

34. Katasterfachtagung 2018 in Vienna
Tradition and Innovation in Cadastre - Contradiction or Motivation?
Austria

BEV - Bundesamt für Eich- und Vermessungswesen



Digitizing Data (1)

The digitizing of data opens new possibilities to improve them (Georeferencing, up-to-dateness, quality). Efficient tools are available and the cooperation with other institutions (communities, surveyors,...) becomes easier.

But not everything that is technically possible will finally be implemented.

Example: Implementation of the automatically calculated area of a parcel as result of the digitised lines of the DKM

😊 no more inconsistency between the area in the land register and the GIS-based applications (INVEKOS....)

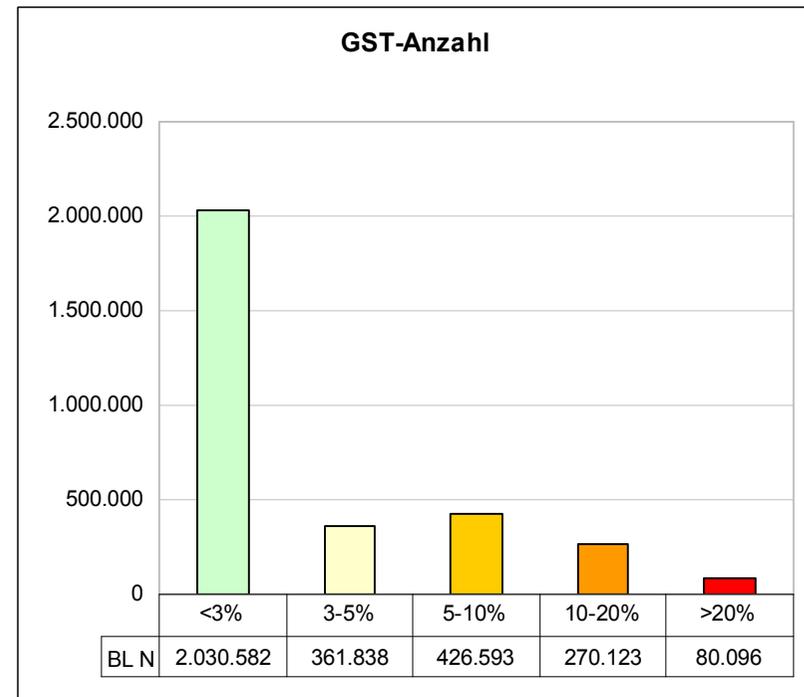
😊 in 90% the objectively better solution

Digitizing Data (2)

☹️ **degradation for parcels
from local surveying
documents (mostly from the
1930 to the 1960)**

☹️ **general loss of trust in the
Cadastre by citizens without
expertise**

***Statistic of the area differences
(Niederösterreich)***



Digitizing the Internal Processes

The process of maintaining the Cadastre has been completely digital since 2012. (KFS)

Consequently we are now filling in last analogous gaps – the analogous archives.

Here we have an up-to-date overview of the status in the project VHW-Hist. [Link Übersicht](#)

Thus we can work location-independent, which is a great help for the BEV's local capacity problems. (lack of personnel resources)

Digitizing the Processes between Cadastre and Land Register

The Real Estate Database (Cadastre and Land Register) is run in one continuous digital work flow in spite of the two different organisations (including their traditions) and separate IT-solutions.

A lot of mistakes are not possible anymore (e.g.: forgotten parts ...).

Addresses are an example for potential rationalization. Due to the protection of personal data the Zentrale Melderegister (ZMR) of the Ministry of the Interior (BMI) is not included.



Auszug aus dem Hauptbuch

KATASTRALGEMEINDE 49322 Stiedelsbach EINLAGEZAHL 289
BEZIRKSGERICHT Steyr

Letzte TZ 8474/2016

Einlage umschrieben gemäß Verordnung BGBI. II, 143/2012 am 07.05.2012

***** A1 *****

GST-NR	G BA (NUTZUNG)	FLÄCHE	GST-ADRESSE
286/9	GST-Fläche	922	
	Bauf.(10)	63	
	Gärten(10)	859	Dirnstraße 45

aus dem Adressregister

Legende:

Bauf.(10): Bauflächen (Gebäude)

Gärten(10): Gärten (Gärten)

***** A2 *****

1 a 705/1951 Grunddienstbarkeit Wasserbezug, Wasserleitung an EZ 93
für Gst 286/9

***** B *****

1 ANTEIL: 1/1
Siegfried Ahrer
GEB: 1965-08-16 ADR: Hochstraße 37, Steyr 4400
e 933/2011 IM RANG 590/2011 Kaufvertrag 2011-07-15, Kaufvertrag
2011-10-18 Eigentumsrecht

Wohnadresse im Jahr 2011

***** C *****

2 ~~933/2011 Kaufvertrag 2011-07-15~~
aktuelle Adresse lt. zentralem Melderegister: Mitteregg 23, 4594 Aschach

für Raiffeisenkasse Halderstollen registrierte

Digitizing Customer-related Processes

With the introduction of the internet portal eGA in 2006 the use of the cadastre data for purposes far beyond the administration of real estate, has increased hugely.

Suddenly great emphasis is put on the quality of the georeferencing.

This was taken into account through an amendment for „Quality Improvement“ in the VermG 2016 (§ 52 Zi.7).

„Ergibt sich auf Grund vorhandener Behelfe oder neuer technischer Unterlagen, dass die Darstellung des Grenzverlaufes eines Grundstücks im Zuge der Anlegung der digitalen Katastralmappe nicht entsprechend den vorhandenen Unterlagen erfolgte, so ist diese von Amts wegen zu verbessern.“

Transformation to a Homogenous Coordinate System (UTM or ETRS)

This task will not be finished for a long time.

[Link AnalyseGRID](#)

- ☺ up-to-date GNSS-measurements are immediately compatible with the cadastre
- ☺ the transformation is easily realized by interpolation (all control points as base) and we get a perfect result for about 75%

- ☹ deterioration of coordinates, that have not been derived from the next possible control point if the original control point network has been inhomogeneous
- ☹ undermines the position of the cadastre expert
- ☹ GIS-systems of regional authorities and enterprises based on the cadastre have to be adopted as well

Conclusion

- **The BEV completely focuses on innovation.**
- **As manager of public registers the BEV faces great expectations concerning the reliability, completeness and availability as well as the traceability of the changes of the data.**
- **Not always technically feasible modernizations can be enforced immediately by politics.**

Thank you for your kind attention!

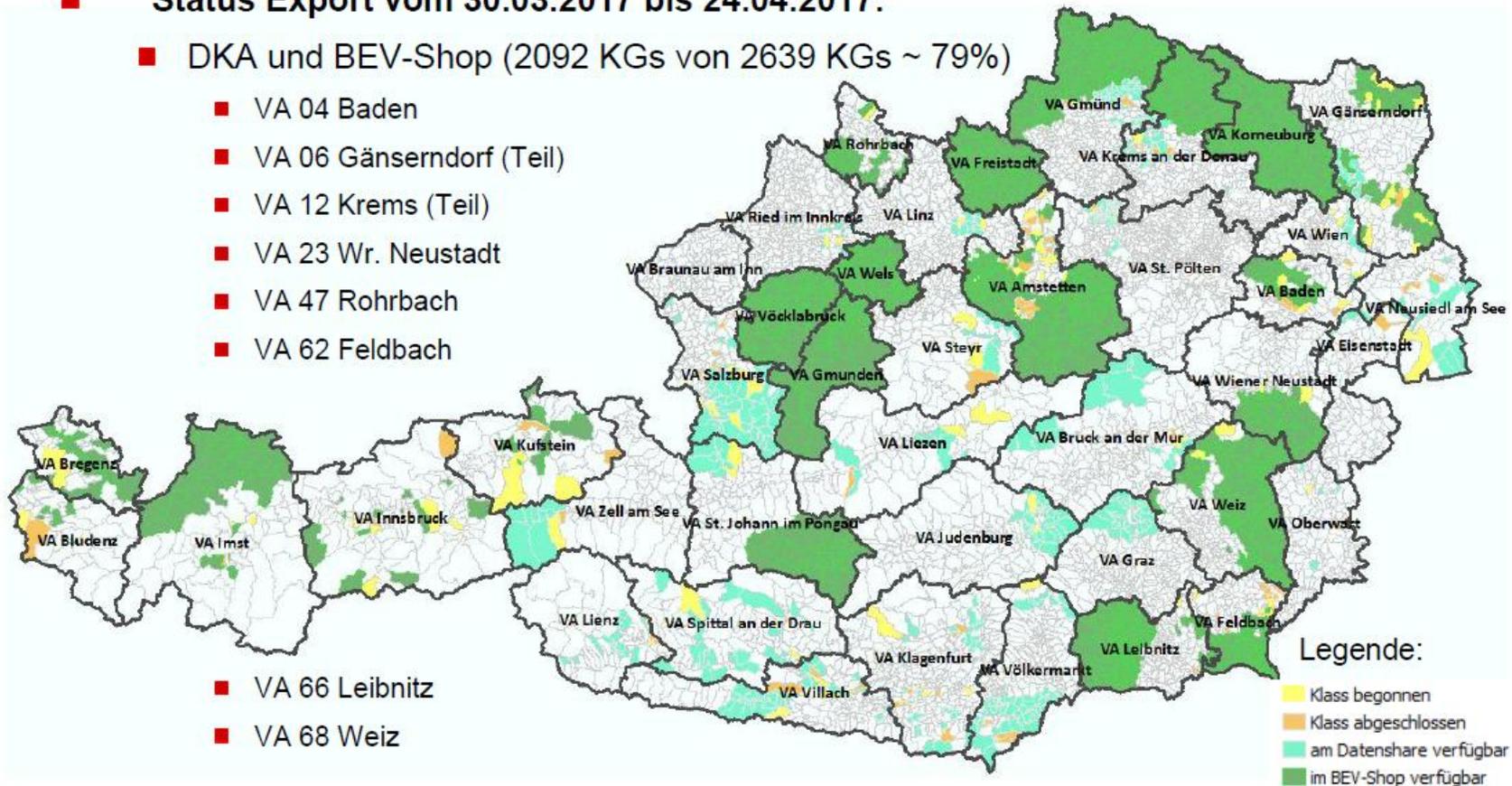
Arbeitsfortschritt im Projekt VHW-Hist

[Link](#)

■ **Status Export vom 30.03.2017 bis 24.04.2017:**

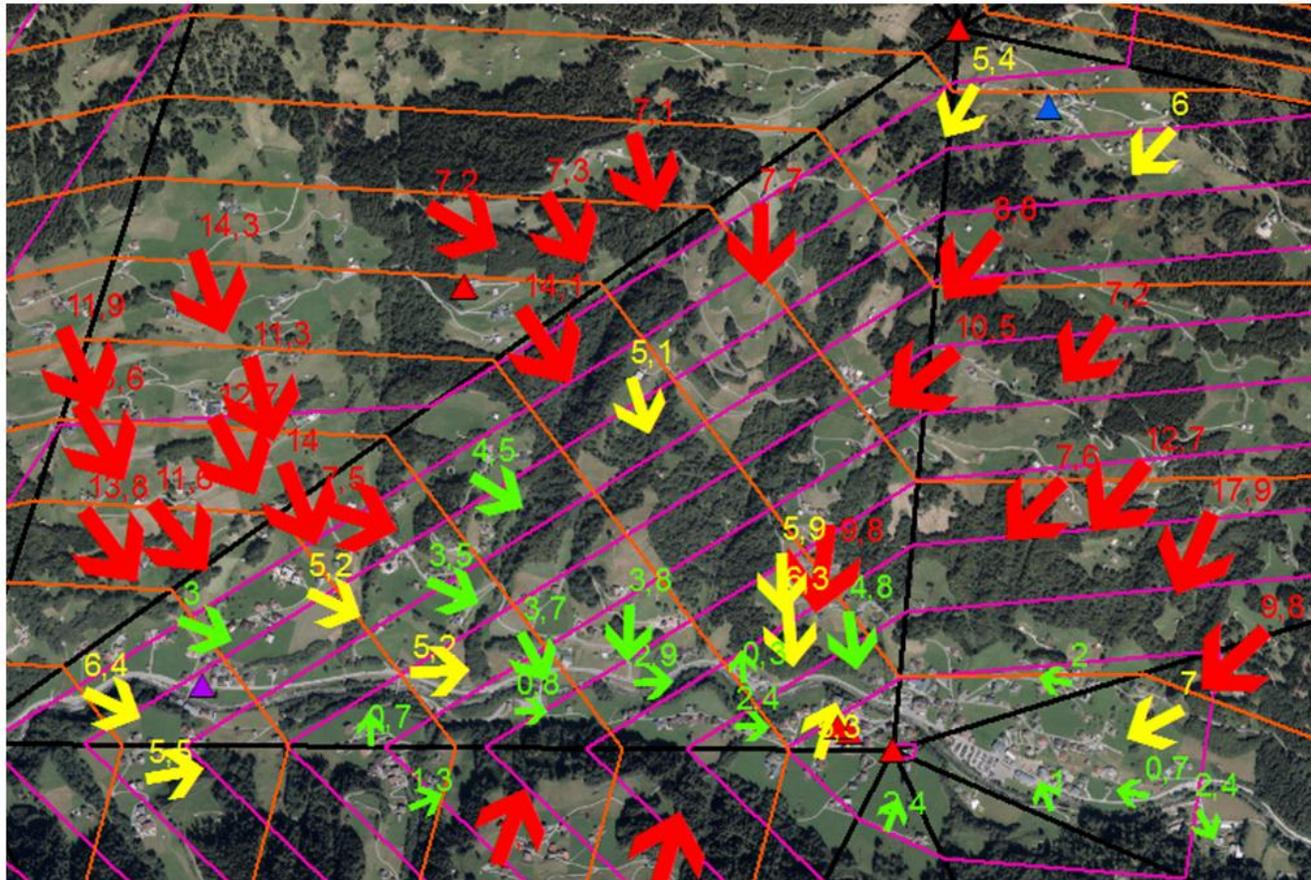
■ **DKA und BEV-Shop (2092 KGs von 2639 KGs ~ 79%)**

- VA 04 Baden
- VA 06 Gänserndorf (Teil)
- VA 12 Krems (Teil)
- VA 23 Wr. Neustadt
- VA 47 Rohrbach
- VA 62 Feldbach



- VA 66 Leibnitz
- VA 68 Weiz

IV. Analysekarte: Detektion von Bodenbewegungen



[Link](#)