

Dresden Nexus Conference

Session B.2 – Smart Green Cities and the Water-Soil-Waste-Energy Nexus

Only prospering cities smart and green?
And how about the water-soil-waste-energy nexus
in stagnating and declining cities?

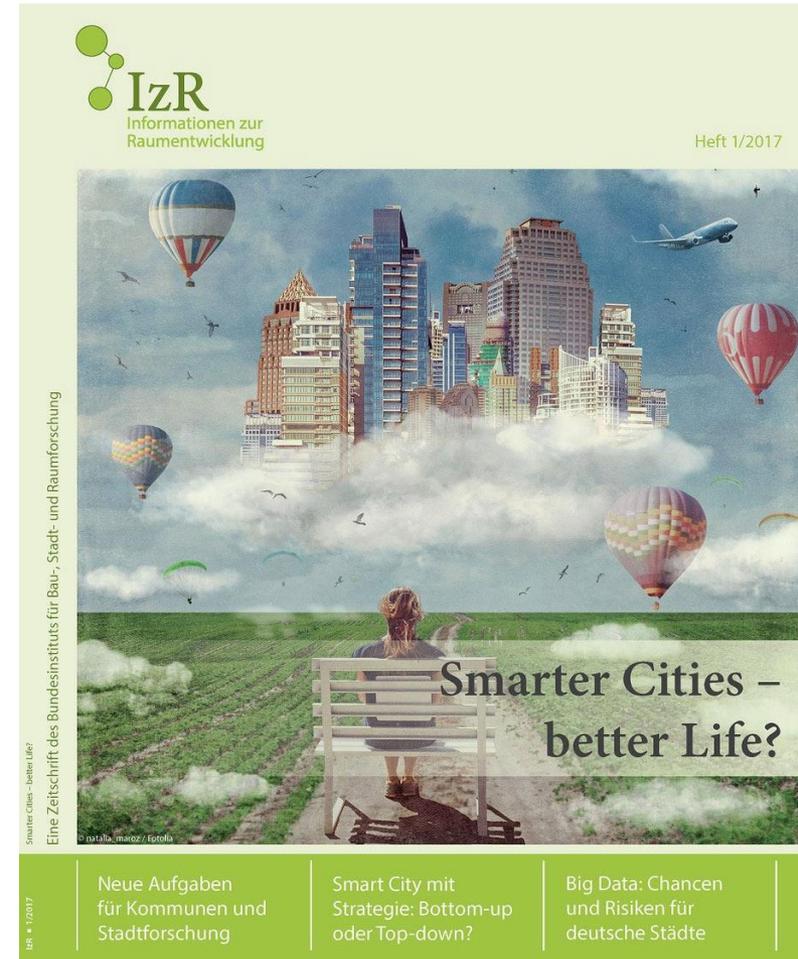
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Transformation



Smart cities?

- „Smart cities - better life?“
- Zukunftsstadt: energy turnaround and sustainable economies
- „Smart cities“: London, Wien, Barcelona, Amsterdam, Berlin, Hamburg, Köln, Ulm, Gelsenkirchen, Oldenburg, ...
- Smart country
- ressourc efficiency, digital innovation, governance reform, ... (Joss et al. 2006)
- quality of life, competitiveness, ...



Smart cities?

- debate driven by urbanisation?
- only relevant for growing cities and metropolises?



The New Urban Agenda

if not:

- what is the meaning of smartness for cities in transformation (demographic, socio-economic)?
- how to implement features of smart cities into "existing" cities and urban texture?
- how the paradigm of smart cities can be used for urban transformation?



How about shrinking/stagnating and small/middle sized cities?

Framework conditions

- space (+)
- proximity (+)
- aging, brain drain (-)
- potential/readiness for transformation and innovation (?) (+)



Impulses

“Living on trial in Görlitz”
- the external view -



Impulses

“Living on trial in Görlitz”
- the external view -

Who was interested in living on trial?

- between 60 and 69 years (34%)
- from bigger cities above 100,000 inhabitants (50%)
- motivation to move: prices, noise, environment, ...

Impulses

“Living on trial in Görlitz”
- the external view -

General assessment:

- very positive
- 47%: can imagine to move to Görlitz (+ 31% under circumstances)
- 40%: much better or better quality of living than at home

Impulses

“Living on trial in Görlitz”
- the external view -

Assets:

- historic old town, atmosphere (90% very positive or positive)
- security and tidiness (90%)
- parks, green infrastructure (80%)

Weaknesses:

- green spaces in close neighbourhood
- shopping facilities
- place to park the car

Impulses

“Living on trial in Görlitz”
- the external view -

Expectations:

- lift (>50 years 66%, <50 years 9%)
- car-parking space (40%)
- barrier-free accessibility (>50 years 67%, <50 years 12%)
- Ambient Assisted Living (>50 years 15%, <50 years 5%)

Impulses

“Quality of life DE-PL”
- the internal view -

General assessment: High level of quality of life (incl. green infrastructure)

Weaknesses:

PL - environmental quality (air pollution, waste disposal, noise)

PL - municipal crises management (flooding, crime prevention)

DE - security

An alternative (research) agenda

Smart and green cities: Which role play shrinking/stagnating and small/middle sized cities?

1) What is the potential of “existing” cities getting smart and green?

- resource efficiency (built environment, energy efficiency, transport etc.)
- cultural heritage (and memory)
- transformation potential (human resources, proximity, “alternative” sustainability initiatives)
- biodiversity



An alternative (research) agenda

Smart and green cities: Which role play shrinking/stagnating and small/middle sized cities?

2) What are barriers of making “existing” cities smarter and greener?

- transformation of (energy, water) infrastructure
- conflicts (heritage protection, ...)
- financing
- ...

An alternative (research) agenda

Smart and green cities: Which role play shrinking/stagnating and small/middle sized cities?

3) How to accelerate urban transformation towards "smartness"?

- (planning) instruments / incentives
- processes / participation / activation



Contact

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