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Federal Institute for Research on Building, Urban Affairs and Spatial Development within the Federal Office for Building and Regional Planning

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AGENDA



- 1. The political objective of "no net land take"
 - Short historical outline
 - Related political objectives
- 2. Current challenges of urban land take
 - Current political discussion
 - Land use scenarios for Germany
- 3. Outlook What would have to be done?

THE POLITICAL OBJECTIVE OF "NO NET LAND TAKE" - SHORT HISTORICAL OUTLINE



1997/1998

- Enquete Commission "Protection of people and the environment
- Necessity of limiting the use of new land worked out

2004

German
 Council for
 Sustainable
 Development:
 Guideline
 "More Value for
 Land"

2007-2012

 BMBF: REFINA
 Confirmation of the area target in the progress reports on sustainable development

2021

• Current federal governme nt confirms the goal in the coalition agreement

25 years of political awareness, research and development of concepts

2002

- National sustainability strategy adopted by federal cabinet (21 indicators)
- One target: reduce land take to 30 ha per day by 2020
- Formed the German contribution to the Rio follow-up conference in Johannesburg

2007

•Quality objective: Steer land take toward the reuse of land, redensification and other measures for internal development through an overall ratio of internal development to external development of 3:1.

2016

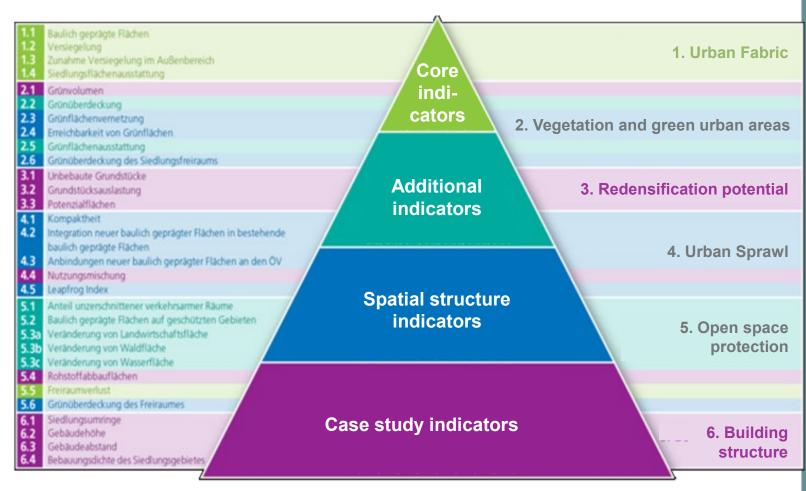
 Adjustment of target by federal government: 30 ha by 2030

Source: Jakubowski & Dosch 2023

THE POLITICAL OBEJCTIVE OF "NO NET LAND TAKE" – RELATED POLITICAL OBJECTIVES



- In addition to the actual land use, however, the consideration of other indicators is relevant und currently under discussion for the Revision of the SDG indicators:
 - Stop decreasing settlement density
 - Reduce loss of open space
 - Reduce urban sprawl
- INCORA Project developed a set of indicators to describe the quality of land take



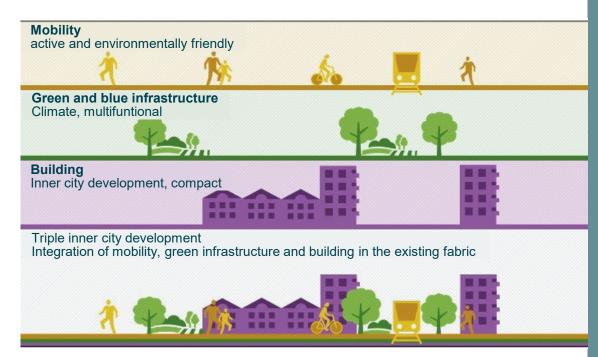
Source: Eichfuss et al. 2021 (https://doi.org/10.26084/13dfns-p017)

DO WE NEED NEW OBJECTIVES?



- New discussion in Germany about new/other objectives and indicators to measure land take and open space protection
 - triple inner city development
 - re-use of brownfield sites, closure of gaps between buildings and redensification
 - maintaining, expanding and preserving open spaces as well as to enhance the network and quality of open spaces
 - reuse / redistribute traffic areas
 - Complete open space protection
 - Are free-field photovoltaics settlement and transport area or not?
 - Is the 30-ha objective achievable with expansion of free-field photovoltaics?

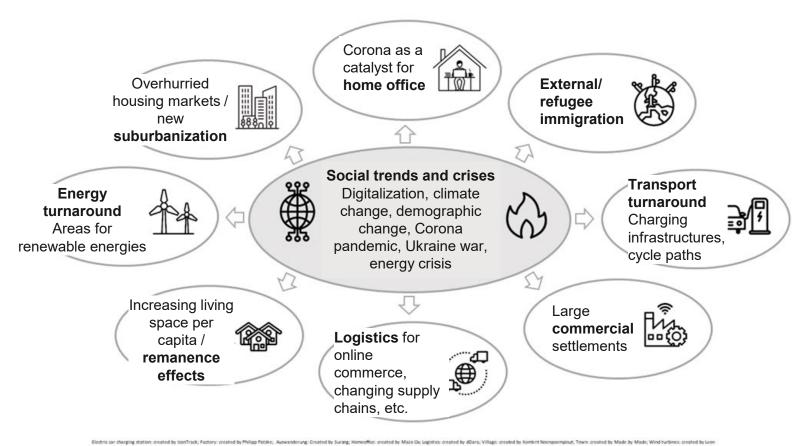
→ Outcome unclear!



Source: Karl Eckert, UBA 2023

WHAT IS THE REAL PROBLEM?





Source: ILS-Research on behalf of BBSR 2022

→ Megatrends with potential conflicts: climate change, demographic change, energy crisis, immigration

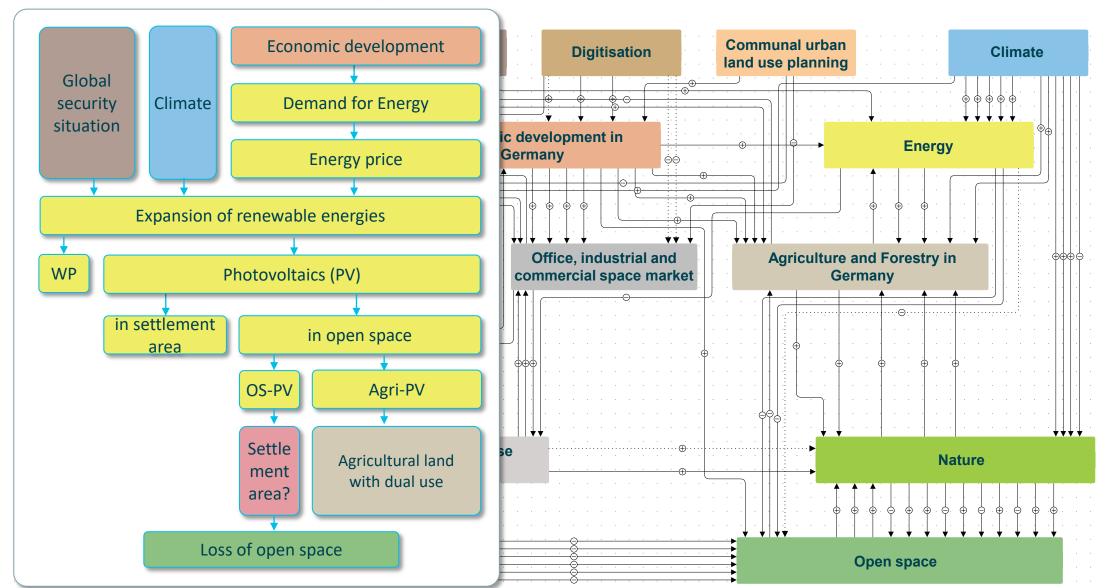




- New research project at BBSR on behalf of UBA (March 2023 February 2026)
- Objective is to quantify loss of open space until 2030/2050 in Germany taking into account the numerous competing land claims
- We first captured the mechanisms/drivers for the different types of open space loss.
 This has become quite complex

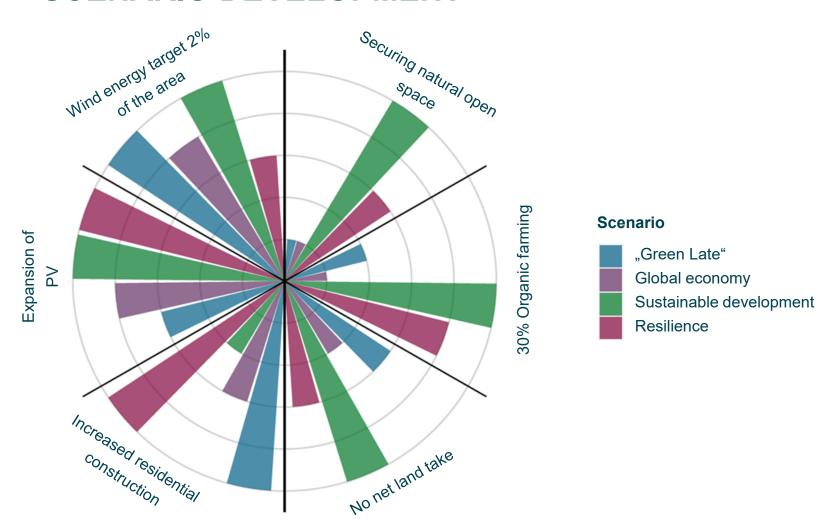
LAND USE SCENARIOS FOR GERMANY – DRIVERS OF CHANGE (SUMMARY)

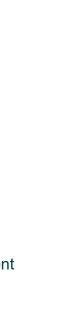




LAND USE SCENARIOS FOR GERMANY – SCENARIO DEVELOPMENT





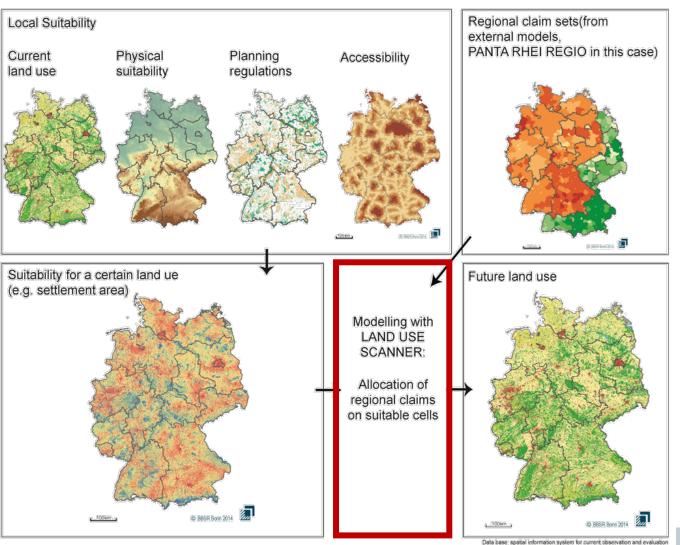




LAND USE SCENARIOS FOR GERMANY – APPROACH – LAND USE SCANNER



- Distinction of open space:
 - Agricultural area/ natural land without dual use
 - with dual use PV and
 - with dual use WP
- First preliminary results next year



OUTLOOK - WHAT WOULD HAVE TO BE DONE?



- There are effective instruments e.g.:
 - Tradable area designation certificates
 - negative planning allocation of settlement areas
- → We have no shortage of instruments. We have an implementation problem

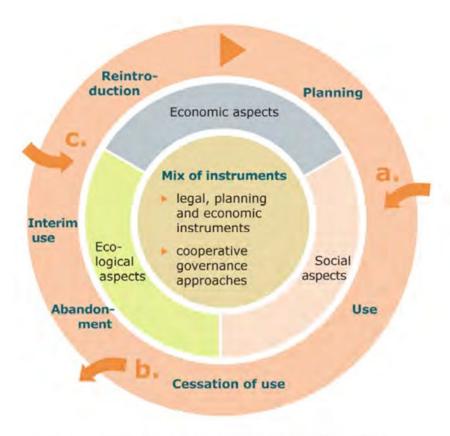


THANK YOU VERY MUCH FOR YOUR ATTENTION!

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THE POLITICAL OBEJCTIVE OF "NO NET LAND TAKE" – CONCEPT OF CIRCULAR FLOW LAND USE MANAGEMENT



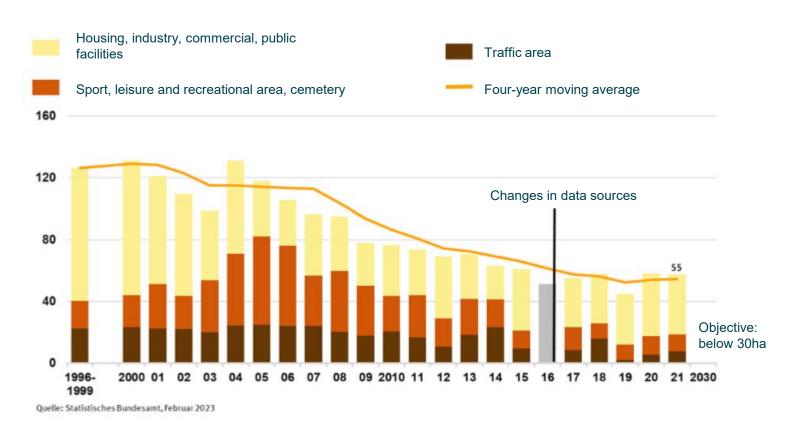


Source: 2008, German Institute of Urban Affairs (difu)

CURRENT DEVELOPMENT OF URBAN LAND TAKE – IN THE LONG RUN



Increase in Urban area in ha/day

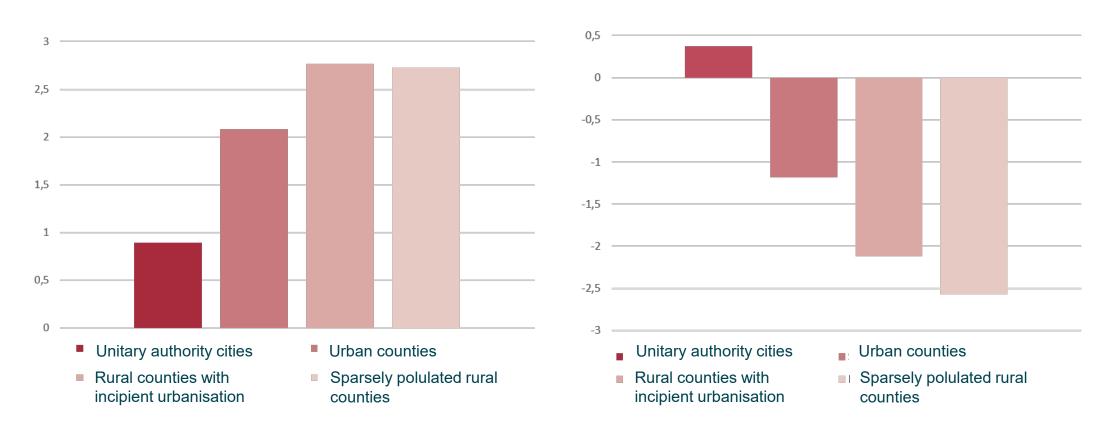


^{→ 14,5%} of the country's area was settlement and transport area in 2021

Die Datenbasis für Auswertungen der Siedlungs- und Verkehrsfläche ist die amtliche Flächenerhebung. Ab dem Berichtsjahr 2016 basiert diese auf dem Amtlichen Liegenschaftskataster-Informationssystem (ALKIS). Dadurch ist der Vergleich zu den Vorjahren beeinträchtigt und die Berechnung von Veränderungen erschwert. Die nach der Umstellung ermittelte Siedlungs- und Verkehrsfläche enthält weitgehend dieselben Nutzungsarten wie zuvor. Nähere Erläuterungen zum Flächenindikator unter www.destatis.de/DE/Methoden/Qualitaet/Qualitaetsberichte/Land-Forstwirtschaft-Fischerei/einfuehrung.html

CURRENT DEVELOPMENT OF URBAN LAND TAKE – REGIONAL POLARISATION





Development of settlement and transportation area 2016 to 2021 in %

Development of the number of inhabitants per skm settlement and transportation area 2016 to 2021 in %



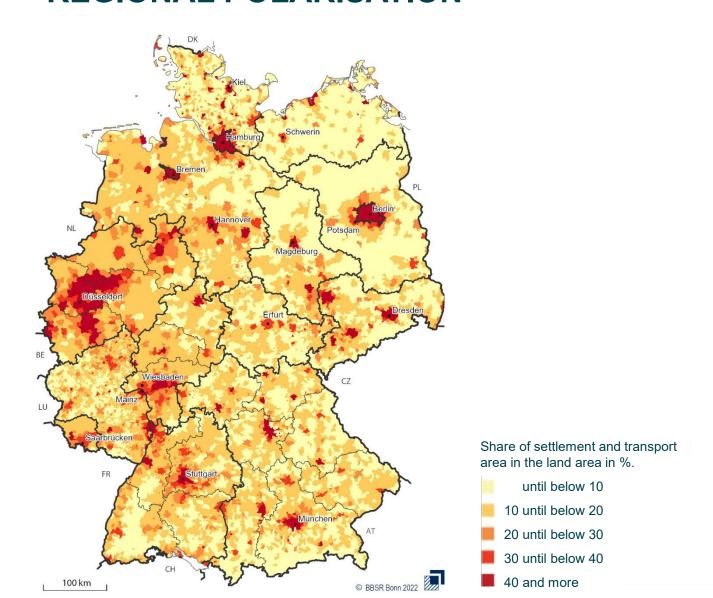


Settlement-structural county types	Settlement density 2021 in persons / skm	Difference 2021-2016	Difference 2021 – 2016 in %
Unitary authority cities	3.933	15	0,4
Urban counties	1.844	-22	-1,2
Rural counties with incipient urbanisation	1.135	-25	-2,1
Sparsely polulated rural counties	871	-23	-2,6

^{→ 2/3} of land take takes place in rural areas, only 1/3 in urban areas

CURRENT DEVELOPMENT OF URBAN LAND TAKE – REGIONAL POLARISATION





Datenbasis: Laufencie Raumbeobachtung des BBSR Geometrische Grundlage: VGS000 (Kreise), Stand 31.12.2021 © GeoBasis-DE/BKG Bearbeitung: Silas Eichfuss