

Is there a room for MCDA in CEE  
Region with severe financial constraints?

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PROGRESS  
IN MIND

# Outline

- Can MCDA support decision making process in the healthcare sector?
- Can MCDA support decision making process in the healthcare sector with severe financial constraints like CEE Region?

# Why MCDA is regarded as a useful tool in the decision making process?



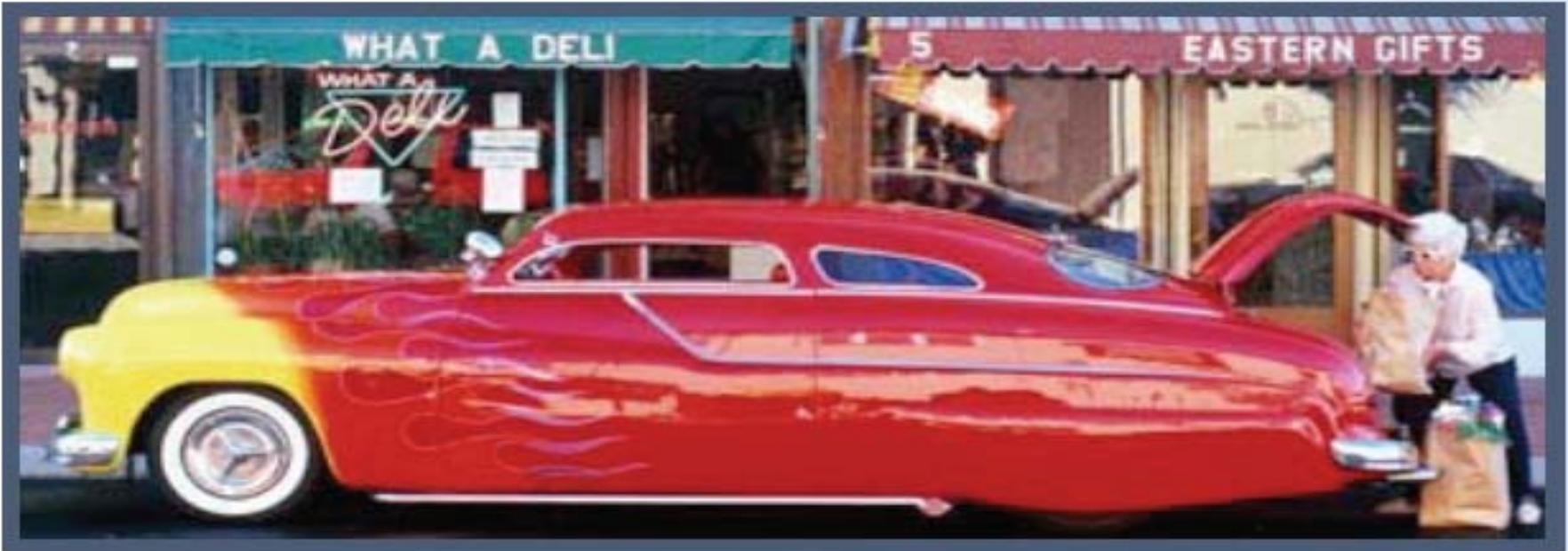
# Why MCDA is regarded as a useful tool in the decision making process?

MCDA can be helpful in the decision making processes if there are following challenges to be met:

1. predefined constraints,
2. multiple and conflicting criteria,
3. interests of multiple stakeholders.

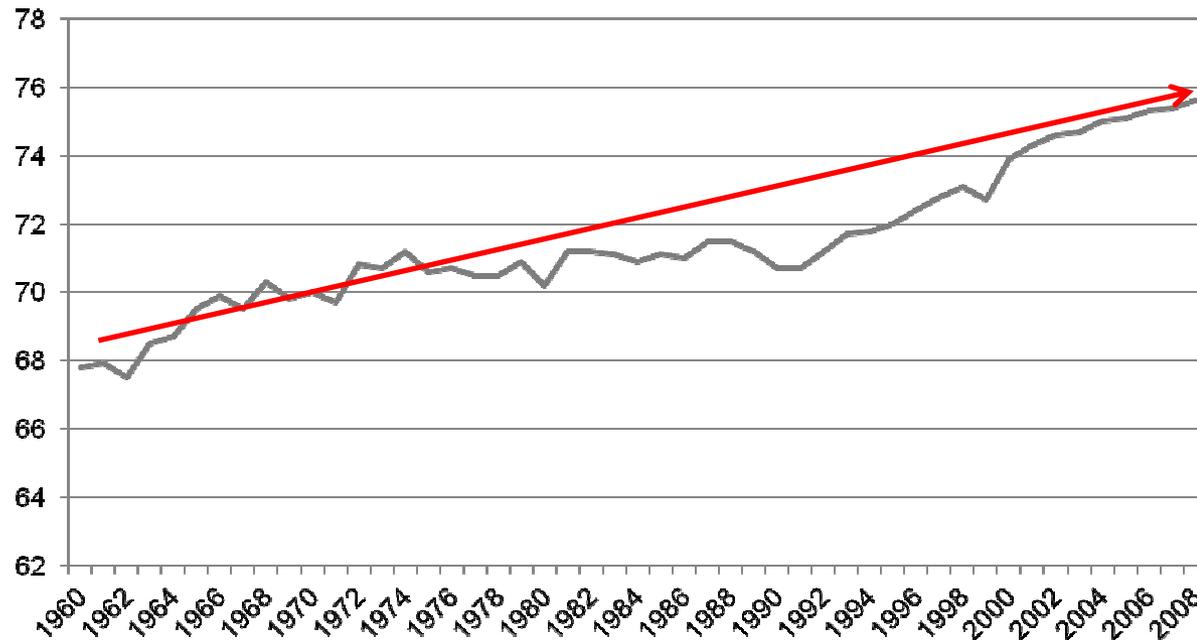
Source: Dolan JG., Multi-criteria clinical decision support: A primer on the use of multiple criteria decision making methods to promote evidence-based, patient-centered healthcare, „ [Patient](#)” 2010 nr 3(4) s. 229-248, [Diaby V.](#), Goeree R., How to use multi-criteria decision analysis methods for reimbursement decision-making in healthcare: a step-by-step guide, „ [Expert Rev Pharmacoecon Outcomes Res.](#)” 2014 nr 4(1) s. 81-99 Goetghebeur M. i współ., Evidence and Value: Impact on DecisionMaking – the EVIDEM framework and applications, „BMC Health Services Research” 2008 nr 8(270) s.1-16

# The constraints of healthcare system- growing patients' needs



# The constraints of healthcare system-growing patients' needs in CEE Region

The increase in life expectancy  
1960- 2008, PL



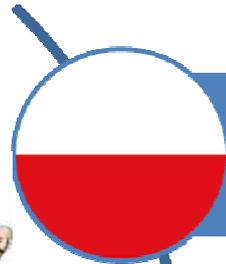
# The constraints of healthcare system- payer's budget



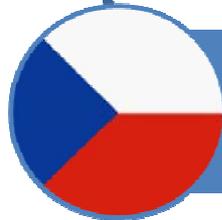
# The constraints of healthcare system-payer's budget



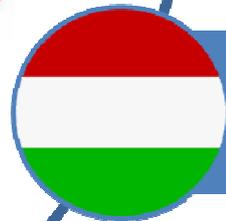
One in, one out?



The total reimbursement budget is no more than 17% of the total public funds



VZP introduced a positive formulary listing, up to 30% discount

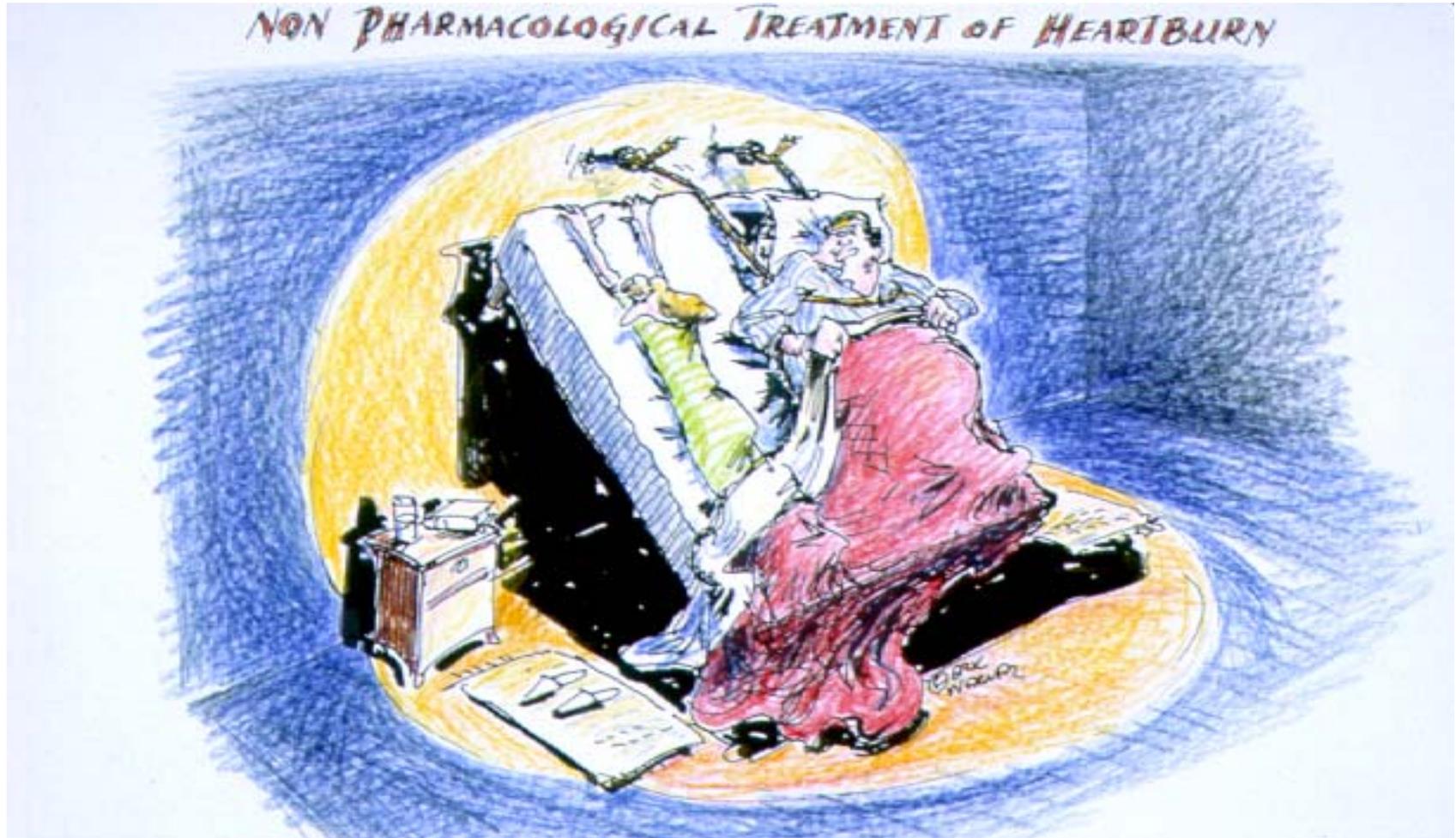


20% statutory clawback on sales revenue

Progressive claw-back scheme in the case of budget deficit

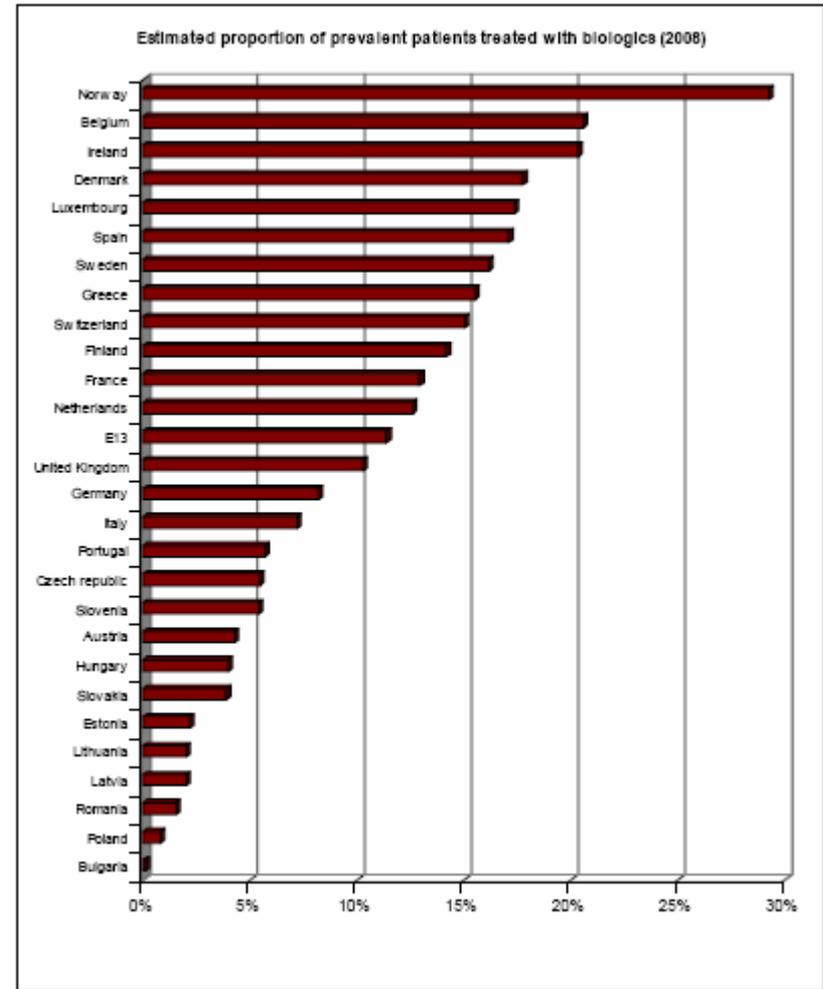
*Volume-cap agreements (PVA)*

# The constraints of healthcare system- restricted access to treatment



# The constraints of healthcare system- restricted access

Countries	%
Austria	70
Belarus	0
Belgium	63
Bosnia-Herzegovina	5
Bulgaria	12
Croatia	22
Czech Republic	25
Denmark	35
Estonia	27,4
Finland	50
France	40
Germany	70
Greece	65
Hungaria	16
Iceland	60
Ireland	32
Italy	65
Lithuania	70
Luxembourg	80
Malta	50
Netherlands	50
Norway	43
Poland	7
Portugal	70
Romania	20
Russia	40
Serbia	10
Slovakia	50
Slovenia	40
Spain	50
Sweden	45
Switzerland	70
UK	12



Źródło: EMSP; MS Barometer 2011  
[http://www.emsp.org/attachments/article/160/MS\\_Barometer\\_2011.pdf](http://www.emsp.org/attachments/article/160/MS_Barometer_2011.pdf) dostęp z dnia 30 sierpnia 2012

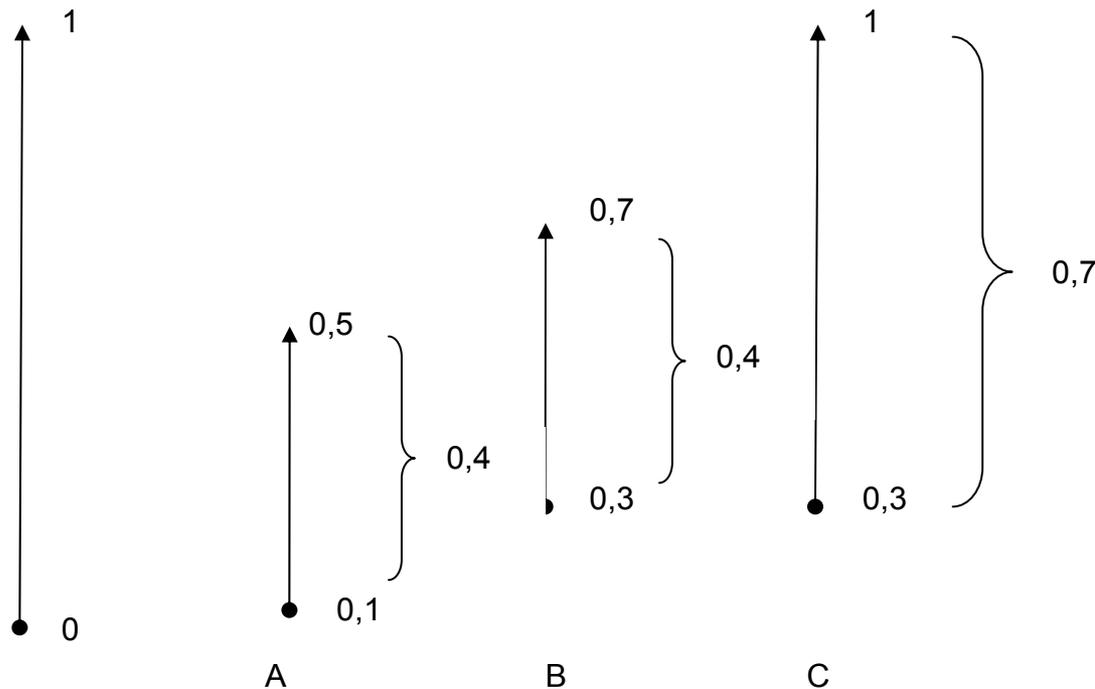
Źródło: Kobelt G. Kasteng F. Access to innovative treatments in Rheumatoid Arthritis in Europe, październik 2009.

The contrast between the growing patients' needs and the scarcity of financial resources leads to the conflict between two objectives of the healthcare system: **effectiveness and equity**

# Conflicting objectives in the healthcare sector - efficiency vs equity

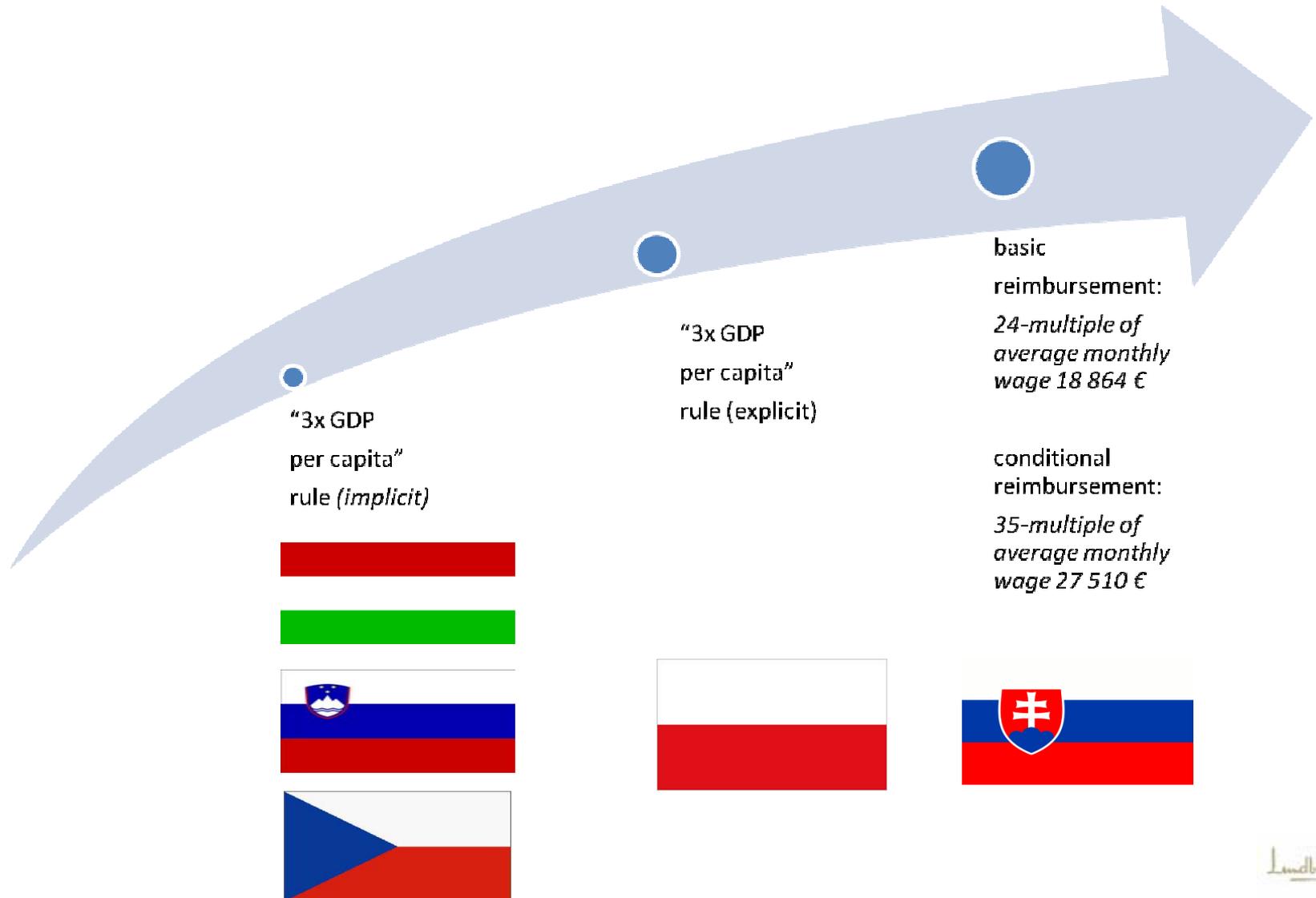
Program	Health state X		Health state Y		QALY
	A	B	A	B	
1	1	0	1	0	1
2	1	0	0	1	1
3	1	1	0	0	1

# Conflicting objectives in the healthcare sector - efficiency vs equity



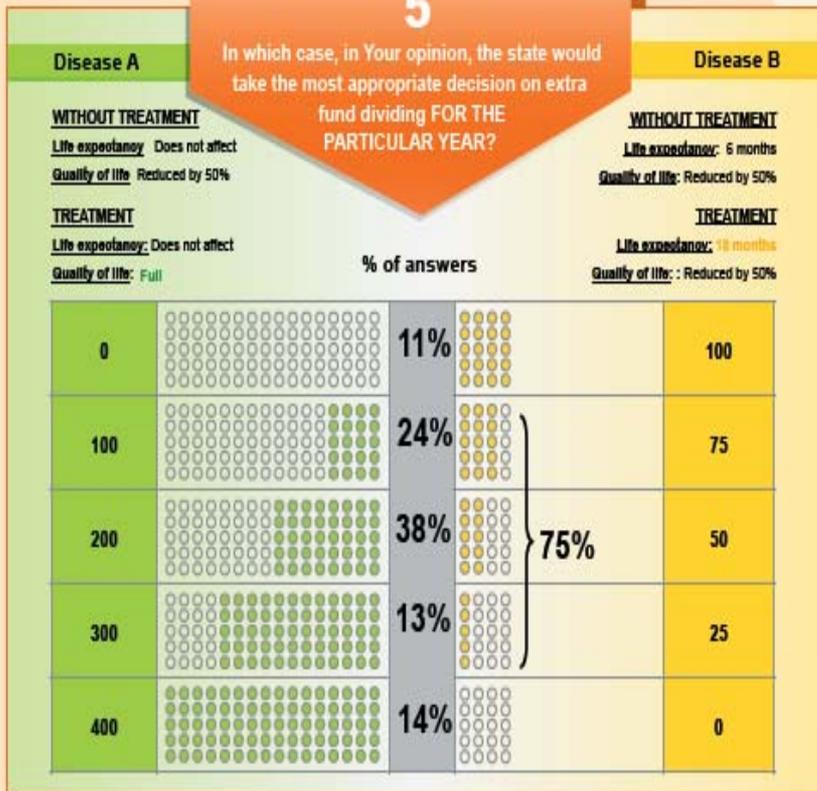
K. Wittrup-Jensen, K. Pedersen, *An empirical assessment of the person trade-off: Valuation of health, framing effects, and estimation of weights for fairness*, „Health Economics Working Papers” 2008, nr 9.

# Conflicting objectives in the healthcare sector - efficiency vs equity

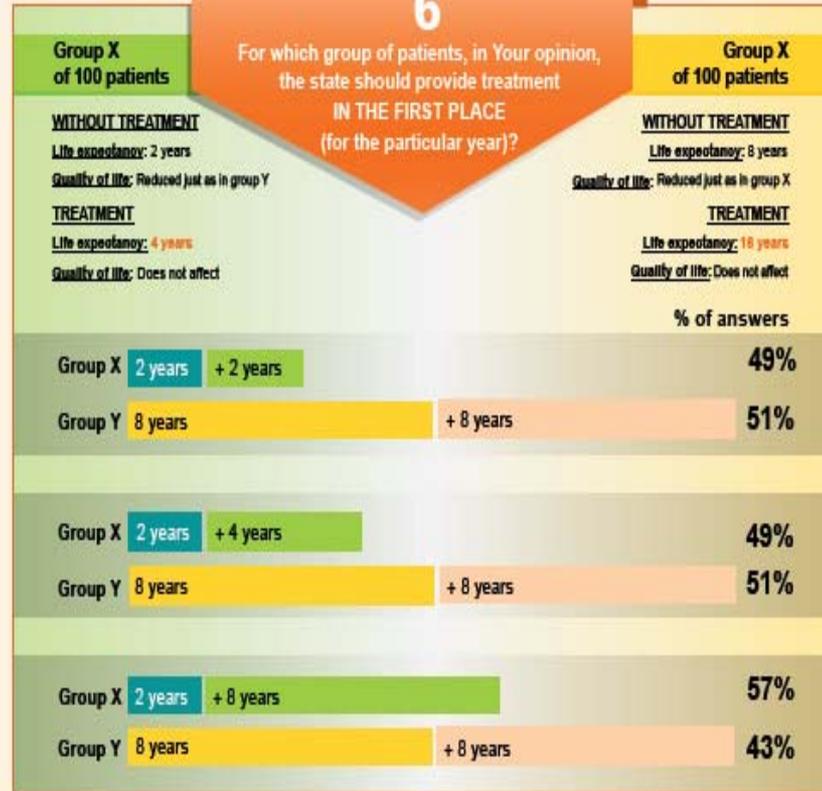


# Conflicting objectives in the healthcare sector - efficiency vs equity

**5**  
In which case, in Your opinion, the state would take the most appropriate decision on extra fund dividing FOR THE PARTICULAR YEAR?



**6**  
For which group of patients, in Your opinion, the state should provide treatment IN THE FIRST PLACE (for the particular year)?



# How to incorporate the views of important stakeholders?

- To ensure legitimacy and acceptability of difficult healthcare decisions, societal concerns have to be taken into consideration
- Any rationing decisions against the moral foundations of a given society can be recognized as a threat to the democratic rules which are defined as a set of freely self-imposed limitations

**„Moral foundations of social collaboration”**



# How to incorporate views of different stakeholders?

Preferences towards health maximization as an allocation criteria

	SENIORS	STUDENTS	Total
approver	29	40	69
	30%	41%	71%
opponent	23	5	28
	24%	5%	29%
Total	52	45	97
	54%	46%	100%
$\chi^2=12.8870$		p-value 0.0003	

# Can MCDA be useful in the decision making process in the CEE Region ?

MCDA can be useful tool in the decision making process in the healthcare sector to meet following challenges:

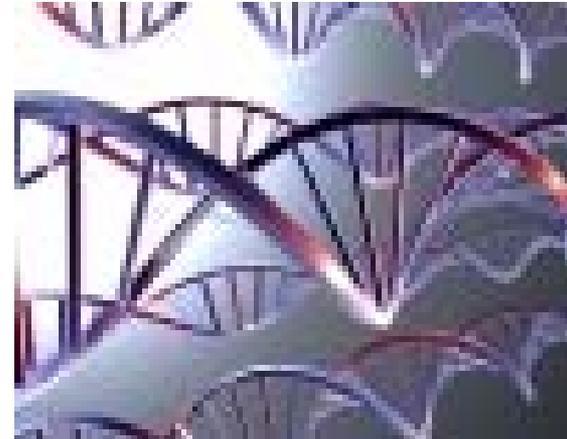
1. Budget availabilities vs. access to treatment (*predefined constraints*)
2. Equity efficiency trade off (*conflicting objectives*)
3. Moral foundations of social collaboration (*multiple stakeholders*)

**The choice is yours!**



To improve is to change;  
to be perfect is to change often.

Winston Churchill



**Thank you for your attention**