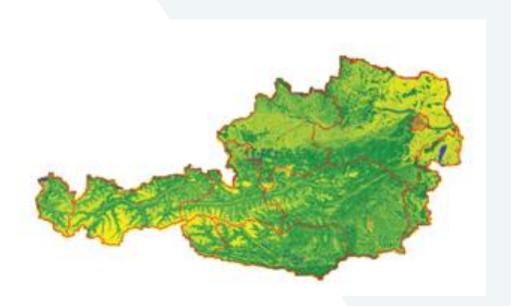
Contribution of the Cadastre to public Services

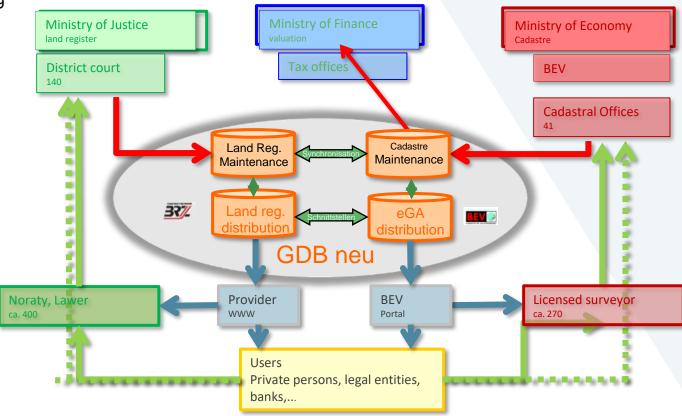
The BEV as a reliable partner in a shared data room

PCC Conference Paris, May 31 2022

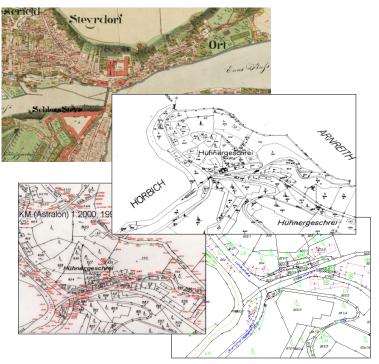
Agenda

- Cadastre in Austria
- Challenges
- The Geoportal of the BEV
- New Services
- APOS for precise farming
- Address register





From Property Tax Cadastre ...



- Property Tax Act 1817
- Basis for taxation of agricultural land
- Surveying of all parcels by means of plane table
- Graphic documentation in the cadastral map
- different cultivation (field, meadow, common pasture, forest, ...)

.. to Cadastre of Boundaries (legal Cadastre)



- Since 1969 (Land Surveying Act)
- Signature by owners and surveying
- Property boundary is legally binding
- Protection of good faith
- In case of boundary dispute, the surveying authority is in charge
- 18 % of all parcels in "legal Cadastre"

The World is Changing...

- Increasingly influence by global trends and developments
- Challenges and opportunities for land administration
 - Huge progress in technology supports access to information and knowledge and
 - at the same time, it can threaten privacy, erode security
 and increase the digital divide

(source: WPLA)



Challenges for land administration authorities

- remain relevant and provide trustworthy services
- perform a role as a key partner in solving state priorities
 - e-government, smart cities, spatial data infrastructure,
- How can land administration authorities create, increase, and retain value with respect to relevance, liability and trustworthiness?
 - ".....authorities should provide a foundation of trust, on the basis of which society and individuals can develop"



Study of the Austrian Institute of Economic Research:

•"The social benefit of the BEV (Federal Office for Metrology and Surveying) goes beyond the economic aspects and concerns, for example, environmental, health and consumer protection, climate research or the precise coordination of emergency services in the event of a crisis. Because artificial intelligence and automation place growing demands on reliable reference, data and quality systems (e.g. Industry 4.0, autonomous driving), calibration and surveying will continue to gain in importance in the future in the course of digitization...."

https://www.wifo.ac.at/news/die_volkswirtschaftliche_bedeutung_des_eich-_und_vermessungswesens

BEV- service provider with trust

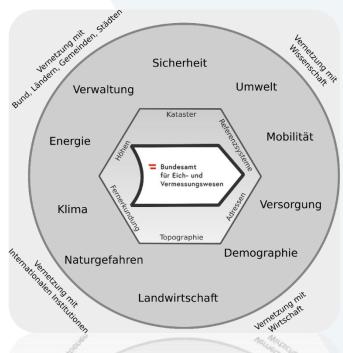
- The BEV as a reliable partner
- multiplicity of data sources and formats
- possible to combine the data, to enhance the value of the data
- development of innovative technologies to acquire a better knowledge of the territory



Geoinformation as a cornerstone of a modern state and society

BEV in the common spatial data space

- guarantee the relevance of cadastral data
- cadastral authorities have a crucial role in enhancing and adapting their own data for making them available within a broader geoinformation infrastructure
- strategic concepts will help to valorise the cadastral data > to add value



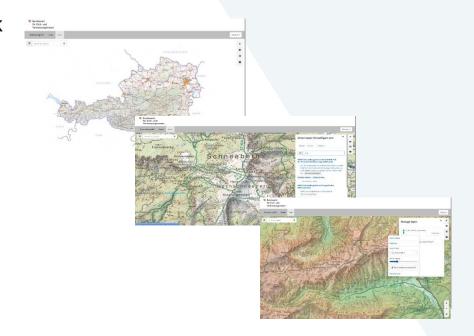
General Conditions

- EU- Directive on open data and the re-use of public sector information (OpenData Directive, PSI); July 17, 2021
- environmentally relevant federal Geodata Infrastructure law (GeoDIG)



Geoportal data.bev.gv.a

- implemented the legal framework on open data and re-use of public sector information
- to enhance the access to data following the FAIR principles with standardized interfaces
- distributed cloud strategy for the provision of the geospatial data

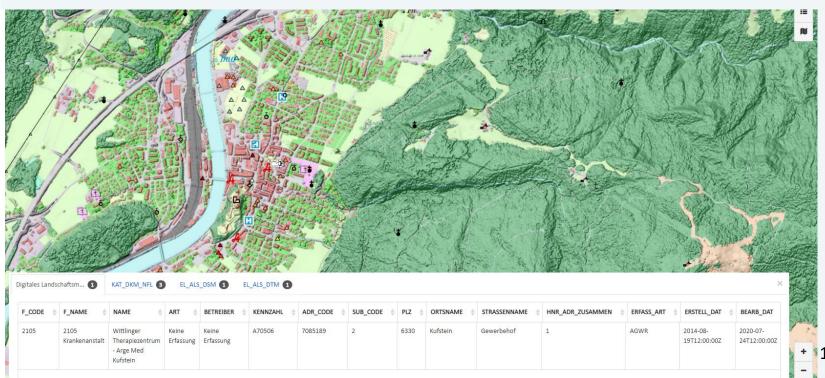


Präsentationstitel 12

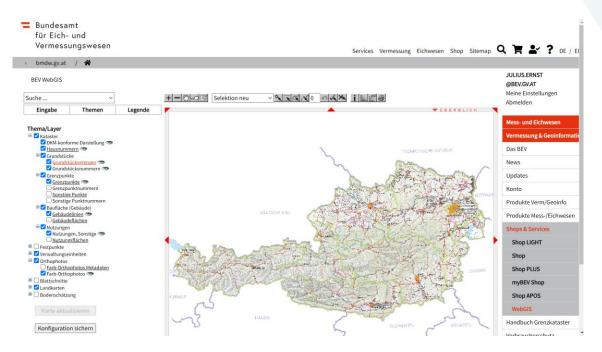
The concept

- based on a 24/7 service to access authoritative geospatial data
- builds on interoperability of data, services and IT applications
- delivery, expansion and easy usage of open authoritative data
- Interactive Maps within the geoportal provide the ability to navigate to properties and to combine geospatial features through the free on-line application

data.bev.gv.at



e-geodata Austria: bev.gv.at



Special services with standard charges

comply with the principles of PSI (IWG)

Cadastre - Service



- daily updated data of the cadaster
- free for everyone to use
- large selection of search options

- Various types of representation
- German and English















detail information

= Federal Office of Metrology and Surveying

Transformator EN

■ ₩ API WIKI B Contact i Imprint anonymous

Point Manager

Farming

Austrian

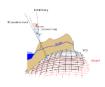
+ Advanced

Date Transformation

Cadastre

New: BEV Transformator 3.0. find information to BEV - Transformator here

Austrian Mode



Transform coordinates within Austria with our products GIS-Grid as well as Heightgrid, Geoid and Heightgrid+Geoid for height.

Cadastre Mode



Transform GNSS based coordinates in ETRS89 into the official system MGI/GK in relation to the nearest lying reference points.

Farming Mode



Are your field boundaries in ITRF2014 and you want to work with APOS? With this tool you can easily convert them into the APOS ETRS89 coordinate system.

Advanced Mode

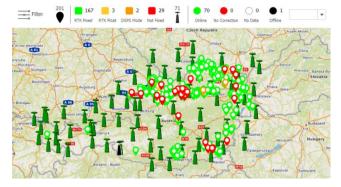


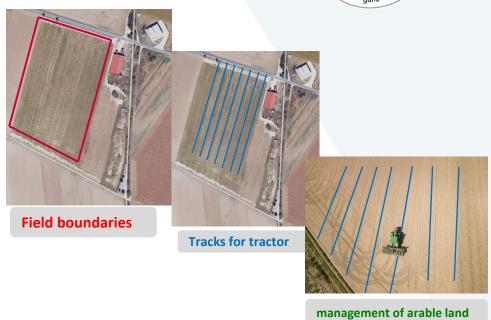
Transform your coordinates from any geographic coordinate system. Here you can choose between systems in different reference frames, on different ellipsoids and with different projections. Different epochs and speeds can also be converted.

Precise Farming with APOS









Address data for multiple applications



ADRCD SUBCD OBJEKTNUMMER

Hoteler 81 71120 7900

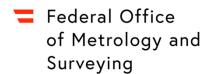
**Control Control Contr

Katastralgemeindename

Wahilokal

electoral district, Polling stations,

Allocation of the elective districts to the building objects



Thank you!

Julius Ernst BEV julius.ernst@bev.gv.at