

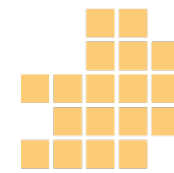
Indikator catalogue for transborder territorial monitoring

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Workshop Territorial Monitoring in Cross-Border Areas

BBSR, Bonn, 05./06. Dezember 2019

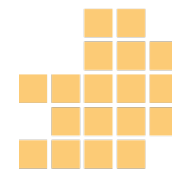
DE Demography



Raumbeobachtung
Deutschland und
angrenzende Regionen

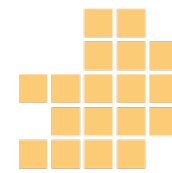
MORO

Acro- nym	Indicator (group)	Data availability		Spatial resolution target level
		EU-wide	DE-wide	
DE 1	Population by gender and age group	NUTS 3	LAU 2	LAU 2
DE 2	Average age of population	NUTS 3	LAU 2	LAU 2
DE 3	Share of the foreign population and foreigners by nationality	NUTS 2*	NUTS 3	NUTS 3 (LAU 2 to be checked)
DE 4	Natural balance, migration balance	NUTS 3	LAU 2	LAU 2
DE 5	Immigration and emigration by to nationality	NUTS 2*	NUTS 3	LAU 2
DE 6	Total fertility rate	NUTS 2	NUTS 3	NUTS 3
DE 7	Life expectancy at birth by gender	NUTS 2	NUTS 3	NUTS 3
DE 8	Population forecast	NUTS 0	NUTS 3	



Acro- nym	Indicator (group)	Data availability		Spatial resolution target level
		EU-wide	DE-wide	
WH 1	Gross Domestic Product (GDP) at current market prices	NUTS 3	NUTS 3	NUTS 3
WH 2	Gross Domestic Product (GDP) in Purchasing Power Standards (PPS)	NUTS 3	NUTS 3	NUTS 3
WH 3	Gross value added at production prices by economic sector	NUTS 3	NUTS 3	NUTS 3
WH 1	Gross Domestic Product (GDP) at current market prices	NUTS 3	NUTS 3	NUTS 3

AM Labour market

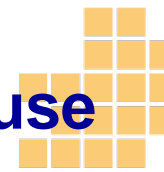


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Acro- nym	Indicator (group)	Data availability		Spatial resolution target level
		EU-wide	DE-wide	
AM 1	Employment rate by gender, age and nationality	NUTS 2	NUTS 3	NUTS 3
AM 2	Unemployment rate by gender, age and nationality	NUTS 2	LAU 2	LAU 2
AM 3	Persons employed at place of work by gender and nationality	NUTS 3	LAU 2	LAU 2
AM 4	Commuter by place of residence and place of work (including cross-border commuter)	(NUTS 2)	LAU 2**	LAU 2
AM 5	Persons employed by qualification	to be checked with IT.NRW		
AM 6	Self-employed	to be checked with IT.NRW		
AM 7	Wages	to be checked with IT.NRW		

RN Territorial typology and land use

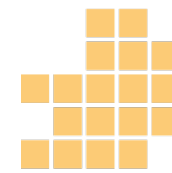


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Acro- nym	Indicator (group)	Data availability		Spatial resolution target level
		EU-wide	DE-wide	
RN 1	Territorial typologies	NUTS 3 LAU 2	NUTS 3 LAU 2	NUTS 3 resp. LAU 2 dep. on typology
RN 2	Land use and consumption	CORINE / Raster	LAU 2	LAU 2
RN 3	Natur reserves and landscape conservation areas	GIS	GIS	
RN 4	Ecological area under cultivation/proportion of organic farming	NUTS 0	NUTS 0	

VE Transport and accessibility

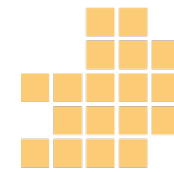


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		EU-wide	DE-wide		
VE 1	Number of cars per 1,000 inhabitants	NUTS 2	NUTS 3	NUTS 3 or LAU 2	
VE 2	Modal split of passenger and goods transport	NUTS 0			
VE 3	Transport volumes at border crossings by type of transport	-	Point data	Point data for border crossings	
VE 4	Goods transport flows by loading and unloading region and transport mode	NUTS 3		NUTS 3	
VE 5	Road fatalities	NUTS 2	LAU 2	LAU 2	
VE 6	Regional population potencial by car / public transport (BBSR-Modell)	Raster / LAU 2	Raster / LAU 2	LAU 2	Number of acces- sibility indicators should be reduced to 3 or 4.
VE 7	Accessibility of middle/higher order central places by car/public transport (BBSR-Model)	Raster / LAU 2	Raster / LAU 2	LAU 2	
VE 8	Accessibility of hospitals by car / public transport (BBSR-Model)	Raster / LAU 2	Raster / LAU 2	LAU 2	
VE 9	Accessibility of airports (BBSR-Model)	Raster / LAU 2	Raster / LAU 2	LAU 2	
VE 10	Accessibility of long-distance train stations (IC/EC/ICE) (BBSR-Model)	Raster / LAU 2	Raster / LAU 2	LAU 2	
VE 11	Accessibility of Points of Interest) Factory Outlet Centre (BBSR-Model)	Raster / LAU 2	Raster / LAU 2	LAU 2	
VE 12	Broad band access	NUTS 2	LAU 2	LAU 2	

HH Households



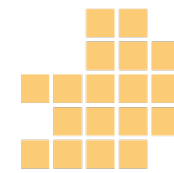
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Acro- nym	Indicator (group)	Data availability		Spatial resolution target level
		EU-wide	DE-wide	
HH 1	Private households by household size and type of household	(LAU 2)*	NUTS 1	NUTS 3 LAU 2 (Census year)
HH 2	Average household size	(LAU 2)*	NUTS 1	NUTS 3 LAU 2 (Census year)
HH 3	Available household income	NUTS 2	NUTS 3	NUTS 3 LAU 2 (Census year)
HH 4	At risk of poverty rate	NUTS 2	NUTS 2	NUTS 2
HH 5	Purchasing power per household (per person)	to be checked	NUTS 3	NUTS 3
HH 6	Social welfare recipients	to be checked	NUTS 3	NUTS 3
HH 7	Crime by type of offence	NUTS 3		NUTS 3

Acro- nym	Indicator (group)	Data availability		Spatial resolution target level
		EU-wide	DE-wide	
WW 1	Building and housing stock	(LAU 2)*	LAU 2	LAU 2
WW 2	Housing vacancy	(LAU 2)*	NUTS 3	NUTS 3 LAU 2 (Census year)
WW 3	Dwellings completed	NUTS 0	LAU 2	LAU 2
WW 4	Land and property prices	NUTS 0	NUTS 3	NUTS 3

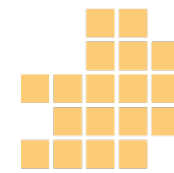
BF Education



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Acro- nym	Indicator (group)	Data availability		Spatial resolution target level
		EU-wide	DE-wide	
BF 1	Population by educational attainment	NUTS 2	NUTS 3	NUTS 3
BF 2	School dropouts	NUTS 2	NUTS 3	NUTS 3
BF 3	Pupils and students	NUTS 2	NUTS 3	NUTS 3
BF 4	Research staff	NUTS 2	NUTS 1	
BF 5	Research expenditure (in % of GDP)	NUTS 2	NUTS 1	
BF 6	Children in formal childcare	NUTS 2	NUTS 3	NUTS 3



Acro- nym	Indicator (group)	Data availability		Spatial resolution target level
		EU-wide	DE-wide	
GW 1	Doctor density	NUTS 2	NUTS 3	NUTS 3
GW 2	Hospital beds	NUTS 2	NUTS 3	NUTS 3
GW 3	Nurses	NUTS 2	NUTS 3	NUTS 3
GW 4	Persons in need of care	to be checked	NUTS 3	NUTS 3

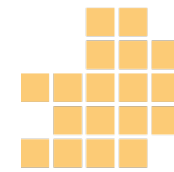
EK Energy, Climate and Environment



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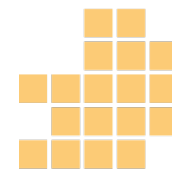
MORO

Acro- nym	Indicator (group)	Data availability		Spatial resolution target level
		EU-wide	DE-wide	
EK 1	Energy consumption	NUTS 0	NUTS 0	NUTS 2/3 requested, else to be dropped
EK 2	Renewable energy	NUTS 0	NUTS 0	NUTS 2/3 requested, else to be dropped
EK 3	Energy trading	NUTS 0	NUTS 1	
EK 4	Greenhouse gas emission	NUTS 0	NUTS 0	NUTS 2/3 requested, else to be dropped
EK 5	Nutritional balance (nitrat, phosphor)	to be checked	NUTS 3	NUTS 2/3 requested, else to be dropped
EK 6	Forest condition	to be checked	to be checked	NUTS 2/3 requested, else to be dropped
EK 7	Waste / recycling per capita	NUTS 2	NUTS 3	NUTS 2 / 3



Acro- nym	Indicator (group)	Data availability		Spatial resolution target level
		EU-wide	DE-wide	
TM 1	Bed places in tourist accommodation establishments	NUTS 2	LAU 2	LAU 2
TM 2	Overnight stays in tourist accommodation establishments	NUTS 2	LAU 2	LAU 2

Geodata: Demand?



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- Nature and landscape protection areas
- Flood plains
- Water quality (lakes, rivers etc.)
- Map basis (e.g. topographical maps)
- Aerial photographs
- ...