

2023-2026 Green Agenda





<u>City</u> Area : Municipal Budget: 4,2 billion Euro's

320 km²

Region

Inhabitants:

3,600,000

<u>Port</u> 105 km2 (50 km² commercial sites) Area: Length of port area: 40 km. Direct employment: over 70,000 jobs Goods throughput: over 400 million tonnes of goods per annum

Rotterdam

Characteristics:

- 663.000 inhabitants
- Multicultural (170 nationalities)
- 28% households with children
- 20% younger than 19 years old
- 44% social rental houses (housing corporations)
- 20% of children live in poverty' (max 110% of social minimum)







Wednesday, November 15, 4:01 PM

Wednesday September 6, 2023, 4:29 PM

Shocking graph with temperature increase in Rotterdam, new heat records daily

Heat wave in Hoek van Holland exceptionally early in the year

Flooding in Rotterdam: "Provide more greenery in public spaces"

Tuesday, October 10, 7:34 PM

In the Bloemhof district of Rotterdam, thousands of homes are sinking into the ground

Rotterdam Airport measures above-average rainfall; possibly highest rainfall since measurements started

Storm season in Rotterdam: more chance of flooding

LIVING

Livable Rotterdam starts reporting center for mold homes: 'Black mold is disastrous for your lungs'

Cause and urgency

A need for more and more varied greenery

- Districts with few parks and public gardens
- More Rotterdam residents > opportunities for walking, cycling and recreational activities
- Changing climate: heat, flooding
- Decrease in quantity and species of animals and plants
- Collaboration between climate adaptation, biodiversity and greenery programme teams

Why add more greenery?

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Green is good!

- It will make the city more attractive to live and work in
- Less stress, more recreational activities, exercise, contact
- Heat stress and flooding
- Biodiversity
- Property value

Objectives

- 20 hectares of extra greenery (29 football fields)
- Together with others: 40% of the land is owned by the municipality
- 15 green squares
- 4 green routes along the water
- 50 climate-adaptive projects: greenery and/or water storage
- 40 hectares of bee landscape
- More biodiversity
- Improve parks

Six tracks: adding green on all scales

- 1. Green close to home
- 2. Green in districts
- 3. Tackling the squares
- 4. Green routes along the water
- 5. Park improvements
- 6. Biodiversity and nurturing the greenery



1. Green close to home

Stimulate by:

- contribution to resident initiatives
- Nature based schoolyards
- climate subsidy

2. Green in districts

Priority given to places which have scored badly on:

- distance to a cool place
- heat stress
- water problems
- Biodiversity
- In combination with planned maintainance

Tackling 50 climate-adaptive projects



Nieuwerkerk aan den

This map contains scores for 6 subjects: rainfall water (water in the street measuring in excess of 20 cm), heat (buildings more than a 300 m walk from a cool place and the perceived temperature), greening (percentage of paved surfaces) and biodiversity (ecological connecting zones and low biodiversity classes). The values are based on the existing datasets for the Rotterdams Weerwoord, greening and biodiversity maps.

The score is assigned by calculating: water on the street: area of water on the street compared to area of land per subneighbourhood, the 150 subneighbourhoods have the highest percentage 9= more than 8%

map of walking distances to cool places, buildings which are more than a 300 m walk to a cool place. If 1 building in a sub-neighbourhood fails, this will already count. Details can be found in the relevant Weerwoord map.

perceived temperature: heat synthesis map, all sub-neighbourhoods which are 41 degrees or warmer

percentage of paved surfaces: map showing the percentage of paved surfaces per neighbourhood, the 150 sub-neighbourhoods with the highest score (= 74% or more)

ecological connecting zones: subneighbourhoods through which more than 100 meters of zones with potential run

biodiversity class: sub-neighbourhoods with a low or very low score based on the biodiversity map

3. Tackling the squares

- - In densely built-up districts with a great deal of stone
 - 15 squares, of which 5 with water collection
 - Connected to planned maintenance
 - For example: Persoonsdam, Slotboomplein, Rijnhoutplein



4. Green routes along the water

A multitude of opportunities

- walking
- cycling
- recreational activities
- connecting neighbourhoods, the outskirts of the city and the region

5. Park improvements



For example: Argonautenpark, Molenpark, Blauwe Reiger

New parks: city projects



6. Biodiversity and nurturing the greenery

- Transformation of grass into 40 hectares of bee landscape
- Conduct research into improvement of food, nesting opportunities and structure (routes)
- Enrich the existing greenery
- Colleague awareness and tools: biodiversity in plans for new greenery
- Improvement of growth places

Finance: extra money for green agenda

Vieu Vieuw

- 57 million euro's in total (4 years)
- 2 million per year for green close to home
- City projects have separate funding

Coherence with other programmes





Green-blue school school yards:

- Why?
- What is a green blue (nature based) school yard?
- The approach of Rotterdam
- Results and examples

Why nature based school yards?



What is a nature based schoolyard?







What is a nature based schoolyard?







What is a nature based schoolyard?

- Diverse and challenging landscape for playing and learning
- Natural and sustainable materials
- Shadow to prevent heat stress
- Prevents flooding
- Supports biodiversity
- Ownership and enthousiasm

Rotterdam's green blue schoolyards



- € 400.000 subsidy for 5 schools per year
- Designing process together with schools
- Condition: accessible for neighbourhood
- 2 or 3 public squares per year
- Encouraging nature based schoolyards at new-build schools

Example: KC de Vlinder





Example: Oranjeschool











Example: de Margriet















Thank you, Rotterdam is going green!



Groen

Agenda