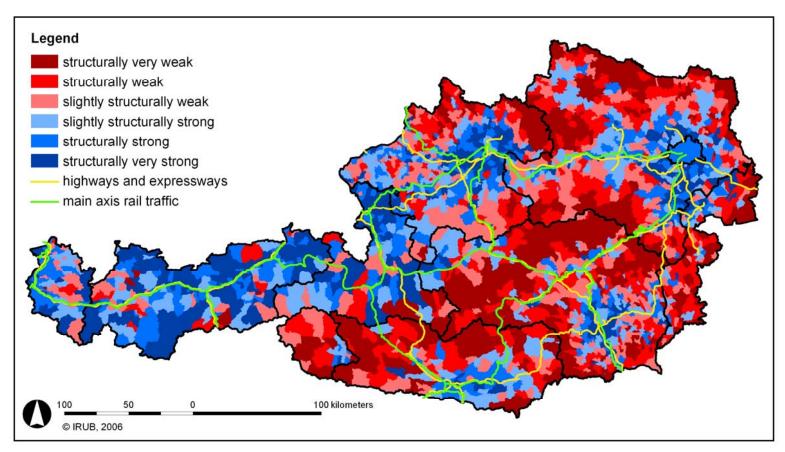


Spatial distribution of structurally weak and structurally strong municipalities in Austria 2001



Indicators:

population development, number of women in employment, number of employees, employees in agriculture and forestry, outbound commuters with more than 45minutes of commuting time, ratio of non-commuters, number of overnight stays, tax revenue per capita

The Reel of lack of jobs **Unfavorable Developments** selective migration: brain drain, loss of spirit, decreasing of community life loss of fecundity declining attractivity loss of political importance of locations shrinkage and aging of population loss of the thinning out of "critical mass" infrastructure decreasing of financial power doubtful future of private households reduction of further migration public investments thinning out of daily supply decreasing of insufficient utilization public budgets of available infrastructure

Shrinkage





- continuing loss of jobs
- steady population decline (continuous emigration, high mortality rate, low birth rate)
- relative decline of economic performance in regions
- high number of outbound commuters
- high rate of abandoned residential buildings, plants and stores
- under-use of technical infrastructure
- private housholds suffer a loss of purchasing power
- diminished financial power of public authorities

Shrinkage

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- physical reduction in density
- functional segregation
- social erosion

initial hypothesis of a survey:

- shrinkage is perceived but not embraced by spatial planning
- despite continuing processes of shrinkage spatial planning focuses on growth strategies
- no active designing and accompanying of shrinkage





Schrumpfung

die Achillesferse der (Raum)Planung

G. WEBER, J. SCHMID, K. M. HÖFERL, G. STÖGLEHNER, M. KRAMMER, V. PEER



Im Auftrag des Club of Vienna (COV) Wien 2008







3 Workpackages of the Survey



- the phenomenon of shrinkage in planning theories and overall concepts of spatial planning (more than 80 theories and 25 mission statements)
- the phenomenon of shrinkage in spatial planning policy and practice
- the key points of a shrinkage oriented spatial planning system



Analysis of the Theories Resulted in:



- theories based on economic sciences
- error in reasoning: the discussions are based on borderless systems
- no limits to growth
- shrinkage is viewed as a failure of the system
- overcoming the disorders



Analysis of the Empirical Investigation Resulted in:



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(Investigation of 6 rural communities and 1micro-region)

Downward trend of key indicators for decades:

- awareness of the "general decline of development"
- designing processes of shrinkage is not an issue
- alternatives to the dictate of growth are not identified
- options of "stabilization" or "organized withdrawal" are excluded from the start

Conclusion:

- shrinkage is associated with "failure"
- growth strategies are focused on
- the targets of growth are not reached
- "stabilization" or "complete organized withdrawl" are not taken into account
- no arrangement for further declining trends
- a re-evaluation of shrinking processes is necessary:
 - Evolutionary Cognitive Science (R. Riedl)
 - Overall Concept of Sustainable Development





Re-evaluation of Shrinkage

1. Evolutionary Cognitive Science I (R. Riedl)





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- nature is a finite system
- development in circuits
- infinite growth is impossible

oral

Phase of Maturing

Phase of Shrinkage

Phase of Growth

growth is designed as a temporal process of transformation

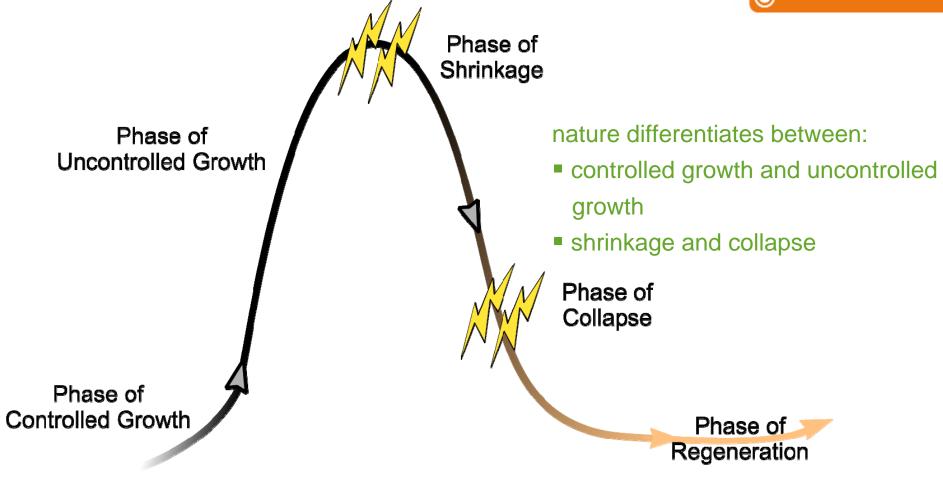
> it is a controlled process

Phase of Regeneration

1. Evolutionary Cognitive Science II (R. Riedl)









Conclusion:

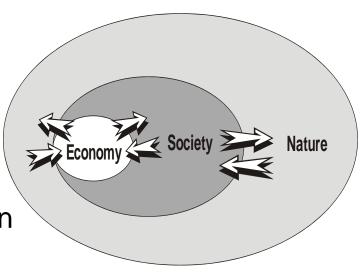


- permanent growth is a legend
- growth and shrinkage ist to be kept under control
- shrinkage too is to be designed
- spatial planning has to work on processes of growth and shrinkage in parallel

Re-Evaluation of Shrinkage

2. Overall Concept of Sustainable Development

- integrative perspective
- shrinkage has to be controlled and designed
- fundamental value: dematerialisation
 - sufficiency
 - efficiency
- sustainable development removes the taboo and the stigmata of "shrinkage"



How can spatial planning successfully controll and design shrinking processes?

Developing Visions for Shrinking Regions

"Peace for the Landscapes" (ENGLER, 2004)

- area for relaxation and regeneration
- no intention to adjust to growing regions
- reinterpretation of the regional quality of life: peace, slowness, self-sufficiency
- regional economic relations
- cost-efficiency





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Safeguarding Supply

- bundling (multifunctional local supply)
- disentangling (development of regional power supply systems)
- making more flexible (mobile service supplier)
- enforcing thrifty, innovative technologies (low-energy houses)





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Downsizing of Overcapacities

- buildings:
 - no more green-field development
 - redesign of built-up areas
 - demolition of excess building capacity

• infrastructure facilities:

- scaling down
- centralizing
- de-centralizing
- substituting of facilities (BBR, 2005)





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- Modification and Expansion of Instruments
 - breaking down "the principle of protecting existing built structures"
 - developing "plans for inward development"

Expansion of Role Perception

Spatial planning has to take the role of a

- communicator
- mediator
- moderator

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Adequate Funding

- enforcing investments in projects of consolidation and "organized withdrawal"
- financing further education, negotiation processes, conversion and withdrawal projects, remediation, improvement of the quality of life

Building Bridges to Strategic Issues

- the current financial and economic crisis
- climate protection
- supply of regenerating energy and resources
- demographic change
- alternative transport policy

• ...





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"Accomplishing a control of shrinkage is considerably more complicated and politically more challenging than the control of growth."

MÜLLER, 2003





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Thank You for listening!

University of Natural Resources and Applied Life Sciences Vienna

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