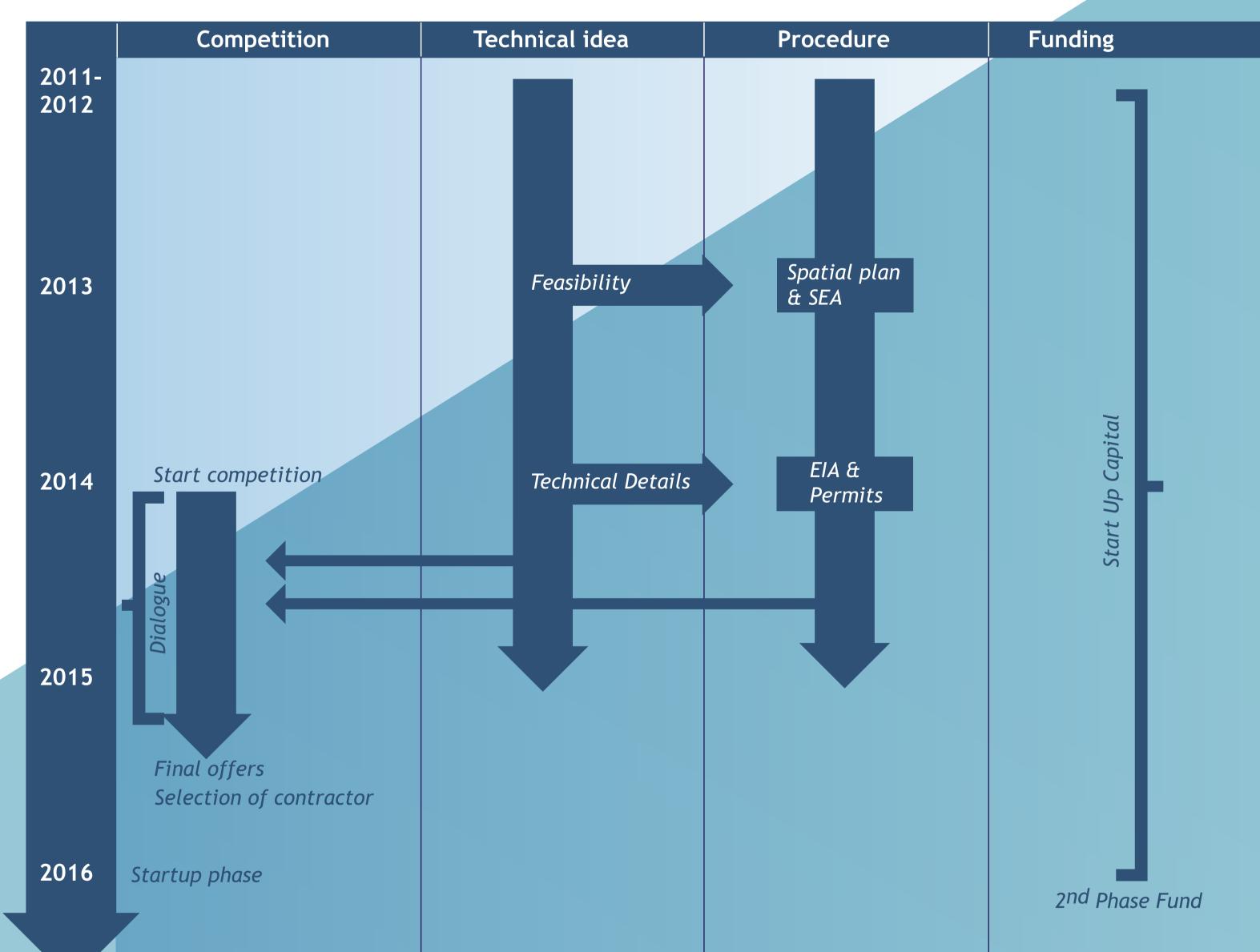


Enkhuizerzand Hoornsche Hop Oostvaardersplasser

Process

To make Marker Wadden become reality, Natuurmonumenten focused on both stakeholder management and fund raising. Royal HaskoningDHV was asked to assist and take care of the technical and procedural side of the project. In close cooperation with the Ministry of Infrastructure and Environment, Natuurmonumenten and Royal HaskoningDHV are currently working on the selection of a contractor to build the 1st phase of the Marker Wadden.



Houtribdijk , Lelystad, Netherlands

The Next Step

Technical approach 1. The atoll consists of a reef structure and smaller compartments which are mainly build with sandy material.

the mud and other soil materials from the Markermeer lake bed.

Natuurmonumenten as nature conservation organization aims to solve the enormous mud

problems in the Markermeer. Therefore they developed the extraordinary idea of building the

Marker Wadden, a string of new islands and coastal habitats in the Markermeer. These are

located along at the east side of the Markermeer. Supported by contributions of the Dutch

Postcode Lottery Dream Fund and in pro-active cooperation with other stakeholders, 10.000

In the first phase of the project, mud will be used to build 1000 hectares of new atolls consisting

of shallow lagoons, mud flats, large reed fields, and beaches. Also an underwater landscape

of mud trenches and deeper sand pits is created. To protect the Marker Wadden against ero-

The development of the Marker Wadden diminishes the problem of floating mud throughout

the Markermeer. By doing this the ecological status of the lake will be improved. Flora and

fauna, mussels, zooplankton, benthos and fish (Spiering) will thrive, reinforcing the ecosys-

In this new nature paradise, the White-tailed sea eagle, the Osprey, the Red-crested pochard,

the Black stork and the Dalmatian pelican will hopefully reclaim their breeding grounds in the

They not only create new nature but also offer experience for water sports enthusiasts and

holiday-makers. By doing this, the economic value of the area increases and the local econo-

sion by the dominant south-western winds, an artificial reef construction will be developed.

hectares are designated as water and nature area.

New nature

Ecological recovery

tems' functioning!

Bird paradise

Netherlands.

Recreation area

my around the Markermeer will benefit.

The collected mud is transported hydraulically via pipeline to the compartments where it is used to develop the mud flats and reed fields within the atolls.

2. Shallow lagoons and marshes are created by filling the compartments of the first atoll with 3. By digging trenches, sediment will accumulate naturally in these depressions.

- The realization and construction works of the Marker Wadden will start in 2016. The following steps will be implemented:
- 1. Mining of sand for building the reef and the compartments,

hydraulic engineering: Building with nature!

- 2. At the same time the mud accumulation trenches will be made,
- 3. As soon as the first compartment is ready for use, accumulated mud will be transported to build the lagoons, reed fields, shallow water areas and mud flats.
- Since there is still a lack of knowledge on specific topics monitoring will be started as soon as the realization of the project starts. • Continued fund raising will be carried out in order to come to the next step in the development of the Marker Wadden.

Marker Wadden will be extracting and salvaging mud in a novel way. A project with international standing, both for nature itself and for Dutch

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