FREIBURG

Layouts and principles for a sustained services' provision:

UNESCO Biosphere Reserves as a key approach for multiple scale and urban spatial planning.

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Moving to town: agglomerating and compromisting service provision

- Urbanization is primarily threatening habitat loss
- ... thus biodiversity
- Land-use decisions in urbanizing areas are mainly made at the local level,

 Land-use planning by municipal planning departments has a potentially important—but largely unrealized—role in conserving biodiversity (Stokes, Hanson et al. 2009).

Local governments' scale: (urban) development

... largely unrealized—role in conserving biodiversity ...

...on the other hand, local administrative units, commonly responsible for the scale at which urban development is planned, fail to integrate conservation land into their land-use plans.

Public services a way to legitimize the State

- The provision of universal public services, has been addressed as "universal service obligations" (USA, AUS), "public service" or "services of general economic interest" (GB), as "service de interêt géneral" (F) and as "Daseinsvorsoge" (D).
- Among the diversity of the term, "Deseinsvorsoge" was already conceived in the late 1920s but until the 1970s understood by the State, according to E. Forsthoff as a way of State legitimation.

- Forsthoff defined the term "public servcies" (Daseinsvororge) as the provision of services, for and by people in their modern massified life styles, as indispensable for life.
 - Inlcuding: provision of gas, water, energy, drainage and public transport.
- A rather modern view is presented as the wide provision and coverage, subject to political responsibilities, of goods and services indispensable to life and are sustainable in costs.
 - The concept today: provision of water, gas, electricity, postal service, telecommunication and public transportation, care in case of illness, aging, disability or handicap and unemployment. ... ecosystem services' functional conservation...
- The limits of provision remain at the core of discussion and missing definition.

Services as matter of both "private" & public responsability

 The last decades: marked by the process of market liberalization and privatization.
 Provision shifted towards one of private and public organization.

This newer arrangement has rather characterized the State as a public services' warranting actor instead of the traditional common-wealth provider.

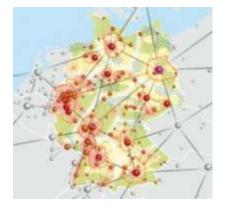
Nevertheless, few common-wealth services can be taken by the process of liberalization and privatization and thus, <u>most</u> of the common-wealth services <u>remain</u> under public domain.

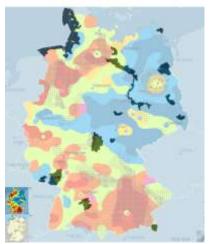
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Polycentricity – networks of services

- When looking back at the spatial development of regions, polycentricity has proven to be a good approach for a balanced development.
- The concept links the provision of infrastructure and services with general principle or model of "decentralized concentration" (Germany)
- The municipal character is not only defined by supplying function in benefit for its population (urban development), but includes also an influence – service provision beyond its jurisdiction.

Policentrycity: influence & supplying centers' area and beyond





UNESCO MaB Biosphere Reserves: Spatial models for sustainable development



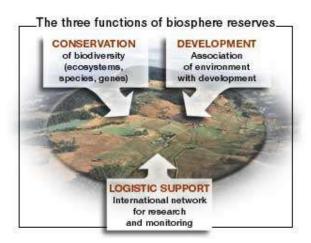


Core Area
Buffer Zone
Transition Area

Functional zonation

- ✓ Conservation
 - Conservation in situ of natural and semi-natural ecosystems
- ✓ Development
 - Demonstration areas for sustainable uses
- ✓ Logistic Support
 - i.e. for research, monitoring, education, training and information exchange





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The UNESCO Man and Biosphere Programe

- Although the Man and Biosphere program (MaB)
 has changed throughout its history, MaB
 continues to stream most of its activities through
 themes which are dominated by conservation
 aspects.
- While F. Di Castri together with M. Batisse, nurtured the birth and development of the BR concept, addressing aspects of settlements too, the idea or urban connotation has kept controversial and considered misleading to the purpose and meaning of the BRs.

BR's as models of land management



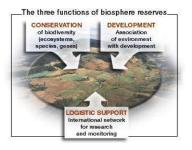
- However, BRs are designated under the objective of being as models of land management and approaches to sustainable development.
- These territorial models are not only meant to include lands reserved for conservation purposes – but also for multiple other land uses.

Multiple scale and urban spatial planning.



Conservation

Logistic support



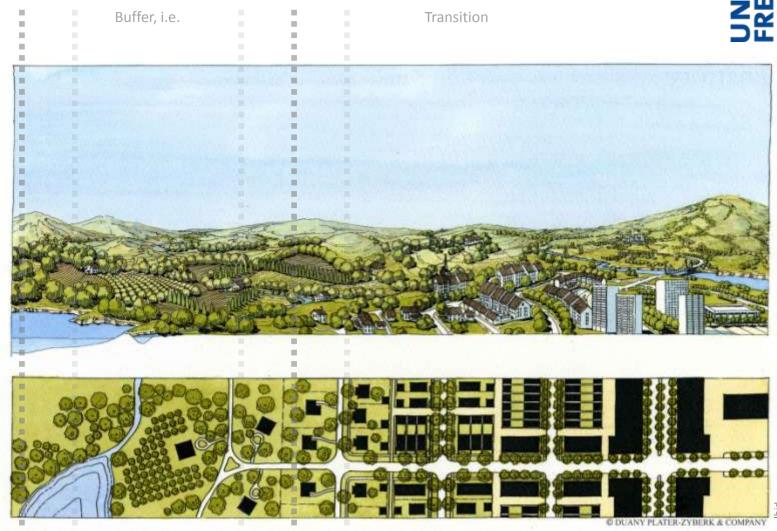
Development (growth)

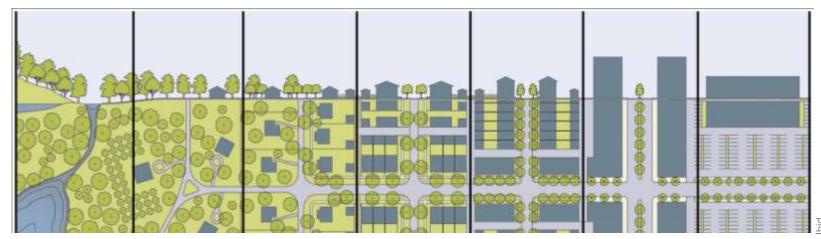
Conservation & Logistic support

Biosphere Reserve's scenarios



Core area





Ecosystem services

nutrient cycling soil formation primary production food fresh water wood and fiber fuel

climate regulation flood regulation disease regulation water purification aesthetic spiritual eduational recretaional

Public services

cultural supply
education facilities
child care
public health service and
old-age provisions
finance and insurance
services
disaster relief,
fire brigade
medical services

police squad social infrastructure (sport venues, cemeteries, etc.) transport infrastructure transport services like school & public transport communication services energy provision water supply & distribution dike construction housing industry / public housing)

Provision of services: the scale of planning





















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BRs embrace: sustainable spatial planning

Sustainable spatial planning is concerned with long-term scope and strategies for territories with coordinated sectoral policies and guided by the sustainable planning principles with the objective of territorial cohesion (UNECE 2008).

BRs embrace: sustainable spatial planning



- 1983: CEMAT for coordinated planning
- 1992 Rio Declaration for integrated planning
- 2008: UNECE for planning principles
 - democratic principle
 - **subsidiarity** principle
 - participation principle
 - integration principle
 - proportionality principle and
 - precautionary principle



- Paths point to the BR tool...
 - Sustainable spatial planning aims at:
 - vision and consistent direction
 - protect the rights of people
 - protect natural systems
 - efficient use of resources
 - higher quality of service delivery by all spheres of government
 - coordinate actions and investments to ensure positive impact
 - set priorities
 - avoid duplication of effort by different departments and spheres of government

- In urban settings, Protected Areas (PA) are a coarse tool a land use tool without context. BR provides planning context to make the PA viable.
- CEMAT and UNECE planning principles and the UNESCO MaB BRs objectives share equivalent objectives for sustainable land use planning.
 Each approach has recently contributed to cross-cutting legal frameworks, sectoral policies and new governance mechanisms that can be instrumentalized through the BR designation.
- The world network of BRs; made of BR units strech as intergovernmental designated network units that embody the interplay between geopolitics in multi-scale provision of public and ecosystem services and serve the interests of (sustainable) development.
- In response to the needs of complex and dynamic governance settings, BRs offer a flexible UN-intergovernmental tool and frame for urban & conservation spatial planning.



Thank you!

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