

IMPACT OF OPENDATA AND PSI DIRECTIVE IN GERMANY

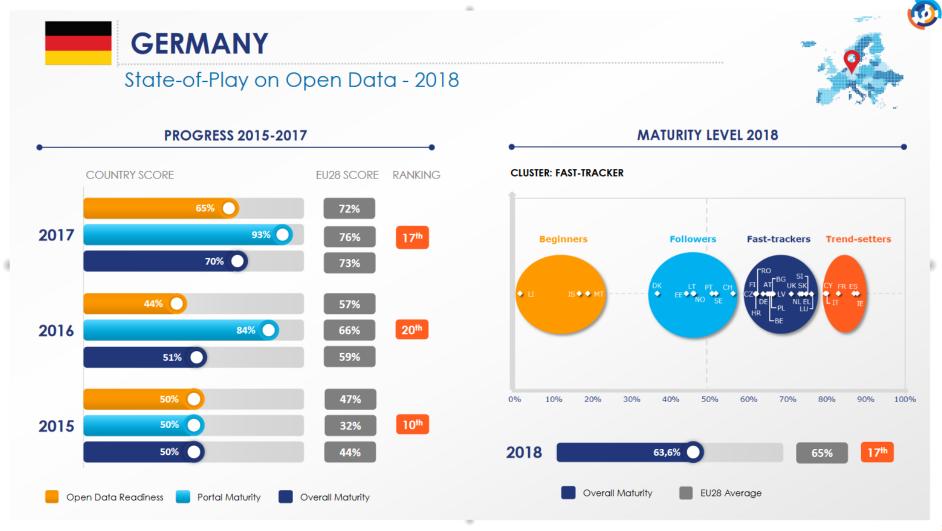
Prof. Dr. Ulrike Klein
Bochum University of Applied Sciences
Faculty of Geodesy
Germany



STATISTICS FOR GERMANY ON EU-LEVEL

Progress and Maturity Level 2018





State of Play on OpenData - 2018







OPEN DATA POLICY IN GERMANY

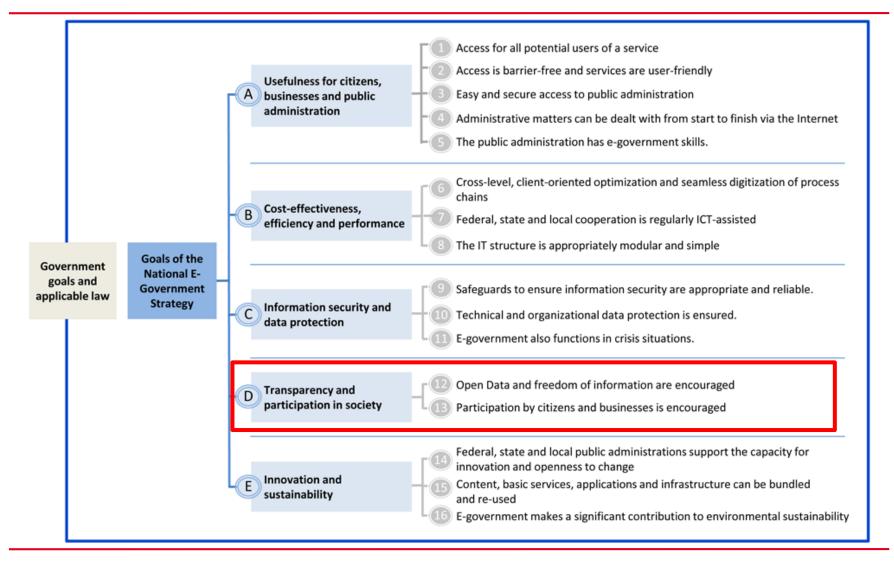
EU Laws and Regulations connected to OpenData in Germany



- Council Directive 90/313/EEC of 7 June 1990: Freedom of Access to Information on the Environment
- PSI Directive 2003/98/EC of 31 December 2003: re-use of public sector information
- Directive 2007/2/EC of the European Parliament and of the Council of 14 March 2007 establishing an Infrastructure for Spatial Information in the European Community (INSPIRE)
- → All implemented on national level and level of the 16 federal states of Germany
- → Resulting in EGOVG August 2013: Electronical Access to Government independent from time and space

Goals of the National EGovernment Strategy in Germany (2010)







https://www.bmi.bund.de/EN/topics/administrative-reform/open-government/open-government-node.html

IMPACT OF OPENDATA: STRATEGIC AWARENESS

Open government - A culture of innovation and cooperation in government - Philospohy of OpenGovernment in Germany from the Federal Ministery of Interior, Building and Community



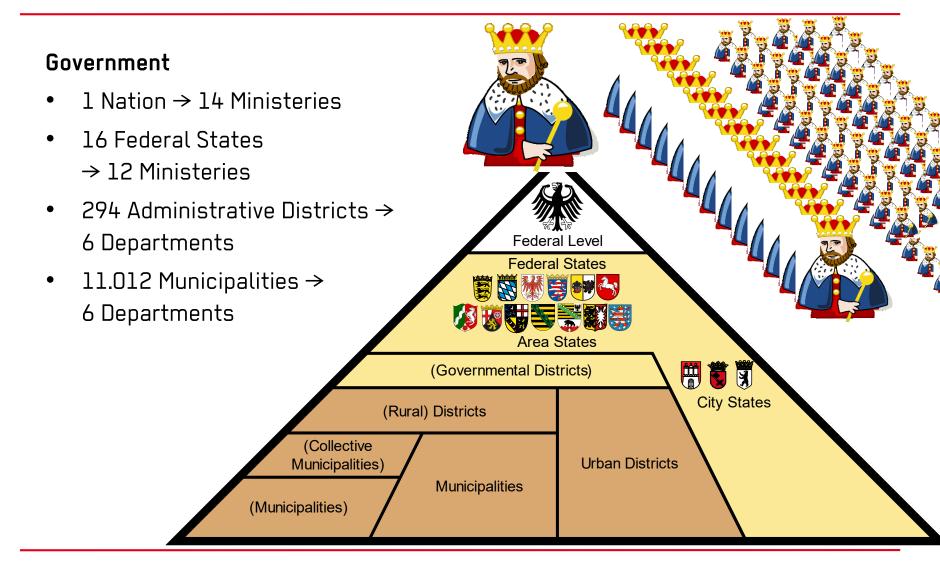
"Open Government describes a development towards more collaboration, participation and transparency in public administration. The core issues of Open Government are to improve services for citizens, to raise confidence in institutions and to create a culture of openness and citizen engagement. The strength of democracy is based on the ability to listen to and work with each other.

"[....] Open Data is a tremendous resource and essential for a modern Open Government policy. Societies are fueled by the availability of reusable public data and innovation. That is why the Federal Government is passing a bill to realize the principle "open by default" for the first time. The bill will provide legal security for public servants and a sustainable approach to more useful open government data. The bill is expected to become law in the summer of 2017.

The idea of Open Government has progressed beyond technology. It is no longer just about publishing data. Open Government has become a driver of innovative approaches to overcome social challenges. Being open to new ideas and being willing to listen to citizens' concerns is a central element of our civil society.

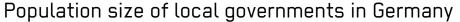
Barrier: Federal Structure in Germany

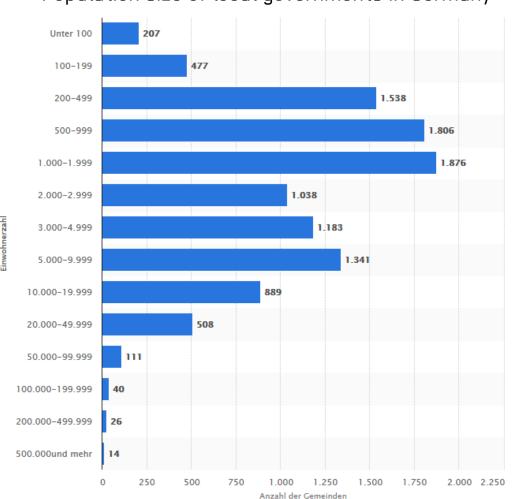




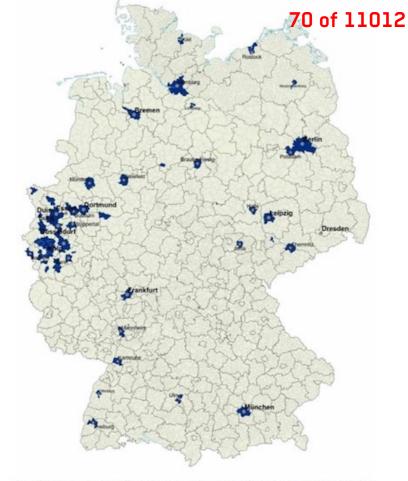
Federal Structure of Germany







Local Governments as Providers of OpenData



Quelle: Eigene Darstellung basierend auf Angaben des Open Data Atlas: http://opendata.tursics.de (Stand: 30.3.2019)

Blocking attitude of data providers



- "The data is mine, I don't want to share!"
- "Why should I share?"
- "The data underlies the data privacy rules, I can't share"
- "The data can be used from "wrong persons, it's not justified to share" (right wing parties, media)





OPENDATA PORTALS IN GERMANY - EXAMPLES

National Level: OpenData Portal Germany



Landwirtschaft,

Fischerei.

Nahrungsmittel

Technologie

(817)



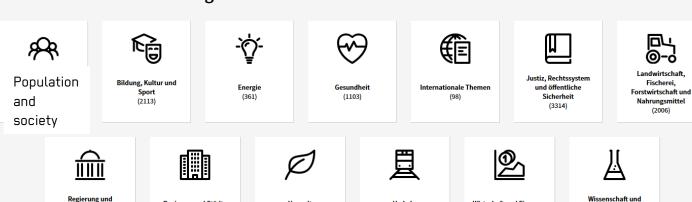
Stöbern Sie in diesen Kategorien

öffentlicher Sektor

(6124)

Regionen und Städte

(251)



Umwelt

(7635)

https://www.govdata.de 14

Verkehr

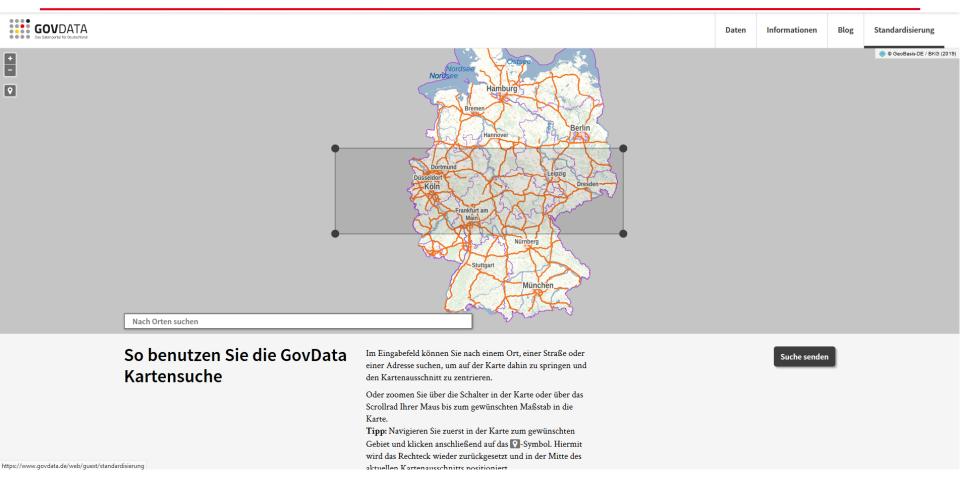
(2719)

Wirtschaft und Finanzen

(5217)

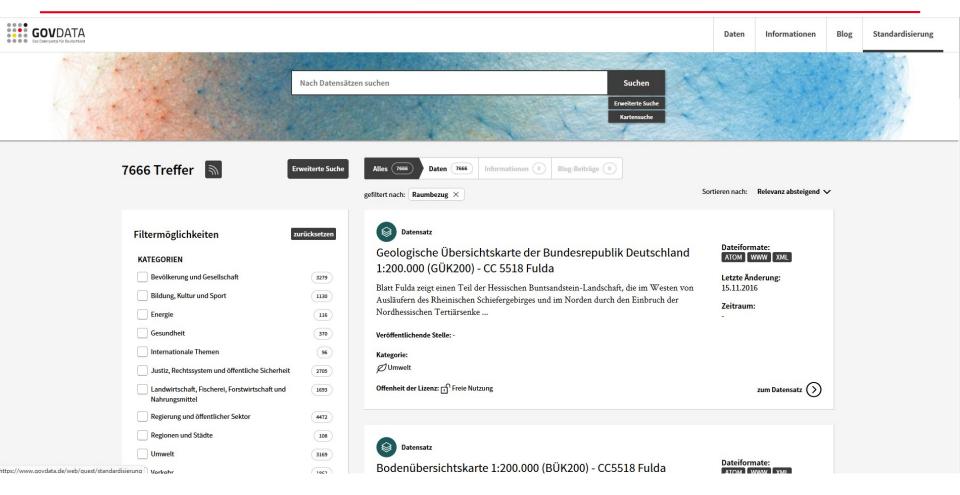
Search by map/location





Search results





Available data



23.986 Datasets in 13 categories, 10 different licences and 10 different data formats

LIZENZ		DATEIFORMAT	
Datenlizenz Deutschland Namensnennung 2.0	10684	CSV	11001
http://dcat-ap.de/def/licenses/dl-by-de/2_0	4468	html	9742
Creative Commons Namensnennung (CC-BY)	1837	wms	5991
http://dcat-ap.de/def/licenses/dl-zero-de/2_0	1586	karte	4398
http://dcat-ap.de/def/licenses/cc-by-de/3_0	1241	webanwendung	4397
Nutzungsbestimmungen für die Bereitstellung von Geodaten des Landes Berlin	985	pdf	4055
Datenlizenz Deutschland – Zero – Version 2.0	892	gml	3164
Creative Commons CC Zero License (cc-zero)	470	xml	2867
Creative Commons Namensnennung – 4.0	376	diverse	1684
International (CC BY 4.0)		www	1381
Nutzungsbestimmungen für die Bereitstellung von Geodaten des Bundes	327		

State Level: OpenNRW - Northrhine Westphalia



LEICHTE SPRACHE 📖 GEBÄF	RDENSPRACHE 🏖				DATENSCHUTZ A	KONTAKT ∅
open open					Beauftragter der Landesregie Nordrhein-Westfalen für Informationstechnik (CIO)	
OPEN.NRW	OPEN DATA	DIALOG	ZUSAMMENARBEIT	i Information		?
	Portal durchsuchen				Q	
offene Daten (3898)	nhalte (206)					
3898 Treffer						
Suche weiter eing	grenzen					
Verfügbare Kategorie(n)			Verfügbare Format(e)			
Optionen wählen			Optionen wählen			
Portale						
Optionen wählen						
Suche zurücksetzen	×					
			:	Sortieren nach <u>Nam</u>	<u>e</u> ▲ Letzte Änderung	Relevanz
2013-09-22_wahlbete	iligung_koeln			1	CSV	
	n für die Bundestagswahl 2013					
Letzte Änderung: 14.06.20 Veröffentlichende Stelle: S Kategorien: Regierung und	stadt Köln					

https://open.nrw/

Municipality Level: OpenData Portal Bochum





Example Dataset Population



Bevölkerung

Inhaltsverzeichnis

Anzahl der Einwohner nach statistischen Bezirken, Staatsangehörigkeit und Alter der Person
Anzahl der Einwohner nach Stadtbezirken, Staatsangehörigkeit und Alter der Person
Anzahl der Einwohner nach statistischen Bezirken, Staatsangehörigkeit und Geschlecht der Person
Anzahl der Einwohner nach Stadtbezirken, Staatsangehörigkeit und Geschlecht der Person

Anzahl der Einwohner nach statistischen Bezirken, Staatsangehörigkeit und Alter der Person

Stand: 31. Dezember 2016	csv-Datei 🛂	(veröffentlicht am 9. Mai 2017)
	xlsx-Datei ∄	(veröffentlicht am 9. Mai 2017)
	<u>Metadaten</u>	
Stand: 31. Dezember 2015	csv-Datei	(veröffentlicht am 20. Juli 2016)
	xlsx-Datei 👪	(veröffentlicht am 20. Juli 2016)
	<u>Metadaten</u>	
Stand: 31. Dezember 2014	csv-Datei 	(veröffentlicht am 30. März 2015)
	xls-Datei 	(veröffentlicht am 30. März 2015)
	<u>Metadaten</u>	
Stand: 31. Dezember 2013	csv-Datei 	(veröffentlicht am 25. Juli 2014)
	xls-Datei 	(veröffentlicht am 25. Juli 2014)
	<u>Metadaten</u>	

INFORMATIONEN ZU DEN DATENSÄTZEN	
veröffentlicht von:	Stadt Bochum
Lizenz:	Datenlizenz Deutschland Namensnennung ✓
101 1 2	



DATA QUALITY

Lack of Standards



- Datamodells
- Formats
- Data Quality
- Portals
- Licences







CONCLUSION

Barriers



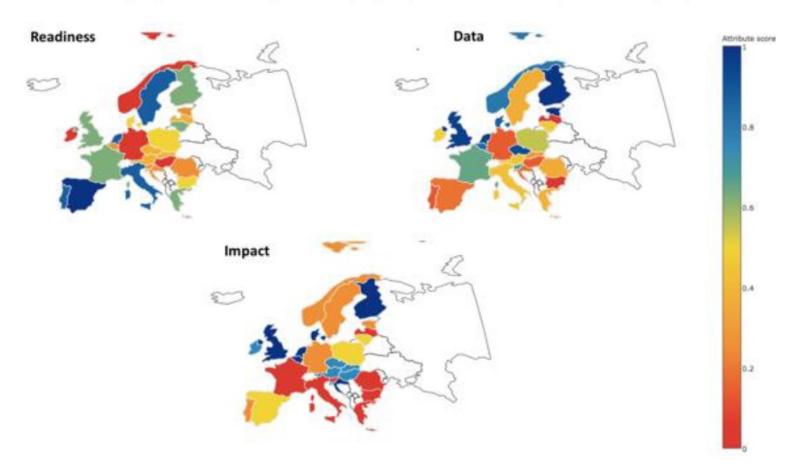
- Legislation is spread across the different levels of the federal structure and Open Data does not have the same weight everywhere
- Legacy systems, lack of metadata (therefore high effort to create it for publishing), different metadata standards, various different platforms to publish data
- Additional personnel or budget is normally not available for Open Data
- Capacity building within the administration
- Open Data is well known to a relatively small community, but not to the broad public. Besides the funding programmemFUND(see Q3.10), the participation in the Open Government Partnership (OGP) overall brings more awareness
- Data cannot be used as long as it is not open. A lot of interesting data, especially for citizens, is located at the local level. With the federal bill and the commitment of the Länder to also make respective legislation, the amount of published data shall be increased



"Readiness of Germany"



Figure 1: Prototype showing the three key dimensions of the Map of Open SDI Europe (dark blue implies fully open, whereas red implies not open)





THANK YOU FOR THE ATTENTION