

INSPIRE, SUSTAINABLE DEVELOPMENT AND MEASURING PROGRESS FROM GERMAN OFFICIAL STATISTICS PERSPECTIVE

Dr. Susanne Schnorr-Bäcker

Federal Statistical Office of Germany, Wiesbaden

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Outline

1. **INSPIRE and Open Government**
2. **Sustainable Development Policies**
3. **Measuring Progress and Official Statistics**
4. **Conclusions**



Image: S. Schnorr-Bäcker

1. INSPIRE and Open Government

INSPIRE Directive

Aims: „...assist policy making with direct or indirect impact on the environment in a community and transboundary context by technical arrangements for interoperability...“ *

For Germany: 17 legal acts

**(one for Germany & 16 for Länder)
+ administrative arrangement with municipalities**

➡ GDI-DE and for each Land and various municipalities

**See Whereas (4) and (5)*



Image: S. Schnorr-Bäcker

Major Elements of INSPIRE

Technological

- Interoperability
- i.e.
- Metadata
 - Services (view, download, ...)

Thematical

Land use
Population & demography
Human Health & Safety
...
Natural Risk Zones

Regional

- Coordinate reference systems and geographical grid systems
- Addresses and administrative units
- Regional statistical units (i.g. grid-based, administrative and non-administrative ones)

Open government*

i.e. data of the public sector, machine readable and freely accessible etc. to everybody for more openness, transparency and more active citizenship and participation

European Union

- Directive 2013/37/EU amending PSI-Directive 2003/98 EC
- Directive 2003/4/EC on public access to environmental information and repealing Council Directive 90/313/EEC
- Commission decision of 12 December 2011 on the re-use of Commission documents (2011/833/EU)

OECD

- G8 Open Data Charter

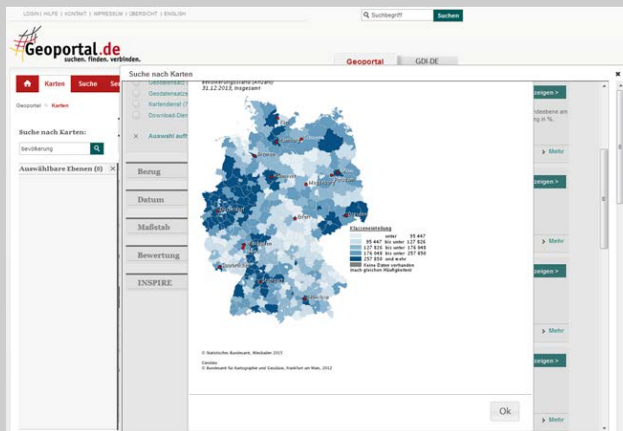
Germany

- „Gesetz über die Weiterverwendung von Informationen öffentlicher Stellen“ of 13 December 2006 (IWG) for implementing Directive 2003/98/EG
- "Informationsfreiheitsgesetz“ of 5 September 2005
- National Action Plan of the Federal Government for implementing the OECD Open Data Charter

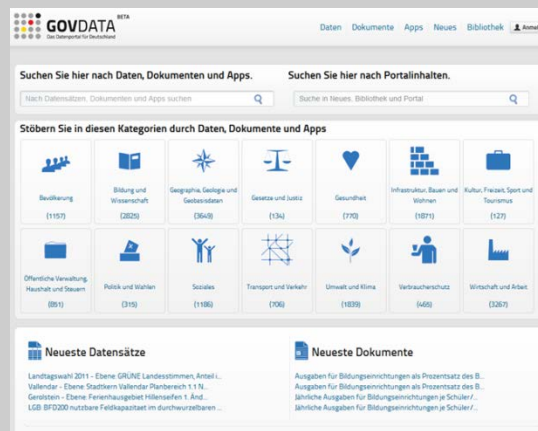
*see also: http://de.wikipedia.org/wiki/Open_Government_Data

GIS for Open Government in Germany

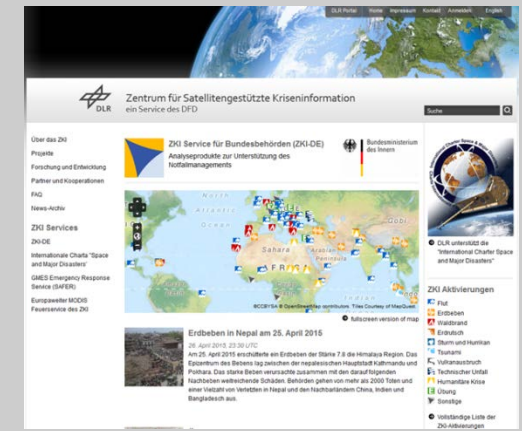
GDI-DE



GOVDATA



ZKI-DE*



<http://www.geoportal.de/DE/Geoportal/Karten/karten.html?wms=aHR0cHM6Ly93d3ctZ2VuZXNpcy5kZXN0YXRpcy5kZS9naXMvY2dpLWJpbj9tYXBZcXZlP2P21hcD0vaG9tZS9mZ3MvZ2ZlZ2dpc2RvY3Mvd21zLzEyNDExLTAwMTVfMDAubWwJnJlcXVlc3Q9R2V0Q2FwYWJpbGloaWVzJnNlcnczPjY2U9V01TJnZlcnNpb249MS4zLjA=&lang=de&uuid=MzAzMDMwMzEtMzIzNC00MDMxLTMxMmQtMzAzMDMxMzUwMDAx&backlink=aHR0cDovLzN3d3dy5nZW9wb3J0YVwvZGUvREUvR2VvcG9ydGFsL1N1Y2hlL3N1Y2hlLmhoZWwvZ2hhdD1CZXYlQzMIQjZsa2VydW5nJndoZXlJPSZ0YWI9bWFwcyZzb3J0Qnk9aGFZTFWfWk2Rlc2MlMkMrc2NvcnUrZGVzYyUyQytkYXRlK2Rlc2MmcmGFnZT0xJmhpPHhM9MTAmZGF0ZUyZb209JmRhdGVUzb0mcmVzb2x1dGlvbiRvPSZyZXNvbHV0aW9uRnJvbT0mZGlzdHJpYnV0aW9uPSZ0b3B3BpY0NhdGVnb3J5PSZpbnNwaXJlPSZyYXRpbmc9Jm5vcnRoPSZ3ZXN0PSZlYXN0PSZ3b3V0aD0=>

<https://www.govdata.de/>

<http://www.zki.dlr.de/de>

*Center for Satellite Based Crisis Information

2. Sustainable Development Policies

Major aims*

Ecological, economic and social development
for the current and future generations

here and now &
elsewhere



Image: S. Schnorr-Bäcker

*see also: http://www.un.org/wcm/webdav/site/climatechange/shared/gsp/docs/GSP1-6_Background%20on%20Sustainable%20Dev.pdf

Fundamental Dimensions of Sustainability

Environmental conditions

natural resources & ecosystems, climate

Material conditions

*income, wealth,
housing conditions,
jobs & earnings*

Living conditions

*education & skills,
health & safety,
life satisfaction*

Governmental framework

*transparency, justice, accountability,
good governance, civic engagement*

Major Aims of Sustainable Development Policies



Growth & jobs



**Cohesion,
inclusion
integration &
participation**



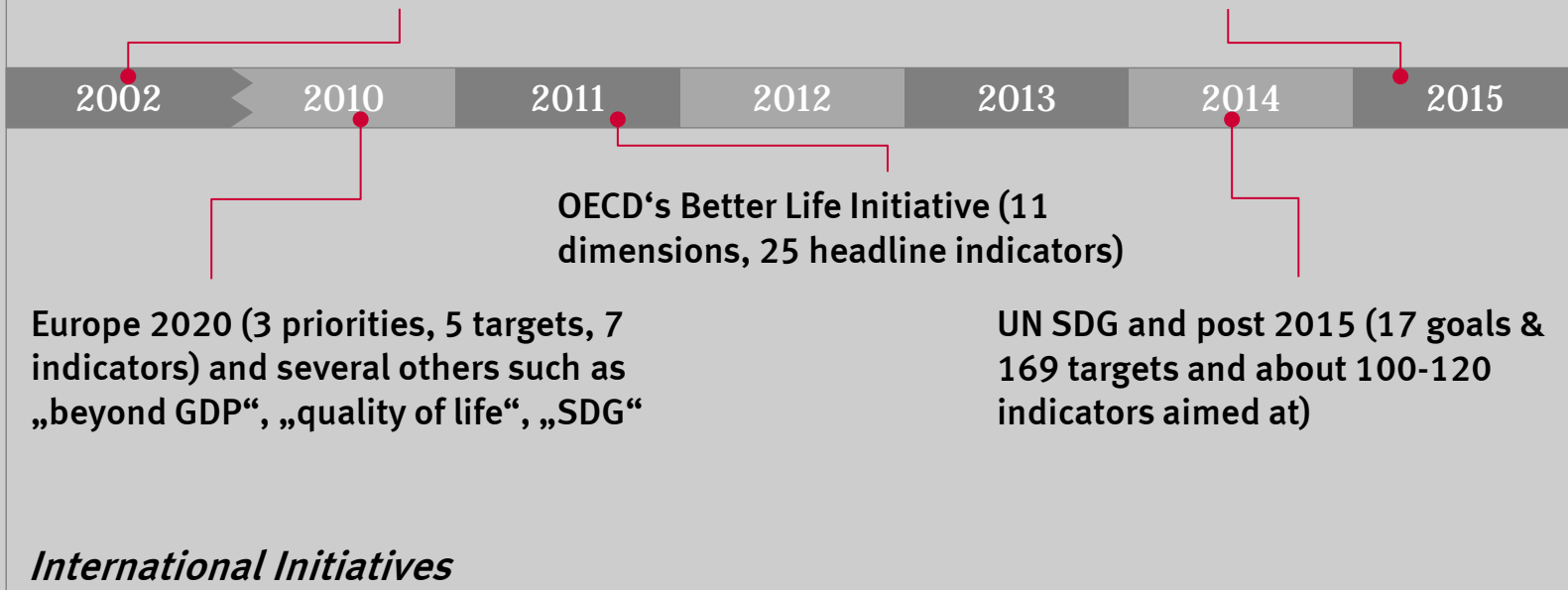
**Protection of natural
environment, development of
renewable resources**

Comprehensive Sustainability Policies

National Initiatives

Sustainable Development in Germany
(4 domains, 21 targets, 37 indicators -
monitored by FSO biannually)

**“Gut Leben“ (“Well-being in
Germany – what matters to us“)**



International Initiatives

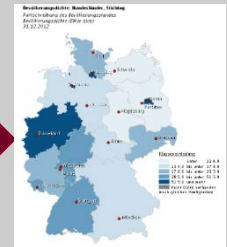
3. Measuring Progress & German Official Statistics

Range of data provided by Federal Statistical Office

about 400 statistics of which 2/3 are EU-wide harmonised with
4,5 million monthly visits and 760.000 downloads

GENESIS-Online

about 200 statistics >NUTS3
1/2 billion values
about 600.000/quarterly table retrievals



Regional database for Germany

with 80 statistics for ≤NUTS 3, (of which 20 statistics for municipalities), in total about 20 million values



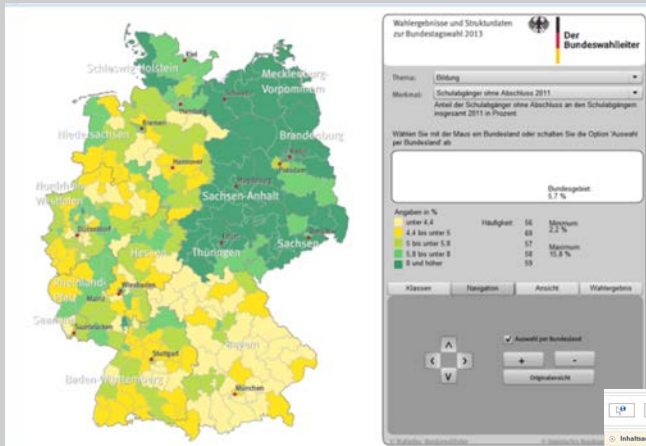
Interactive mapping tools such as

- grid based atlases for censuses (population and agriculture)
- several others (foreign trade, air transports, elections)

Examples (1)

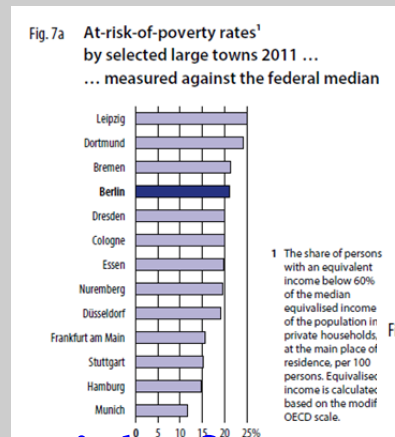
Comparisons socially and regionally

Early school leavers



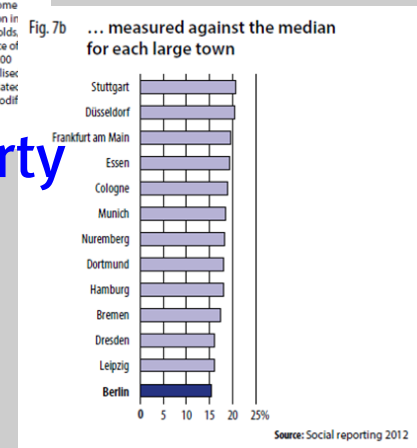
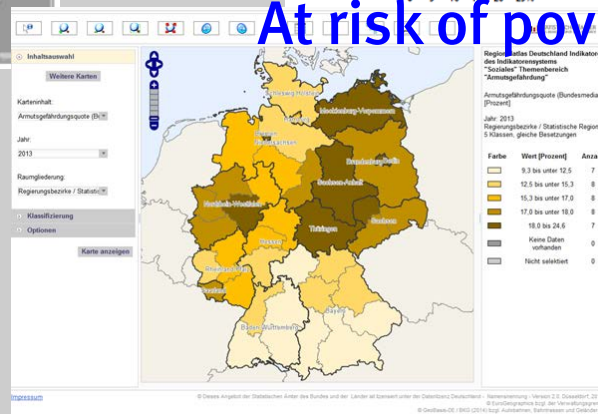
<https://atlas.zensus2011.de/>

<https://www-genesis.destatis.de/gis/genView?GenMLURL=https://www-genesis.destatis.de/regatlas/Al-N-09.xml&CONTEXT=REGATLAS01/>



<http://www.google.de/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CckQFJAA&url=http%3A%2Fwww.statistik.niedersachsen.de%2Fdownload%2F87571&ei=gexSVZGpOsP9UIHTgfgL&usg=AFQjCNEW8jPkSVZVE7SJJYLnbl5ShYdHcA&bvm=bv.93112503,d.bgg>

At risk of poverty



Examples (2)

Multidimensional comparisons & possible future developments

Nutrition

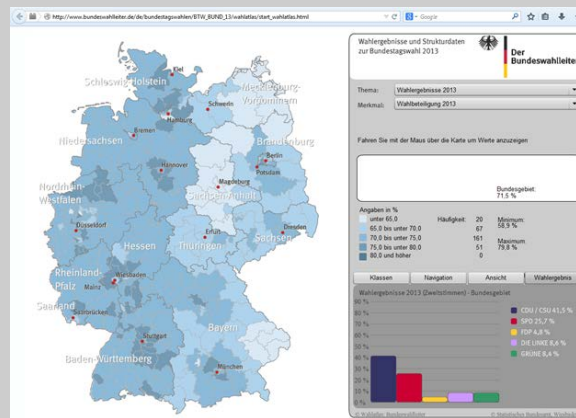
„predominantly type of farming of agricultural holdings“, 2010



<http://www.atlas-agrarstatistik.nrw.de/>

Participation

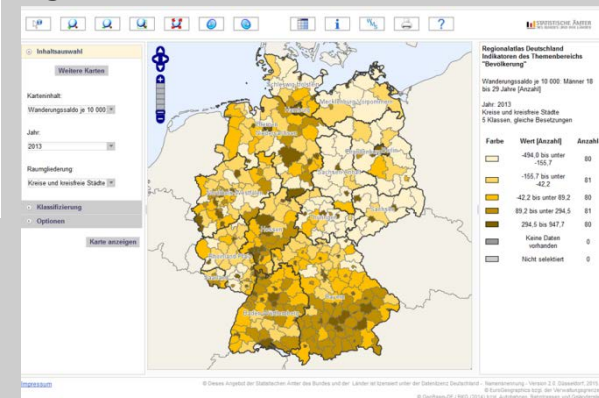
„voters' turnout“, 2013



http://www.bundeswahlleiter.de/de/bundestagswahlen/BTW_BUND_13/wahlatlas/start_wahlatlas.html

Internal migration

„migration balance of 10,000 men aged 18-29“, 2013

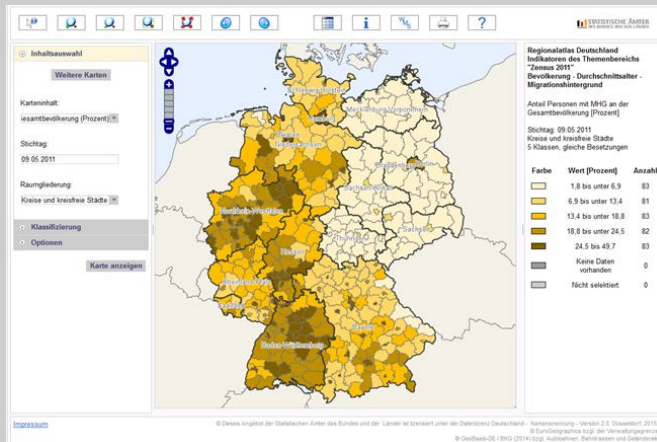


<https://www-genesis.destatis.de/gis/genView?GenMLURL=https://www-genesis.destatis.de/regatlas/AI-N-09.xml&CONTEXT=REGATLAS01/>

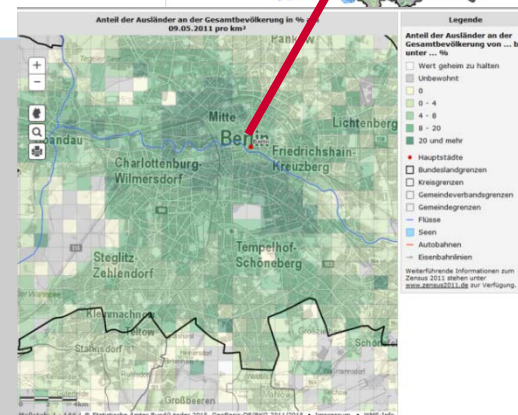
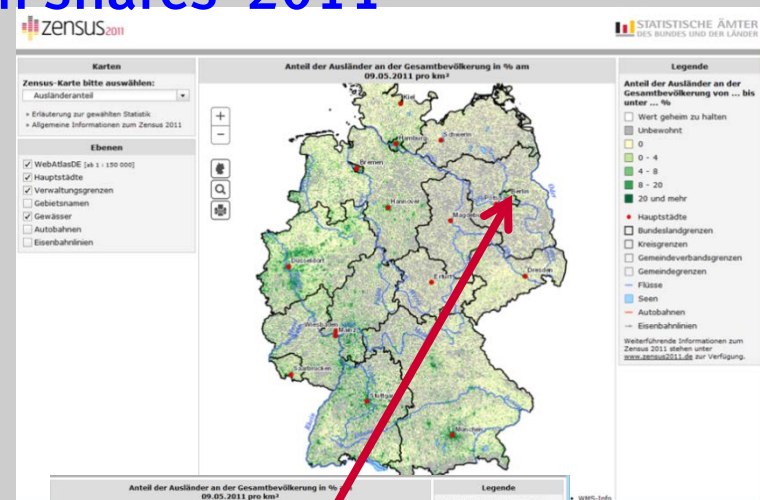
Examples (3)

Administrative vs. grid-based atlases

Foreign population shares 2011



<https://www-genesis.destatis.de/gis/genView?GenMLURL=https://www-genesis.destatis.de/regatlas/AI-Z1-2011.xml&CONTEXT=REGATLAS01>



<https://atlas.zensus2011.de/>

4. Conclusions

- **Single entry for competing GDI or GIS**
- **User oriented enlargement of data supply with regard to SDG**
- **Interlinkages as far as possible of national, regional and local GDI or GIS, even worldwide**
- **Harmonisation of thematic themes resp. fine-tuning of data specifications and modelling for INSPIRE**
- **Enlargement towards UN-GGIM**

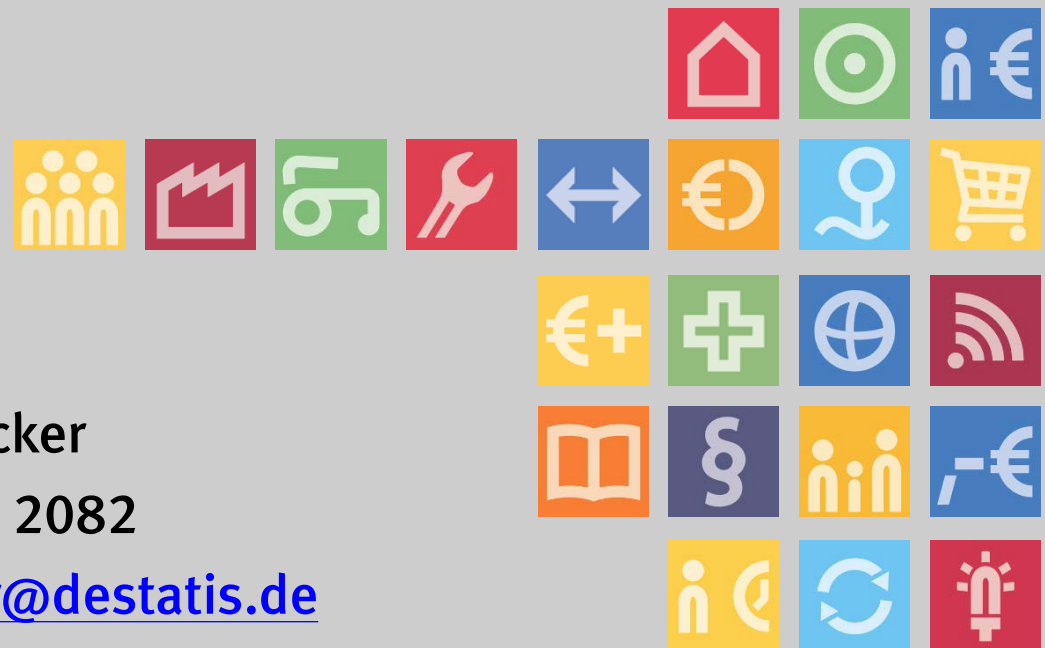
Further Activities and developments

- enormous demand of high quality information worldwide
- with regard to sustainability in all its facets and future developments, particularly
 - *Aging society*
 - *Urbanisation*
 - *Urban/rural interactions*
- new data sources such as „big data“ (i.g. satellite images)



Image: S. Schnorr-Bäcker

THANK YOU FOR LISTENING!



Dr. Susanne Schnorr-Baecker

Telefon: +49/(0) 611 / 75 2082

Susanne.schnorr-baecker@destatis.de

www.destatis.de