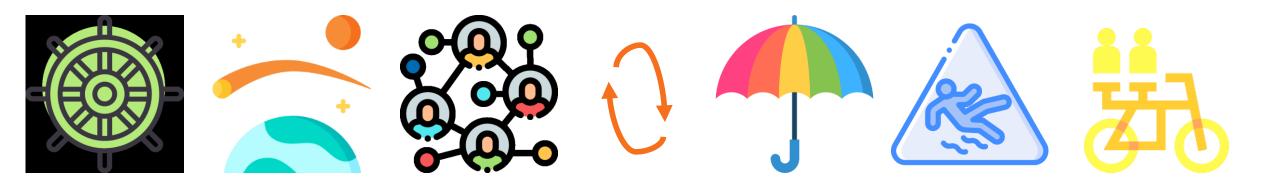


## Governance, Administration and Management of Biosphere Reserves and Protected Areas

#### Dr. Ana Filipa Ferreira & Lena-Marie Mutschler March 2024



**3** Organisation forms of Biosphere Reserves (BRs) and Protected Areas (PAs)

**4 Weber's characteristics of bureaucracy** 

**5 Good government and good governance** 

6 Landscape governance legal foundation

7 Landscape governance fragmentation

**7** Landscape governance fragmentation

#### Tabelle 2: Behördliche Zuständigkeiten der Nationalparkverwaltungen in Deutschland (Stand Februar 2013)

Nationalpark	UNB	ONB	ÖNB	UFB	OFB	UJB	OJB	OrdB	Gem	UFiB	NSFB
Schleswig-Holsteinisches Wattenmeer	×	×									
Niedersächsisches Wattenmeer	×										
Hamburgisches Wattenmeer			×								
Vorpommersche Boddenlandschaft	×			×				×			
Jasmund	×			×				×			
Müritz	×			×				×			×
Unteres Odertal											
Harz	×			×		×					
Hainich	×							×			
Kellerwald-Edersee	×			×		×				×	
Eifel				×							
Sächsische Schweiz											×
Bayerischer Wald				×		×					
Berchtesgaden				×		×					

- × behördliche Zuständigkeit
  UNB: Untere Naturschutzbehörde
  ONB: Obere Naturschutzbehörde
  ÖNB: Oberste Naturschutzbehörde
  UFB: Untere Forstbehörde
- OFB: Obere Forstbehörde

UJB:Untere JagdbehördeOJB:Obere JagdbehördeOrdB:OrdnungsbehördeGem:GemeindeUfiB:Untere FischereibehördeNSFB:Naturschutz-Fachbehörde

#### Quelle: Nationalparkverwaltungen

What degree of governance fragmentation is desirable for a Biosphere Reserve?

#### Multiple multi-directional interactions in Biodiv governance

## Multilevel governance

Interacting authorities on global, national, regional, local level

How are problems framed in terms of:

- 1. spatial scale and
- 2. level of politcal jurisdiction? (Biermann & Rakhyun 2020)
- → What is the appropriate scale and level for a given environmental problem?

N	Convention on Biological Diversity	
lav		
and	EU Natura 2000	2
ns		la,
Drn	National Ministry for	ng
DU	the Evironment:	isti
as,	national law and	exi
Development of new ideas, norms and law	Funding programmes	Enforcement of existing law
e K		en
of n	Biosphere Reserves	em
nt o		
nen	NGOs	Enfo
br		
/elc	Local Nature	
)e/	conservation	
	authorities	

Biermann, F./Rakhyun, E.K. (2020). Architectures of Earth System Governance. Setting the scene. In: Biermann, F. & Kim R.E. (2020). Architectures of Earth System Governance. Cambridge University Press. (1-34).

## **Governance fragmentation**

- Fragmentation: "continuous, non binary concept: more or less fragmented but not fully
- Comparable variable: governance architectures can be compared regarding their degree of fragmentation
- Can be assessed in comparitive research across policy areas and over time" (Biermann et al. 2020, 159-162)

- Fragmentation as independent variable: what are the effects of fragmentation?
- Fragmentation as dependent variable: why is there the degree of fragmentation that we observe?

Biermann, F./vanDriel, M./Vijge, M.J./Peek, T. (2020). Governance Fragmentation. In: Biermann, F. & Kim R.E. (2020). Architectures of Earth System Governance. Cambridge University Press. (158-179).

## **Governance fragmentation**

Typology of Fragmentation of Governance Architectures.

	Synergistic	Cooperative	Conflictive
Institutional integration	One core institution, with other institu- tions being closely integrated	Core institutions with other institutions that are loosely integrated	Different, largely unrelated institu- tions
Norm conflicts	Core norms of insti- tutions are integrated	Core norms are not conflicting	Core norms conflict
Actor constellations	All relevant actors support the same in- stitutions	Some actors remain out- side main institutions, but maintain cooperation	Major actors sup- port different in- stitutions

Table: Biermann et al. 2009, 19

Table: Bierman, F./Pattberg, P./vanAsselt, H. (2009). The Fragmentation of Global Governance Architectures: A Framework for Analysis. Global Environmental Politics, Volume 9, Number 4, November 2009, 14-40.

## Norm conflicts

#### Waterway authority

Federal authority

Focus on: Shipping conditions



https://www.nationalpark-unteres-odertal.eu/grenzueberschreitend/

Biosphere Reserve/National Park

State authority (BB)

Focus on: Nature conservation Habitats depend on river



"(...) borders and scale are both materially and socially constructed" (Reed & Bruyneel 2010: 647).

#### Scale

= "spatial category that affects the construction of models and the transfer of results across levels of observation" (Reed & Bruyneel 2010: 647)



Reed, M. G., & Bruyneel, S. (2010). Rescaling environmental governance, rethinking the state: A three-dimensional review. Progress in human geography, 34(5), 646-653.



Physical geographers, natural scientists perspective:

"the temporal and/or spatial range and magnitude of a process or observation" (Silver 2008: 922)

#### VS.

Human geographers, social scientists perspective: "social organization and the interactions between levels of organization" (Silver, 2008).

A relationship that is "continuously being defined, contested, and reconstructed based on power relations between actors across many political and economic levels" (Silver 2008: 925).

Silver, J. J. (2008). Weighing in on scale: synthesizing disciplinary approaches to scale in the context of building interdisciplinary resource management. Society and natural resources, 21(10), 921-929.



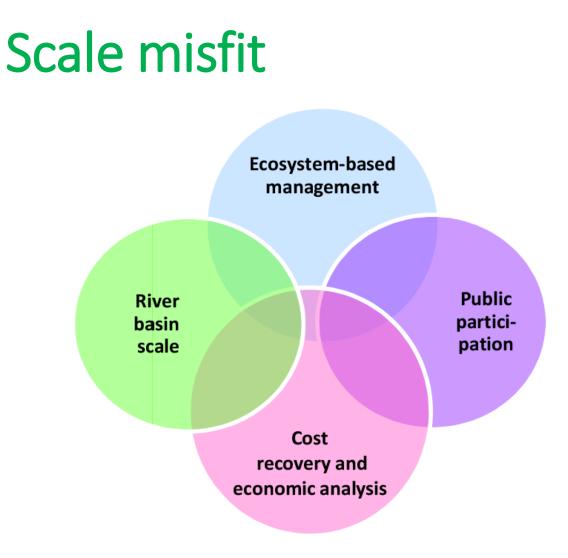
## SCALE MISFIT IN ECOSYSTEM SERVICE GOVERNANCE AS A SOURCE OF ENVIRONMENTAL CONFLICT

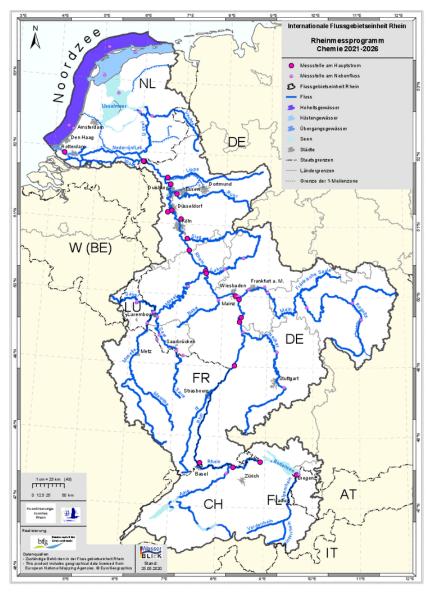
"... assess the scales at which ecosystem services are supplied, demanded, and governed and discuss scale misfits in relation to historical conflicts over access to ecosystem services."

"Our results suggest that

multilevel governance regimes that promote coordination and institutional diversity across scales while respecting local sovereignty over ecosystem management are more likely to prevent environmental conflicts and to produce better outcomes regarding the long-term sustainable use of ecosystem services."

Gómez-Baggethun, E., Kelemen, E., Martín-López, B., Palomo, I., & Montes, C. (2013). *Scale misfit in ecosystem service governance as a source of environmental conflict*. Society & Natural Resources, 26(10), 1202-1216.





#### Figure 3.1 in

Hernández-Mora Zapata, N. (2016). The water framework directive, paradigm shift or unrealized promises? A critical evaluation of its implementation from a boundary, economic and socio-political perspective.

ICPR – International Commission for the Protection of the Rhine: https://www.iksr.org/en/topics/water-quality/monitoring-of-the-state

## Interplay management

*"deliberate efforts to improve the interaction of two or more institutions that are distinct in terms of membership and decision-making but that deal with the same issue, ususally in a non-hierarchical manner*" (Stokke 2020, 208).



"Societal and ecological processes work together to articulate different scalar forms of organization and to frame environmental problems and their proposed solutions" (Reed & Bruyneel 2010: 647)

Reed, M. G., & Bruyneel, S. (2010). *Rescaling environmental governance, rethinking the state: A three-dimensional review.* Progress in human geography, 34(5), 646-653.

Stokke, O.S. (2020). Interplay management. In: Biermann, F. & Kim R.E. (2020). Architectures of Earth System Governance. Cambridge University Press. (207-232).

## Landscape Management and regional development in PAs with **Projects – NGOs working in Biosphere Reserves**

- EU funding
- National programmes
- $\rightarrow$  Larger investments: visitor infrastructure, restoration





Europäischer Landwirtschaftsfonds für die Entwicklung des ländlichen Raumes





# NGOs and state organizations agenda setting

- Partnerships and agenda setting
- Project proposals

Example: WWF and the Donauauen National Park in Austria

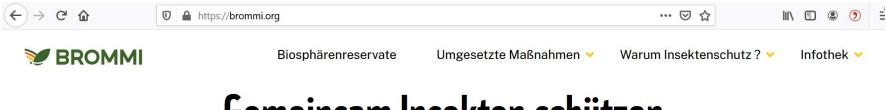


WWF (1984). Rettet die Auen. From: infothek Nationalpark Donauauen 2020. https://infothek.donauauen.at/infothek/folder/wwf-auenbuero-6.html

#### **WWF Brommi Project**

- Political interest in insect conservation
- Political interest in river restoration

 $\rightarrow$  Funding programmes  $\rightarrow$  NGOs

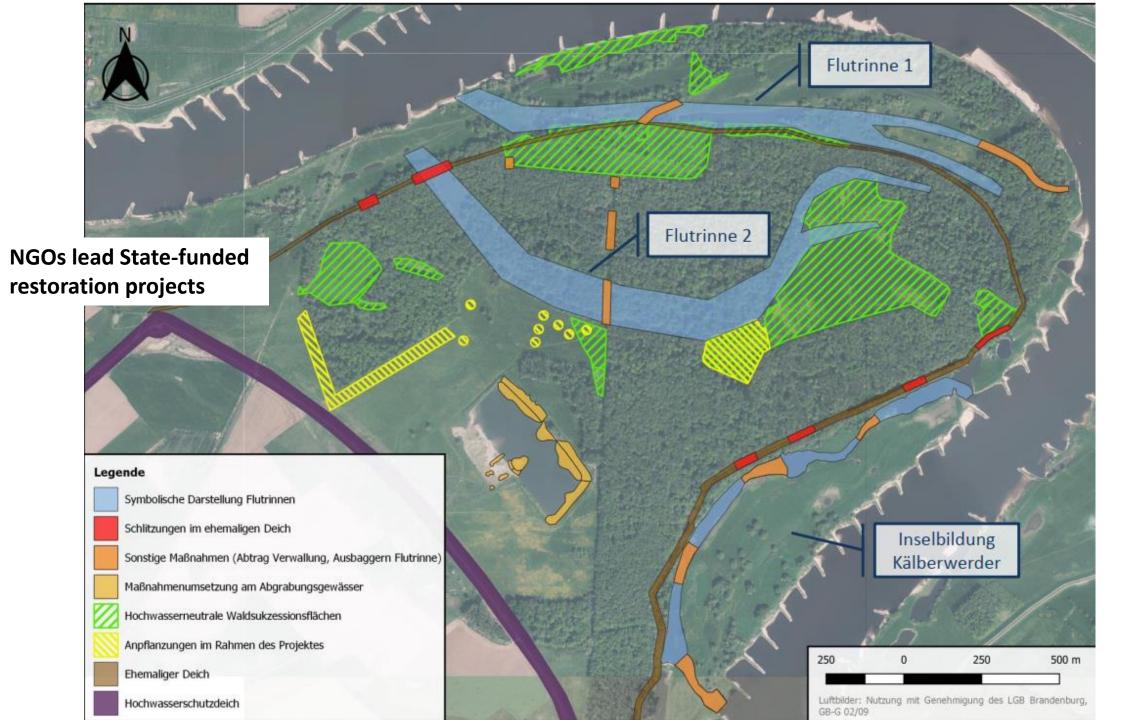


## Gemeinsam <mark>Insekten schützen</mark>

#### BROMMI steht für das Projekt "Biosphärenreservate als Modelllandschaften für den Insektenschutz".

Hier werden fünf deutsche Biosphärenreservate zu Modelllandschaften für den Insektenschutz, um sinnvolle Maßnahmen für lokale Landnutzer:innen und politische Rahmenbedingungen zu entwickeln.





#### **Projekt presentation Elbe**



 NGOs lead statefunded restoration projects



https://www.nabu.de/spenden-und-mitmachen/patenschaften/fluss/

#### Biodiversität und Schutzgebietssystem Natura 2000-Gebiete



© MF LSA

#### Höhe der Förderung

• 100 % der förderfähigen Ausgaben, sofern sich die Vorhaben auf

 die Verhinderung einer Verschlechterung, Erfüllung der Pflichten und ggf. die Wiederherstellung gemäß
 Vogelschutz- und FFH-Richtlinie beziehen

die Umsetzung der Biodiversitätsstrategie des Landes
 Sachsen-Anhalt durch das LAU, den Nationalpark Harz,
 die Biosphärenreservate Mittelelbe und Karstlandschaft
 Südharz, den Naturpark Drömling und die S.U.N.K. beziehen

- die Erstellung und Fortschreibung von Pflege und Entwicklungskonzeptionen in Naturparks beziehen

### BRs and other PAs rely on third party funding for their projects

- 80 % der förderfähigen Ausgaben bei sonstigen Vorhaben, bei modellhaften Vorhaben bis 90 % möglich
- 80 % (in begründeten Fällen 100 %) für Landankäufe
- Mindesthöhe der Förderung: 5.000 Euro
- Förderhöchstsumme: 750.000 Euro je Projekt (nicht für Landesamt für Umweltschutz (LAU), Nationalpark Harz, Biosphärenreservate Mittelelbe und Karstlandschaft Südharz, Naturpark Drömling, Landesforstbetrieb und das Landeszentrum Wald)

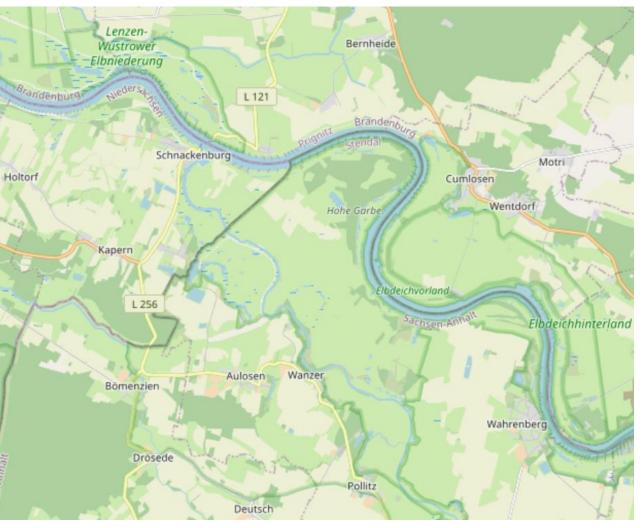


ELER Projekt "Natura 2000 Sensibilisierung im Nordosten Sachsen Anhalts entlang von Elbe und Havel" (*Natura 2000 awareness-raising in north-east Saxony-Anhalt along the Elbe and Havel*)

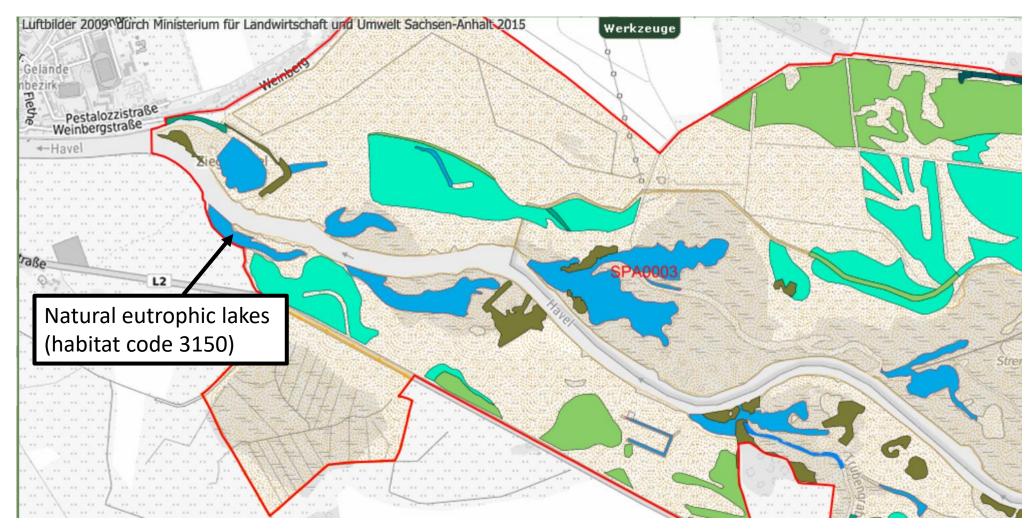






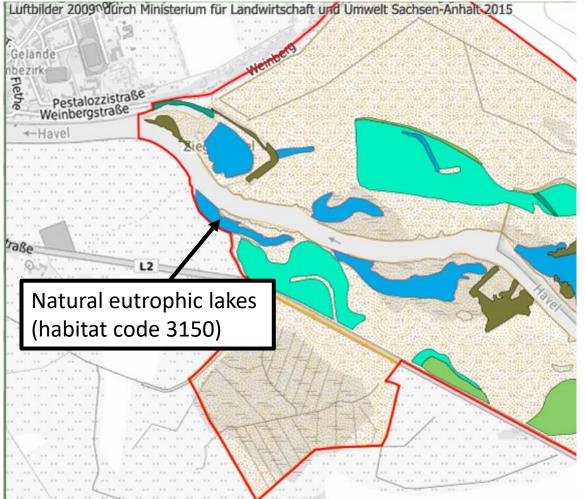


### Natura 2000 and river restoration



Natura 2000 Information System Ministry for the Environment, Agriculture and Energy of the State Sachsen-Anhalt (2020): interactive map. <u>https://lvwa.themenbrowser.de/UMN\_LVWA/php/geoclient.php?name=natura2000bestand</u>

#### Natura 2000 and river restoration



## NATURA 2000 Code: 3150 **Definition:**

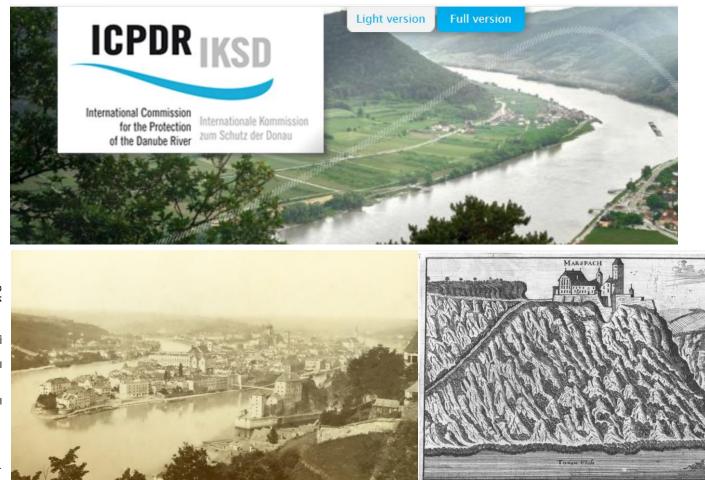
"Natural eutrophic lakes and ponds including their shoreline vegetation with floating and submerged aquatic vegetation; e.g. with duckweed communities (Lemnetea), pondweed communities (Potamogetonetea pectinati), Water-soldier (Stratiotes aloides) or Bladderworts (Utricularia ssp.). The European Commission has clarified that - depending on the definition of the term 'natural' - this habitat type may be primary or secondary (e.g. ponds) if its occurrences are subject to (semi-) natural development.

Non-environmental standing waters and hypertrophic waters are not to be included. Ox-bows as well as partial ox-bows with no throughflow are to be included (even if artificially created)". Federal Agency for Nature Conservation (2020). Natura 2000 code 3150. <u>https://www.bfn.de/en/lrt/natura-2000-code-3150.html</u>

Natura 2000 Information System Ministry for the Environment, Agriculture and Energy of the State Sachsen-Anhalt (2020): interactive map. <u>https://lvwa.themenbrowser.de/UMN\_LVWA/php/geoclient.php?name=natura2000bestand</u>

#### Actors

#### Regional and other mulitlateral organisations



**Danube River protection convention** (whole catchment area including all tributaries)

- International convention on shipping regulations since 1856
- Requirements for renaturalisation and prohibition of deterioration under the EU Water Framework Directive since 2000

Georg Matthäus Vischer (1674): Burg Marspach. https://de.wikipedia.org/wiki/Burg Marsbach#/ media/Datei:Marsbach Vischer.jpg

#### Actors

#### NGOs, partnerships and agenda setting



http://www.keybiodiversityareas.org/kba-partnership/kba-committee

## Global Environmental Politics Actors

Nongovernmental Organisations



- Red lists
- Categories of Protected
  Areas
- KBAs
- Papers
- →Agenda Setting and international standards

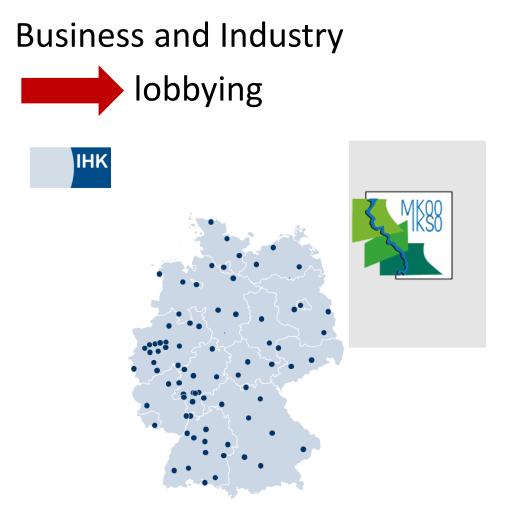
>1400 members : governmental organisations (ministries, conservation authorities) and NGOs

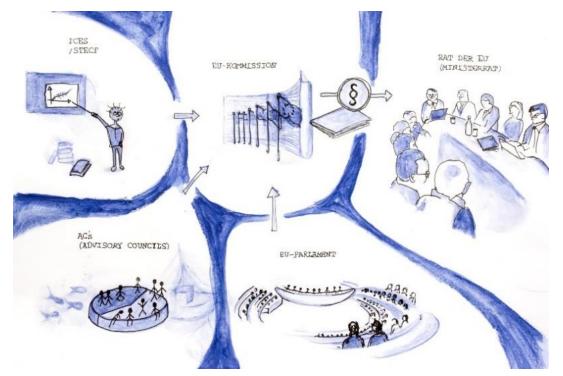
https://www.internationalrangers.org/



https://eeb.org/

## Global Environmental Politics Actors







## Thank you for your attention!

