basemap.at
The most widely used Open Data Product of Austria
11. May 2022, ISO/TC211 Vienna, Standards in Action, Wolfgang JÖRG
History

First fully electronic digitizer in Austria

1974
History

1979

First automatic plotted city map
ViennaGIS®

Geodata Infrastructure of the Vienna City Administration
First interactive citymap of Austria

Real time mapping with Arc/Info RPC
WMS – Own Server Implementation

WMTS – First Implementation in Austria

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

Projektstart basemap.at

Since Jan. 2014 - Raster Tile Cache (WMTS)
Since 2019 - Vektor Tile Cache (Mapbox 2.0 Specification)
basemap.at

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

• 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
Up to 1:1000 - for whole Austria
1:500 in some regions
basemap.at
Products - Orthofoto

- Resolution 29cm (Level 19), some areas 15cm (Level 20)
- Watermark of year of flight in Level 17 and 18
Welcome to basemap.at
Austrian OGD basemap

- 100% official geodata of Austrian administrations
- Update bi-monthly
• 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)
Challenges for the future

- 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