

IP Urban Transformations

Sustainable Urban Development towards Resource Efficiency, Quality of Life and Resilience

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Web Page : www.ufz.de/stadt



Fast growing cities



Shrinking Cities



Resource Efficiency



Resilient cities



Demographic change

ABOUT THE PROJECT

The **IP Urban Transformations** aims at developing a range of options for achieving sustainable urban development in order to balance the quality of life, the use of resources and the resilience of cities. From this perspective, our research takes into account the interlinkages between the population development (shrinkage or growth) and its implications for land use, ecosystem services, water and energy supply and infrastructure development.

The IP creates a platform where the social, political and scientific spheres can interact to develop new approaches, instruments, mechanisms and solutions in order to translate scientific results into urban practices.

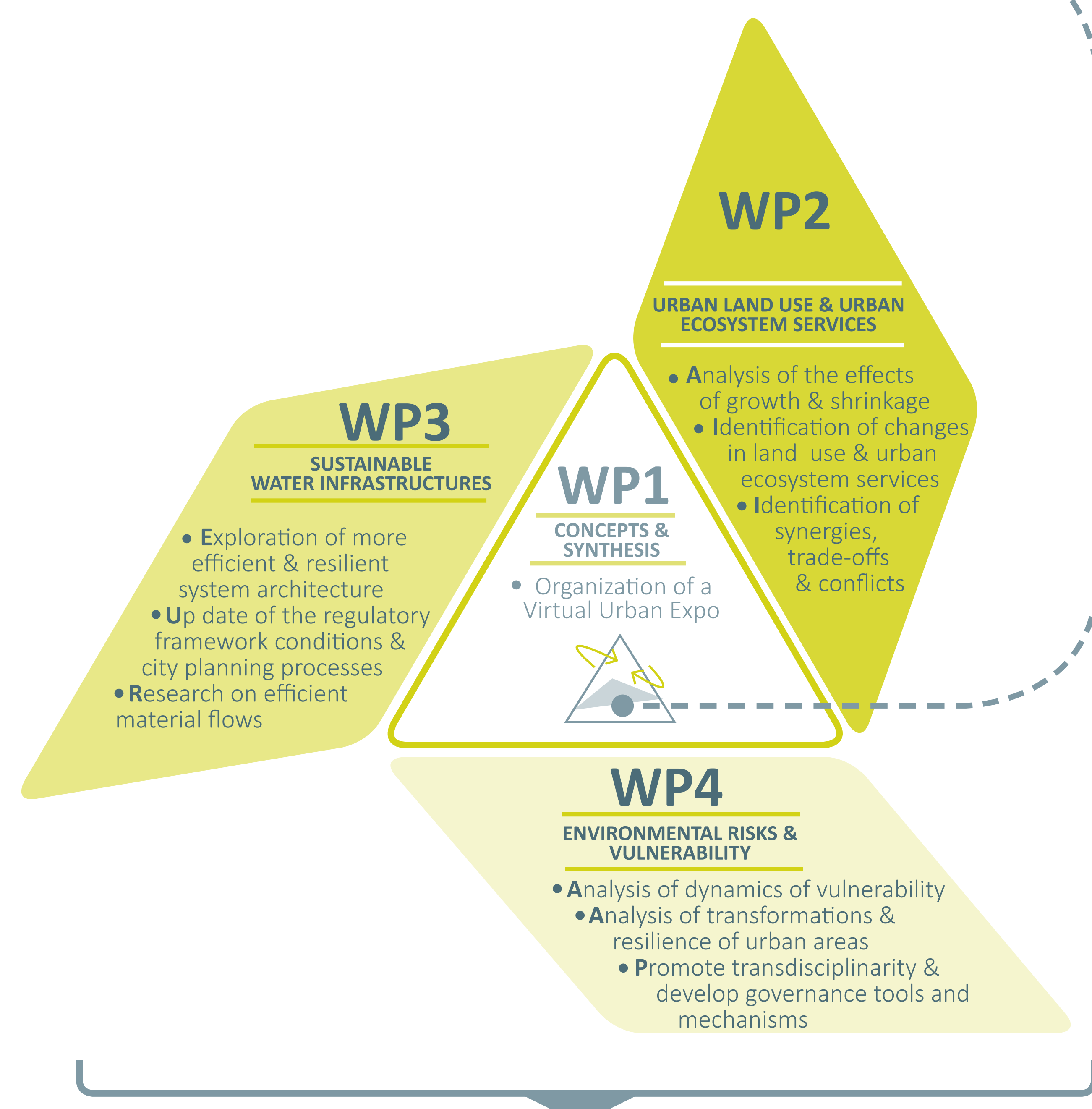
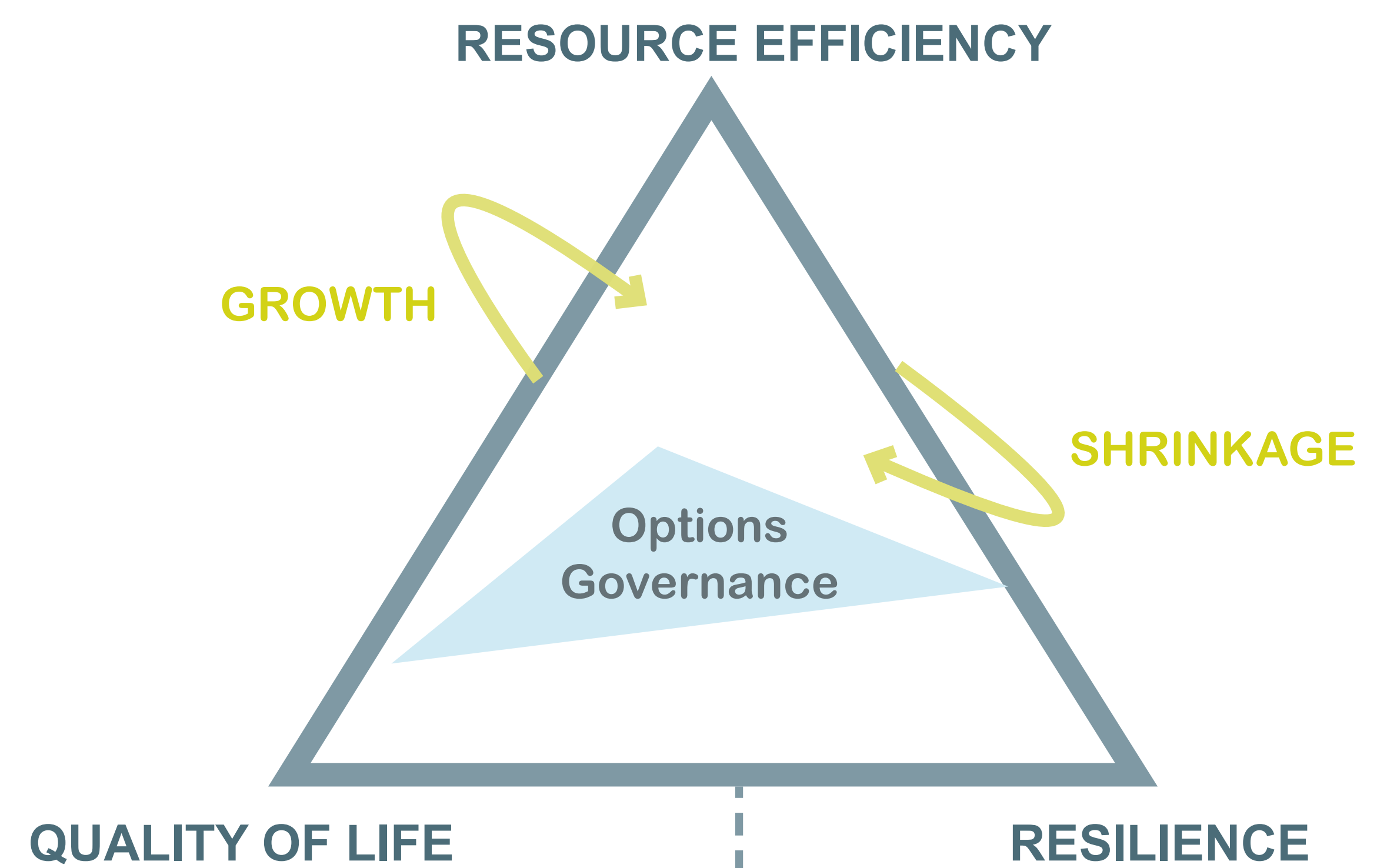
RESEARCH QUESTIONS

- 1 What are the central drivers and consequences of urban transformations?
- 2 What instruments and mechanisms can be used to achieve a sustainable urban development?
- 3 How can the urban society contribute to a sustainable use of resources?
- 4 Are cities able to self-organise and act independently?

RESEARCH OBJECTIVES

- **Secure resource efficiency** concerning urban land use and adapted water infrastructure
- **Improve the urban quality of life** by ensuring the existence of urban ecosystem services and fair energy provision as well as achieving environmental justice
- **Increase the resilience of cities**, their inhabitants and infrastructure to unexpected events such as environmental hazards
- **Develop, assess and optimise options and strategies** for sustainable urban development specifically related to resource efficiency, quality of life and resilience

IP CONCEPT



Evaluations, Recommendations and Solutions towards Interdependencies of Resource Efficiency, Quality of Life and Resilience