

Geoinformation Strategy in Austria and at BEV

General Note (1)

In Austria a National Geoinformation driven by a political process formally does not exist.

- This also means that there is no specific funding for the implementation of strategic goals of a spatial data infrastructure through legislation or politics.
- But there is a national spatial data infrastructure that corresponds to some strategic goals.

General Note (2)

In Austria a National Geoinformation driven by a political process formally does not exist.

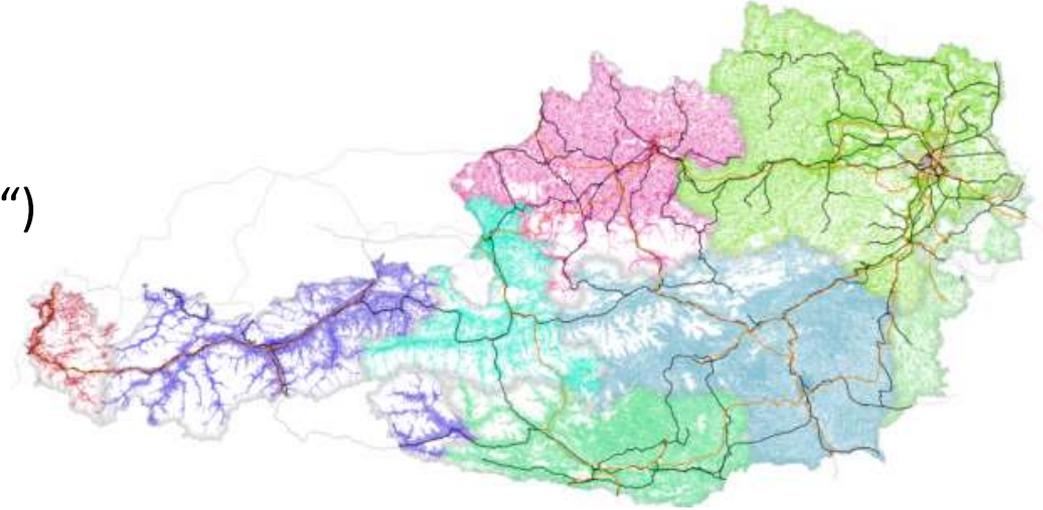
- It has been developed pragmatically from the requirements of the customers and the cooperation of administrations at the different levels, the big infrastructure companies and the BEV.
- Geoinformation Strategy in Austria is something like an **Ecosystem**

Agenda

- **Geoinformation Ecosystem Austria**
- BEV as trusted partner and provider
- Importance of rust
- Some important points of dissemination
- Challenges

Geoinformation Ecosystem Austria

- Ministries / Federal Agencies
- Federal States (Austrian „Länder“)
- Municipalities
- Private Sector
- Societies



Main Guiding Principles

- Creation /maintenance of geospatial data: only at the **most effective and responsible body**.
- Provision of **consistent geospatial data**
- Geospatial data of one authority level can be **used by all other authority levels** (distributed data management).
- Conditions of **access and use** must not constrain a necessary extensive use. But special conditions are intended to prevent a pointless strategy of stockpiling by users.
- **Metadata** of geospatial data, services and their accessibility and use have to be **publicly available without constraints**.
- One main technical solution:
Service-Oriented Architecture



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Status and business model

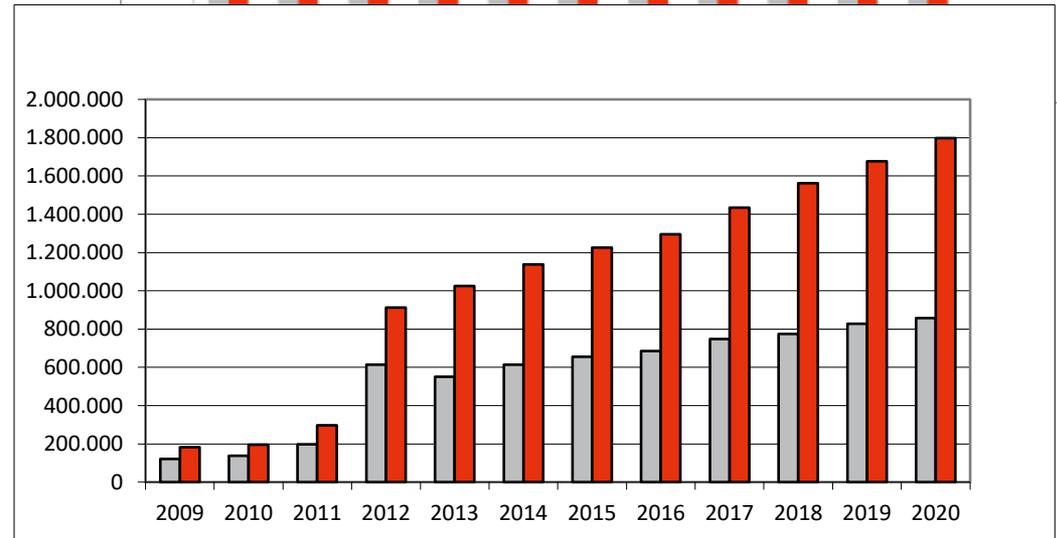
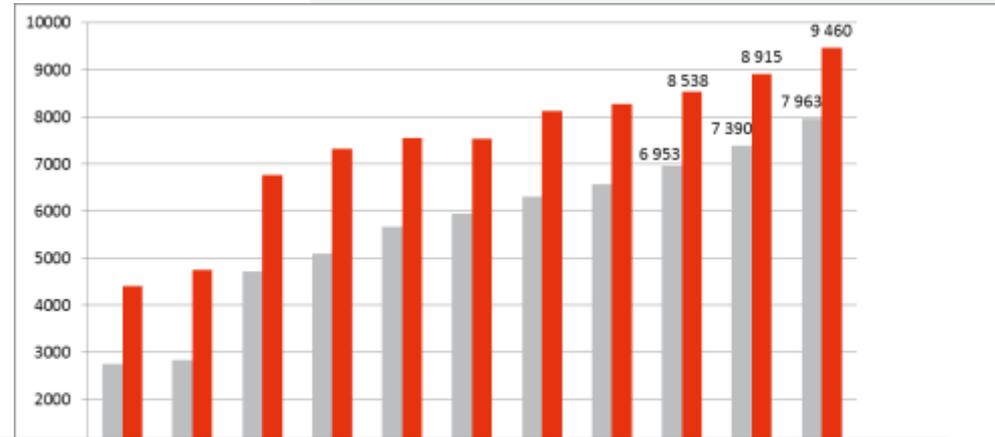
- BEV is a subordinate authority of the Federal Ministry of Labor and Economic Affairs
- BEV is responsible for Cadaster, Basics Geodesy; International and National Reference Systems, General Geodetic Core Data and the most important Provider for Geoinformation in Austria
- The BEV is responsible for data collection, quality assurance of the basic geodata, for processing related to the basic products and services and for national distribution

Strategy and principles for data dissemination!

- Date should be consistent but as up-to-date as possible (optimizing internal supply chain)
- Mass **data covering the whole nation** for administrative purposes are also available but referenced to a due date
- All data are in principle free of charge and licensed CC-BY-4.0! There are some exceptions due to General Data Protection regulation
- All standardized IT-services for viewing and dissemination are free of charge
- All real-time, **high-value IT services with complex queries and filter options** or direct integration into customer applications are subject to a fee.
The price is based on the marginal cost principle.

e-geodata Austria acceptance

- Permanent increasing amount of webshop clients
- Increasing orders
- Delivery sizes and transfer rates
- Increasing infrastructure demands
(storage, performance, bandwidth, ...)



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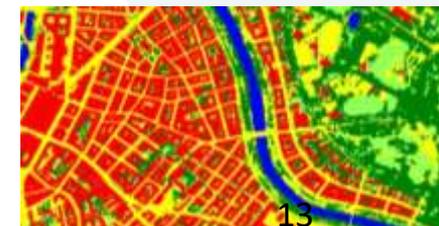
Trusted Service Partner

- Trusted content
- Trusted services
- Trusted infrastructure
- Trusted partners
- Trusted collaboration
(custodianship, stewardship)



Trust from a geospatial perspective

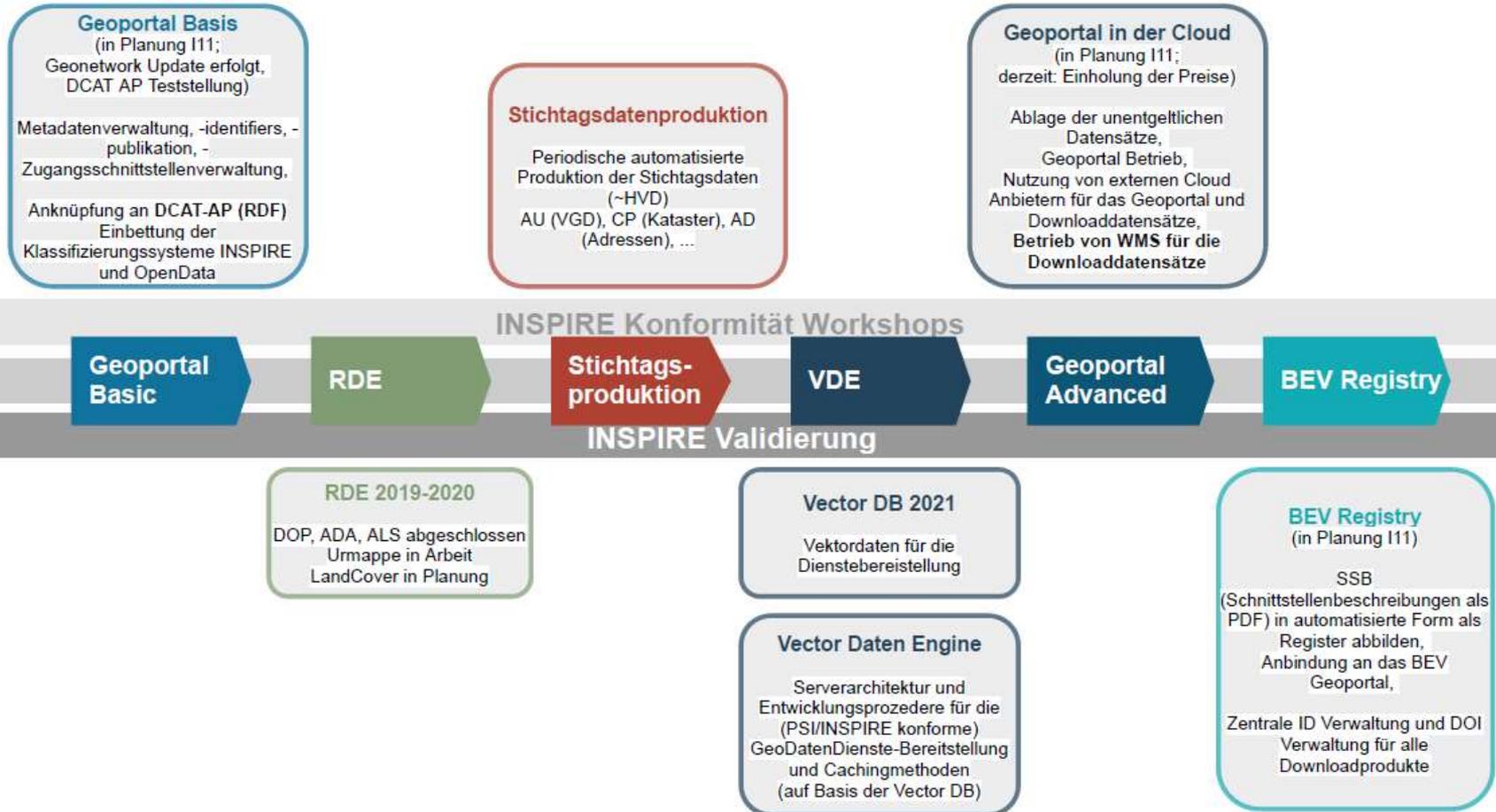
- Accuracy/Precision
e.g. geographical reference frames
- Actuality
e.g. closeness to production cycles
- Completeness, Consistency, Reliability, Relevance
FAIR (Findable, Accessible; Interoperable, Reusable)
- Impact on **functional space** of regional planning
e.g. influence of topographic structures
- **Historicized understanding** of space
e.g. in terms of semantic structuring of space
- therefore creating a **comprehensive spatial long-term memory**



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BEV roadmap for a common geospatial dataspace



BEV Geoportal data.bev.gv.at

Bundesamt
für Eich- und
Vermessungswesen

Datenkatalog BEV Search Map

English



Persistent global data identifiers – citation

DataCite Fabrica

Bundesamt für Eich- und Vermessungswesen / DOIs

10.48677/6854e2a0-166e-4679-9426-98c9d7a0a41d

Update DOI (Form)

Update DOI (File Upload)

Findable

Metadata Export

DataCite XML

DataCite JSON

Schema.org JSON-LD

BibTeX

DOI created

December 17, 2021, 14:34:16 UTC

DOI registered

December 17, 2021, 14:34:18 UTC

DOI last updated

December 17, 2021, 14:34:18 UTC

Schema

DataCite Metadata Schema 4

URL

<https://data.bev.gv.at/geonetwork/srv/metadata/6854e2a0-166e-4679-9426-98c9d7a0a41d>

Metadata

Verwaltungsgrenzen (VGD) - Stichtag 01.10.2021 BEV Dataset

Vermessungsämter,

Dataset Dataset published 2021 via Bundesamt für Eich- und Vermessungswesen

Die Verwaltungsgrenzen Stichtag BEV beinhalten die Grenzen der Verwaltungseinheiten Österreichs

Die Daten sind für folgende Grenzen vorhanden: 1) Katastralgemeindengrenze 2) Gemeindegrenze

Gerichtsbezirksgrenze 5) Vermessungssprengelgrenze 6) Finanzamtsbereichsgrenze 7) Bundesländer



<https://doi.org/10.48677/6854e2a0-166e-4679-9426-98c9d7a0a41d>

Citation

Vermessungsämter. (2021). *Verwaltungsgrenzen (VGD) - Stichtag 01.10.2021 BEV* [Data set]. Bundesamt für Eich- und Vermessungswesen. <https://doi.org/10.48677/6854E2A0-166E-4679-9426-98C9D7A0A41D>

Vermessungswesen. <https://doi.org/10.48677/6854E2A0-166E-4679-9426-98C9D7A0A41D>

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PTNC.BEV4DATA -



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Imprint

FEEDBACK

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Challenges (1)

Data Consistency:

- The faster the data is distributed, the more disruptive inconsistencies in terms of space and time are. Inconsistencies destroy trust and generate enormous additional expenditure.
- Consistency between different Data Sources and at the margins of administrative responsibility

Don't publish any data you don't know about the consistency of

Challenges (2)

Data dissemination does not prohibit incorrect usage:

- Passing on correct data does not prevent faulty further processing and incorrect information! Consistency between different Data Sources and at the margins of administrative responsibility.
- You need additional basic services to guarantee correct usage and interpretation. (e.g. Transformation in space and time). This means additional costs

Challenges (3)

Economical challenges:

- Recruiting of staff:
Necessity of employees with a very broad knowledge in the special topic, in information technology and in operational tasks
- Increasing costs for maintenance:
High availability of memory-intensive mass data in services (INSPIRE Requirement < > PSI / HVD)

Thank You!

