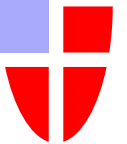




basemap.at

The most widely used  
Open Data Product of Austria

11. May 2022, ISO/TC211 Vienna, Standards in Action, Wolfgang  
JÖRG



1974

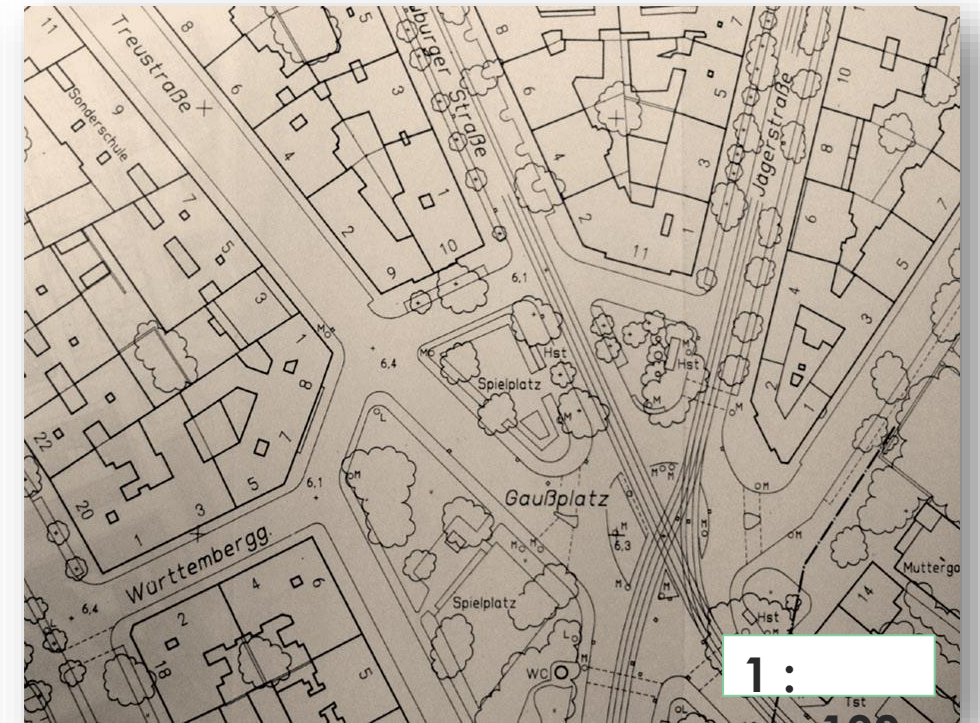
## First fully electronic digitizer in Austria





# 1979

# First automatic plotted city map





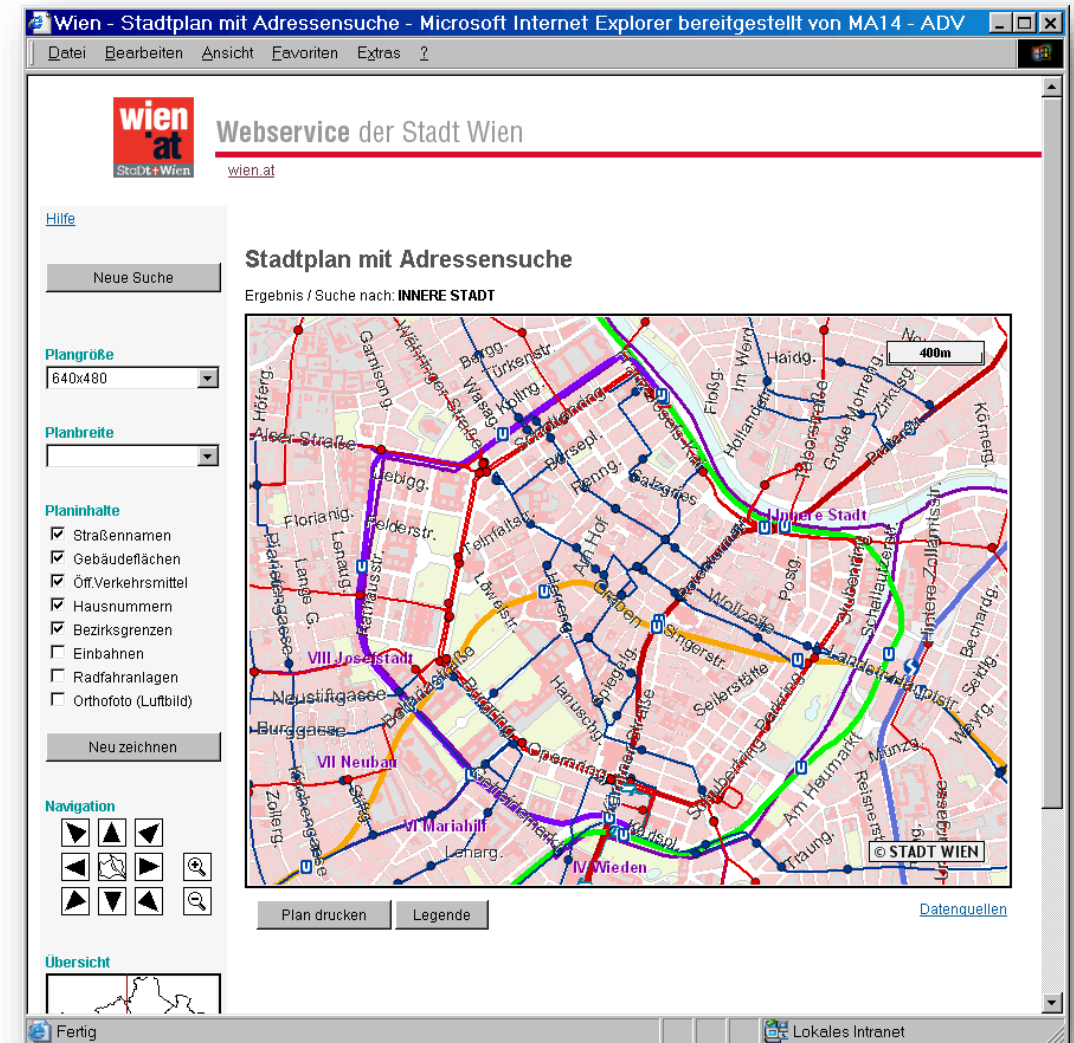
## ViennaGIS®

Geodata Infrastructure of the  
Vienna City Administration

1995

First interactive  
citymap of Austria

Real time mapping  
with Arc/Info RPC



**1999**

WMS – Own Server Implementation

**2000**

WMTS – First Implementation in Austria

**2011**

**May**

First Open Data Portal in Austria (using WMS, WFS, WMTS)

**2011**

**Nov**

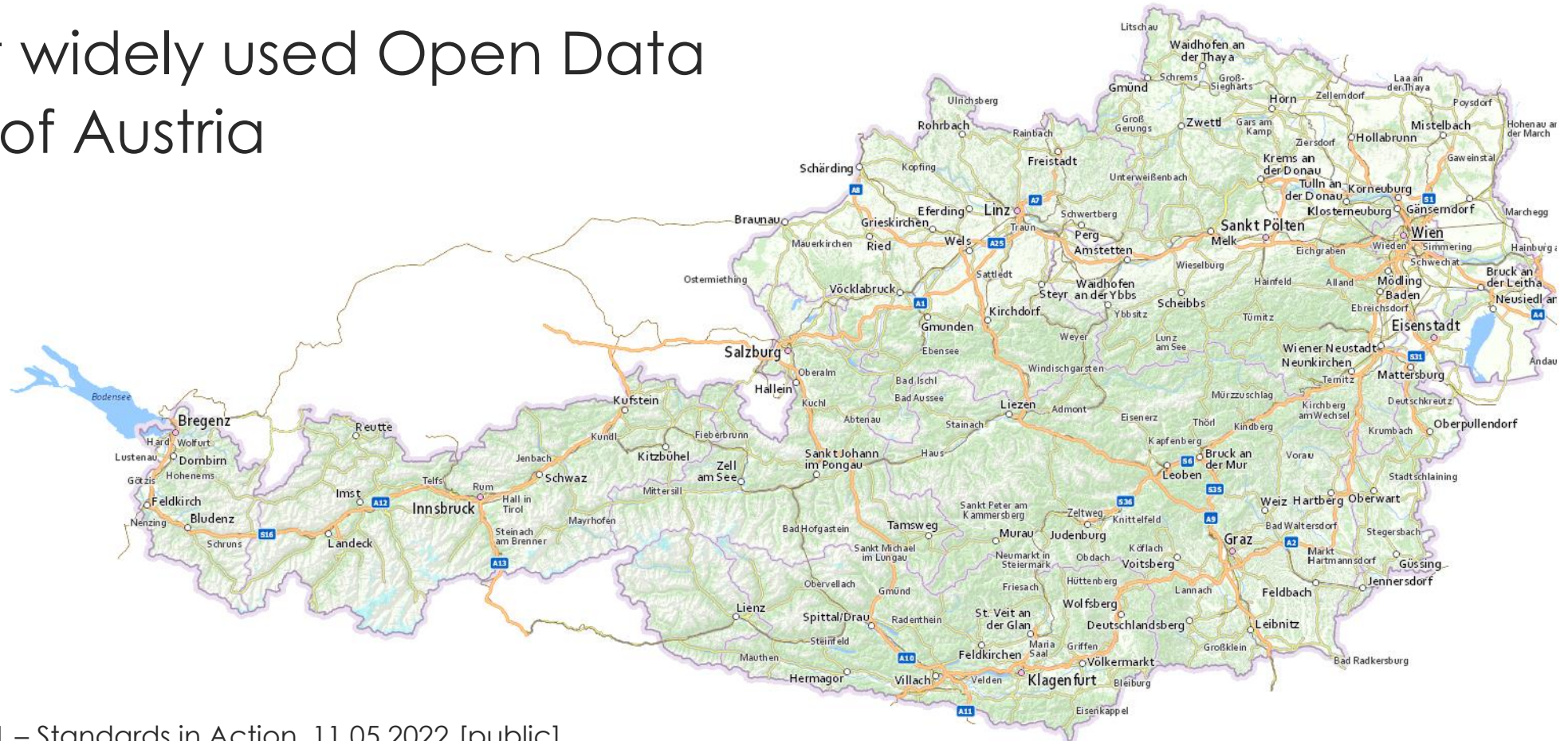
Projektstart basemap.at

Since Jan. 2014 - Raster Tile Cache (WMTS)

Since 2019 - Vektor Tile Cache (Mapbox 2.0 Specification)



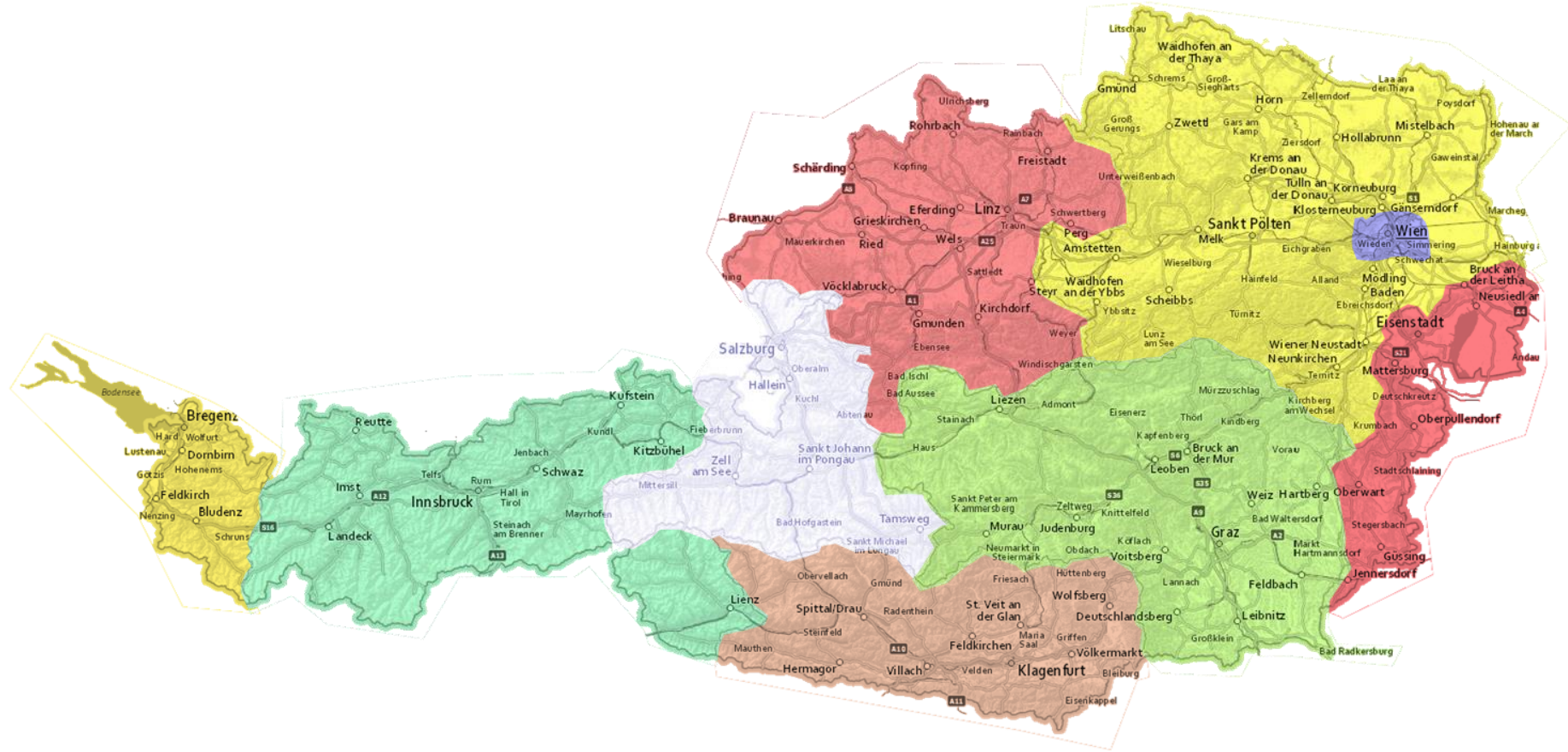
- basemap.at – the administrative basemap of Austria
- The most widely used Open Data product of Austria





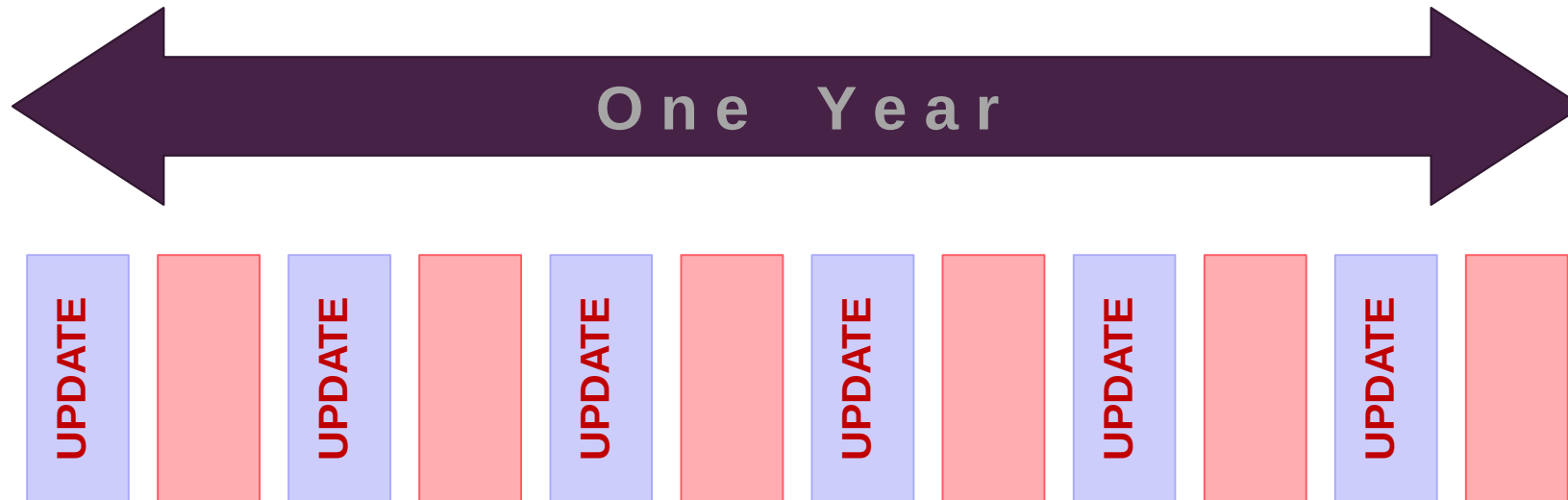


# The Making of basemap.at...



- 100% Administrative Data
- Addresses
- Streets (GIP.at)
- Buildings
- Rivers and Lakes
- Terrain
- ...

Update of all four map products: **bi-monthly**





- Raster Tile Cache
- Web Mercator Auxiliary Sphere
- Web Map Tile Service 1.0.0 (WMTS)
- OGC conform
- Compatible with OSM, Google Maps, Bing Maps

## STANDARD



## GRAU



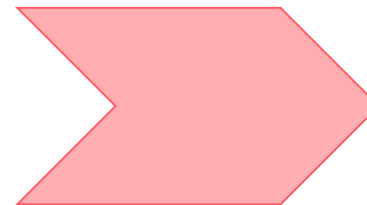
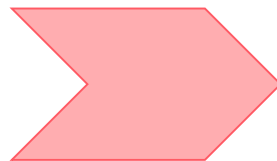
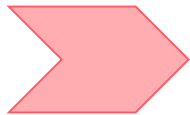
## OVERLAY



## HIDPI



Up to 1:1000 - for whole Austria  
1:500 in some regions





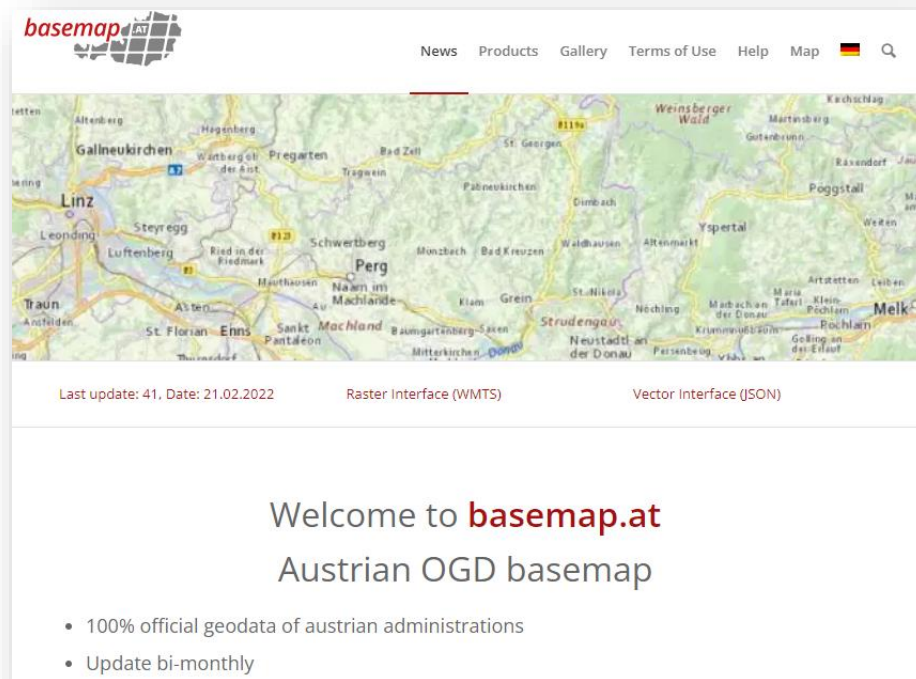


- Resolution 29cm (Level 19), some areas 15cm (Level 20)
- Watermark of year of flight in Level 17 and 18

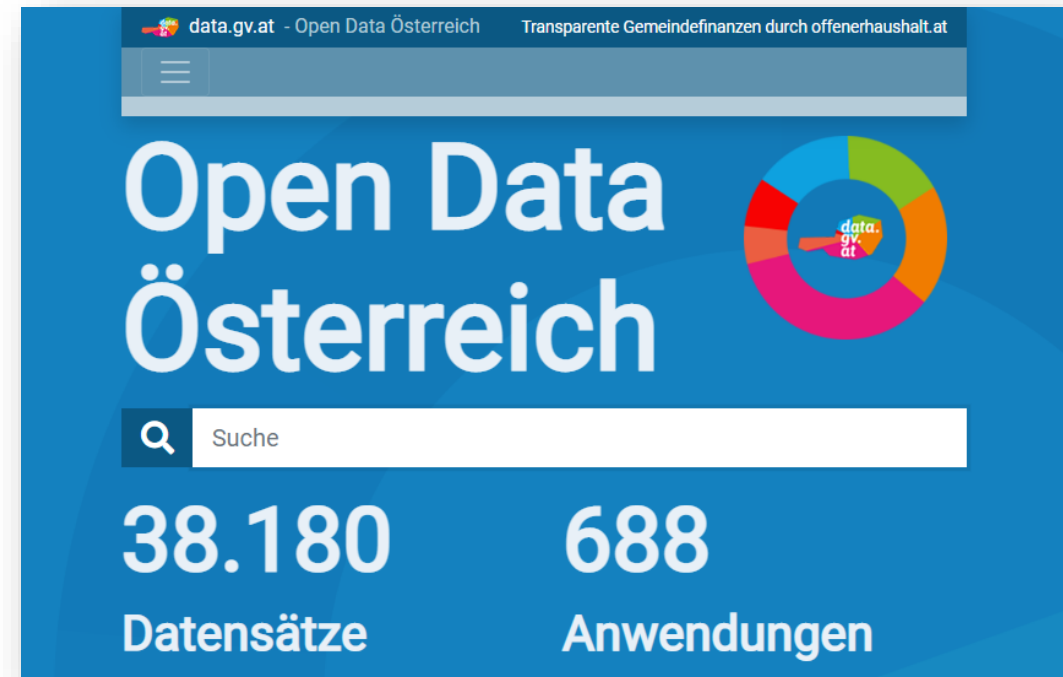




## basemap.at Homepage



## basemap.at at data.gv.at





- 107 registered applications on data.gv.at (Date: 25.02.2022)
- 30 Mio. requests per day
- 500 TB download volume per year
- Production, update and hosting  
by the City of Vienna (Wien Digital – MA 01)
- Data Storage: Cloud storage of City of Vienna (Wien Digital – MA  
01)

- VTC standard - Mapbox 2.0?
  - VTC more complex than RTC
- Reengineering of production workflow
  - Daily update / Update in real time?
  - SSH tunnel, PostGIS DB, RTC/VTC, Lucene/SOLR,...



Thank You

