

Joint Fact Finding - Work Package 3

Stakeholder Involvement at the Weser

Holger Rahlf, Reiner Schubert (BAW)
Frank Ahlhorn, Jürgen Meyerdirks (KuR)

Goal

- Working on solutions serving the prioritised problem of salt water intrusion
- Identification of all relevant stakeholders concerning the issue of salt water intrusion
- What are their demands, experiences, opinions, visions
- Generate output referring to the application form using the DPSIR approach

Work Package 3 - Workflow

Workpackage 3

Activities EU	1) Problem identification		2) Impact identification			3) Transnational Workshop (TWS)	4) Identification of existing solutions	5) Documentation & evaluation of existing solutions	
DPSIR-Step	Driver	Pressure	State	Impacts		Responses			
Step WP3	1	2			3	4	5		
Contents / Action	Identification of the most important Driving forces and Pressures in the estuaries	Identification of the prioritised Pressure for the estuaries	Complete DPSIR framework for the estuary executing the prioritised Pressure	Description of status quo of physical / ecological system and values, opinions, experiences of stakeholders	Correlation of impacts and affected compartments in the ecological and socio-economic system	Identification of existing Responses of legal frameworks and individual adaptability	1) Analysing deficits reflecting the gap between user demands (State) and Responses. 2) Identify promising Responses	Identification of appropriate Responses	Identification and evaluation of options identified by the partner countries to cope with the pressures
Input WP 3 lead			Templates prepared by WP 3			Synopsis of the completed DPSIR frameworks of the estuaries	Synopsis of TWS. Analysing Responses by project phase approach	Synopsis of aggregating analyses of the identified options for action	
Output partner	List of the most important Driving forces and Pressures	Prioritised Pressure	Complete DPSIR framework for the identified prioritised Pressure	List of system compartments affected. List of demands, opinions of stakeholders	List of Impacts (ecological, socio-economic)	List of Responses delivered by law and guidelines or alternative land use pattern	Feedback to Synopsis. List of deficits. List of promising Responses	Reviewed lists of deficits and promising Responses	Identification of stakeholders becoming shareholders
Deadline	January 2014	February 2014			May 2014	June 2014	July 2014		

30.06.2014






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Carried out with one Pressure per Estuary most promising for stakeholders willing to become shareholders

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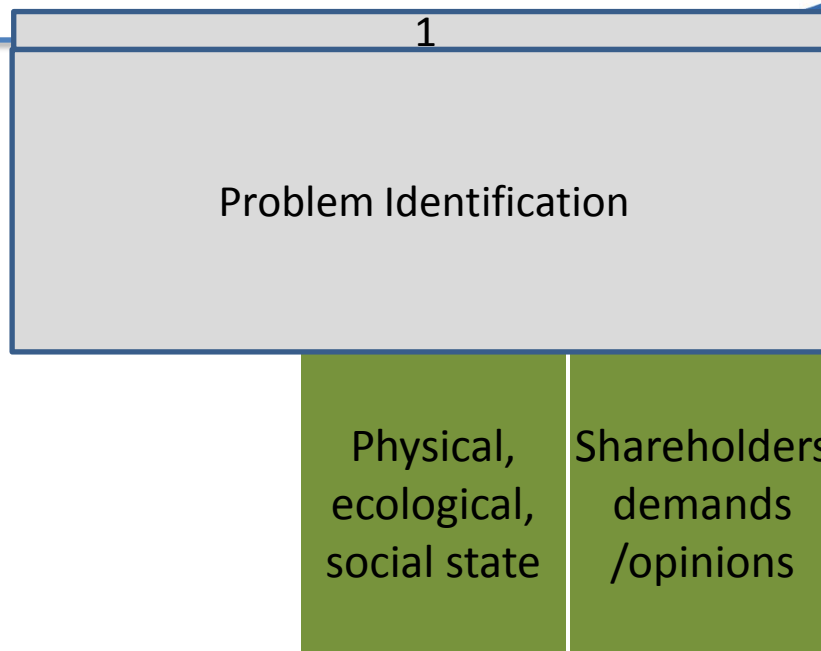
WP 3 Workflow

Workpackage 3

1) State identification	2) Impact identification		3) Transnational Workshop (TWS)	4) Identification of existing solutions	5) Documentation & evaluation of existing solutions
State	Impacts	Responses			
2			3	4	5
<p>Complete DPSIR framework for the estuary executing the prioritised Pressure</p> <p>Description of status quo of physical / ecological system and values, opinions, experiences of stakeholders</p>	<p>Correlation of impacts and affected compartments in the ecological and socio-economic system</p>	<p>Identification of existing Responses of legal frameworks and individual adaptability</p>	<p>1) Analysing deficits reflecting the gap between user demands (State) and Responses. 2) Identify promising Responses</p>	<p> Identification of appropriate Responses</p>	<p>Identification and evaluation of options identified by the partner countries to cope with the pressures</p>
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30.06.2014	February 2014	EMOVE - WP3 - International Final Workshop		May 2014	June 2014
					July 2014

Complete DPSIR

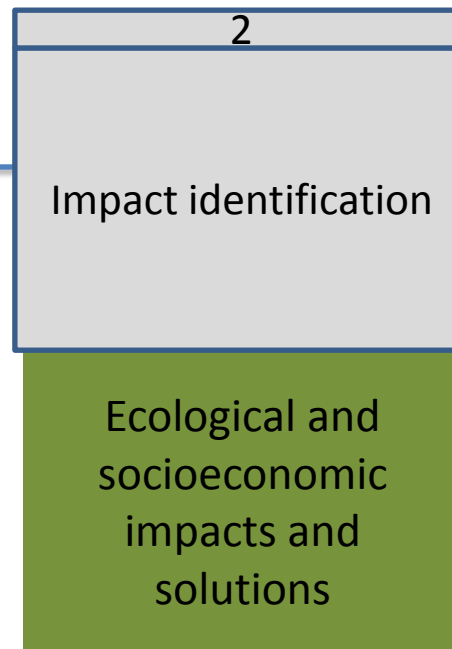
Description of the State



Driving force	Pressure	State				
	Saltwater-Intrusion	Com-part-ment	Ecology - System description	System description – parameter	Socio economic - Description user-demands	System description - parameter
Transport sector (Maritime Traffic)	Changes in morphology Encroachment	SW	Hydrology	tidal curve, runoff, water-level, seasonal change	sufficient depth of waterways	Development of anabranches (siltation)

Complete DPSIR

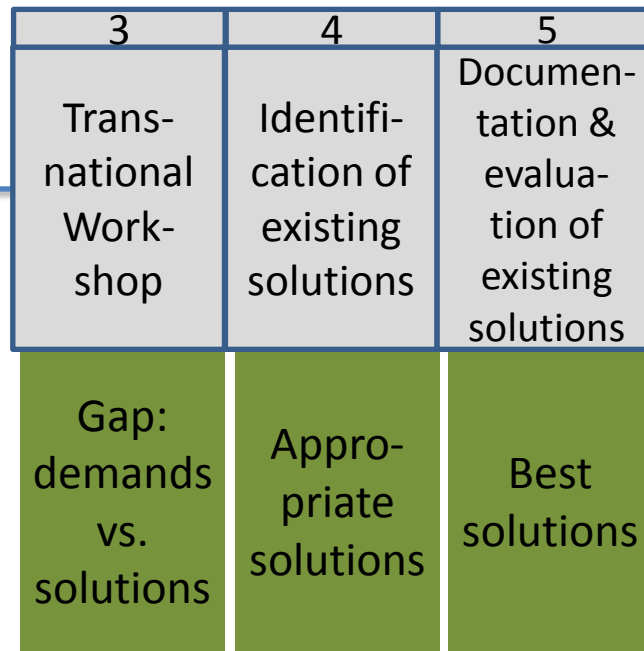
Description of the impacts



Driving force	Pressure	Impacts				
	Saltwater-Intrusion	Com-part-ment	Impacts on ecosystem	System description - parameter	Impacs on socio economy	System description - parameter
Transport sector (Maritime Traffic)	Changes in morphology Encroachment	SW	Changes of Hydrology	Changes of tidal curve, runoff, water-level, seasonal change, upstream encroachment of saltwater	Policy	Problems to reach QO of World heritage, WFD, Natura 2000, MAB

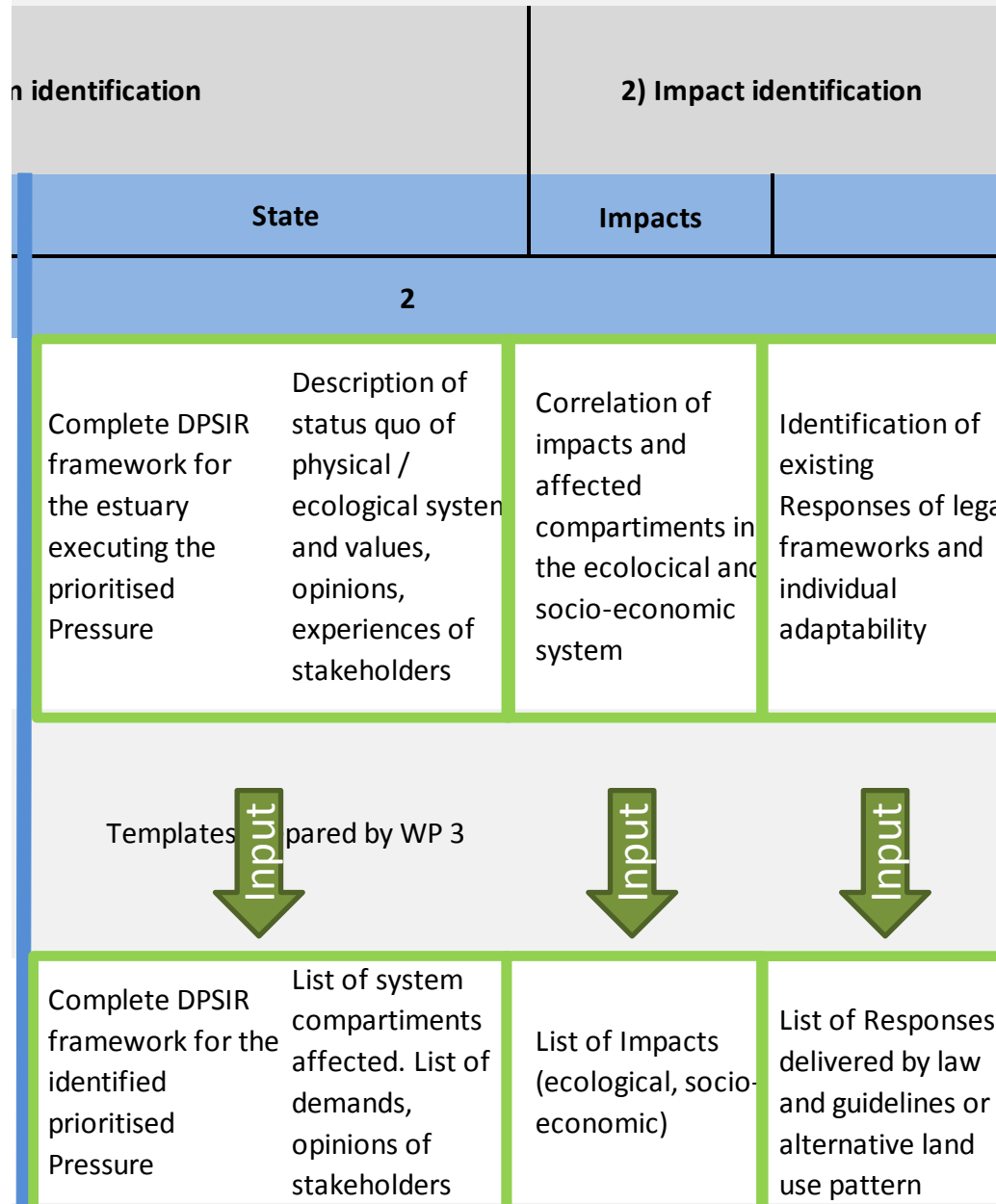
Complete DPSIR

Description of responses



Driving force	Pressure	Responses - Analyses		Responses - Assessment		
	Saltwater-Intrusion	Com-partment	Legal framework - laws, guidelines Regulations - (agency)	Use-dependent framework-individual adaptability	Legal framework - laws, guide-lines Regulations	Use-dependent framework-individual adaptability
Transport sector (Maritime Traffic)	Changes in morphology Encroachment	SW	WFD (NLWKN), planning approval of Weser deepening (WSA, ML)	Using alternative harbor (harbor economy)	Identification of gaps and bottlenecks in the planning process and deficits of adaptation strategies	

Workpackage 3



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Complete DPSIR framework

- Structure for stakeholder work
- to identify
 - System compartments effected
 - Stakeholder Demands
 - Impacts on ecological and socioeconomic system
 - Identification of existing Responses

Implementation of Stakeholder Work

- Structured Interviews with stakeholders
- Individuals or small groups of stakeholder represent-ing one user perspective
- Questions referring
 - System compartments
 - Stakeholder Demands
 - Impacts
 - Existing Responses

Documentation of outcomes

Synopsis of outcomes per user-perspective (e. g. water management)

- Compartments
 - Ditches
- Demands
 - Water for cattle
 - Freshwater in ditches ecology, hygiene
- Impacts
 - Salinisation of ditches
- Responses
 - Technical solutions: watering from Weser
 - Individual: Indoor housing animals

Identification of stakeholders

Complete list of stakeholders

- User – direct use demand

Agriculture, Harbour Authorities, Watermanagement, Industry (Import/Export, Water Supplier), Nature Conservation, Tourism

- Experts – administration / lobby

Chamber of agriculture, Nature conservation authorities, Wadden Sea National Park Authority of Lower Saxony, Lower Saxony Water management, Coastal Protection and Nature Conservation Agency (NLWKN), Federal Shipping Waterways and Shipping Administration (WSA)

Merging outcomes of different user perspectives

- **Input:**

Compartments effected, Impacts, Demands, Responses
for each User Perspective

- **Goal:**

Identification of the most pressing Impacts and the hardly
effected Compartments

- **Implementation:**

Matrix of Compartments and User Perspectives and the
Degree of importance of identified Impacts

Importance of Impacts

System Compartment	Surface Water						Ground Water
	Weser			Ditches			
Impacts	Shifting of saltwater Border				Waterquality	Water Volume	Quality
User Perspective	Limited freshwater from Weser	Increased Dredging	Corrosion of Infrastructure	Habitatshift or - loss	Increased Salinity	Reduced Water Level	Salinisation
Agriculture	+++	0	0	+	+++	+++	0
Watermanagement	+	0	++	0	+	++	0
Industry							
Habour	0	+++	+	0	0	0	0
Import/Export (Pier)	0	++	++	0	0	0	0
Groundwater	+	0	0	0	0	0	+++
Nature Conservation	+++	++	0	+++	+++	+++	0
Tourism	+	0	+	++	+	+	0

Output:

Identification of the most pressing Impacts reflecting all Users and Compartments

0 Without Importance
 + Importance low or indirect
 ++ High Importance
 +++ Very High Importance

Identifying Deficits

- **Input:**

Deficits named by Stakeholders as the gap between Demands (State) and existing solutions (Responses)

- **Goal:**

Identification of similarities of deficits according different User Perspectives

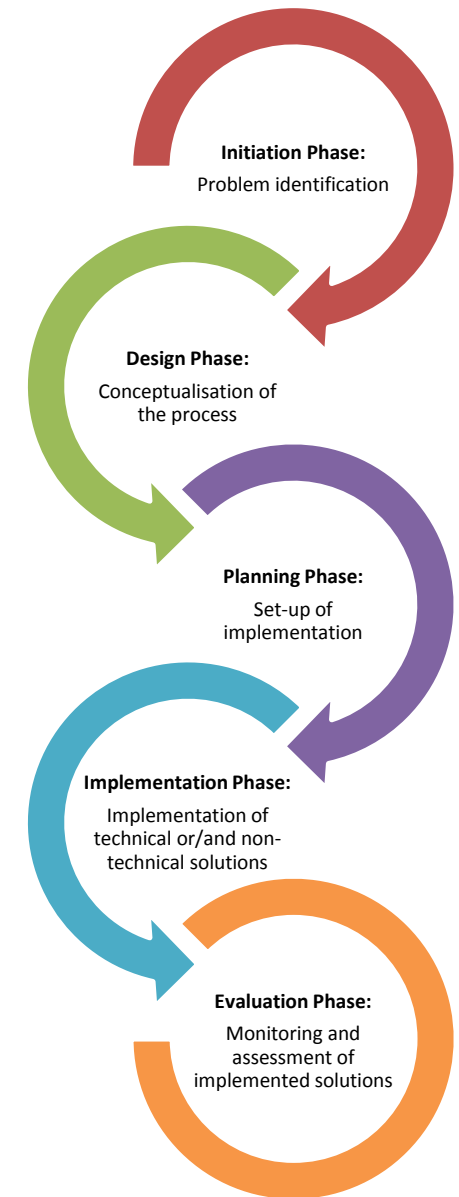
- **Implementation:**

Identification of gaps and bottlenecks in the planning process and deficits of adaptation strategies

Identifying Deficits in Planning

System Compartment	Surface Water Ditches		
Impact	Water Quality		
	Increased Salinity		
User Perspective	Agriculture		
Demand	Water for cattle / Ditches as separation		
Approach	legal Framework	Political Intention	individual adaptability
Time Schedule	short	long	short
Solution	Solution for avoidance	Masterplan Wesermarsch	Infrastructure (Pipeline, Fence)
Initiation Phase	X	X	X
Design Phase	X	X	X
Planning Phase	X		X
Implementation P.			X
Evaluation Phase			



Output: Identification of planning gaps for each User Perspective



Next Steps in

Stakeholder Work



- Documenting, merging, analysing the outcomes of interviews

3) Transnational Workshop (TWS)	4) Identification of existing solutions	5) Documentation & evaluation of existing solutions
Responses		
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Next Steps in

Stakeholder Work

- Documenting, merging, analysing the outcomes of interviews
- Discussing the outcomes with the stakeholders (WS in September)
 - Feedback to Synopsis
 - Identification of appropriate Responses
 - Evaluation of the Responses
 - Identification of stakeholders becoming shareholders by working on the implementation of Responses

3) Transnational Workshop (TWS)	4) Identification of existing solutions	5) Documentation & evaluation of existing solutions
Responses		
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