



Arbeitsgemeinschaft der Vermessungsverwaltungen
der Länder der Bundesrepublik Deutschland

GeoBasis-DE

Geodata of the German Surveying and Mapping

Federal Agency for Cartography and Geodesy



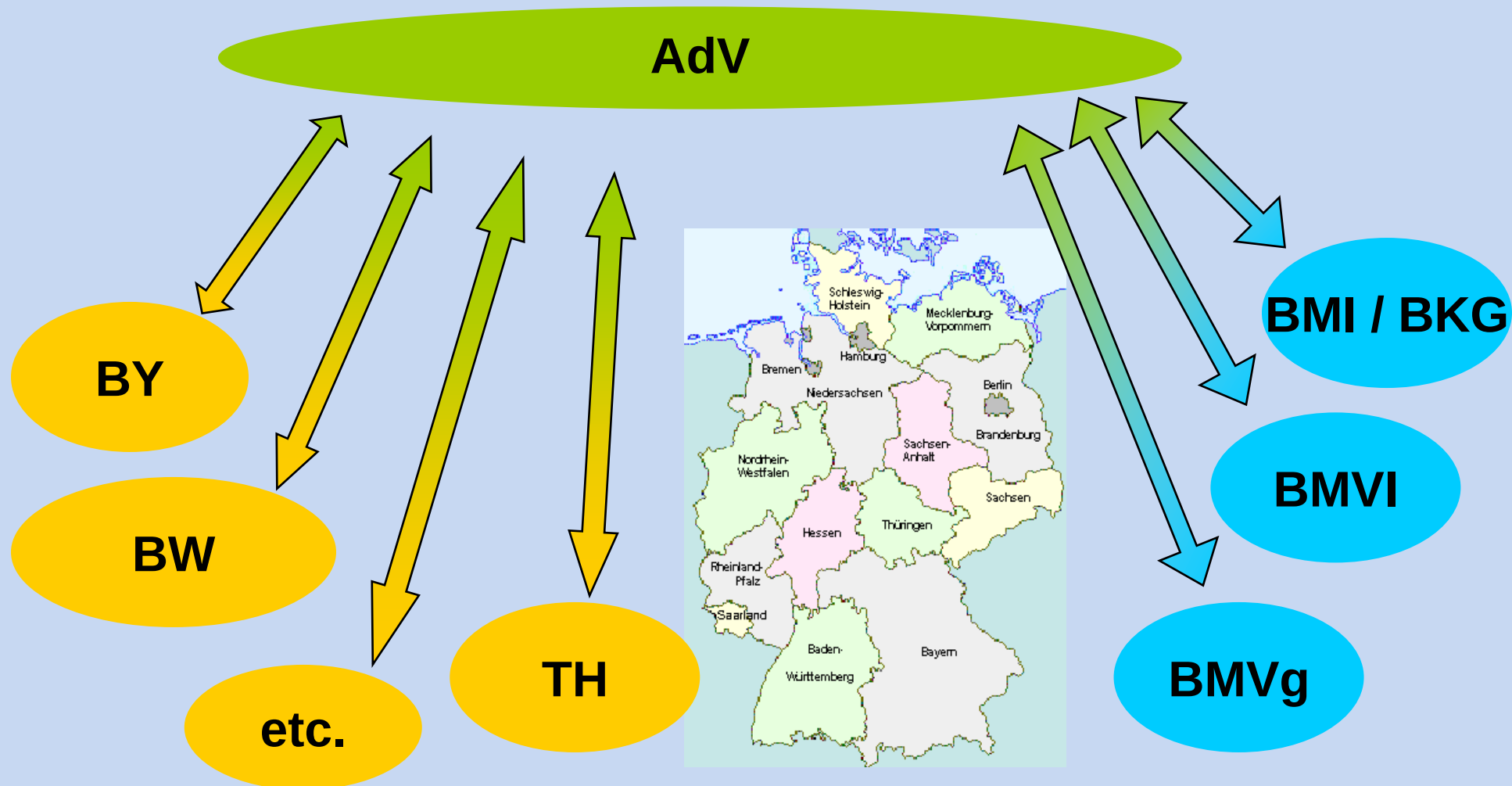
Geocoding Service for Addresses and Geonames

catalyst for data analyses



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Germany – federal structure





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Geocoding Service for Addresses and Geonames

Geocoding Service for Addresses and Geonames

- jointly developed by the Laender and the federal administration
 - *Laender*: standards + Cadastral House Coordinates
 - *Federal Agency (BKG)* hosting + Geonames 1:250 000
- two services, with two license models each
 - OGC-compliant WFS + OpenSearch GeoTemporal Services
 - place search (no storage) + geocoding (storage/batch mode)



authoritative & standards-compliant



Geocoding Service for Addresses and Geonames

- frequently used service (~11% of all BKG service accesses in 2017)
- used by the public and private sectors alike, e.g. for ...
 - deliveries and pick-ups (goods, services, people)
 - address validation for quality assurance
 - delineation of districts in geomarketing
 - route planning
 - visualisation (branches, service provisioning)
 - compliance with legal requirements (geocoding of registers)

Obrigado

Hvala

Благодаря

Gracias

Tänan

Tack

Сағ олун

Merci

Thank you

Děkuji vám

Kiitos

Tak

Děkujem vám

Danke

Ačiū

Aitäh

AdV.GS@ldbv.bayern.de

Credits: BKG (dlz@bkg.bund.de)

Paldies

ευχαριστο

Dziękuję

Dank u

Grazie

Köszönöm

Mulțumesc

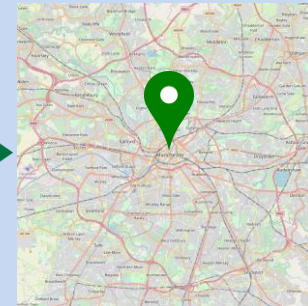


Geocoding & Reverse geocoding

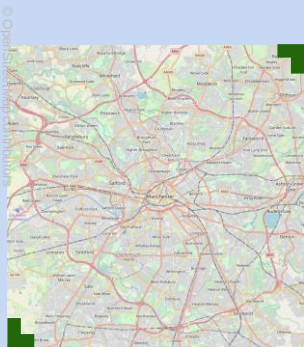
- **Geocoding:** Assigning coordinates to an object.



$53^{\circ} 28' 38.8'' N$
 $2^{\circ} 14' 42.3'' W$



- **Reverse geocoding:** Retrieving referenced objects of an area.



bounding box:

$53^{\circ} 23' 17.5'' N$
 $2^{\circ} 24' 07.9'' W$
 $53^{\circ} 34' 21.7'' N$
 $2^{\circ} 05' 40.6'' W$

Address A

Address B

Address C

...

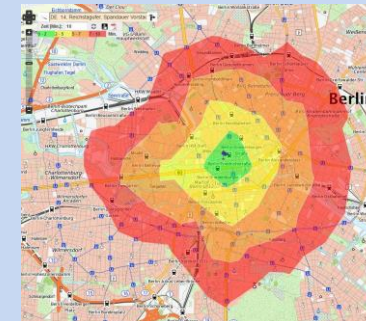
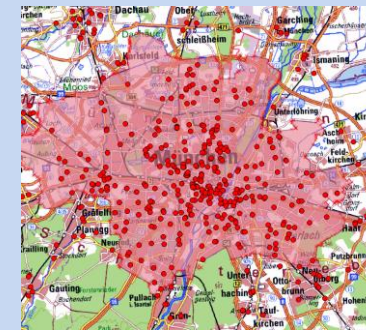


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Geocoding: Benefits

Geocoding ...

- ... puts your data on a **map**
➔ *visualisation, pattern detection*
- ... makes **spatial analyses** possible
➔ *distances, neighbourhoods*
- ... is the prerequisite for **routing**
➔ *duration, impedance*





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Thank you!

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