

Storyline Interpretation

Method

What do we do with the “Main Factors” from the Storylines?

- ⇒ visualize them
- ⇒ consider them driving forces
- ⇒ find appropriate factors that can be quantified (indicators)
- ⇒ translate them into model input

How do we do it?

- ⇒ use verbal description from storylines
- ⇒ rank on a qualitative scale
- ⇒ put into a spider diagram
- ⇒ compare spiders



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FACTOR CLUSTER	OPPOSITES		Change	Reason
Global warming & cooling	Extremely increasing aridity	Mildly increasing aridity	externally driven	
Trade	Emphasis on water-intensive exports (agriculture and industry)	Importance of less water-intensive exports	Less water-intensive exports	Because of remaining water shortage
Water pollution & treatment	Waste water fully usable and efficient – no harm to environment	Inefficient treatment of waste water – damage to the environment	Waste water will be fully treated	Because of available resources
Energy	High costs	Low costs	Indifferent	
Competing water needs between sectors	Resolution of conflict thru market	State-imposed distribution & allocation	Less state more market control	



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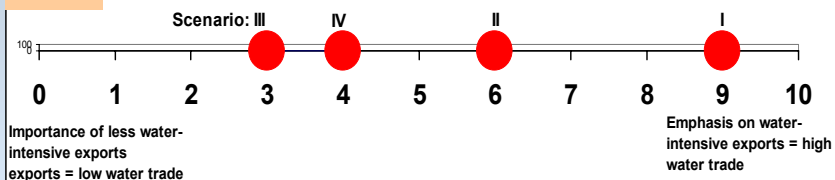
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Valuation	Trade
1	
2	
3	III
4	IV
5	
6	II
7	
8	
9	I
10	

Trade





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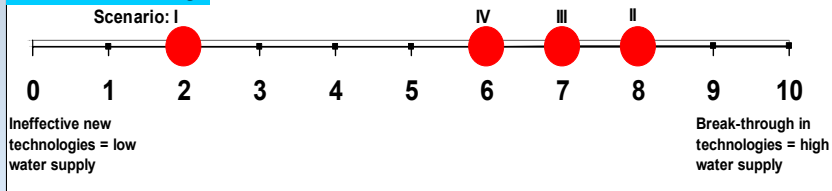
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Valuation	Water supply
1	
2	I
3	
4	
5	
6	IV
7	III
8	II
9	
10	

Water supply



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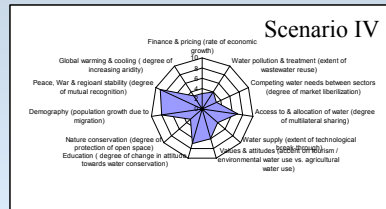
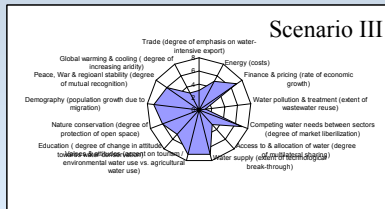
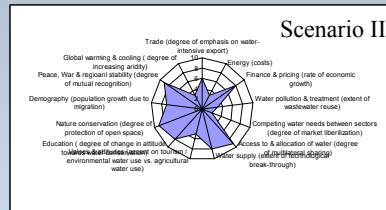
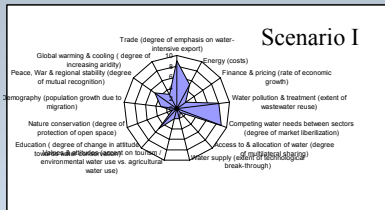
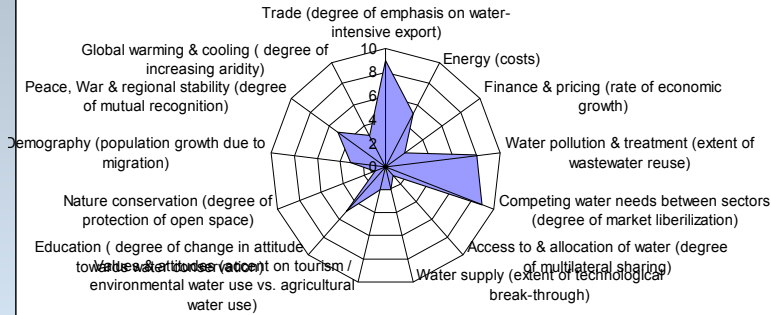
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	Scenario I	Scenario II	Scenario III	Scenario IV
	Suffering of the weak & the environment	Willingness & Ability	Modest Hopes	Poverty & Peace
Trade	9	6	3	4
Energy	5	3	5	?
Finance & pricing	2	8	7	3
Water pollution & treatment	8	3	1	4
Competing water needs between sectors	9	2	7	3
Access to & allocation of water	1	9	3	7
Water supply	2	8	7	4
Values & attitudes	2	5	7	6
Education	5	8	5	7
Nature conservation	1	9	6	3
Demography	3	7	7	8
Peace, War & regional stability	5	9	6	9
Global warming & cooling	3	3	3	3

Suffering of the weak and the environment





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Conclusions

- ⇒ important to define the upper and lower bounds of the main factors well
- ⇒ make sure they can be translated into some quantitative indicators
- ⇒ use a consistent verbal description such a "low", "medium", "high" increase, etc.
- ⇒ keep in mind that the quantification is only based on verbal description
- ⇒ if the verbal description is the same in two scenarios, note that the quantification will be identical
- ⇒ use spiders to compare scenarios and to confirm their differences



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Key Variables

1. Population growth rate
2. GDP growth rate
3. Fraction of wastewater treated
4. Emphasis on water-intensive exports (fruit-growing area)
5. Water supply - technological breakthroughs (rate of water efficiency improvements)
6. Water supply - technological breakthroughs (total capacity of desalination facilities)



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