

# For a dynamic riverscape



Habitat Creation in the Tidal Elbe

4th IMMERSE Transnational Estuary Exchange Lab

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### **Contents**



- 1. Who are we...
- 2. What are we doing...



Independent Foundation under Public Law (since 2010)

Founder: State of Hamburg

Goal: To Enhance the Ecological Status of Tidal Elbe

Financed by Port Fees and Flood Protection Budget





### The foundation board of trustees:

5 representatives of NGOs

5 representatives of port, economy, senate

1 independent chair







### <u>Underlying philosophy:</u>

- 1. Elbe users finance ecological enhancement
- 2. Building bridges between societal clashes via
  - taking responsibility
  - closest cooperation of stakeholders of conflicting interests

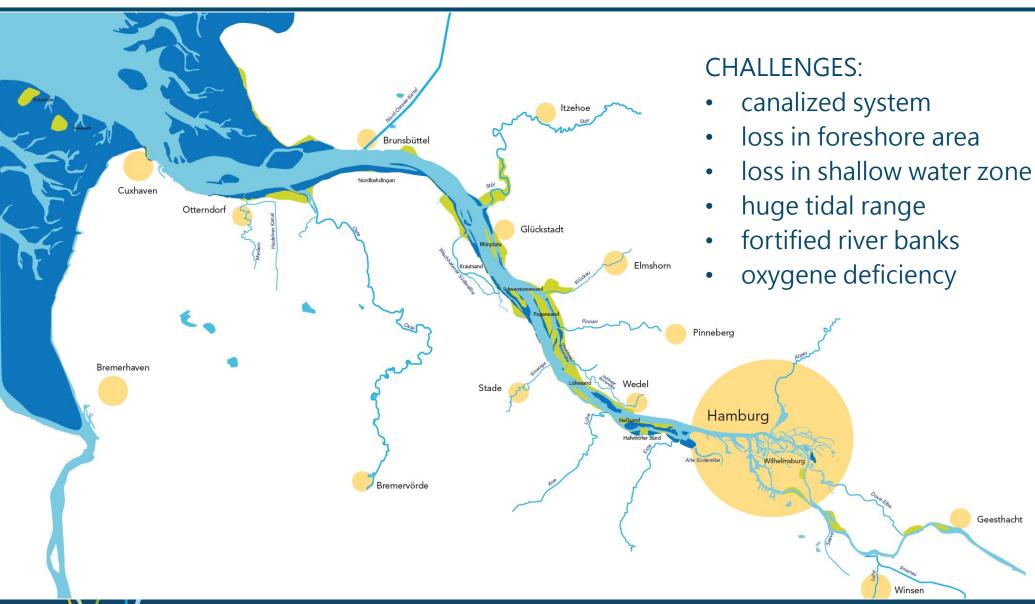






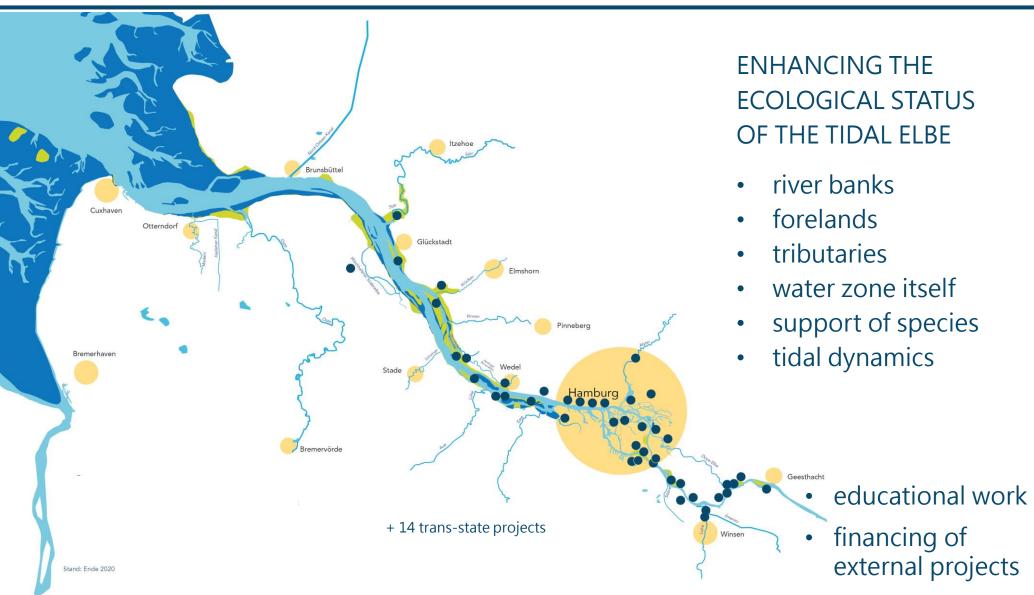
## **Dramatic Loss in Habitats and Species**





#### **Foundation Goal**





# Implementing Projects.....





- more than 120 projects were implemented, are being implemented or in planning
- more than EUR 10 m spent for projects
- more than EUR 2 m spent for land acquisition

# **Restoring River Banks**







- Analysis: Possibilities in Hamburg
- Holzhafen
- Schweenssand
- Juelssand

- Rhinplate
- Lühesand
- Altengammer Elbwiesen
- Bunthäuser Spitze



# **Project Holzhafen**





Goal: restore the river bank

Status: finished





# **Dismantling of Revetments - Effects**









## **Restoring Forelands**









- Wittenbergen
- Obergeorgswerder
- Wrauster Bogen
- Rönner Werder

- Altengamme
- Kirchwerder
- Bunthäuser Spitze

- Neßsand
- Pagensand
- Juelssand



# **Restoring Forelands - examples**



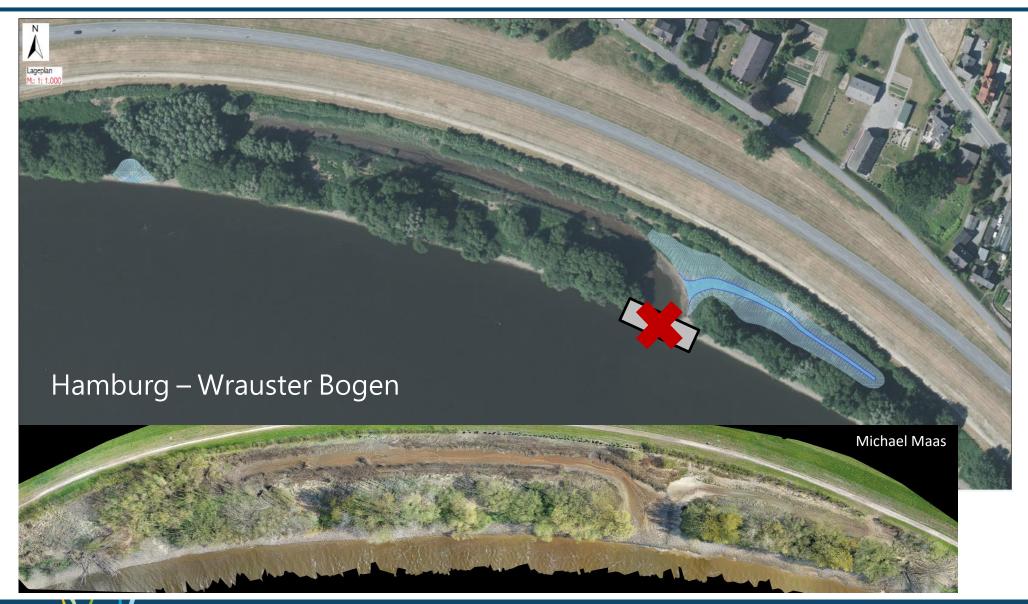




Hamburg - Obergeorgswerder

# **Restoring Forelands - examples**





# **Restoring Forelands - examples**





# **Restoring Tributaries**







- Luhe
- Wedeler Au
- Alster

- Pinnau
- Ilmenau
- Roddau

- Krückau
- Stör

# **Restoring Tributaries - Example**





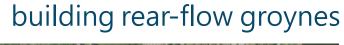




## Restoring the Water Zone - Examples







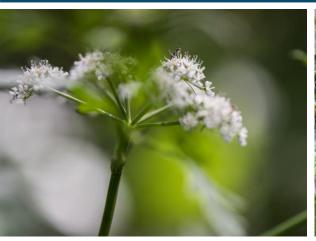


- Creating swimming landscapes above and below water
- Restoring groyne fields



# Support of Species: Elbe-Water Dropwort









- Protecting existing sites
- Finding new sites
- Developing new sites

- Cultivating the plant artificially
- Planting out the plant

# Changing the Tidal Dynamics - Forum Tidal Elbe



#### **Lessons learned:**

Large-scale measures only go well, if

- ✓ Serious political intentions
- ✓ External drivers (impacts, etc.)
- ✓ Other stakeholders benefit



## Changing the Tidal Dynamics - Forum Tidal Elbe



#### Goals:

- Institutionalised dialogue
- Knowledge transfer
- Large scale-restoration measures
- 2016 2020



### Participants (60):

- Port Authorithies
- Federal waterways and shipping administration
- State Ministries (environment and economy)
- Administrative districts
- Associations of cities and towns
- Economy associations
- Unions
- Water boards, farmers associations
- NGOs
- Fishing and angling associations
- Sailing associations
- Tourism
- Elbe Habitat Foundation

# Changing the Tidal Dynamics - Forum Tidal Elbe



#### Goals:

- Institutionalised dialogue
- Knowledge transfer
- Large scale-restoration measures
- 2016 2020



#### Outcome:

- Institutionalised dialogue
- Knowledge transfer
- 3 suggestions for large scalerestoration measures

#### Conclusion

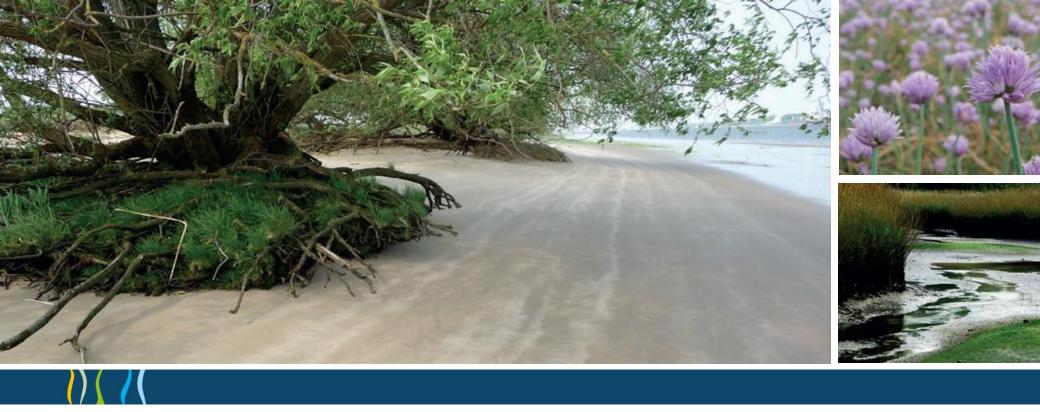


#### Elbe Habitat Foundation:

- A communication project
- Aiming for restoration measures financed by users
- An accepted and respected organisation in the three states bordering the Elbe River







Thank you for your attention!