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ClimWatAdapt – Introduction to the assessment exercise

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Why assessing adaptation measures?

- ▶ Which measures are most effective to reduce vulnerability to a specific impact?
- ▶ What side effects do measures have?
- ▶ How feasible is their implementation
- ▶ *Get a better picture of their performance and the conditions of their implementation*



Link to the assessment

- ▶ Side-effects
- ▶ Performance under uncertainty
- ▶ Efficiency
- ▶ Effectiveness
- ▶ Conditions for decision making



What will be assessed?

- ▶ In principle all measures in the inventory
- ▶ 8 Measures quantitatively – not today
- ▶ Today 31 Measures qualitatively
- ▶ Selection is based on EU-relevancy



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What does the assessment look like?

Name of measure: *Adapt waste water treatment and sediment management to more frequent extreme situations*

General description			
Description:	The operation of sewers and waste water treatment plants will most likely face increased storm flows and more dry spells in the future. Models can be used to describe the sediment management and treatment processes and and look for ways to adapt.		
Climate event addressed:	flooding, water scarcity & droughts		
Link to vulnerability indicators			
Character of measure:	preparatory		
Sector(s) affected:	water management, industry, domestic/tourism		
Time to implement	short-term		
Administrative level	municipality / company / farm		
EU Policy area that could be used for implementation	WFD, Urban Waste Water		
Overall urgency and priority of the measure			
urgency and priority		score	comment
Assessment			
	sub-criteria	score	comment
Side effects	a) win-win: b) no regrets: c) spill-over: d) negative:		
Performance under uncertainties	a) flexibility b) robustness		
Efficiency	ratio cost to benefit		
Effectiveness	to reduce exposure and /or sensitivity		
Conditions for decision making	a) feasibility; b) combinability; c) institutional requirements		
Comments			



Closer look at the assessment criteria

- ▶ Side-effects
- ▶ Performance under uncertainty
- ▶ Efficiency
- ▶ Effectiveness
- ▶ Conditions for decision making



Urgency and Priority

To what extent does measure address urgent climate concerns and support prioritized management and practices?



Side effects – 4 sub-criteria

- Win-win
- No-regret
- Spill-over
- Negative



Side effects – win-win

To what extent does the measure support other economic, social and environmental management objectives?



Side effects – no regret

How much will the measure be beneficial irrespective of future climate change taking place?



Side effects – spill over

To what extent has the measure a spill over effect on the adaptive capacity of other sectors or agents (agriculture, energy, environment)?



Side effects – negative

To what extent may the adaptation measure contribute to increase vulnerability of other sectors or agents?



Performance under uncertainty – 2 sub-criteria

- Flexibility
- Robustness



Performance under uncertainty - Flexibility

How feasible is the adjustment/modification of adaptation measure when it turns out to be inadequate or inappropriate?



Performance under uncertainty - Robustness

How robust is the performance of the measure with regards to uncertain future development?



Efficiency

How are (monetary) benefits of adaptation measure compared to their (monetary) costs?



Effectiveness

To what extent does the measure help to reduce vulnerability to climate impacts (flood, drought, extremes)?



Conditions for decision making – 3 sub-criteria

- Feasibility
- Combinability
- Institutional requirements



Conditions for decision making - Feasibility

How feasible is the implementation of the measure regarding barriers that can potentially hamper the adaptation process?

(e.g. limited technical capacity, economic strength, socio-cultural acceptance and potential conflicts with current legal settings)?



Conditions for decision making - Combinability

To what extent can the measure be integrated and combined with other adaptation measures?



Conditions for decision making – institutional requirements

To what extent does the implementation of this adaptation measure require institutional processes?

(e.g. new arrangement, procedure, or adjustment of current institutional settings)?



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Thank you for listening.