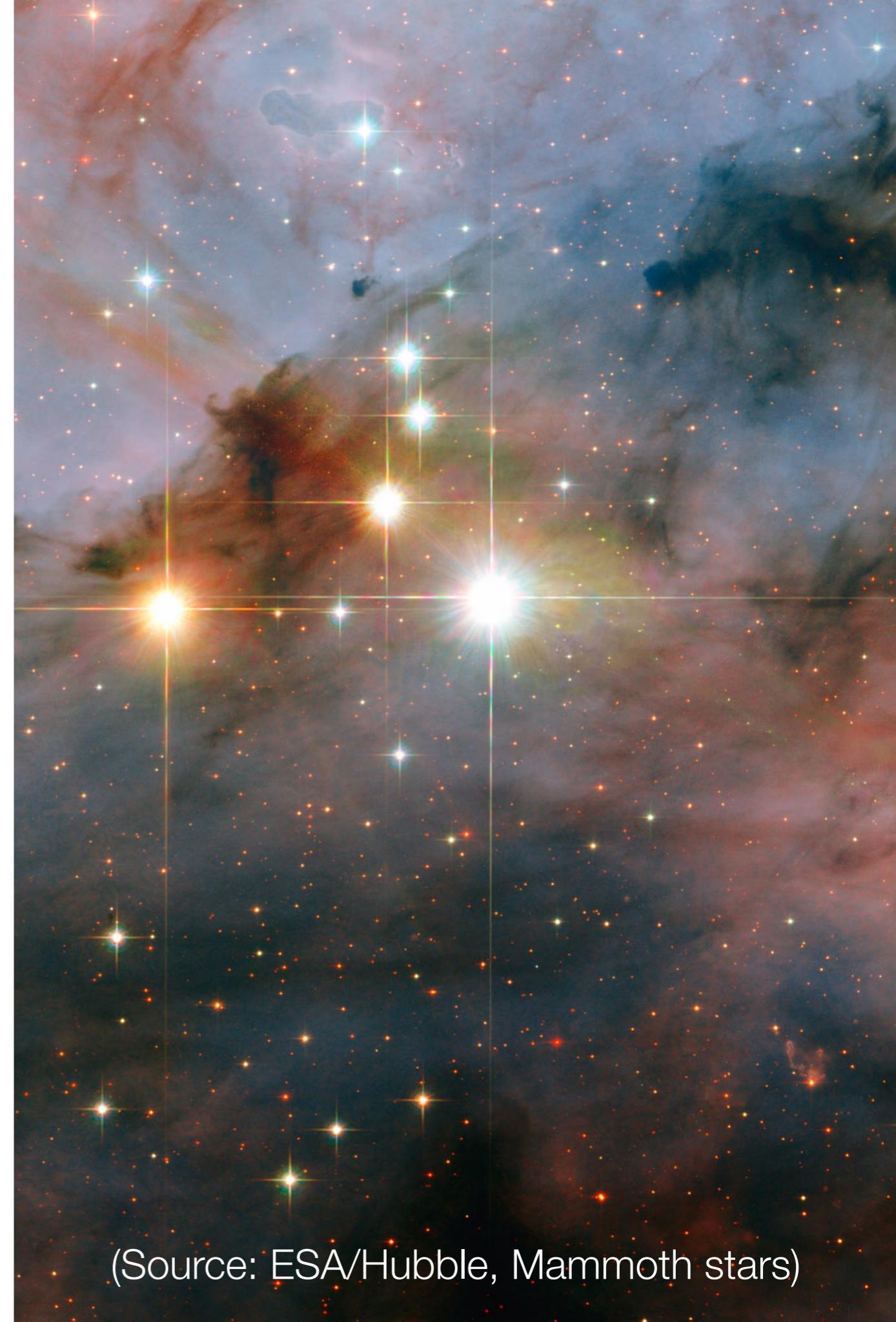


Open Data Use Cases

Ulrike Thalheim

OK Lab Berlin
www.codefor.berlin

R Ladies Berlin,
August 2017



(Source: ESA/Hubble, Mammoth stars)

1. Introduction



OK Lab Berlin



OPEN
KNOWLEDGE
FOUNDATION
DEUTSCHLAND



WAHLSALONS 2017

1. Introduction — OK Labs



Source: codefor.de

2. Open Data in 2017

"Open data and content can be freely used,
modified, and shared by anyone for any
purpose."

Source: opendefinition.org, 2006



2. Open Data in 2017

„Data is information – digital information.

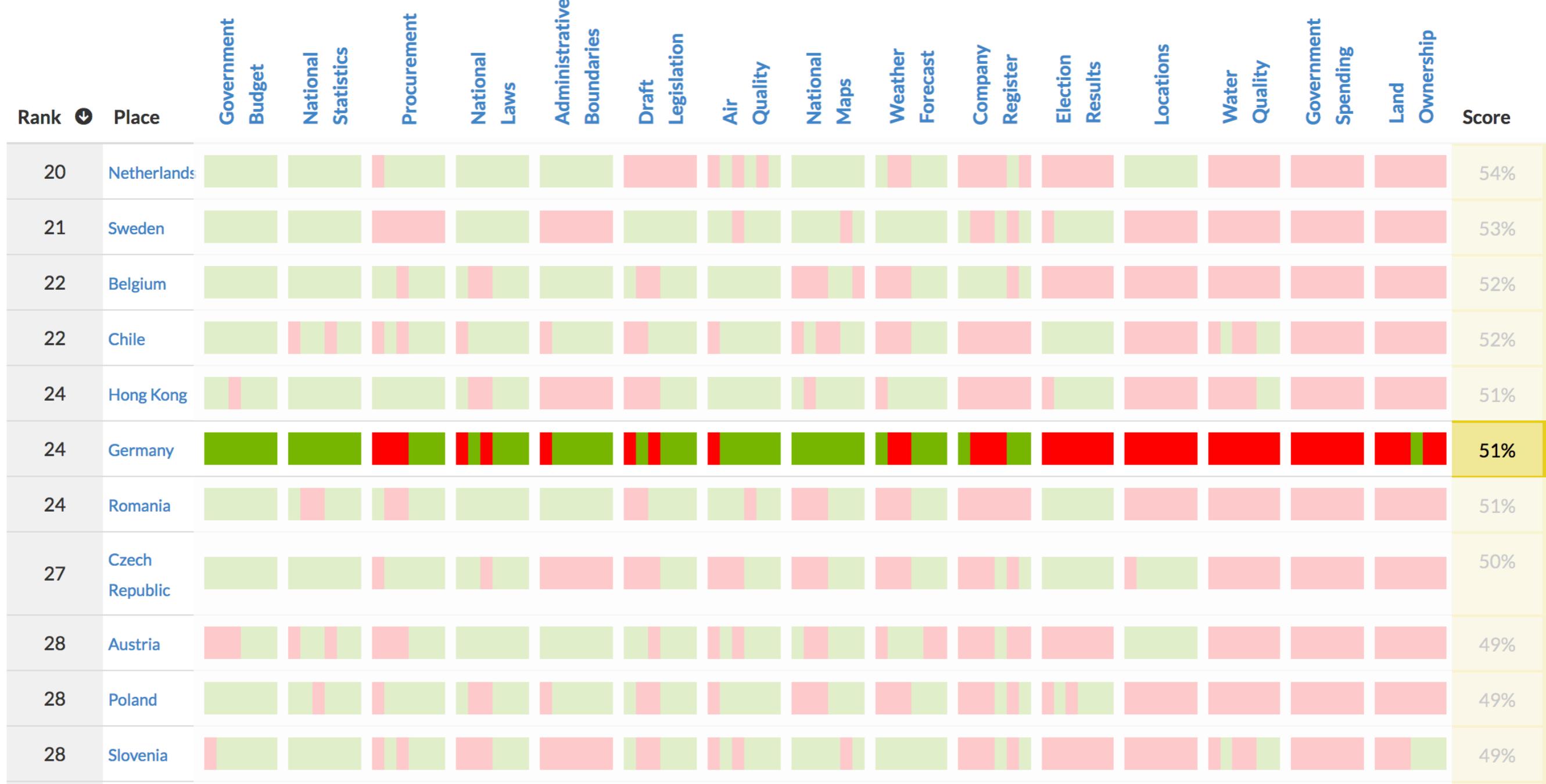
Full stop.

Open data is about making that information
as accessible as possible
to as many people as possible.“

Source: **Laurenellen McCann, 2015 -**
Building Community and Engagement around Data (on medium)



2. Open Data in Germany



(Source: **Global Open Data Index**, OKF International,
index.okfn.org)

2. Where to find Open Data?

govdata.org

daten.berlin.de

data.europa.eu



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3. Environmental data

(Source: private)



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3. Environmental data – **Air quality**

PM10: particles with a diameter between 2.5 to 10 micrometers (μm)

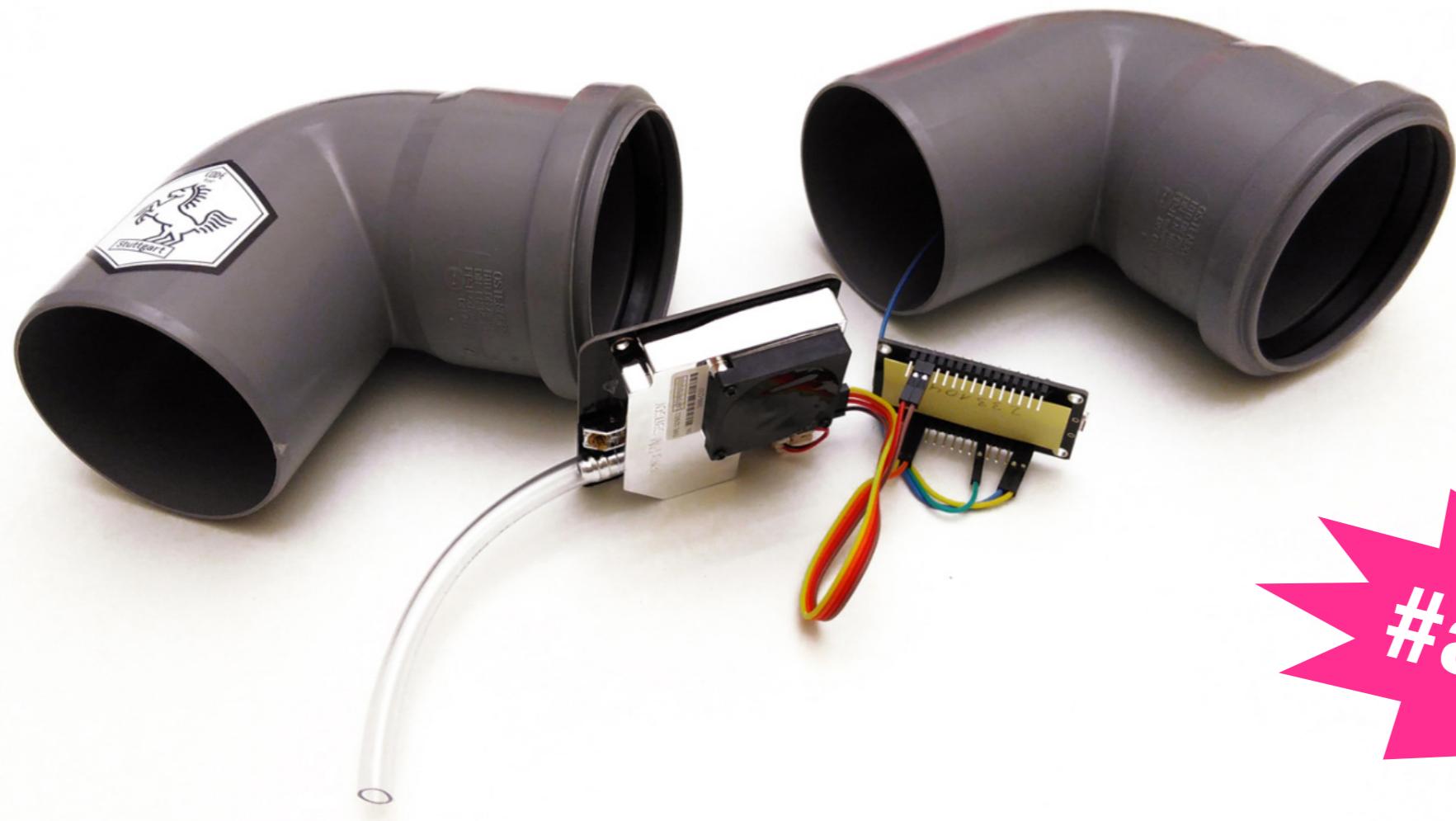
EU on PM10:

- $40 \mu\text{g}/\text{m}^3$ – Yearly average
- $50 \mu\text{g}/\text{m}^3$ – Daily average } 35 exceedances per year allowed

Exceeding days 2016: Berlin = 18 vs. Stuttgart = 58



3. Environmental data

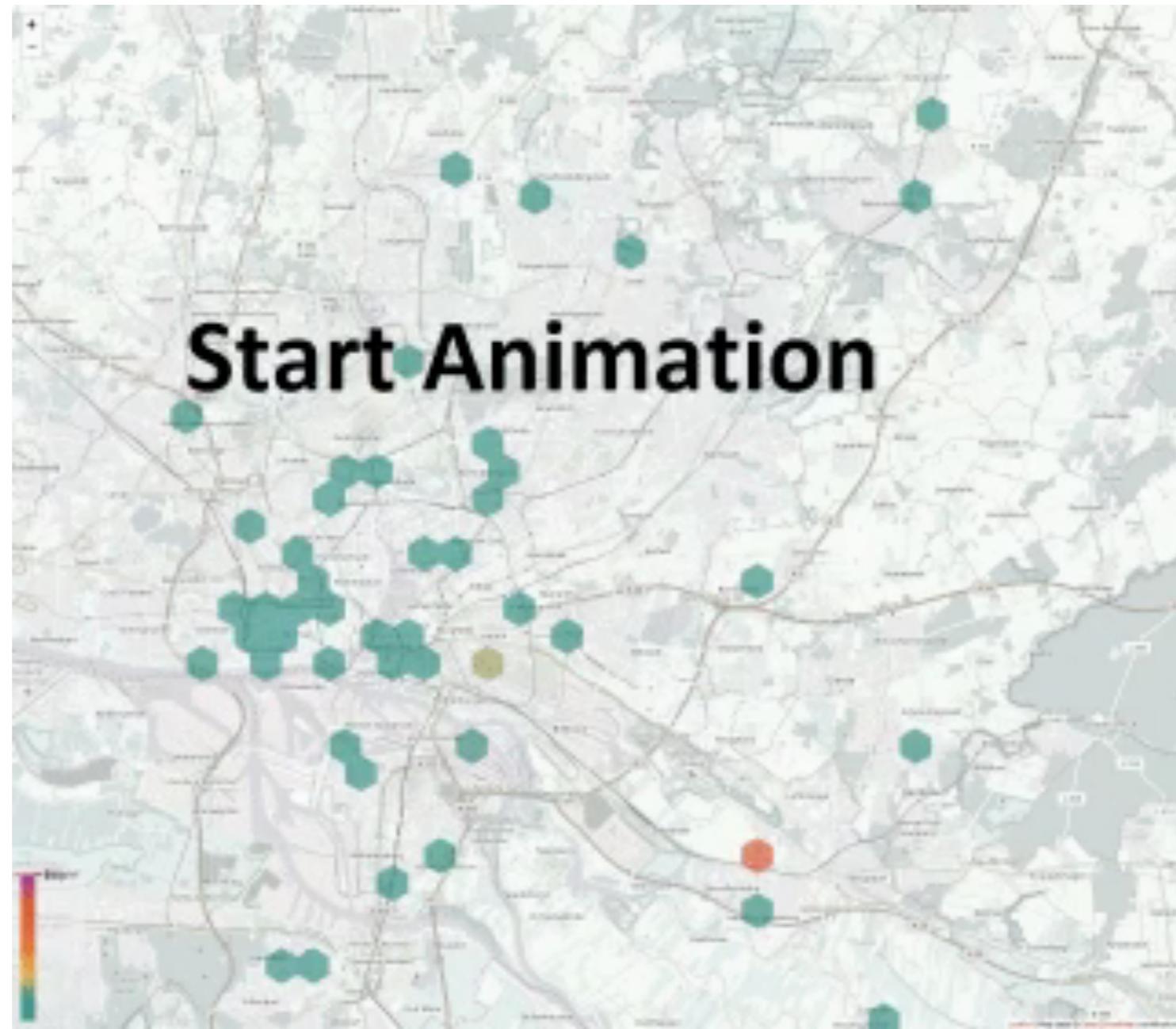


#airrohr

(Source: www.luftdaten.info)

OK Lab Stuttgart / @codeforS

3. Environmental data



(Source: twitter.com/appelschnack)



4. Election data

(Source: Pixabay, ulleo)



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4. Election data

www.statistikextern.saarland.de/wahl/internet_saar/LT_SL/landesergebnisse/index.html

Saarland
Die Landeswahlleiterin
Statistisches Amt

Sie befinden sich hier: Start > Landtagswahl > Landesergebnisse

Übersicht Ergebnisgrafiken Stimmenanteile Sitzverteilung Gewählte Bewerber

Diese Seite drucken

Landesergebnis Saarland

Endgültiges amtliches Endergebnis der Landtagswahl 2017

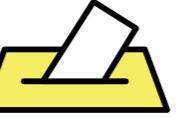
Gegenstand der Nachweisung	Stimmen 2017		Stimmen 2012		Diff. zu 2012 in %-Pkt.
	Anzahl	%	Anzahl	%	
Wahlberechtigte	774.951	-	797.512	-	-
Wähler	540.290	69,7	491.591	61,6	8,1
Ungültige	6.507	1,2	10.297	2,1	-0,9
Gültige	533.783	98,8	481.294	97,9	0,9
CDU	217.263	40,7	169.617	35,2	5,5
SPD	158.057	29,6	147.170	30,6	-1,0
DIE LINKE	68.566	12,8	77.612	16,1	-3,3
PIRATEN	3.979	0,7	35.656	7,4	-6,7
GRÜNE	21.392	4,0	24.252	5,0	-1,0
FAMILIE	4.435	0,8	8.394	1,7	-0,9
FDP	17.419	3,3	5.871	1,2	2,0
NPD	3.744	0,7	5.606	1,2	-0,5
FREIE WÄHLER	2.146	0,4	4.173	0,9	-0,5
AfD	32.971	6,2	-	-	6,2
BGE	286	0,1	-	-	0,1
DBD	543	0,1	-	-	0,1
DIE EINHEIT	872	0,2	-	-	0,2
REFORMER	880	0,2	-	-	0,2
FBU	51	0,0	-	-	0,0
LKR	1.179	0,2	-	-	0,2
Übrige	-	-	2.943	0,6	-

*Es können Rundungsabweichungen auftreten.

©2017 Die Landeswahlleiterin, Statistisches Amt Saarland

(Source: www.statistikextern.saarland.de/wahl/internet_saar)

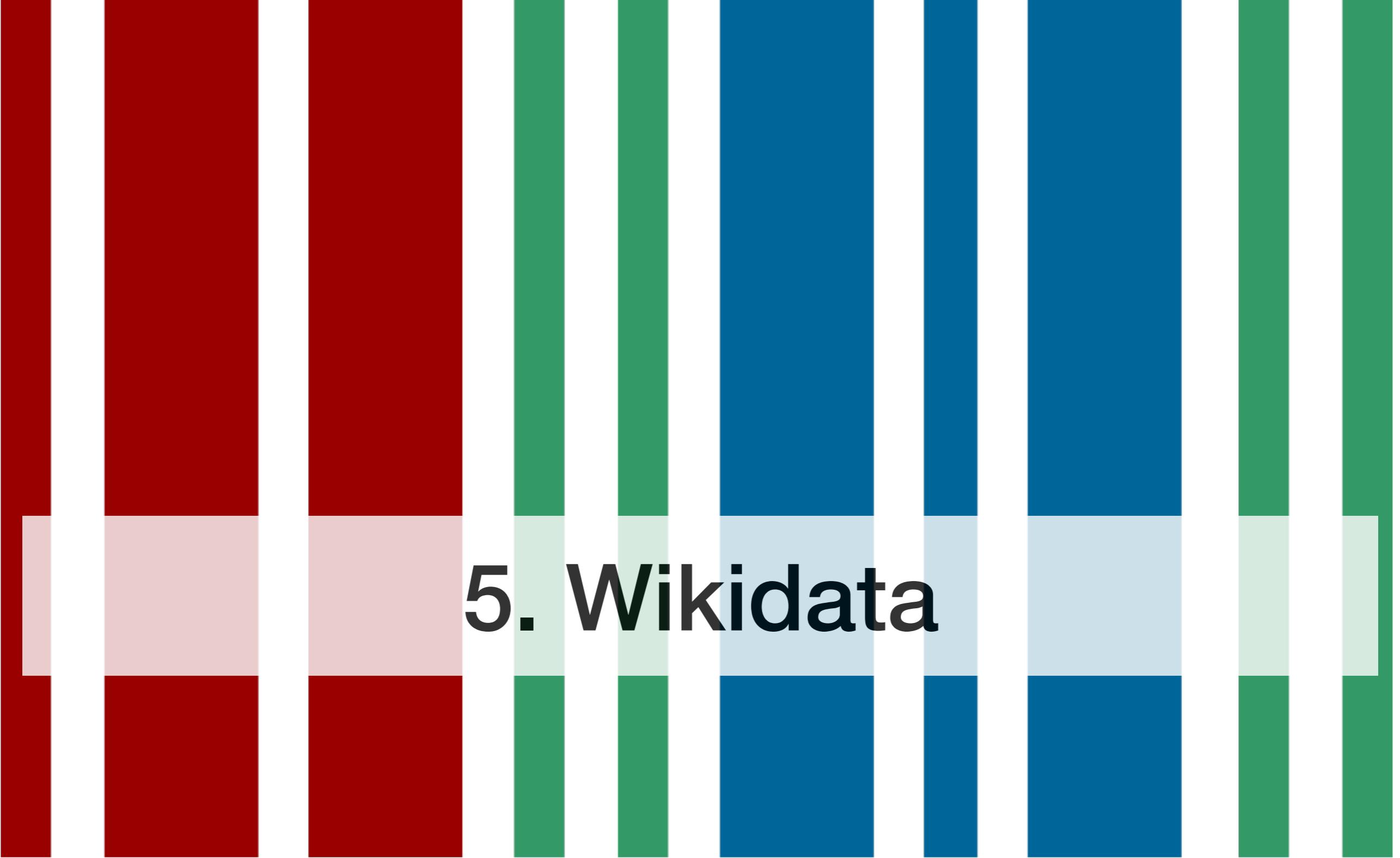
4. Election data

WAHLSALONS  2017

- Polling station finder
- WePublic
- Election data transparency ranking



(Source: codefor.de)



5. Wikidata

(Source: commons.wikimedia.org)



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5. Wikidata

Screenshot of the Wikipedia article on Berlin (de.wikipedia.org/wiki/Berlin) showing the Wikidata integration.

The page header includes a back/forward button, a lock icon, the URL https://de.wikipedia.org/wiki/Berlin, a search bar, and various user interface elements like Dataista, Diskussion, Einstellungen, Beta, Beobachtungsliste, Beiträge, and Abmelden.

The main content area shows the article title "Berlin" and a summary paragraph. A note at the top of the article text states: "Dieser Artikel behandelt die deutsche Stadt. Zu weiteren Bedeutungen siehe Berlin (Begriffsklärung)."

The right side of the page features a sidebar with the following sections:

- Land Berlin**: Includes the Landesflagge (Flag of Berlin) and the Landeswappen (Coat of arms of Berlin).
- Basisdaten**: Shows the Staatsform (State form) as "parlamentarische Republik" (Parliamentary Republic).

The sidebar also displays a map of Germany with Berlin highlighted.

A red circle highlights the link "Wikidata-Datenobjekt" in the sidebar, indicating where Wikidata data is integrated into the Wikipedia article.

(Source: de.wikipedia.org/wiki/Berlin)

5. Wikidata

Berlin (Q64)

capital city of Germany
Berlin, Germany

In more languages Configure

Language	Label	Description	Also known as
English	Berlin	capital city of Germany	Berlin, Germany
German	Berlin	Hauptstadt und Land der Bundesrepublik Deutschland	Stadt Berlin Berlin, Deutschland Bundeshauptstadt Berlin Land Berlin DE-BE
French	Berlin	capitale et ville-État de l'Allemagne	
Bavarian	Berlin	Hauptstod vo Deitschland	

All entered languages

Statements

instance of	<ul style="list-style-type: none">seat of government<ul style="list-style-type: none">0 referencesmetropolis<ul style="list-style-type: none">0 references
-------------	---

Wikipedia (241 entries) edit

ab	Берлин
ace	Berlin
ady	Берлин
af	Berlyn ☀
ak	Berlin
als	Berlin
am	ԱՆՌ
ang	Berlin
an	Berlín
arc	ବେରଲିନ
ar	برلين
arz	بېرلېن
ast	Berlín
ay	Berlin
azb	بېرلېن
az	Berlin
bar	Berlin
bat_smg	Berlins
ba	Берлин ☀
bcl	Berlin
be_x_old	Бэрлін
be	Горад Берлін
bg	Берлин
bi	Berlin

(Source: www.wikidata.org/wiki/Q64)

5. Wikidata

Wikidata Query Examples Prefixes Tools Help Suchen English

```
1 #Largest cities with female mayor
2 #added before 2016-10
3 #TEMPLATE={"template":"Largest ?c with ?sex head of government","variables":{"?sex":{"query":"SELECT ?id WHERE { ?id wdt:P31 wd:Q48264 . } "}},"?c":{"query":"SELECT DISTINCT ?id WHERE
4 SELECT DISTINCT ?city ?cityLabel ?mayor ?mayorLabel
5 WHERE
6 {
7   BIND(wd:Q6581072 AS ?sex)
8   BIND(wd:Q515 AS ?c)
9
10  ?city wdt:P31/wdt:P279* ?c . # find instances of subclasses of city
11  ?city p:P6 ?statement .      # with a P6 (head of government) statement
12  ?statement ps:P6 ?mayor .    # ... that has the value ?mayor
13  ?mayor wdt:P21 ?sex .       # ... where the ?mayor has P21 (sex or gender) female
14  FILTER NOT EXISTS { ?statement pq:P582 ?x } # ... but the statement has no P582 (end date) qualifier
15
16  # Now select the population value of the ?city
17  # (wdt: properties use only statements of "preferred" rank if any, usually meaning "current population")
18  ?city wdt:P1082 ?population .
19  # Optionally, find English labels for city and mayor:
20  SERVICE wikibase:label {
21    bd:serviceParam wikibase:language "en" .
22  }
23 }
24 ORDER BY DESC(?population)
25 LIMIT 10
```

Press [CTRL-SPACE] to activate auto completion. Data updated **a few seconds** ago

Run Clear 10 Results in 8099 ms Display Download Link

city	cityLabel	mayor	mayorLabel
Q wd:Q1490	Tokyo	Q wd:Q261703	Yuriko Koike
Q wd:Q1156	Mumbai	Q wd:Q18218029	Snehal Ambekar
Q wd:Q38283	Yokohama	Q wd:Q529363	Fumiko Hayashi



Query service: www.query.wikidata.org

5. Wikidata

histropedia.com



1 minute, 3 more projects



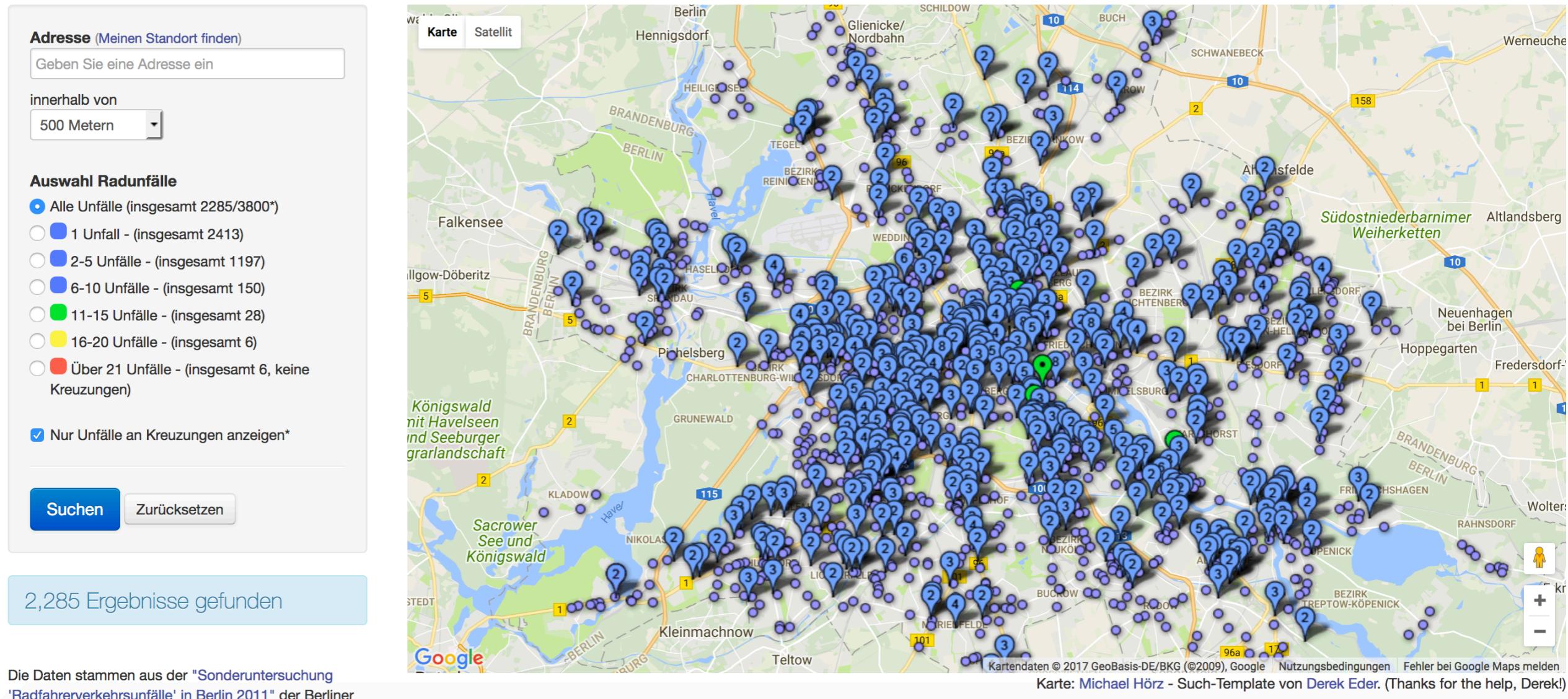
(Source: ESA/Hubble)

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1 Minute, 3 projects – Bike accidents

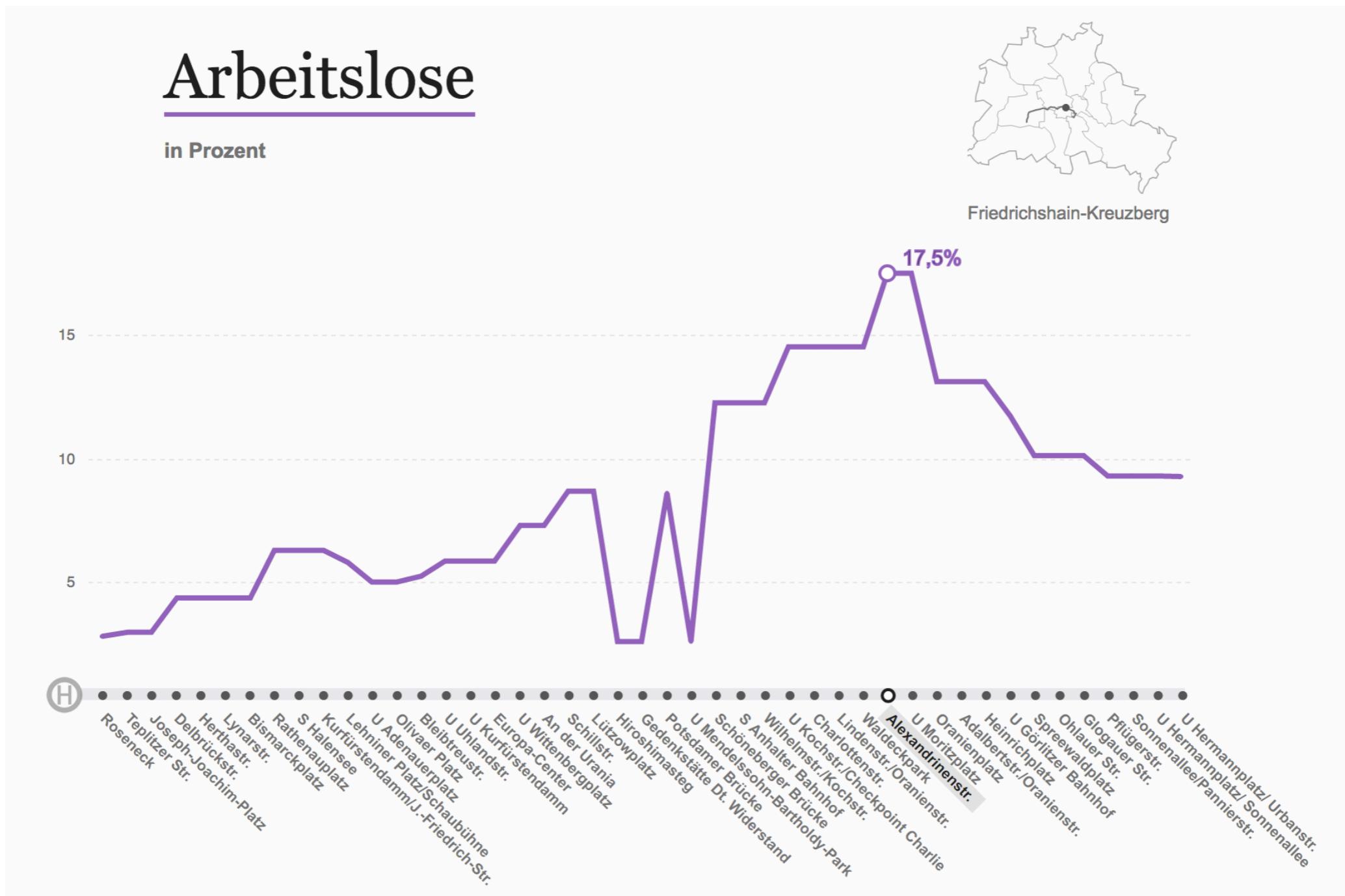
Berliner Fahrradunfälle nach Ort

Durchsuchbare Karte auf Basis der Zahlen der Berliner Polizei für 2011.



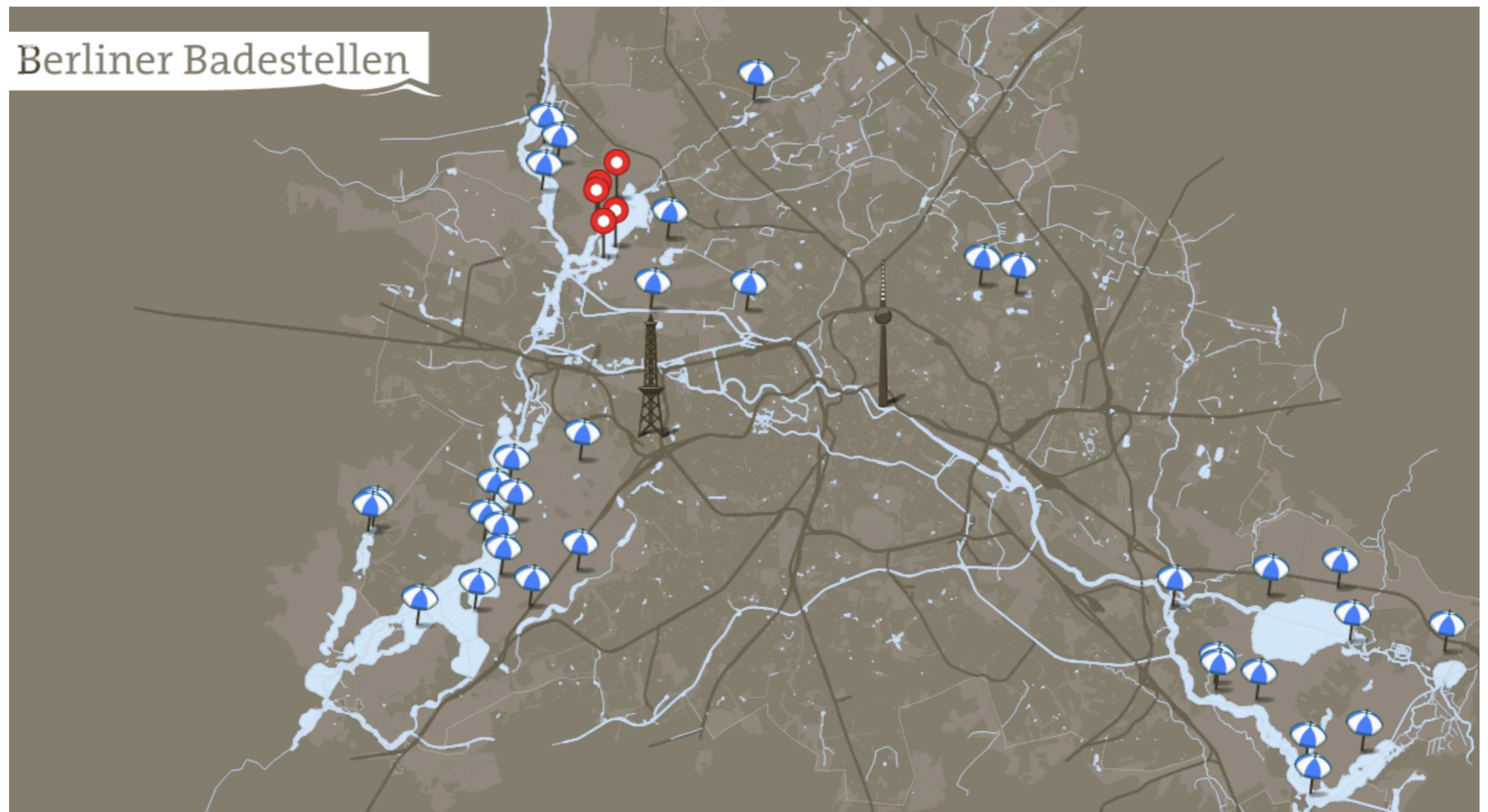
(Source: michael-hoerz.de/maps/berlin-bike)

1 Minute, 3 projects — Public transport & Society



(Source: interaktiv.morgenpost.de/berlin-an-deiner-linie)

1 Minute, 3 projects – **Swim spots**



(Source: berlin.codefor.de/badestellen)

6. How to get involved

- Use it ➔ **Open Data Portals**
- Ask for it ➔ **Frag den Staat**
- Go to the community ➔ **OK Lab Berlin**
(meetup.com/OK-Lab-Berlin, @WikimediaDE,
e.g., September 11)





Prototype
Fund

- €30.000 in public funding over 6 months for your open source project!
- Focus of the 3rd Call: **Diversity**.
- Apply now until September 30.

More info: prototypefund.de

Thanks!

ulrike.thalheim@gmail.com

Twitter: @codeforbe and @didumdida

(Source: ESA/Hubble)



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