



# Architecture and roadmap to manage multiple pressures on lagoons and estuaries



## Stakeholder Communication on Sediment Issues – A Waste of Time? Experiences from the Elbe Estuary

**8th international SedNet conference 2013**

# Sediment Issues

Securing navigability

Ecology

Sediment quality

Sedimentation

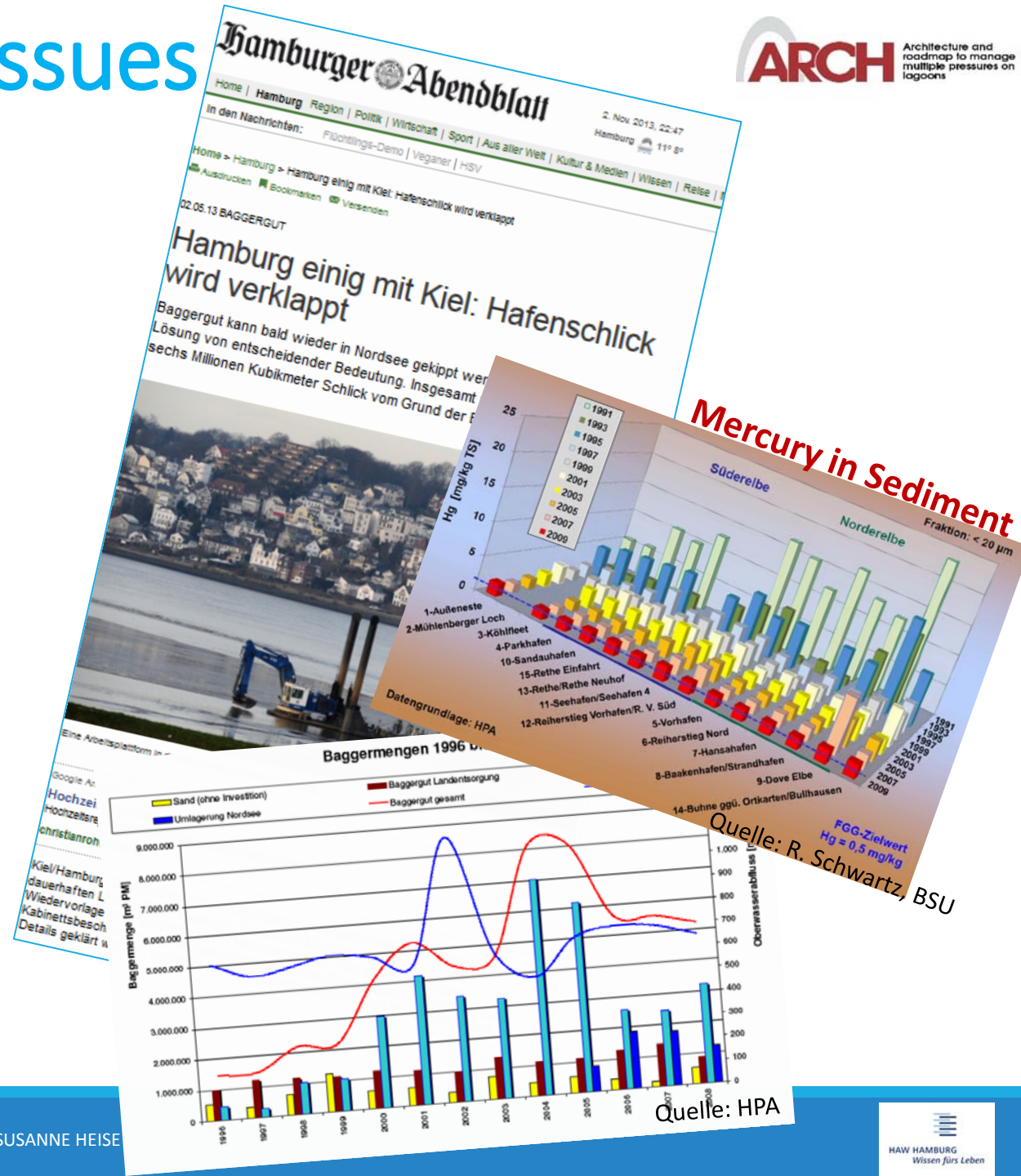
Amount of dredged material

Longterm solution for deposition or treatment of dredged material

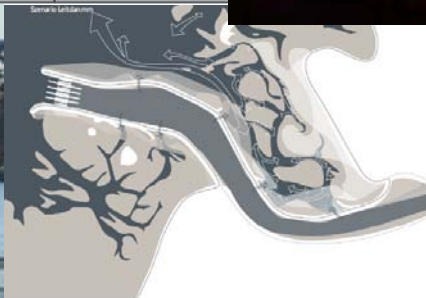
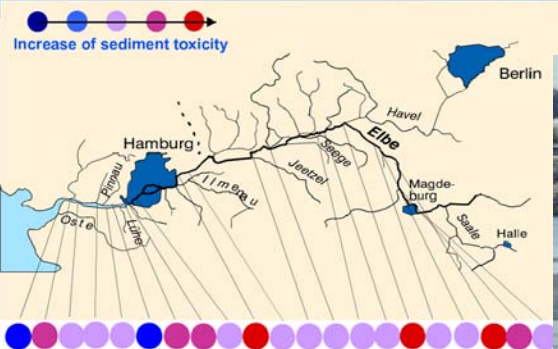
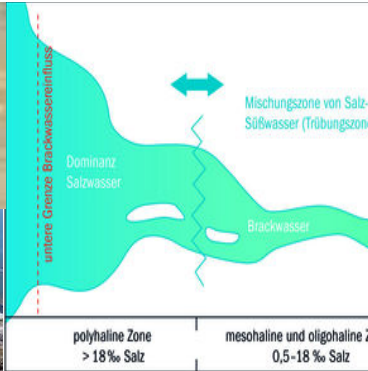
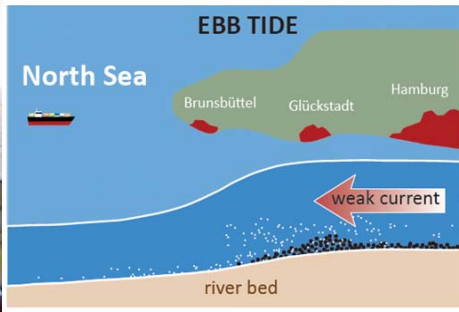
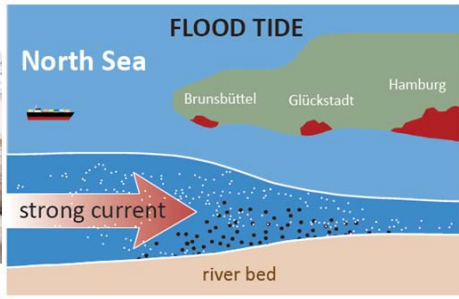
Where?

Complex processes

Costs



# The Elbe Estuary – a complex System



**Elbfischer schlagen Alarm: Sie holen nur tote Aale raus**

## Communication enables

- Exchange of information
- to avoid or clear up misunderstanding
- Resolution of conflicts
- Understanding of connections
- Negotiations
- Compensation of interests
- Acceptance of decisions



„What if, and I know that sounds kooky, we communicate with other stakeholders?“

## Rules of good communication

# Basis for Communication

## Tidal-Elbe – People's Perception of a Cultural, Ecological and Economic Area

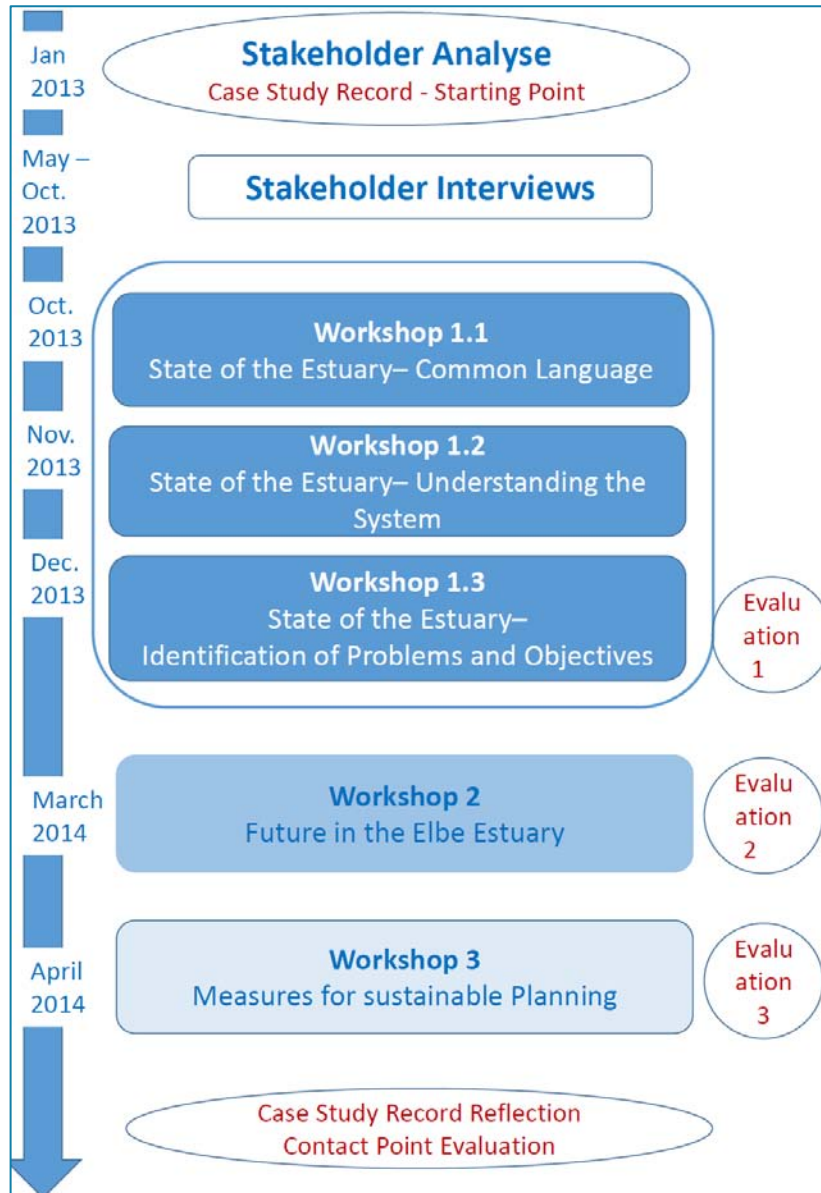
B.Ratter, B. Weig, Hamburg 2012

### What is an estuary?

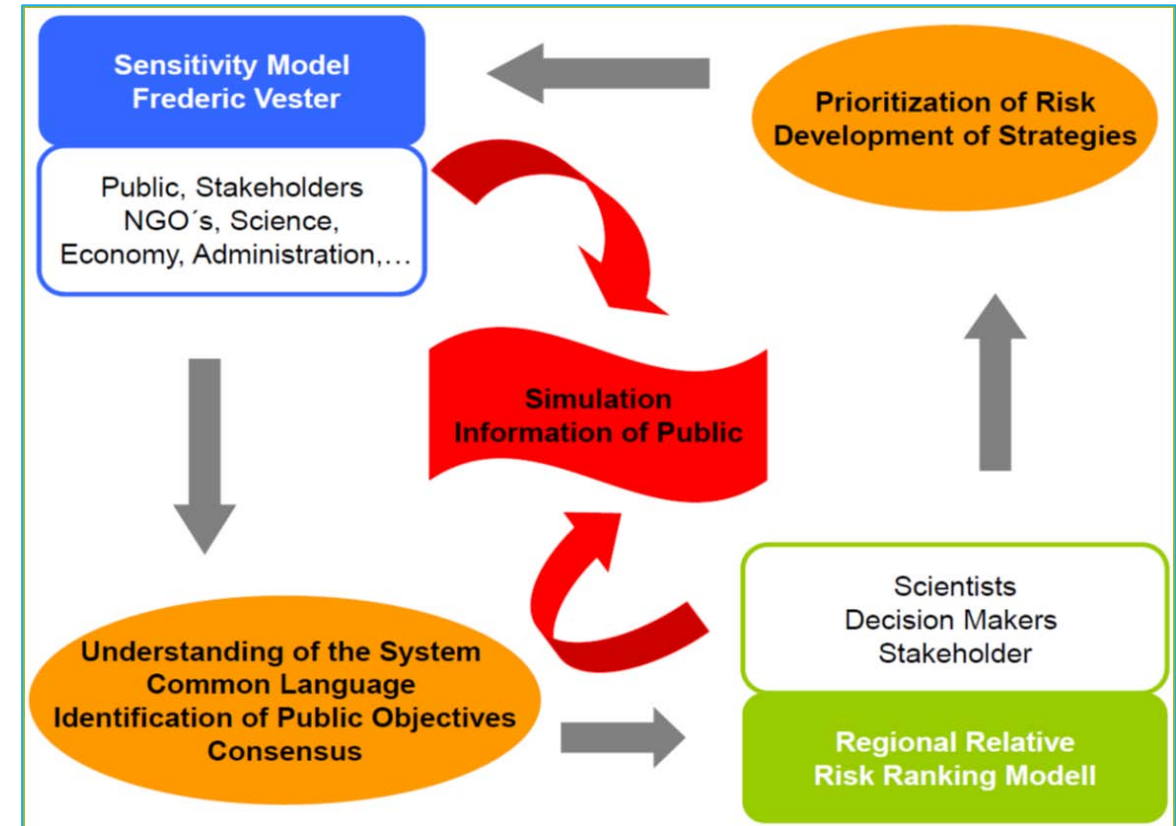
- |  |        |
|--|--------|
| a) A tool to measure flow velocity                     | 66.1 % |
| b) A native bird species                               | 7.3 %  |
| c) A part of the river which is influenced by the tide | 23.5 % |

### Common language for communication





## SIMACLIM - a Communication and Management Tool for Complex Systems



# Stakeholder Analyses

3 Federal States

Hamburg, Lower Saxony, Schleswig-Holstein

100 Stakeholder Groups

local, regional, national

Chamber of commerce  
Fishing associations  
Environmental associations  
Tourism associations  
Industry  
National Farmers' Union  
Environmental authorities  
Water boards  
Research institutes  
Waterways and Shipping Directorate  
Economical authorities  
Media  
Chambers of agriculture  
Promotion of economy  
Lawyers  
Politics  
Foundations  
Consulting engineers  
Harbour authorities  
Dyke associations  
Citizen groups

## Master Plan for the Elbe Estuary is necessary

Questions about:

- Affinity with the estuary
- Perception of the region
- Planning and management in the estuary
- Education and science
- Vision of the future
- Workshops

Main conflicts are about space and land use

Decisions are not transparent

Public participation needs improvement

Decisions are driven by political will, not by sound science

Improved involvement of science



### Planning and Management in the Elbe Estuary

The Elbe Estuary in People's Mind - A Barrier River or a Living City with many Bridges?

#### Interview Guide

The Hamburg University of Applied Science (HAW) is the German partner in the EU funded research project "River Architecture and Roadmap to Manage Multiple Pressures on Lagoons and Estuaries". The analyses of planning and management strategies in region with multiple pressures like lagoons and estuaries is the main goal of ARCH. A „citizen expertise“ as a recommendation for research and politics will be developed.

As a start for the evaluation interviews with stakeholders, who are involved in the development and implementation of the catchment of the Elbe Estuary. We are interested in the impact of planning and management strategies on you, your work and your life in the region.

Topic	Keywords and Concrete Questions
I. Beginning	
1. Portrait of the interviewee	<ul style="list-style-type: none"> <li>• Person, Institution</li> <li>• Project</li> <li>• Handling of interview results</li> <li>• Is it possible to mention you by name in our reports or do you want us to use your statements anonymous?</li> <li>• Do you agree with the recording of the interview?</li> </ul>
2. Part of the interview partner	<ul style="list-style-type: none"> <li>• Name</li> <li>• Company, Institution</li> <li>• Working area, area of activity, function</li> </ul>
3. Analyses of the relationships	<ul style="list-style-type: none"> <li>• Please tell me spontaneously three terms that you think of, when you hear Elbe River?</li> <li>• What is your relation to the Elbe Estuary?</li> <li>• How do you use the Elbe Estuary personally?</li> <li>• How important is the Elbe Estuary for you?</li> <li>• How often do you cross the Elbe River and why?</li> </ul>



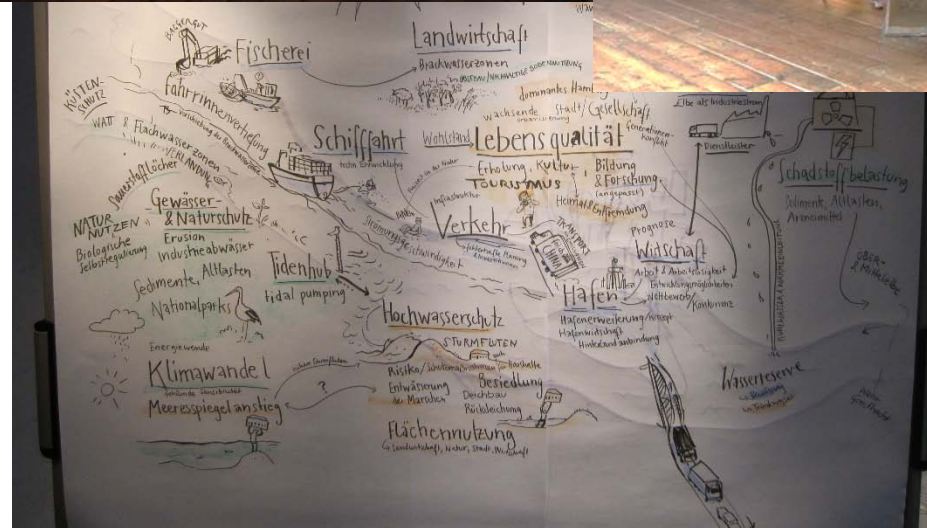
# Workshop 1 „State of the Estuary“

Where are the problems ?  
 What can you do about it ?  
 What depends on it ?  
 Where are the limits ?  
 Who is against and why ?  
 What should be preserved ?  
 What is supporting the system ?  
 What is its peculiarity ?

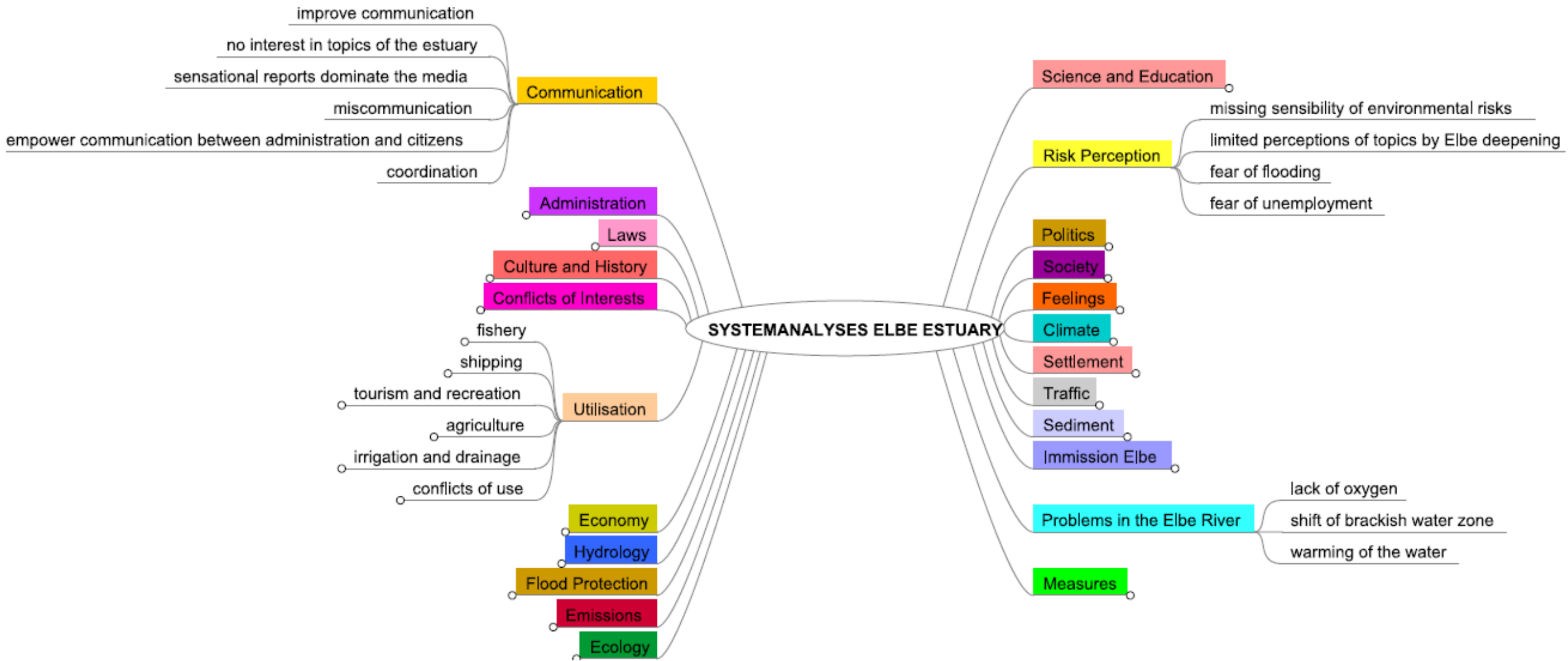


### The 7 aspects of a complex system

- 1 Who is part of the system?
- 2 What are they doing?
- 3 Where does it happen?
- 4 How do they feel?
- 5 How does it effect environment?
- 6 How is it organized?
- 7 After which laws and rules?



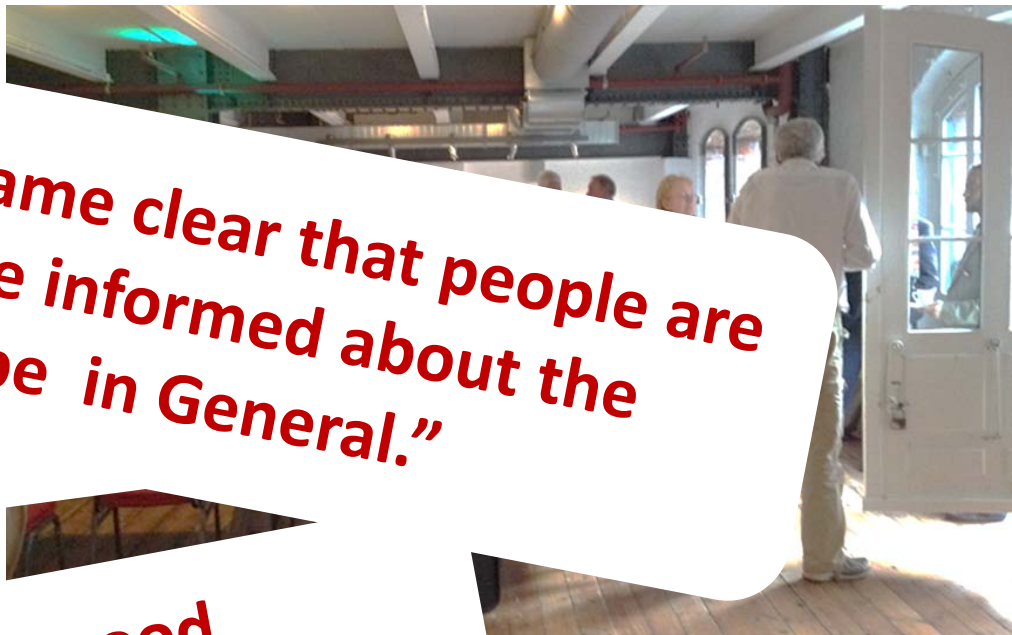
# System Description




# Voices of Participants



**“Statements and contributions of participants helped to improve knowledge.”**



**“It became clear that people are too little informed about the tidal Elbe in General.”**



**“The chosen method provides a good possibility, to keep a relatively neutral perspective/view on the system.”**

An aerial photograph of a wide river delta system. The river flows from the bottom left towards the top right, branching into several smaller channels. The water is a deep blue-grey color. On the left side, there is a large green area that appears to be a golf course. The surrounding land is a mix of green fields and some buildings. In the far distance, a city or town is visible under a clear blue sky.

**Thanks to the workshop participants**

**Thank you for your attention**

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