

Towards joint flood risk management in transboundary basins

Preliminary results of FLOOD-WISE



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### 1. FLOOD-WISE











### 1. FLOOD-WISE approach

3 phases addressing 3 different flood risk management tools:









## 2. Obstacles to flood risk management in transboundary regions

- How do you know whether your area is at risk, if the flood comes from abroad?
- Upstream should not shift it's problems downstream
- Measures in other country are more cost effective
- It is difficult to have an overview of all institutions involved on the other side of the border
- Conflicts of interests across borders
- EU / non-EU borders









# 3. Achievements towards cross border flood risk management – Elbe

Layer FRMC	Area of action	Objectives	Measures
	Precautionary	Flood adapted planning, construc-	// Flood adapted planning, construc-
5	bedding /	100 and renovation	ion and renovation of public build
/ E/3	Mary Dis	Flood proof storage of water haz- autous substances	ings and infrastructure Raising awareness, information,
Prevention	DIC.	Architectural, engineering and ar-	/advice programmes
\ ā	B	tisanal service	Conversion from oil to gas heating
4	// В	LGERN	Training programmes: Althougern
	Natural water re-	increase natural retention	Site-appropriate agriculture and 87.9
×137	struction	recovery of lost floodplains and     retention areas	Restoration of water bodies Martinski chen
17	Jogdhaui	Someth Someth	Recovery of floodolains
-1	C . well	PUSCHWARE WAR AND THE	Rainwater infiltration and use
- 11	Technical Flood	Reduce flood discharge to target	Construction of systems for the
	3,000	level	retention of flood water (continua-
- E	Protection	Flood protection	tion, acceleration, expansion)
Protection	78.00 ADO 2	<ul> <li>Safeguard/improve discharge ca- pacity</li> </ul>	Excavation in alluvial zones Floodgates, impounding dams
-1	198.2	party	Dikes flood protection walls, dams
1	1	上一类	1
	1 ( 1	7 January	Keeping clear flood discharge cross
1 A	- a Jawal	NEUSSEN	SECTIONS KOTTLITZ
	<ul> <li>Physical protection of buildings</li> </ul>	<ul> <li>Flood protection for individual prop- erties and sites at flood risk</li> </ul>	Measures for physical protection Raising awareness, information,
	100000000000000000000000000000000000000	CIOLS GITO SALS JA NOOD FLAN	advice programmes
-/F	Information	· Timely information and forecasts on	Set up or improve flood information
11 18	* Flood information	flood, water levels	and forecast service
1	and forecasting	<ul> <li>Issue warning as early as possible</li> </ul>	Establish/improve local warning
	<ul> <li>Flood warning</li> </ul>		systems
700	Hazard prevention	Detailed contingency planning	Updating contingency plan
	and civil protection 8	1.5 Resource planning	Organization of resources
2	Roudmitz 8	<ul> <li>Targeted preparation and instruction to minimize damage, targeted</li> </ul>	Trainings/practice exercises
1.		measures to prepare affected com-	Bors
-	118-1	munities	990
	VA 1 138	Deploy competent rescue workers     Provide resources and rescue work-	<ul> <li>training programmes and regular training</li> </ul>
Properedness	-7	ers	civil military cooperation
(	Precantionary be-	Raising awareness of flood risk	publication of hazard and risk maps
Zwuckel	Whaviour Jy 8921	Preparation for flood events	information via the media, publica
60.	Public awareness	Tues Very Tool	tion of information materials
100	and preparedness)		raising awareness, advice
1	HILL		Practice exercises for flood events
1	Protection against	- Financial profession	Raising awareness, information, advice
	risk		i Insurance
	Flood menonce	Further improve flood aftercare a for preventive flood protection	Aftercare planning
₹•			. Realism and examplament of mood
¥ €	(HQ 100-IS	( )	events
Emergency Response			<ul> <li>Identification of responsibilities and tools</li> </ul>
W 2	Priority are	a for preventive flood protection	
1///	(planned re	location of dikes out of HQ 100-	
-	Recovery	Further improve flood preparedness	Review and evaluation of flood
un un	W.		events
Zecoven,	Reserved a	rea for preventive flood protecti	ion Identification of responsibilities and tools
erinarii.			Development and publication of



#### Pilot area Mühlberg:

- Joint catalogue of objectives and measures
- Hydraulic interventions -> lack of common model
- Disaster management -> local action required
- •Generic cross border measures With Czech Republic:
- Joint maps









## 3. Achievements towards cross border flood risk management – Bug



Pilot: Joint FRMP Belarus – Poland – Ukraine

- Development common model
- Focus on calamity management and early warning
- •Determination of possible inundation zones, dike improvement, cleaning of the flood plain

Combining adaptation-, flood protectionand restoration measures will improve water regime and ecological status in river basin







## 3. Achievements towards cross border flood risk management

- Implementation of 'upstream rule'
- Joint transboundary flood risk and flood hazard maps for different scenarios
- Meuse development of 1 climate model for 1 river
- Somes:
  - Joint transboundary inspections and flow measurements, increased data exchange
  - Mutual assistance in flood protection
  - Harmonization of legislation







### 4. Preliminary results of FLOOD-WISE

FLOOD-WISE

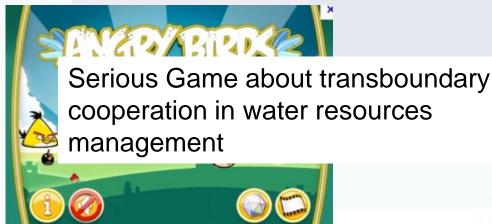
INTERREG IVC

Project statement with recommendations for transboundary flood risk management



Open platform with good practices of transboundary flood risk management









#### Final FLOOD-WISE conference

October, 22-24 2012 in Maastricht

Presentation of all 6 River Basin

Flood Risk Managements Plans, including the Flood Hazard and Flood Risk Maps

and determination of Measures to be taken.

Lectures and discussions about transboundary flood risk management

You are all invited to attend!!





