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Selection and Prioritisation of Adaptation Options

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Selection and Prioritisation

• What's so special? ■ What do Guidelines say? ■ What methods are available? Pros and cons of methods • What method(s) to use? An example Computerised MCA

What's so special about Climate Change Adaptation?

Climate (Change) related
NAPA is about identification, not planning (yet)
Selection on existing data
Guidelines suggest criteria
Guidelines indicate fields

What Do the Guidelines Say ?

Guiding elements	Criteria	Applied to (Fields/sectors)
 Participatory Multidisciplinary Complementary Sustainable dev't Gender Country driven Sound environment Cost-effective 	 Level of damage Poverty reduction to enhance adaptive capacity Synergy with MEAs Cost- effectiveness 	 human health/life Food Water Infrastructure Environment/nature Cultural heritage Bio-diversity Land-(use), forest, coastal areas

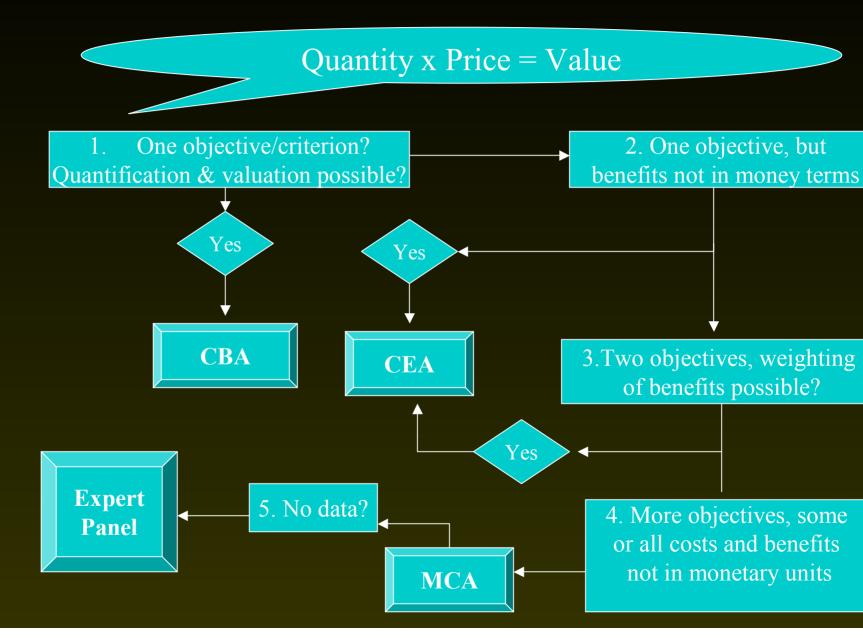
What Methods Are Available?

Cost-benefit analysis
Cost-effectiveness analysis
Multi-criteria analysis
Other

Method Pros & Cons

1. Cost-benefit analysis (CBA)	Allows comparison between sectors	Heavy on quantitative data
2. Cost- effectiveness analysis (CEA)	Provide budget estimate	Provides ranking only
3. Multi-criteria analysis (MCA)	more criteria possible, participatory approach	manipulation easy, provides ranking only
4. Expert judgement	flexibility	subjective

What method to use when?



Hypothetical MCA example

1. Scores	on	criteria				
	Costs	Agriculture	Health	Environment		
	(mln \$)	(mln ha-days	(mln DALYs)	(mln \$)		
pumping	-700	1000	10	-70		
infrastructure	-800	800	8	-10		
labour	-900	300	3	-10		
bear losses	0	0	0	-50		
2. Scores		standardised			sum	Rank
pumping	0.22	1.0	1.0	0	.56	2
infrastructure	0.11	0.8	0.3	1	.68	1
labour	0.00	0.3	0.3	1	.40	4
bear losses	1.00	0	0	0.33	.33	3
Waialat	0.25	0.25	0.25	0.25	1.00	
Weight	0.25	0.25	0.25	0.25	1.00	

Computerised MCA

- Advantages
 - ♦ Fast
 - No arithmetical errors
 - Sensitivity & risk analysis
 - Suitable for participative settings
- Disadvantages
 - Black box
 - Manipulation easy

Workshop Tools

1. CBA/CEA: No
 2. MCA:

 HIVIEW

◆ DEFINITE + Expert

Suggested motto:

"There is no substitute for hard work".