

# Deichpark Elbinsel

is a dialogue process, a mediation project and an ideas forge

The "Deichpark Elbinsel" ("Dyke Park Elbe Island") project was developed in a cross-authority and open public process, and stands as a model for the theme of urban development and climate change; how can cities combine necessary infrastructure investment for climate adaptation with the development of high-quality public spaces on the waterfront and, in doing so, make a major contribution to the quality of life in cities?

The different issues and approaches to the theme of flood protection were identified in a cross-public authority dialogue process. The name Deichpark alone, which couples infrastructure measures with the attributes of a park, gave ample impetus to inter-disciplinary discussions about the future of Hamburg's flood control and finds a common language. IBA Hamburg is the client and mediator that has brought together the different flood protection stakeholders and town and landscape planning in Hamburg with the aim to jointly develop formats and concepts, to find ideas for integrated flood protection solutions and draw public attention to this issue.

Everyone should have an opportunity to experience the tides.

HPA  
Hamburg  
Port Authority

In particular, the discovery of scope in the legislation provided opportunities for adapting flood control systems for the future.

IBA Hamburg  
International Building  
Exhibition

Safety first!

LSBG  
Roads, Bridges and  
Waterbodies Agency

The Deichpark is a forward-looking project that considers dykes as part of the townscape.

Ministry for Urban Development and Environment, Department for Flood Control

The Deichpark creates identification points for living near water while living behind the dyke.

KLIMZUG-NORD  
TuTech Innovation  
GmbH

The Deichpark can make a valuable contribution to recreating awareness of a shared responsibility for a collective effort to secure the existence of the community.

BSU  
Ministry for Urban Development and Environment, Department for the Leap Across the Elbe

People must recognise experience and understand the danger of storm tides.

Dyke Association  
Wilhelmsburg

Stakeholders in the dialogue process: the Deichpark study is a compilation of all the different positions and their productive influence

Dialogue process 07/2010 - 08/2011, to be continued



Report: 05/2011

Deichpark study



Opening: 05/2011, to be continued

interactive travelling exhibition



Symposium: 04.-06.05.2011

IBA/HCH Lab

Report: "Hamburg's urban coast - challenges for urban development and flood control"



Start of construction: 03/2012

Deichbude (dyke hut)

exhibition pavilion, documentation centre  
Client: HPA

Formats of the Deichpark project: cross-public authority dialogue process and the study served as the basis for an interactive travelling exhibition promoting good publicity for a "Lab", for an ideas workshop open to experts and citizens and for a first flagship construction project to communicate the Deichpark concept: Deichbude (dyke hut) on one of the sluice buildings on the Elbe Island.

## The Deichpark makes flood control easy to understand

The Deichpark study looks at three scales of flood control in Hamburg: "L for large: the coastal city Hamburg" explains Hamburg's unique landscape character. "M for medium: Hamburg's dyke landscape" looks at the history of flood control in the city. "S for small: Hamburg's dykes" explains the reasons and regulations which determine the appearance of protective structures.

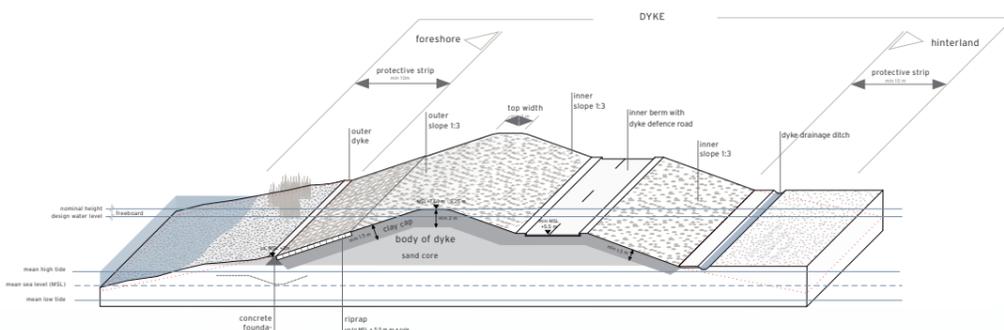
One of the objectives of the Deichpark project is to make the general public aware of the regulations and reasons for the appearance of the flood protection landscape.

How did the dynamic island archipelago develop into the Elbe Island? Why are there no trees and flowers on the dykes? Why should I not destroy the sward? Why are there no buildings on the dyke? How do sheep maintain dykes? Why do I need to understand the tides in order to live safely on the marshland?

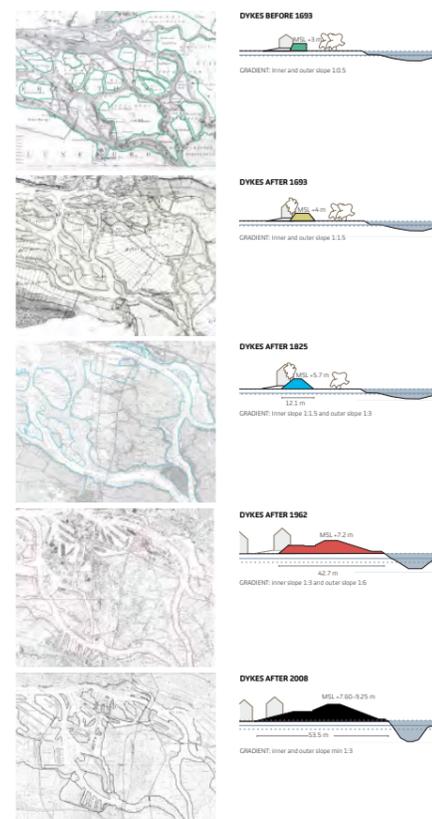
The Deichpark gives easy answers to all these questions and offers them to the public for example in an interactive exhibition and with postcards.



Evolution of the dyke lines in Hamburg



typical cross-section through a dyke, a mono-functional and highly regulated technical structure



the evolution of a dyke's profile and cross-section

Concept and design:

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# The Deichpark reinterprets flood control as part of the townscape

**The Deichpark is already in existence! The Deichpark project examines the spatial character of defensive landscapes on the Elbe Island and emphasises the features of the park's flood control infrastructure.**

The 27-kilometre long main dyke line meets the highest technical standards and safety requirements to provide the Elbe Island with the ultimate in protection. At the same time, the protective structures are special places on the waterfront. People want to cross over them to get to the Elbe whilst relying on them for their protection from the river's destructive force. The Deichpark Elbinsel project addresses precisely this dichotomy and finds integrated solutions for the future that combine flood control with town and landscape development. The spatial image of the Deichpark is informed by a pre-existing situation, reinterprets it whilst pointing the way to a possible future of the landscape areas along the ring dyke.



Spatial image of the Deichpark + activities



# The Deichpark presents ideas for now and for the future

Ideas studies and international project examples show forward-looking approaches for the design of flood control systems as multi-functional elements in the townscape.

## Experience safety

Ideas studies under the heading "S for experiencing safety" describe how the experience of the dyke landscape can already be enhanced. New communication and mediation strategies are proposed.

### Use existing structures!



### Create viewpoints!



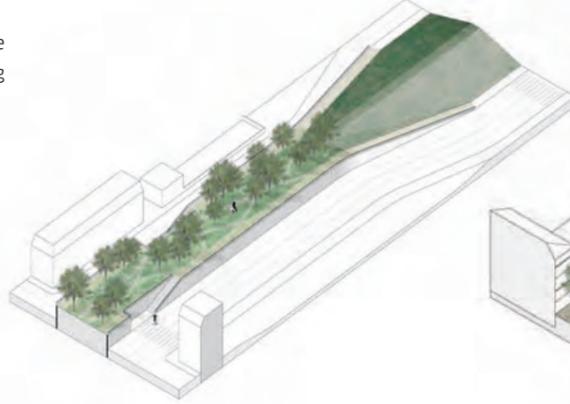
### Access to water!



## Maintain growth

"M for maintaining growth" looks at how the height of dykes can be raised without severing the city from the waterfront.

### Make height a quality!



### Develop the city!



### Use new tidal landscapes!



## Rethink lines

"L for rethinking lines" looks at alternative protection strategies further to Hamburg's dyke lines and discusses them on the basis of ideas and reference projects. All proposals come up with new dyke typologies that help to make the Deichpark a vibrant space.

### Storm surge relief polder controlled with gates



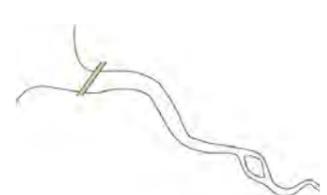
### Overflowable dykes and cascading flood polders



### Islands in the Elbe estuary



### A barrage in the estuary



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