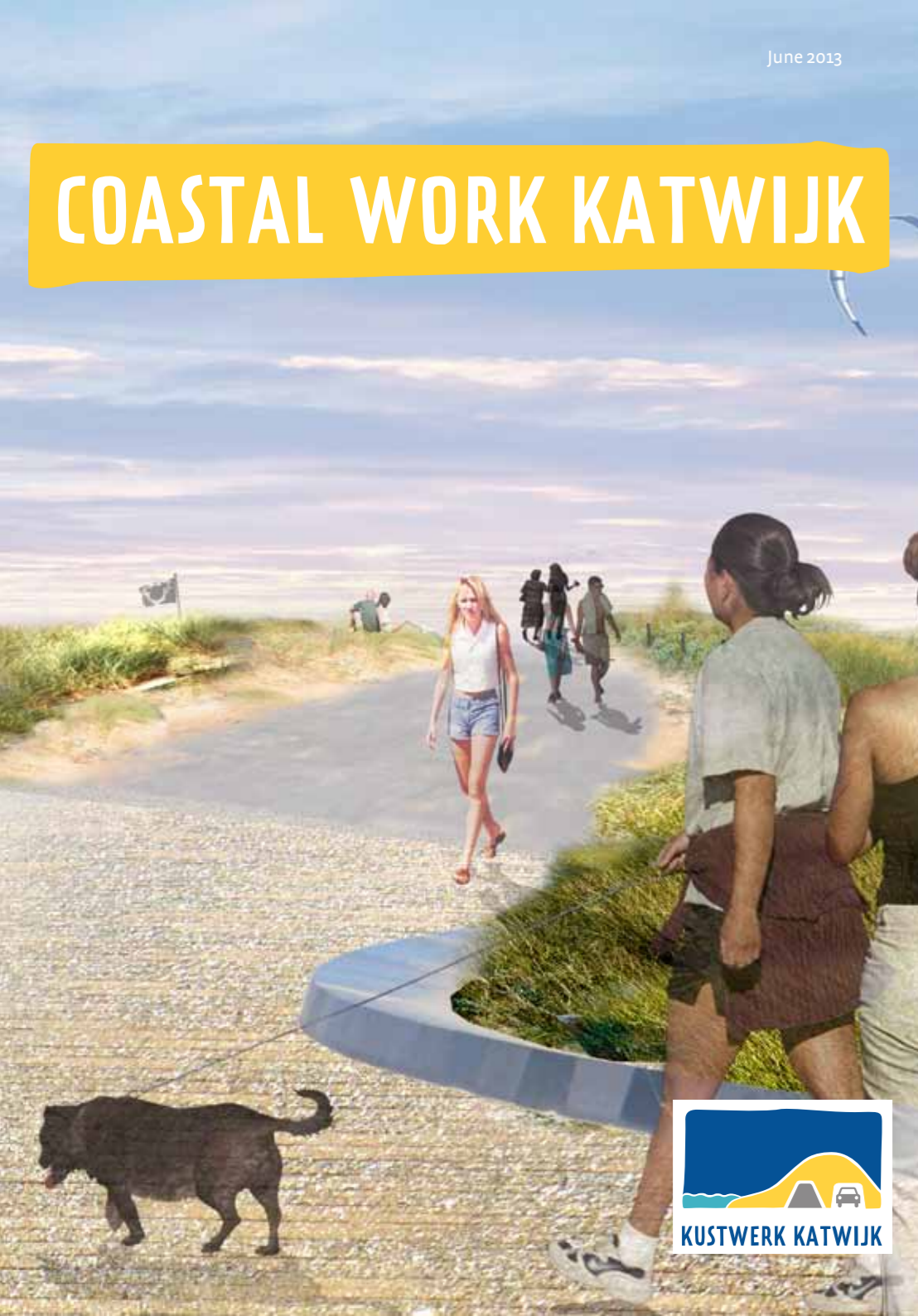


# COASTAL WORK KATWIJK



## A TREMENDOUS SOLUTION

### DYKE, PARKING AND RECREATION

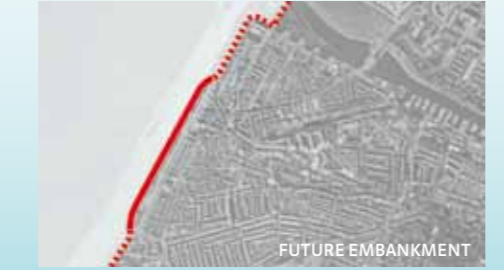
The Netherlands is situated largely below sea level. Protection against water is therefore important. Legal safety standards have been drafted for coastal defences. Part of Katwijk's coast does not meet with these standards. The coast at Katwijk is therefore being reinforced with a dyke in new, wider dunes. The parking pressure in Katwijk is quite high as well. There will be space for an underground parking garage between the Boulevard and the dyke. The Dyke-in-Dune solution thus offers security and parking space, while maintaining the spatial quality.

#### DRY FEET

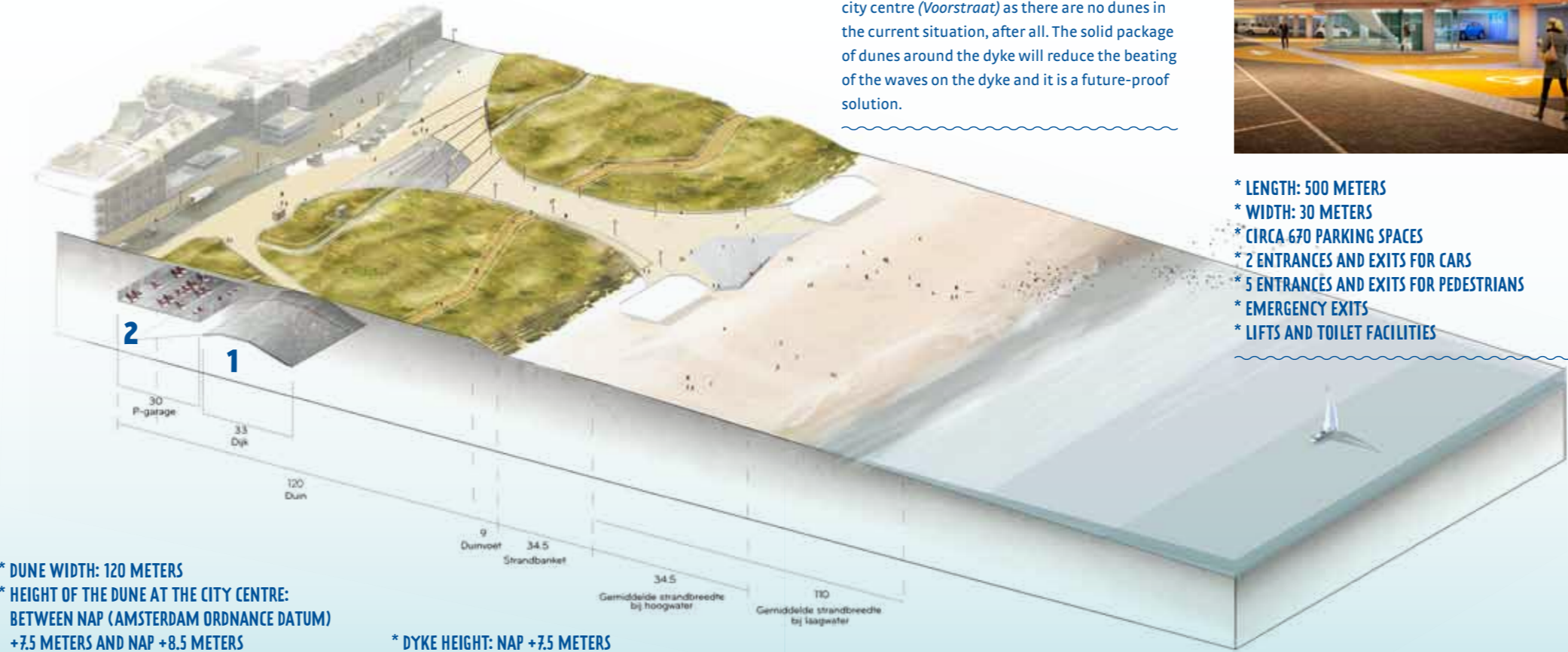
A part of the Katwijk embankment runs through the city centre. This part does not meet with the safety standards. In case of a super storm, combined with a very high water level, the centre of Katwijk can get flooded. Via this vulnerable spot, the water is at full liberty to put large parts of the Randstad (conurbation) under water. That is why there is going to be a new, stronger weir. Everyone can thus keep dry feet: the hinterland is being protected against flooding and the centre of Katwijk is inside the dyke area.

#### READY FOR THE FUTURE

Katwijk's coast is going to have substantial changes because of the work. This is necessary to make Katwijk ready for the future. By constructing an underground parking garage, there will be more space to park cars, and wider dunes offer more opportunities for recreation. The consequences for Katwijk, its residents, businesses, recreation and wildlife have been taken into account in the plans. The preservation of the character of Katwijk is crucial when performing the Dyke-in-Dune. The dunes will therefore remain as low as possible and the distance from the Boulevard to the sea will remain as small as possible.



## A DYKE IN THE DUNES AND A PARKING GARAGE



- \* DUNE WIDTH: 120 METERS
- \* HEIGHT OF THE DUNE AT THE CITY CENTRE: BETWEEN NAP (AMSTERDAM ORDNANCE DATUM) +7.5 METERS AND NAP +8.5 METERS
- \* HEIGHT OF THE DUNE NORTH AND SOUTH OF THE CITY CENTRE: NAP +10 METERS TO NAP +11 METERS. DIRECTIVE IS THE HEIGHT OF THE BOULEVARD.

- \* DYKE HEIGHT: NAP +7.5 METERS
- \* DYKE LENGTH: 900 METERS
- \* LENGTH TOTAL REINFORCEMENT: 1500 METERS
- \* TOTAL VOLUME OF SUPPLEMENTED SAND: CIRCA 3 MILLION CUBIC METERS

#### 1. DYKE-IN-DUNE

Facing the sea from the Boulevard, the parking garage will be located at the current dunes. The dyke is constructed seaward from it. It will be a dyke of sand, lined with stones. The new, wider dunes will be on top of that. As a consequence, the beach moves, but keeps the same width as it currently has. The widened dunes will not be higher than in the current situation. Where lower dunes are possible, it will be realized. The dunes will be higher at the height of the city centre (Voorstraat) as there are no dunes in the current situation, after all. The solid package of dunes around the dyke will reduce the beating of the waves on the dyke and it is a future-proof solution.

#### 2. PARKING GARAGE

Between the Dyke-in-Dune and the Boulevard, an underground parking garage will be built. This allows residents and tourists to park within walking distance to the beach and the city centre. The parking garage will be incorporated in the dune as much as possible. The parking garage and the Dyke-in-Dune are separate from each other, but will be constructed simultaneously.



- \* LENGTH: 500 METERS
- \* WIDTH: 30 METERS
- \* CIRCA 670 PARKING SPACES
- \* 2 ENTRANCES AND EXITS FOR CARS
- \* 5 ENTRANCES AND EXITS FOR PEDESTRIANS
- \* EMERGENCY EXITS
- \* LIFTS AND TOILET FACILITIES

## SPATIAL LAYOUT



Future beach access at the city centre (Voorstraat)



Impression of the dune boardwalk

- A footpath runs through the wide dunes from north to south with a sea view. Benches along this shell path and lookout points allow the opportunity to take a break. At the height of the city centre, the path is widened to become a dune boardwalk, with a view of the sea across the full length.
- All beach pavilions will have their own beach access. There are four extra wide beach accesses at the height of the city centre. This way, the centre of Katwijk and the beach remain connected.
- Disabled person can reach all lookout points in the dunes and the dune boardwalk. The beach is also accessible for the disabled via six, less steep, beach accesses.
- The central beach access at the city centre (Voorstraat) will be a meeting place for the people from Katwijk. There will be a square at the Boulevard. There will be room for a beach plaza on the beach side that could be enlarged for eventual events.
- A square for small-scale activities will be constructed south of restaurant De Zwaan. If there is no activity, this square can be used for parking. The DunaAtelier will also get a space here. The square is located in a lower part of the dunes; the dunes are furnished with seating elements.
- Young and old can have fun north of restaurant De Zwaan on a play and chess square.

## ACCESS TO THE BEACH

The coastal work starts on 1 October 2013. From then on, you can only reach the beach and the dunes via the beach accesses at the north and south sides. The Boulevard will remain open to traffic. The walking promenade will generally also remain accessible during the working activities. Due to construction along this promenade, it may be necessary that parts of it will temporarily be closed off.

### THE SAND SUPPLEMENTATION AND THE CONSTRUCTION OF THE DYKE-IN-DUNE MAKE A FASCINATING SPECTACLE. DO COME AND HAVE A LOOK!

The pavilions will be back on the beach again as from 1 April and the recreation season starts again. From then onwards you can again enjoy the entire beach once more! The pavilions will already be in their new place in front of the widened dunes. The work will continue. The contractor will therefore make every effort to keep the Boulevard and the beach accessible so that residents, visitors

and bathers can fully enjoy the Katwijk beach again.

#### TEMPORARY OTHER PLACE

The beach pavilion Zeepaviljoen will get a temporary place on the square south of restaurant De Zwaan during the execution of the work. The completion of this square will therefore only take place until 2015.

## PHASING

DATE	PHASE
From April 2013	Archaeological research will be carried out in anticipation of and during the working activities. This is to prevent that eventual special traces from Katwijk's rich past are lost forever due to the work at the coast.
Autumn/winter 2013/2014	Start of sand supplementation, construction of the Dyke-in-Dune, extension of load lines, parking garage and the final installation. The beach can be reached via accesses on the north and south side of the work site.
Spring 2014	The pavilions can be placed back on the beach again beginning April 2014 and the recreation season starts then. The beach pavilions will already be in their new place. Working activities in the parking garage and the spatial layout will continue. The Boulevard and the beach will still be accessible.
Spring 2015	The project is expected to be completed in the spring of 2015.

## INFORMATION CENTRE

Come and get to know everything about the coastal work in the information centre in the Waaier building, on the corner of the Boulevard and the Seinpoststraat. The centre is open from Tuesday to Friday from 13H00 to 17H00 and on Saturday from 10H00 to 17H00.

### ENJOY YOUR STAY IN KATWIJK!

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Beach pavilion

Rescue-squad Katwijk

Water sports association

DunaAtelier

Lighthouse

Restaurant De Zwaan

Play square

Entrance and exit parking garage (cars)

Witte Kerk

Dune boardwalk

Space for events

Location of the Dyke-in-Dune

Entrance and exit parking garage (cars)

Footpath from north to south

Hotel Savoy

Rescue-squad Katwijk and police

Load lines

Voorstraat