

The role of collaborative governance approaches in mitigating institutional misfit in nature conservation areas to spur ecosystem service provision

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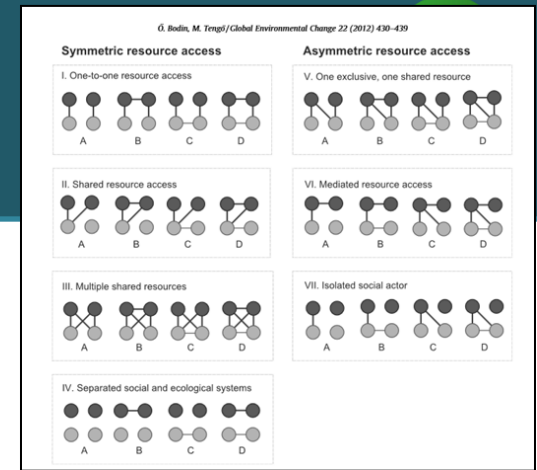


- Theory: institutional fit
- Question: Are established governance approaches optimally aligned with the ecosystems/natural resources which they are meant to govern?
- Consequence of misfit: suboptimal provision of ecosystem services (valued by specific groups of stakeholders or society as a whole)

Sources: e.g. Bodin et al. 2014, Lebel et al. 2013, Vatn and Vedeld 2012; Cox 2012, Ekstrom and Young 2009; Cash et al. 2006, Young 2002

Theory: types of misfit (2 examples)

Source: Bodin et al. 2014, p. 1374 (-> social ecological systems can be interpreted as networks)



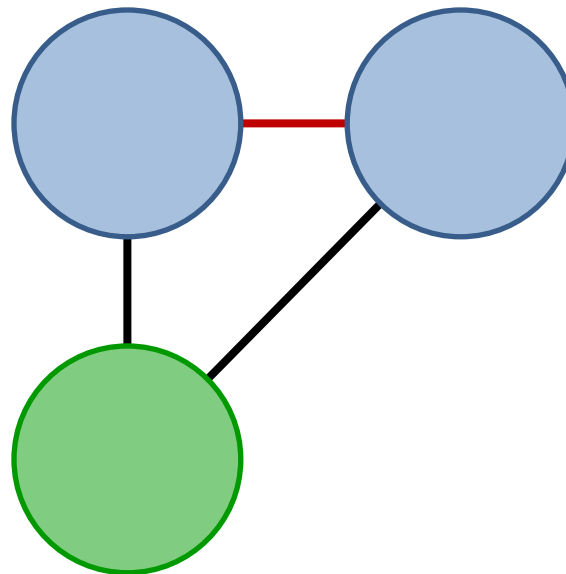
Source: Bodin & Tengö 2012, p. 434

Social system:

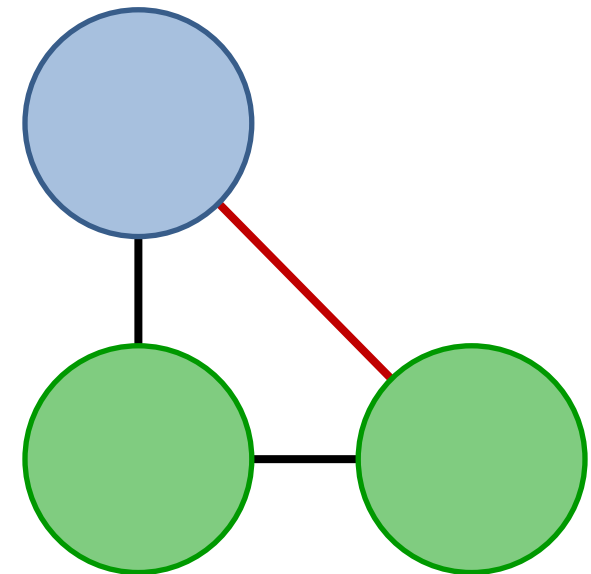
e.g. different governance actors, governance models, resource users, ...

Natural system:

e.g. different ecosystems, natural resources, ...

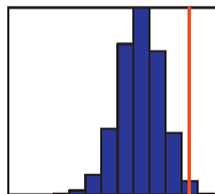


Type 1



Type 2

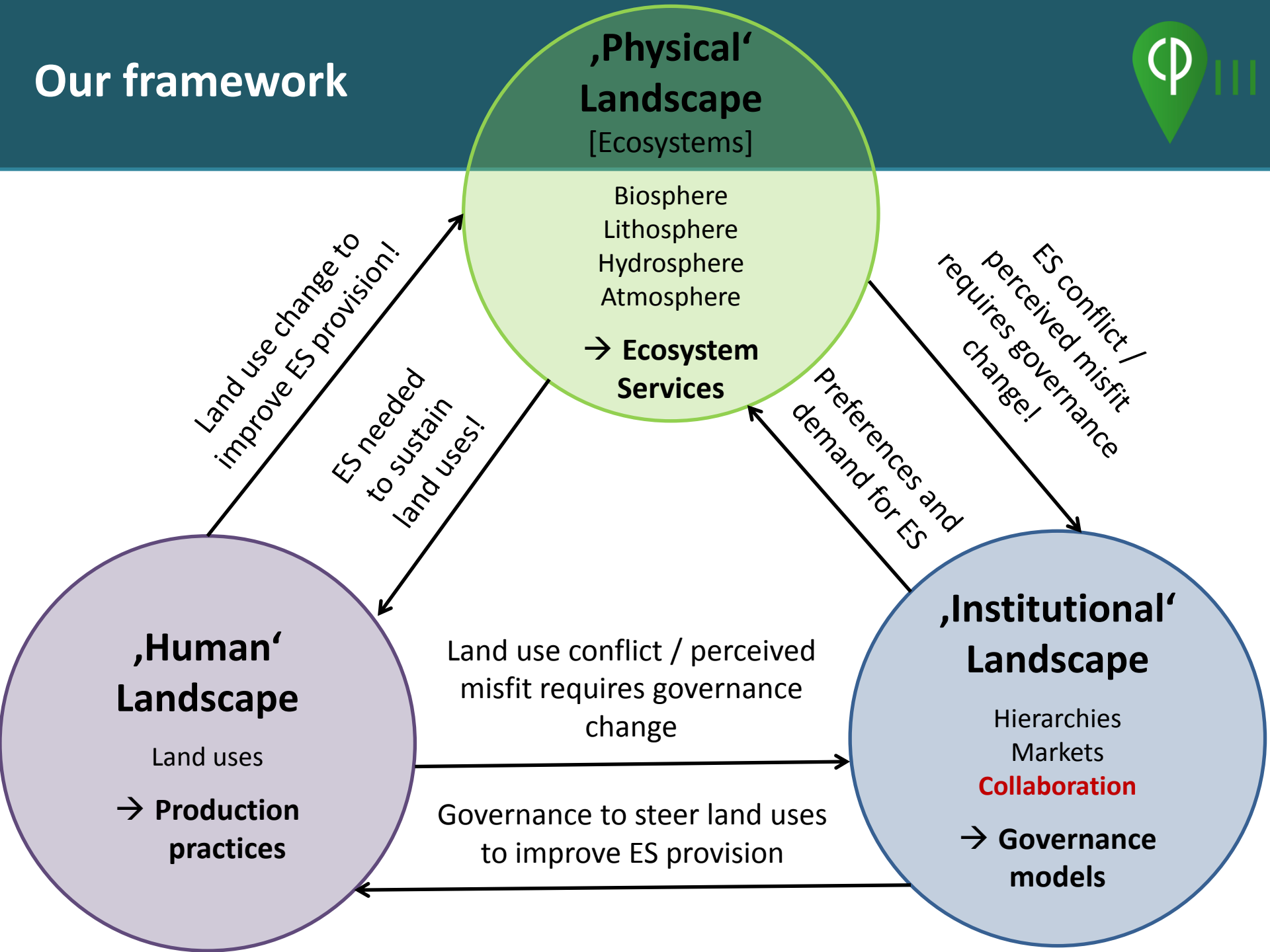
I.A (172⁺⁺)



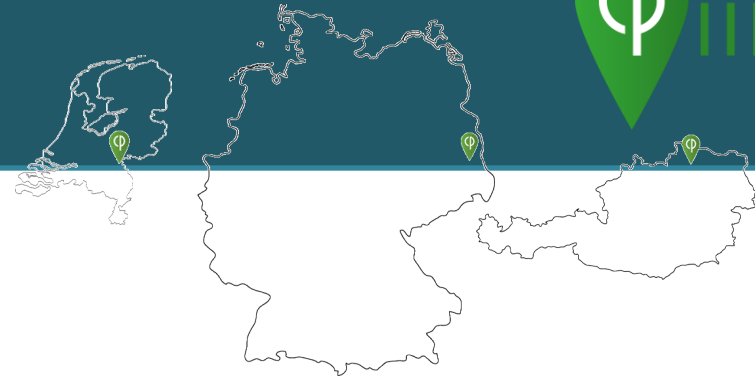
Source: Bodin & Tengö 2012, p. 436

-> calculate how often different types exist in the overall network and compare against random network

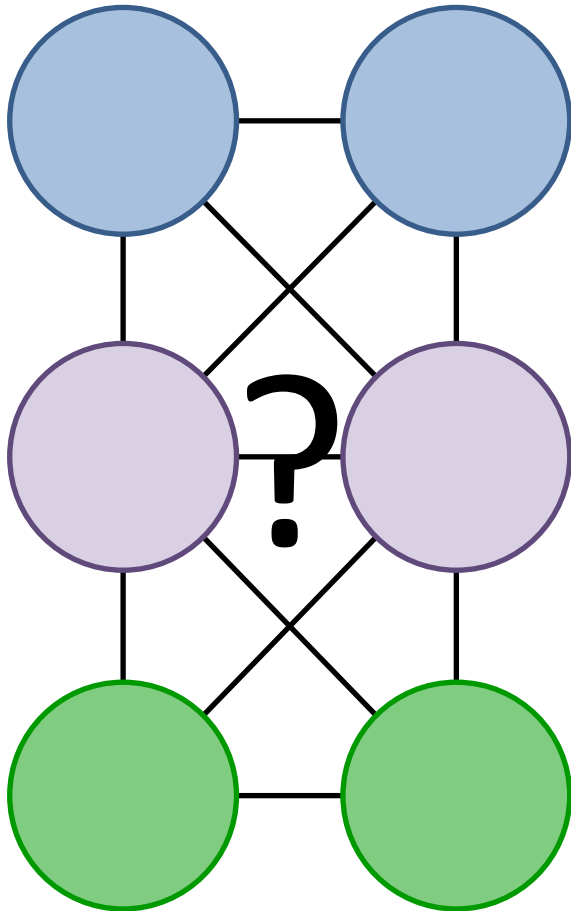
Our framework



Application in case studies



Step 1: inventory



Governance models (GM)

	LU#1	LU#2	LU#3
GM#1			
GM#2	steers/regulates?		
GM#3			

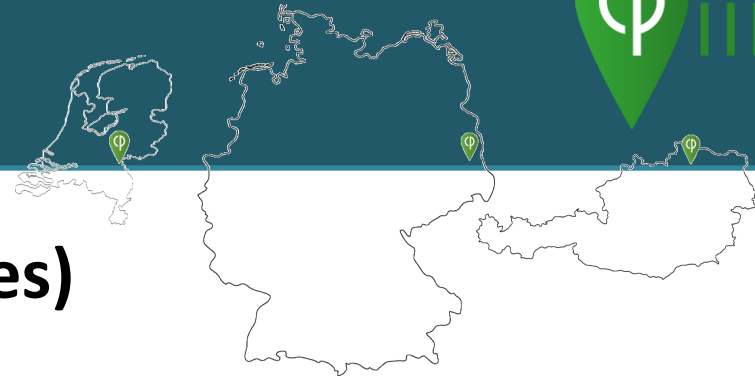
Land uses (LU)

	ES#1	ES#2	ES#3
LU#1			
LU#2	needs/provides?		
LU#3			

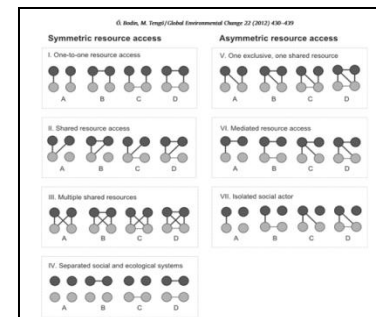
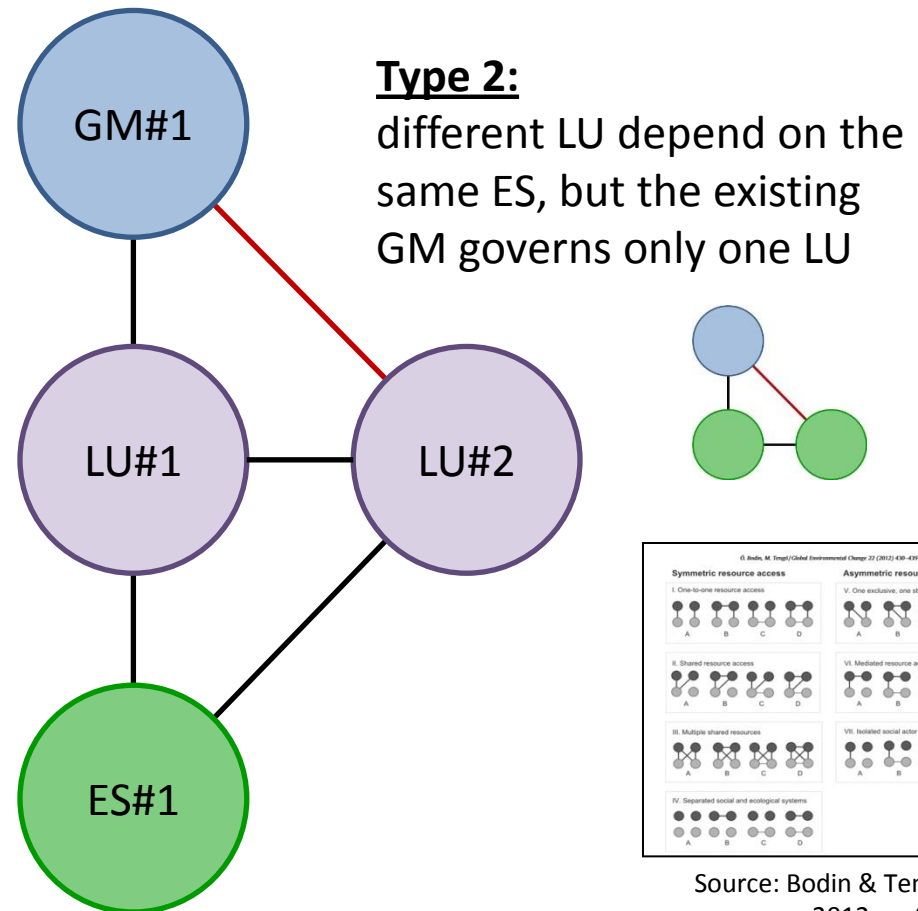
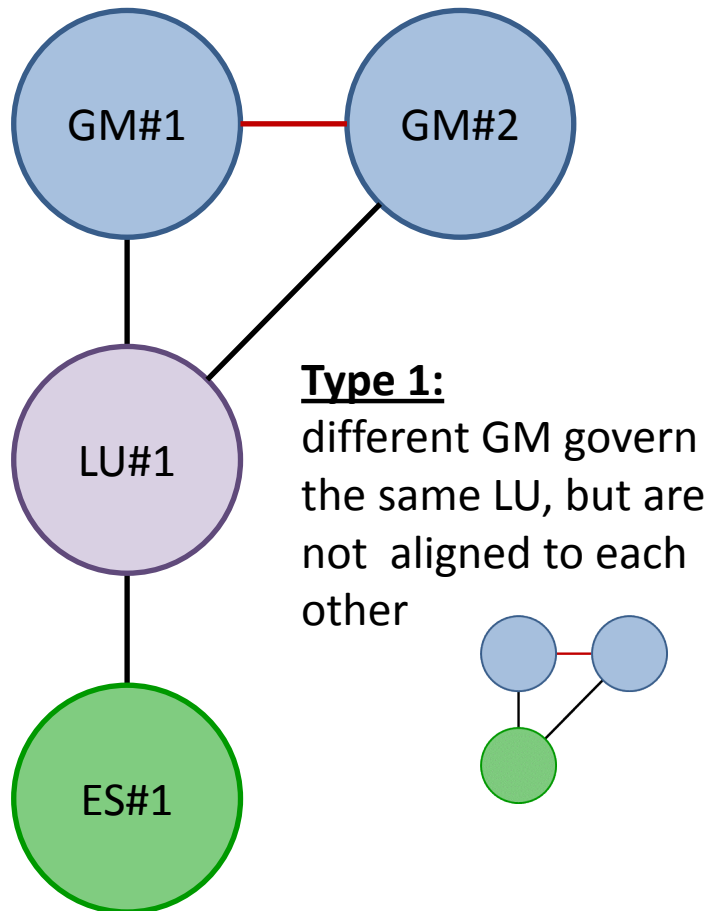
Ecosystem services (ES)

	GM#1	GM#2	GM#3
ES#1			
ES#2	meant to be safeguarded by?		
ES#3			

Application in case studies



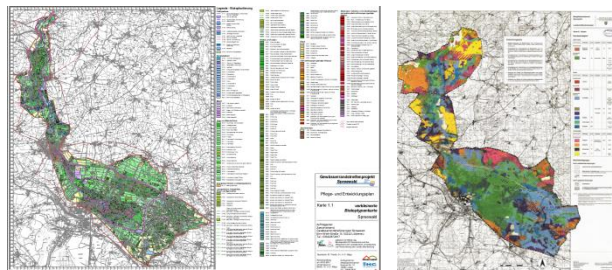
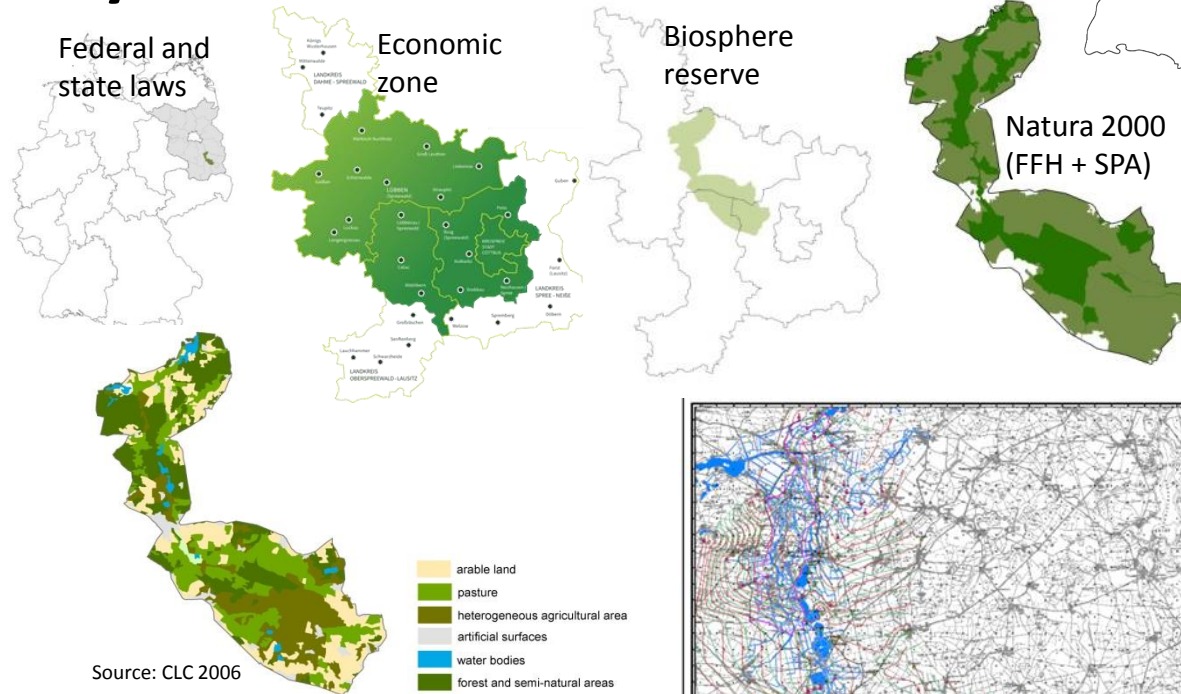
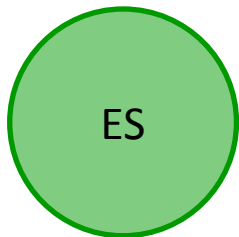
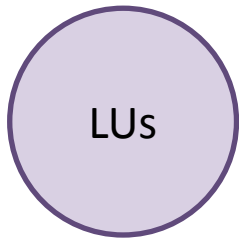
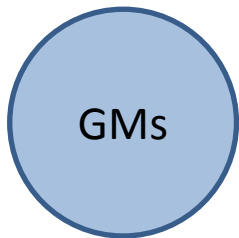
Step 2: analysis of misfit (2 examples)



Application in case studies

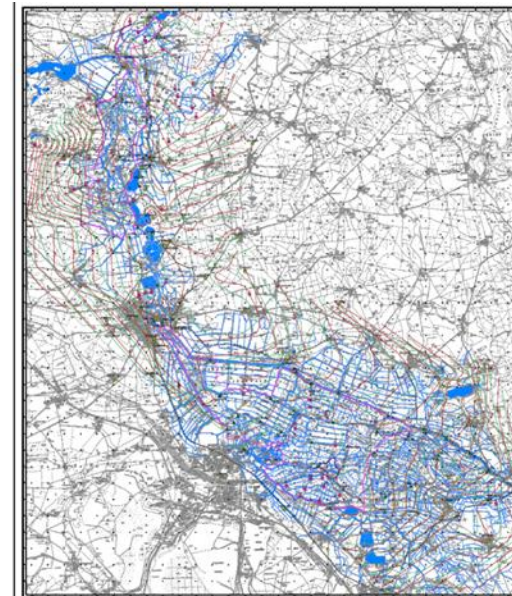


Spatial analysis:



Biotop types

Soil types

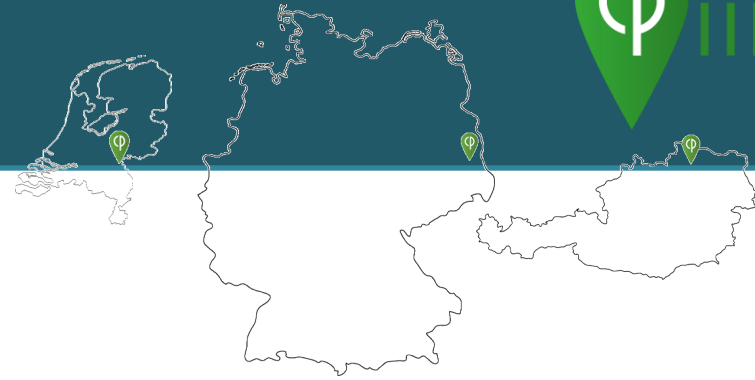


Waterways

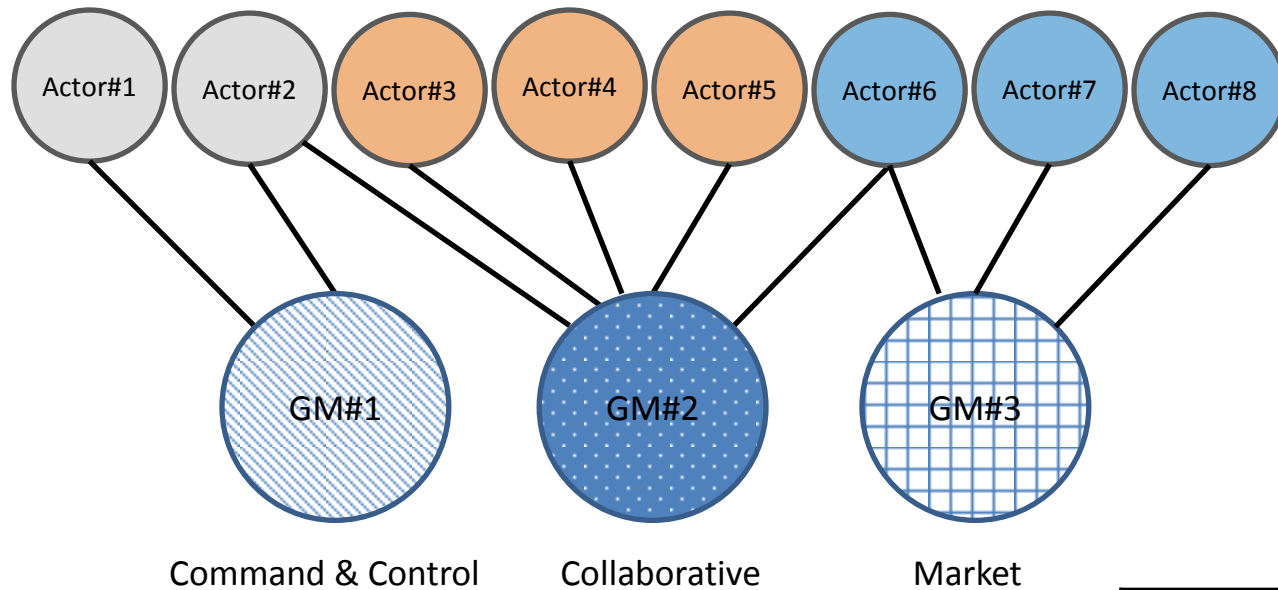
→ Temporal analysis!



Application in case studies



Governance actors:



-> calculate index of fit with vs.
without collaborative GM!

	Actor#1	Actor#2	Actor#3
GM#1	1	1	0
GM#2	0	1	1
GM#3	0	0	0

Thank you!!!

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