Group Decision Making: How can we make it work better? Webinar January 15, 2020

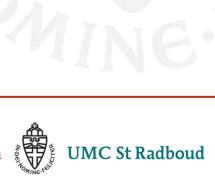
Prof. Dr. E.A.J.A. Rouwette E.Rouwette@fm.ru.nl Nijmegen School of Management Radboud University





Outline

- Group decision making: room for improvement
- Phases in decision making
 - selection
 - sharing
 - analysis
 - implementation
- Complex and messy problems
- Methods for supporting group decision making



Group decision making: room for improvement

Tactic	Frequency of use	Adoption	Perceived benefits	Installation time
Debacles				
Persuasion				
Edict				
Best practices				
Benchmarking				
Participation - comprehensive - complete - delegated - token				

Cf. Nutt, 2002



Group decision making: room for improvement

Tactic	Frequency of use	Adoption	Perceived benefits	Installation time	
Debacles					
Persuasion	36%	49 – 58%	Adequate to good	26 months	
Edict	40%	38 – 50%	Adequate	17 months	
Best practices	Best practices				
Benchmarking	6%	90 – 100%	Good to excellent	11 months	
Participation - comprehensive	18% - (not observed)	80 - 89%	Good to excellent	14 months	
- complete	- 6%	- 90 – 100%	Good to excellent	- 16 months	
- delegated	- 10%	- 79 – 84%	Good	- 10 months	
- token	- 2%	- 67 – 70%	Adequate to good	- 20 months	

Cf. Nutt, 2002



Phases in decision making

- Aim and task
- Focus issue
- Activation ideas

Selection

Sharing

- Interpretation
- Shared language
- Stopping rule

- Completeness
- Types of data
- Rationality

Analysis

Implementation

- Control
- Content
- Involvement



Selection problem

Why should I bother?

- Agenda setting
- Conflict personal and other goals
 - Colleagues competitors
 - Departmental goals

What is my motivation?

Out of all available information, what is relevant?

- Data: mental, documents, numbers
- 'How do I know what I think until I hear what I say?'
- Emotion is faster than cognition
- Essential assumptions are not always clear





Sharing information

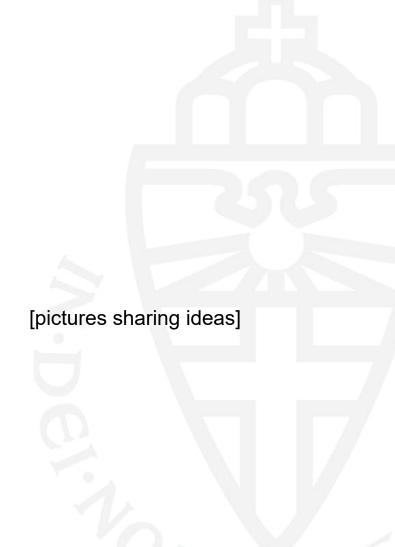
Which question will I answer?

- Differences in context or background evoke different interpretations
- If the question is too hard, I will answer an easier one

How do I verbalise my ideas?

- Shared language: budgets and KPIs
- Shared history: task and social demands

When do we stop?



Wujec: how do I toast bread?

[pictures Wujec]



An easier question

[picture skydiving]

Please answer the following question:

Which sport is more dangerous, mountaineering or paragliding?

- Availability heuristic, results in a biased estimate
- Other examples are selective perception, framing
- Biases are 'departures from the normative rational theory' or 'deviations from some "true" or objective value'

Cf. Gilovich, Griffin and Kahneman, 2002: 3



When do we stop: group impacts

	member X	member Y	member Z	
All information shared				
Pro-A	a ₁ a ₂ a ₃ a ₄ a ₅ a ₆ a ₇	a ₁ a ₂ a ₃ a ₄ a ₅ a ₆ a ₇	a ₁ a ₂ a ₃ a ₄ a ₅ a ₆ a ₇	
Pro-B	b ₁ b ₂ b ₃ b ₄	$b_1 b_2 b_3 b_4$	$b_1 b_2 b_3 b_4$	

Cf. Stasser and Titus, 1985



When do we stop: group impacts

	member X	member Y	member Z	
All information shared				
Pro-A Pro-B	$a_1 a_2 a_3 a_4 a_5 a_6 a_7$ $b_1 b_2 b_3 b_4$	$a_1 a_2 a_3 a_4 a_5 a_6 a_7$ $b_1 b_2 b_3 b_4$	$a_1 a_2 a_3 a_4 a_5 a_6 a_7$ $b_1 b_2 b_3 b_4$	
Mildly biased distribution				
Pro-A Shared Unshared Pro-B (All shared)	$a_1 a_2 a_3 a_4$ a_5 $b_1 b_2 b_3 b_4$	$a_1 a_2 a_3 a_4$ a_6 $b_1 b_2 b_3 b_4$	$a_1 a_2 a_3 a_4$ a_7 $b_1 b_2 b_3 b_4$	

Cf. Stasser and Titus, 1985



When do we stop: group impacts

	member X	member Y	member Z	
All information shared				
Pro-A Pro-B	$a_1 a_2 a_3 a_4 a_5 a_6 a_7$ $b_1 b_2 b_3 b_4$	$a_1 a_2 a_3 a_4 a_5 a_6 a_7$ $b_1 b_2 b_3 b_4$	$a_1 a_2 a_3 a_4 a_5 a_6 a_7$ $b_1 b_2 b_3 b_4$	
Mildly biased distribution				
Pro-A Shared Unshared Pro-B (All shared)	$a_1 a_2 a_3 a_4$ a_5 $b_1 b_2 b_3 b_4$	$a_1 a_2 a_3 a_4$ a_6 $b_1 b_2 b_3 b_4$	$a_1 a_2 a_3 a_4$ a_7 $b_1 b_2 b_3 b_4$	
Severely biased distribution				
Pro-A Shared Unshared Pro-B (All shared)	a_1 $a_2 a_3$ $b_1 b_2 b_3 b_4$	a_1 $a_4 a_5$ $b_1 b_2 b_3 b_4$	a_1 $a_6 a_7$ $b_1 b_2 b_3 b_4$	

Cf. Stasser and Titus, 1985



Analysis

Is my information complete (enough)?

- Boundaries
- Confidence

Can I compare data types of data?

- Mental conceptual numerical
- Triangulation and testing

What action do I take now?

- Resolving differences
- Rationality

[picture elephant]



Implementation

Control

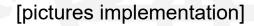
- Top down decisions in wicked problems
- Zero-sum game or increasing the pie?

Content

Is the decision in line with my interests?

Involvement

Procedural justice: was I involved?

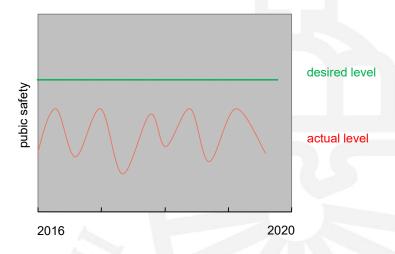




Messy and wicked problems

Problem

 Discrepancy between actual and desired situation or development



Messy problem (Vennix, 1999)

Large differences of opinion on the problem, or whether there is a problem

Wicked problem (Camillus, 2008)

- Many stakeholders with different values and priorities
- Causes are complex and interconnected
- Difficult to solve and changes with each attempt to intervene
- Has no precedent
- Nothing indicates the right answer





- Aim and task
- Focus issue
- Activation ideas

Selection

Sharing

- Interpretation
- Shared language
- Stopping rule

- Completeness
- Types of data
- Rationality

Analysis

Implementation

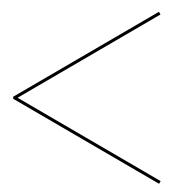
- Control
- Content
- Involvement

Focus, but ask an open question	Go beyond \$ or € or £	Separate divergence from convergence	Involve decision makers, experts, stakeholders
Put participants in the role of 'researchers'	Encourage questions on terms and relations	Use a structured group memory	Clarify scope and outcome early on



[pictures meetings, e.g. from Dilbert, by Scott Adams]

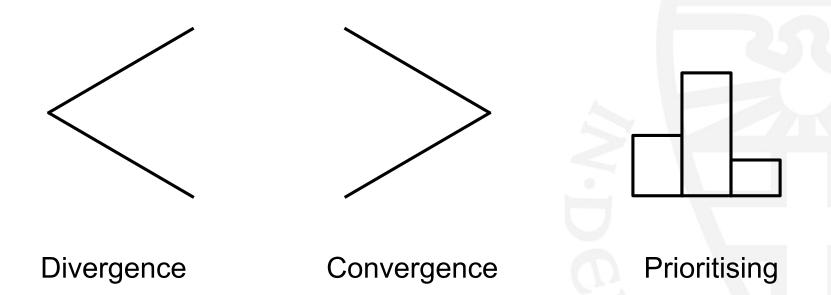


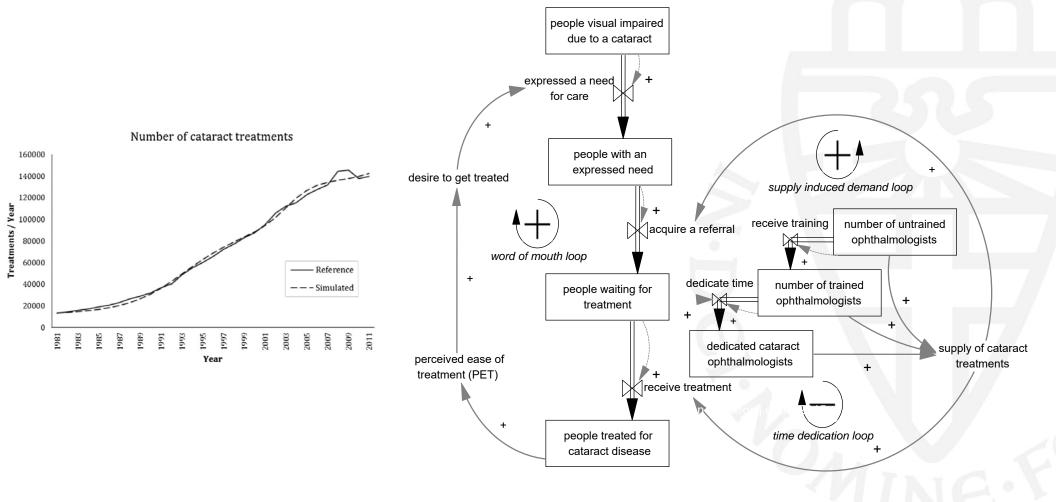


Divergence

[picture ideation frustration]

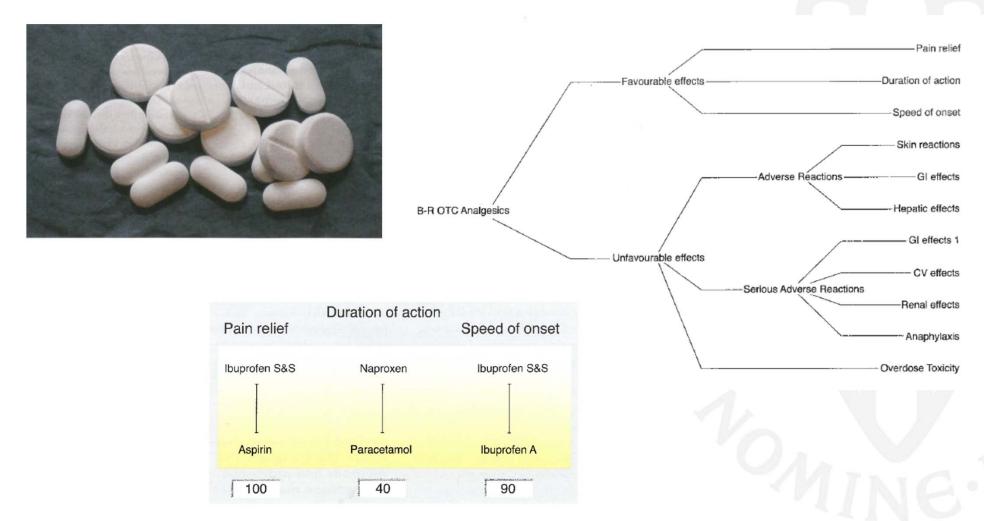






Cf. Van Nistelrooij et al., 2015





Cf. Phillips, 2018



Thank you for your attention!



