Stakeholder Involvement in Decision Making Processes

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Introduction

> Water management on Mediterranean islands faces significant problems due to increasing water scarcity Each island has its specific conditions and characteristics related to water availability and demand However, there are also various issues that are <u>common</u> to Mediterranean islands: isolation impossibility to draw on distant or more divers aquifers Completion of existing reservoirs -> desalination as water source predominance of agriculture as main water consumer the threat of saline intrusions and the loss of freshwater to sea this offers the need/opportunity for generic solutions to water management strategies > Such solutions are also pertinent in the context of the EU- Water Framework Directive (WFD)



Introduction

- Defining measures that are aimed to reduce water scarcity requires considerations of various aspects:
 - Environmental, biophysical and natural-resource-oriented aspects
 - Economical, procedural and technological aspects
 - Political, administrative and institutional aspects
- Two important conditions have to be met in this regard:
 - Considerations/investigations have to be carried out holistically, i.e., by taking into account all relevant aspects/disciplines
 - Investigations should strive to involve all relevant stakeholders/actors as early as possible in the process
 - The latter is in compliance with one of the important requirements of the Water Framework Directive: Ensuring an adequate public participation





Advantages of an Active Stakeholder Involvement

- Providing an opportunity for stakeholders to gain ownership of the study/investigation
- Encouraging the development of interdisciplinary approaches to research
- Providing common ground for linking scientific expertise and stakeholders' knowledge
- Enabling the specification of management options that address more adequately the needs of stakeholders, meet their consent and are thus more likely to be successful
- Forging partnerships that become instrumental in public outreach and local capacity building



MEDIS: Objectives and Major Methodologies



MEDIS will Concentrate on synthesis and integration of existing results seek to develop an infrastructure for participatory stakeholder involvement *consider altered climatic conditions Second at a catchment-scale on: Mallorca, Corsica, Sicily, Crete and Cyprus concentrate on agriculture and carry out comparative analyses between the islands ⇒*generic conclusions

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Stakeholder Involvement/Consultation

- In order to facilitate an adequate involvement of stakeholders in MEDIS, we employ a number of methods:
 - qualitative interviews with stakeholders and experts
 - representative surveys (quantitative interviews) involving relevant stakeholder groups
 - Intra-island workshops (workshops involving stakeholder groups on a single island)
 - Inter-island workshops (workshops involving stakeholder groups from different island)
 - an ongoing dialogue amongst stakeholders and between stakeholders and scientists, thus facilitating mutual, crosscultural learning and synergies



Stakeholder-Scientist Dialogues*

As part of our Inter-Island Workshop on Corsica, a structured dialogue between stakeholders and scientists from each of the islands was facilitated

Each group was given the task to evaluate various adaptation/mitigation options to reduce water scarcity and to estimate the impacts of these options on a number of economic and societal sectors/concerns, i.e., agriculture, tourism, industry, environmental-, societal- and economical

While each group had to come up with their own adaptation/mitigation options, the impacts had to be ranked from 1 to 5 and 4from -1 to -5 for low to high levels of impact, respectively; no impact was given the grade 0

*)These dialogues were designed and facilitated by Anna Maria Giacomello and Dr. Antonia Donta



Stakeholder-Scientist Dialogues

1	11.	POS	OSSIBLE SOLUTIONS TO THE PROBLEM			
10	-	A	B WATER LOSS BEINLIN	C WATER PRICES INCR.	D WATER DISTRI- BUTION ON DEMAND	E ONE AJTHONI FOR CATAL
_		KEUXE 2	-cr-s-	-7	5	1
AGRICULTURE	Farm income Number employed in	-		-1	1	0
	agriculture	1			5	5
	QUALITY OF LIFE					
	Tourism profit	2	1	- 3	0	0
FOURISM	Number employed in tourism	1	I	-1	0	0
-	Industrial profit	2	1	-1	0	0
LE	Number employed in	0	1	-1	0	U
INDUS	industry	Ŭ				
	Change in wetlands degradation	0	D	٥	0	Ø
IN	Quality of aquatic	4	0	0	0	0
IME	Water availability	4	3	+3	1	0
0	Water quality	3	3	+1	0	0
ENVIE	Soil Defendation	-5	0	0	0	0
-	Domestic users'	1	-2	2	0	0
	Recreation	1	0	0	0	0
1 E	Rural traditional	5	0	-2	0	0
CIE	Social cohesion	3	2	-4	D	5
so						
riy.	Water treatment cost	-3	0	0	0	0
Wate	Water companies capital costs	-3	-5	4	0	D
	Island economic vulnerability	4	5	-2	0	ð
	Cost of implementing	4	5	0	0	4



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5 = high level of positive impact -5 = high level of negative impact

0 = impact is not applicable





Stakeholder-Scientist Dialogues

Adaptation strategie to water scarcity: Sicily





Stakeholder-Scientist Dialogues



Adaptation strategies to water scarcity: Mallorca

Adaptation strategy to water scarcity: Cyprus



Adaptation strategies to water scarcity:Crete



Each group came up with a number of distinct but also some common measures. Including: reduced losses in distribution network (all), improved water administration (3), desalination (2), managed demand (2), water pricing (2), recycling/reuse (2),



Challenges of an Active Stakeholder Involvement

The effective involvement of stakeholders faces a number of challenges:

- Identification of 'suitable' stakeholders in sufficient numbers and ready to get involved
- Their persistence throughout the process and their willingness to 'invest' into the process
- The interest and enthusiasm of scientists to equally 'invest' and to spend significant time and effort in doing so
- The readiness of stakeholders to engage in an open dialogue with scientists and amongst themselves that may challenge their own positions and opinions
- Their willingness to openly share their experiences and expertise
- Changes in stakeholders' institutions/positions which may interrupt their continued involvement

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Conclusions

 Specifying recommendations for a sustainable and equitable water management is inconceivable without an adequate involvement of stakeholders

- Stakeholder involvement offers a number of significant advantages but also faces considerable challenges
- There are various methods and approaches which may be employed
- Within MEDIS, stakeholders are involved during the entire process of deriving policy options/ recommendations

An exchange of ideas in an open dialogue between stakeholders and scientists offers unique opportunities for mutual, cross-cultural learning and synergies



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Information on MEDIS can be found at: http://www.uni-muenster.de/Umweltforschung/medis/index.html

