes Kwartier,
Amsterdam**

Context: New targets have been set for green infrastructure in developing areas in January 2018

	Central living areas	Mixed living areas	Green-blue living areas
Public green space	8 m2 per dwelling	16 m2 per dwelling	24 m2 per dwelling
Ecosystem green space	8 m2 per dwelling	6 m2 per dwelling	4 m2 per dwelling

Context: Evidence of the multiple benefits and value of green infrastructure is growing



THE POWER OF PARKS

Do you know the power of your local parks and recreation? Yes, they provide beautiful green spaces and fun programs, but they do so much more and the benefits are immense. Learn more at www.nrp.org/power-of-parks and watch the video.

PARKS HAVE ENVIRONMENTAL POWER

1 ACRE OF TREES absorbs the carbon dioxide produced by DRIVING A CAR 11,000 MILES.

PARKS HAVE HEALTH POWER

Increased access to places for physical activity leads to a **25% increase** in people exercising 3 or more days a week.

PARKS HAVE SAFETY POWER

In Macon, GA, a revitalized park that included new programming and beautification efforts, **reduced incidents of crime and violence by 50%.**

PARKS HAVE COMMUNITY POWER

Parks strengthen community ties and **bring diverse populations together.**

Parks have the power to strengthen communities, transform lives, and protect the future.

Parks are the most powerful aspect of every community.

#PowerOfParks

National Recreation and Park Association

Human Health Benefits of Natural Grass & Greenspace

30 min.

Mowing a lawn for 30 minutes once weekly with a non-motorized push mower provides the recommended daily exercise for an 18 to 65 year old person.

- RELIEVES STRESS
- ENCOURAGES PHYSICAL ACTIVITY
- LAWN CARE HELPS REDUCE OBESITY
- BOOSTS IMMUNITY
- ENHANCES PRODUCTIVITY
- PROMOTES HEALING
- FOSTERS PSYCHOLOGICAL WELL-BEING
- INCREASES TRANQUILITY
- IMPROVES MENTAL FUNCTIONING

REDUCED ALLERGIES

Exposure to greenery aids in lowering blood pressure, related to stress, and improving attention.

Most turfgrasses that are mowed regularly at a low height tend to remain vegetative with minimal floral development, thus reducing allergy-related pollen production. (Geard, 1994)

RELAXATION

75%

A survey of parkgoers in the Netherlands' most popular park, Vondelpark, showed that nearly 75% valued the park for relaxing in large part because of its vegetation. (Chiesura, 2004).

FASTER RECOVERY

Studies have shown that hospital patients with a view of natural green space recover faster.

Three times as likely to be physically active.

40 percent less likely to be overweight or obese compared to those living in less green space.

NOISE BUSTER

Healthy turf absorbs sound, reducing noise levels by 30 to 40 percent.

OXYGEN

Grass and trees along the US interstate system produce enough oxygen to support 22 million people.

3X

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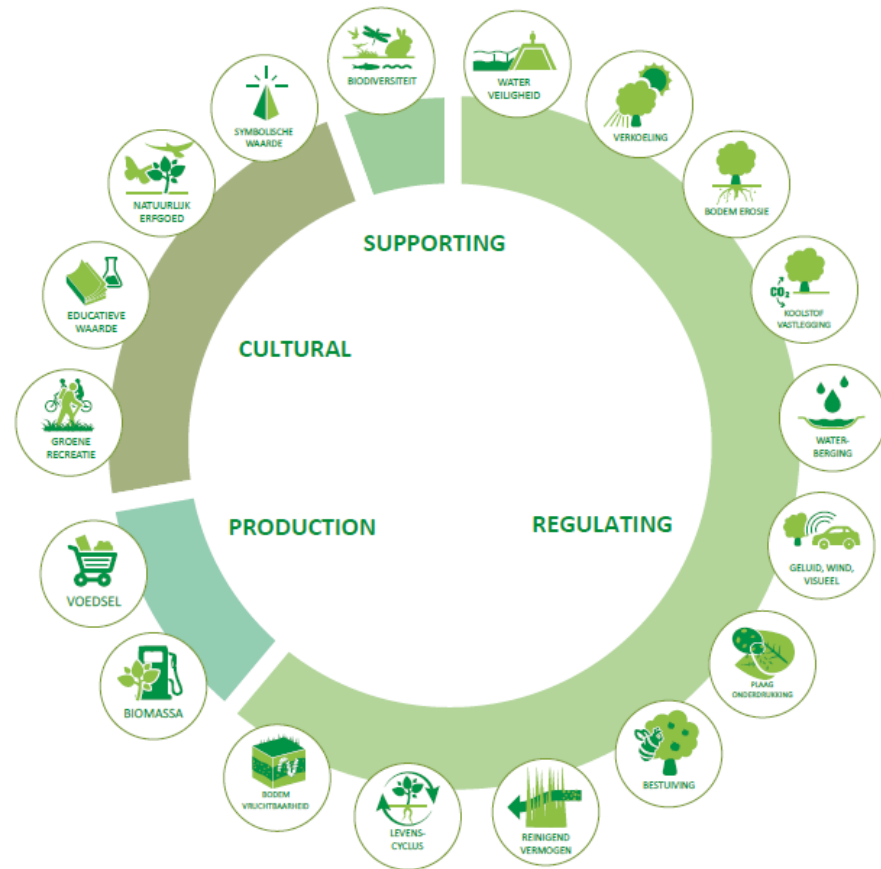
22 million people

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#PowerOfParks

National Recreation and Park Association

Context: a survey on services and values of GI is conducted for Amsterdam at this moment



Ecosystem services

+



User values

Context: Do we have enough attractive green space for more than 1 mio people living in Amsterdam in 2034?



Context: Do we have enough green space to be a healthy and climate-resilient city?





History

the 1st and 2nd Golden Age and recent years

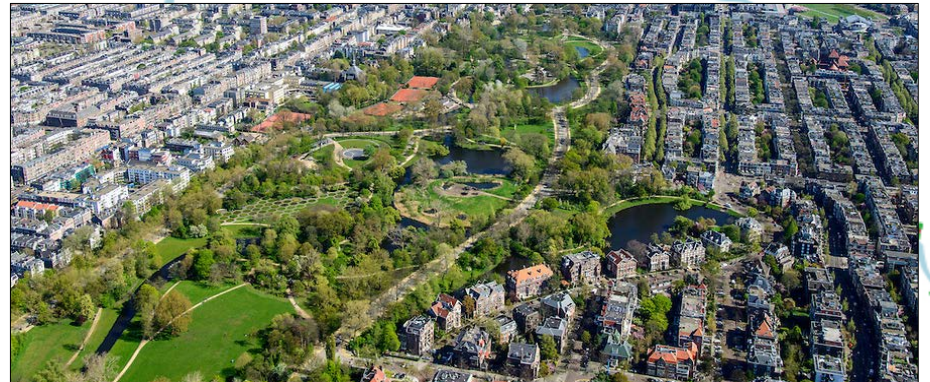
History: Amsterdam has a human scale and high standard of living



History: 1588-1700: Treelined streets and canals in the 1st Golden Age



History: 1870 - 1930: Development of city parks in the 2nd Golden Age



History: in recent years the city started growing and we invested in green infrastructure with our **Green Agenda**

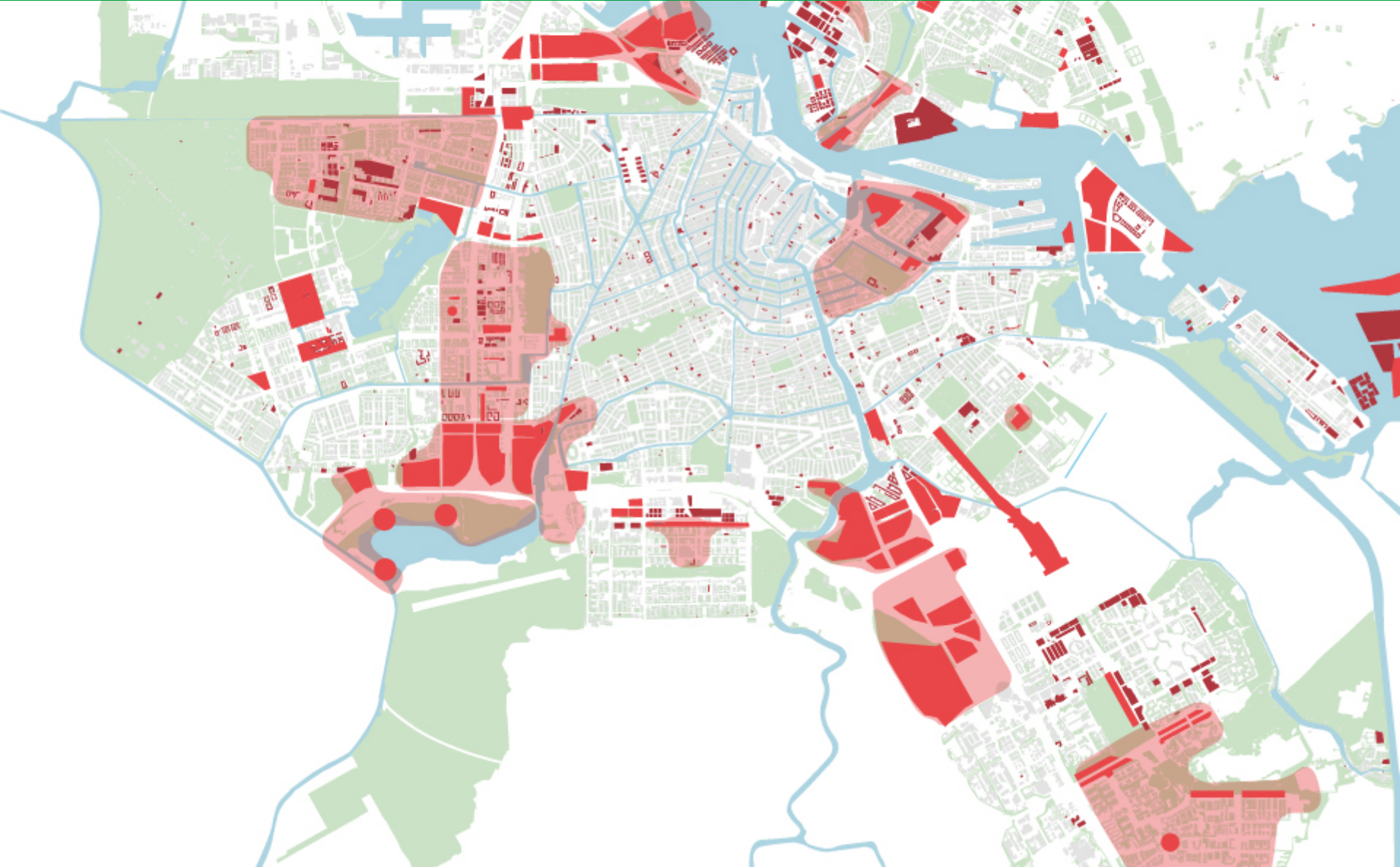




Future

the green strategy for the 3rd Golden Age?

Future: Once again we face the challenge to build a large number of houses in a short period of time



Future: Successful cities across the globe invest substantially in greening their densified urban centers



Seoul: from highway to park

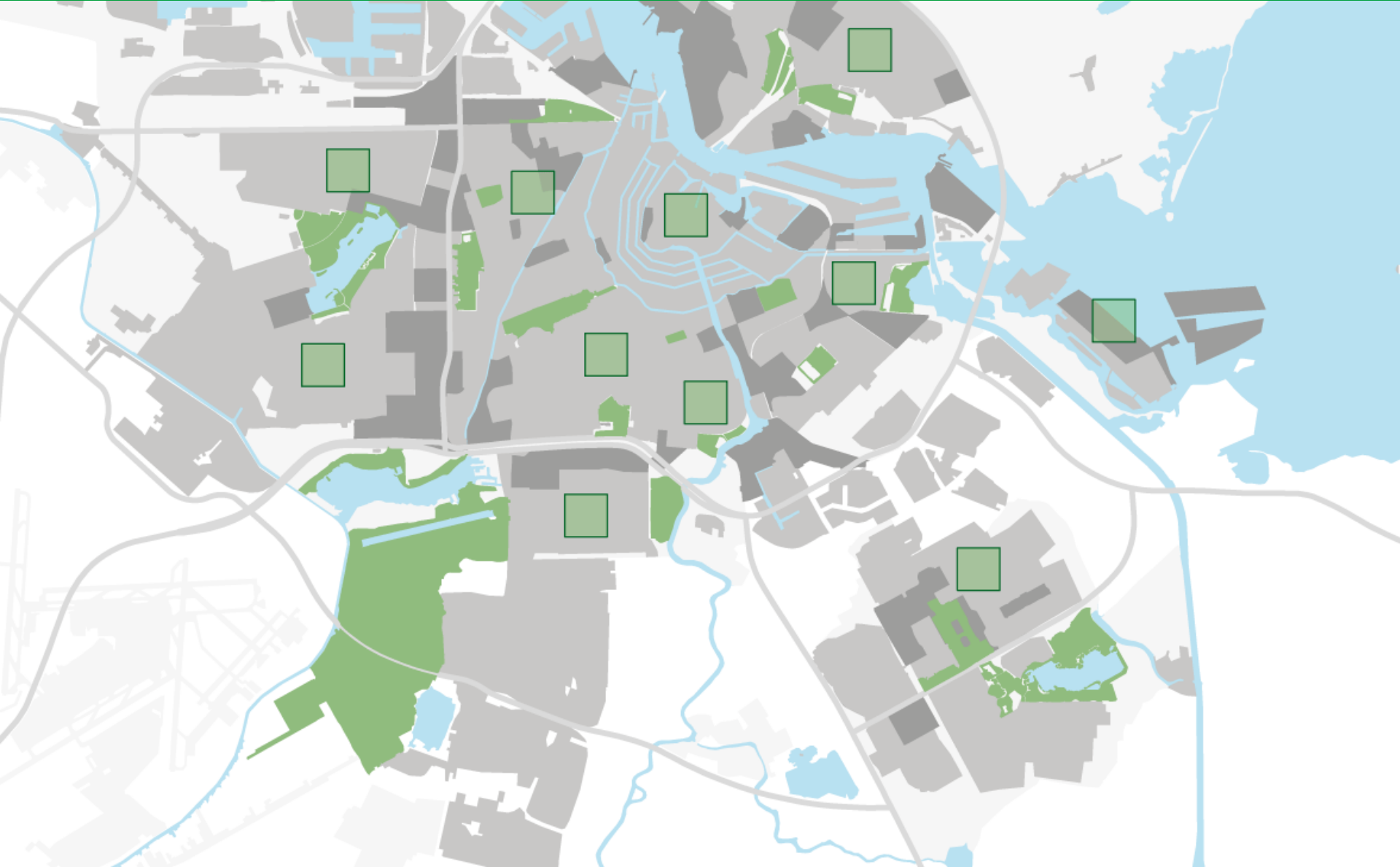


Singapore: Park connectors



San Francisco: rooftop park

Future: Not enough space for new green proportional to the growth of inhabitants.



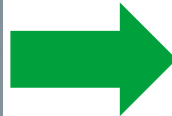
Future: the green strategy will focus on quality: adding value to the existing green infrastructure

1. More attractive
2. Diverse
3. More public
4. Improving the network
5. Designing metropolitan parks

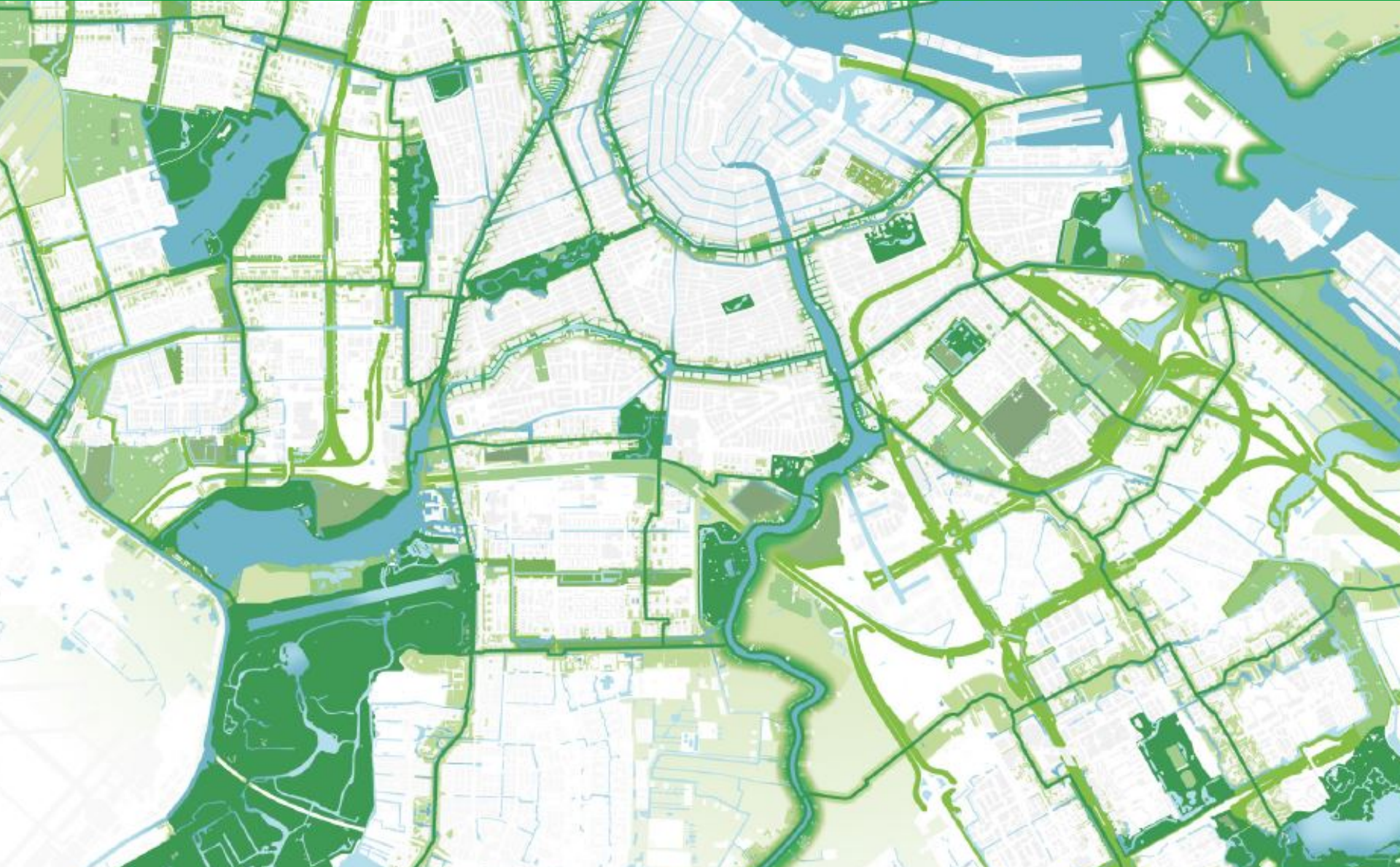
Future: with a large diversity in green spaces for all Amsterdam people



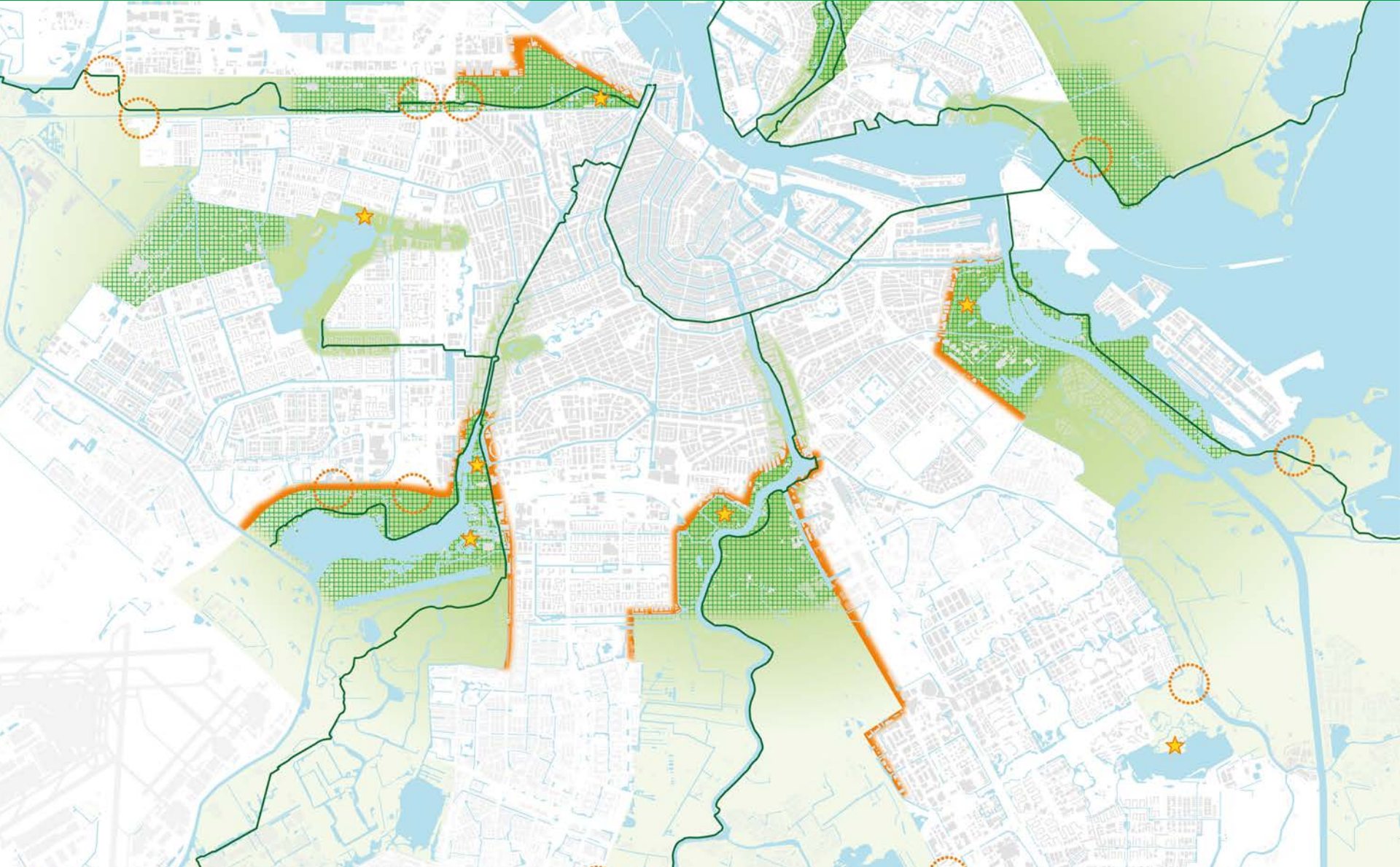
Future: Shifting away from private ownership towards a more public way of urban gardening



Future: Creating a continuous green-blue network for urban growth, biodiversity and active recreation



Future: Development of a new type of park in Amsterdam: metropolitan parks



Future: Development of a new type of park in Amsterdam: metropolitan parks



Future: Looking at innovation to also add new parks of the 21st century...



Future: Optimal greening of existing and new neighbourhoods on all levels



Future: building a green and livable city together with
NGO's, citizens and entrepreneurs





Thank you!