

Willkommen im



Bundesamt für Eich- und Vermessungswesen

with Visions to the Goal | **BEV - Geo Basic Data**

Willkommen im



Bundesamt für Eich- und Vermessungswesen

The Austrian Address Register Georeferenced Addresses for e-Government

FIG international Seminar for e-Land Administration
Innsbruck, 2-4 June 2004

Gunther Rabl

Address – Addressing ?

- **Address**

creating spatial relations -
unambiguous
maintained
interpretable (locatable)
common known

- **Addressing**

to address, to reach somebody

What is an Address (1) ?

- **Address**

is a location with spatial relation –

- > it has always a relation to a parcel ,
- > but not always a relation to a building

What is an Address (2) ?

- **Buildings' Address**

are additional features for an exact identification of a building, situated on an address

but not each building has to have an address
(eg.: agricultural stables)

- *Apartments' Address*

are the additional features for an exact identification inside a building (important for the central residence register)

the Address Model

four layers

- roads
- addresses
- buildings
- apartments (not strictly regulated)

Address Register (1)

... is the Austrian **central address database**, in which

- **each address**
- with an **unambiguous key** (address code) and
- **standard attributes**
- is stored **with a clear standardized model of data maintenance**

Authenticity - each address is correctly updated by the only competent and responsible institution, the municipality

Availability - each address is available, updated and centrally serviced via Web-Services or ASP

Address Register (2)

Spatial reference - each address is available not only updated and centrally serviced, it is geocoded and spatial referenced with

Geo Basic Data of the BEV,
the DKM (Digital Cadastral Map)
the DOP (Digital Orthophoto)
the ÖK 50 (Austrian Topographic Map 1:50000)

is the authentic database for economy and administration for commercial use – clear licence policy (eg. for the use in the internet, local based services, geomarketing,)

Address Register – History (1)

- **Until march 2004**
the addresses were captured centrally by the STATISTIC AUSTRIA (the bureau of micro census)
- **Governmental Requirement:**
no Basic census after 2001
the next census has to be based on central databases
- **Establishing of the Addressregister at the BEV**
extended with georeference

Address Register – History (2)

- **Preliminary work (municipality – STAT – BEV since 1998) :**
comparison of road names (109000 names)
comparison of addresses (3,6 Mill records)
each address was matched to one or more parcels
- **All buildings were referenced to one/more addresses**

advantages of an Address Register (1)

- **for a Citizen – for the Public**

the single address is public

free request for everyone via Web for a single “correct” address with attributes and georeference

- **for the Municipality**

each address has only to be updated once by the municipality via “Adress-GWR-Online”

basic data acquisition with the data of the micro census 2001

basic georeferencing with the Digital Cadastral Map done by the BEV

advantages of an Address Register (2)

- **for the federal provinces and the republic**

the address register is the base of all data with address connection of the federal administration

Austrian wide homogeneous (formal and in contents) address base with georeference for :

- **disaster- and risk management**
(centralising of police and rescue services)
- **administration**
- **reduction of costs through –**
avoidance of redundant actualisation
storage of the address key instead of the whole
address together with the company data

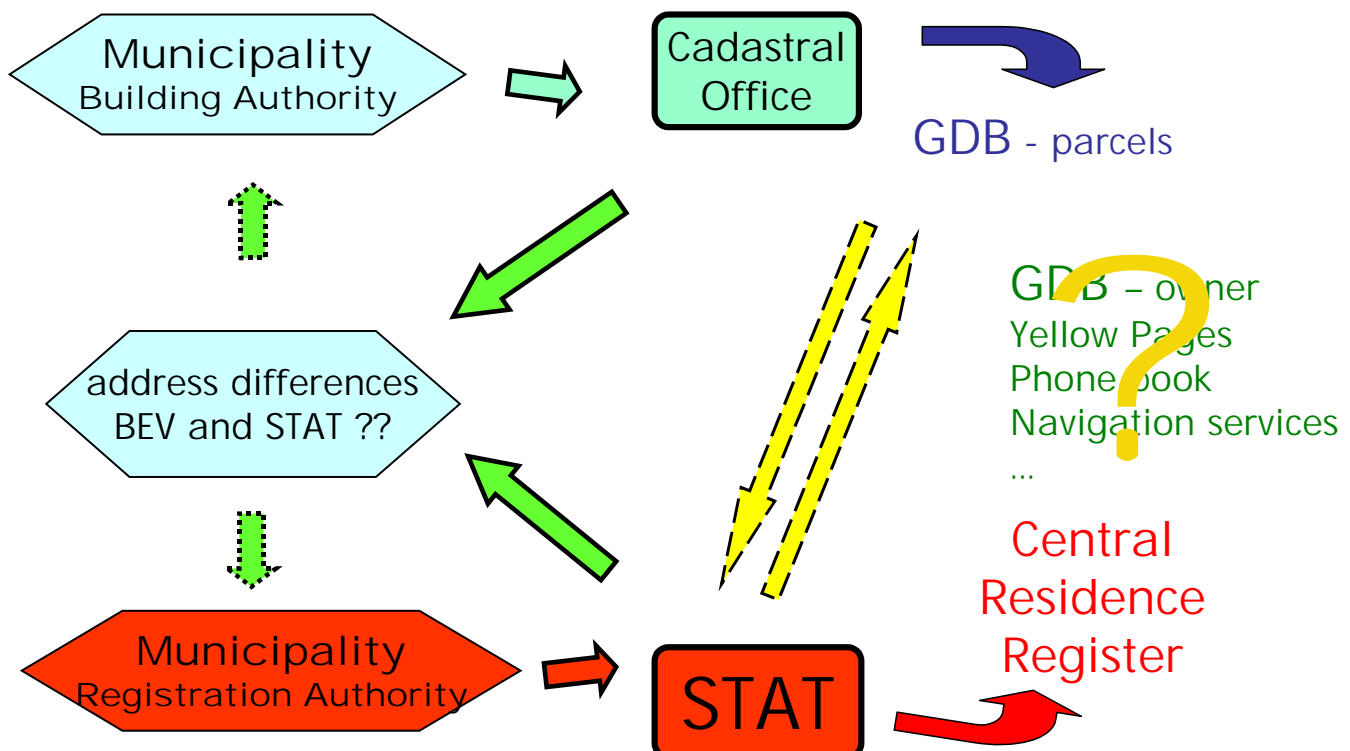
....

All these advantages are the base for addressing in e-Government

a second kind of addressing is “electronic addressing”

described and regulated in the e-Government Act

former Database update

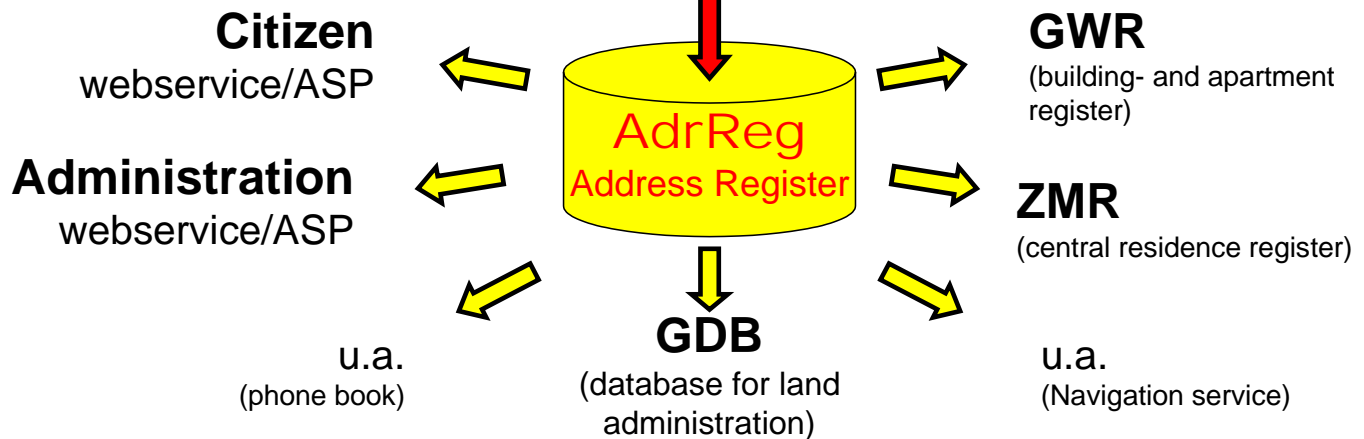


new Database update

Municipality

one update ↓ commitment

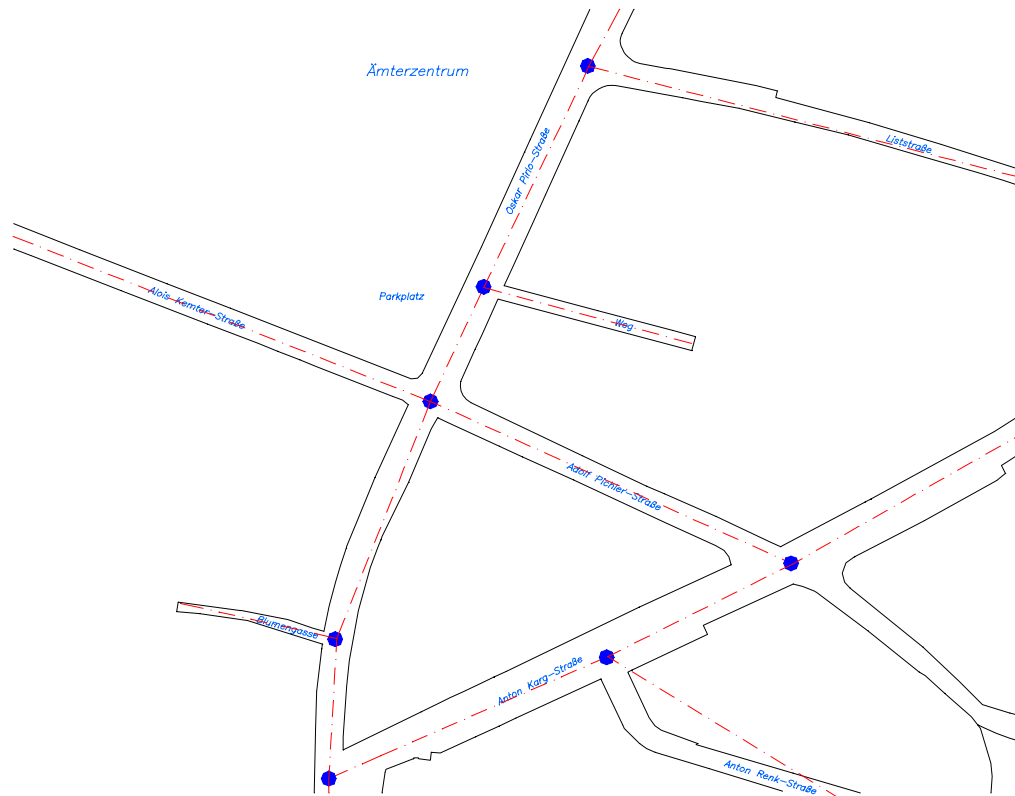
Address- GWR Online
 (Web-Client or XML)
 Geocoding and Checking
 with DKM and DOP



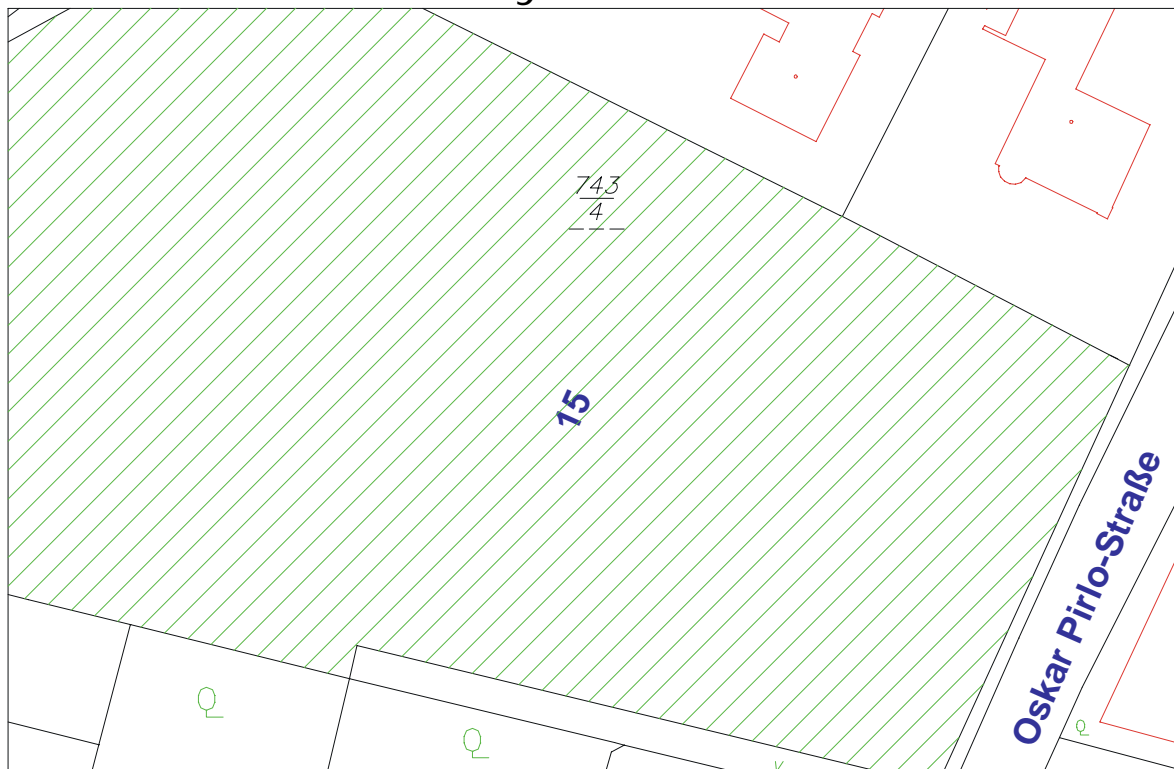
Austrian wide „key“

- **Addresscode**
 each official address, appointed by the community,
 gets an Austrian wide unambiguous Code
- **Subcode**
 each building, situated on an „Addresscode“ , gets a
 Subcode
- **Addressnumber**
Addresscode plus Subcode -> Addressnumber

Road Layer - Roadcode

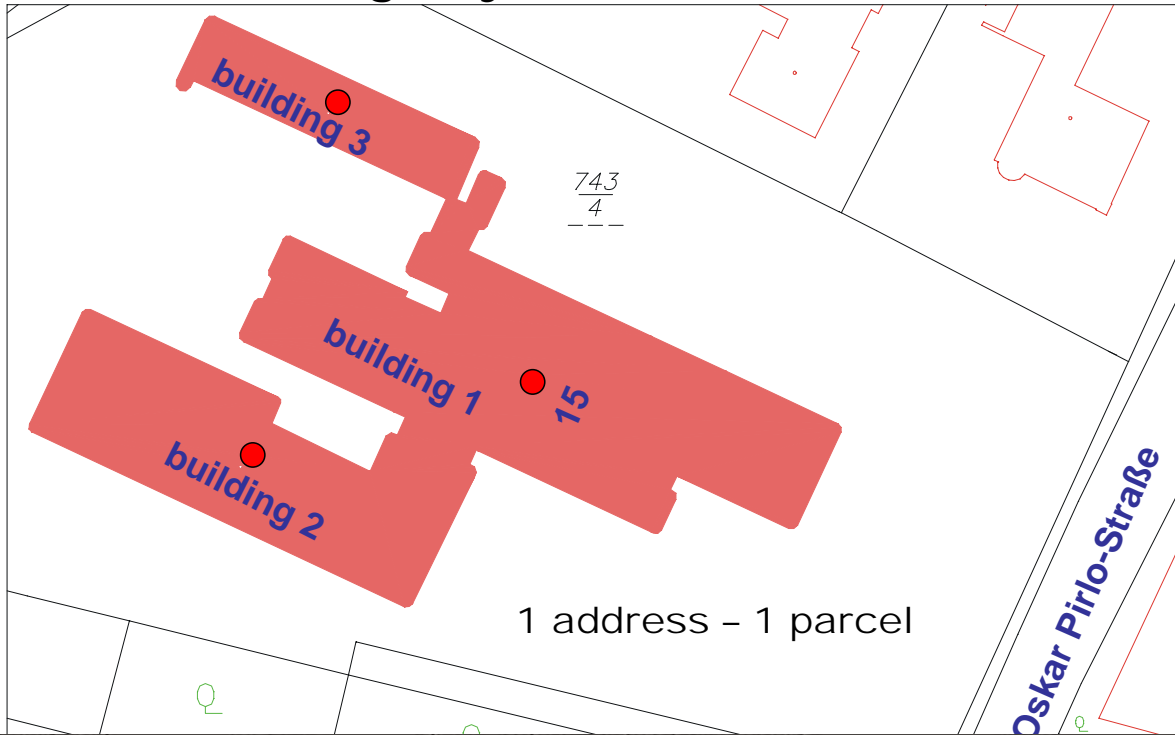


Address Layer - Addresscode



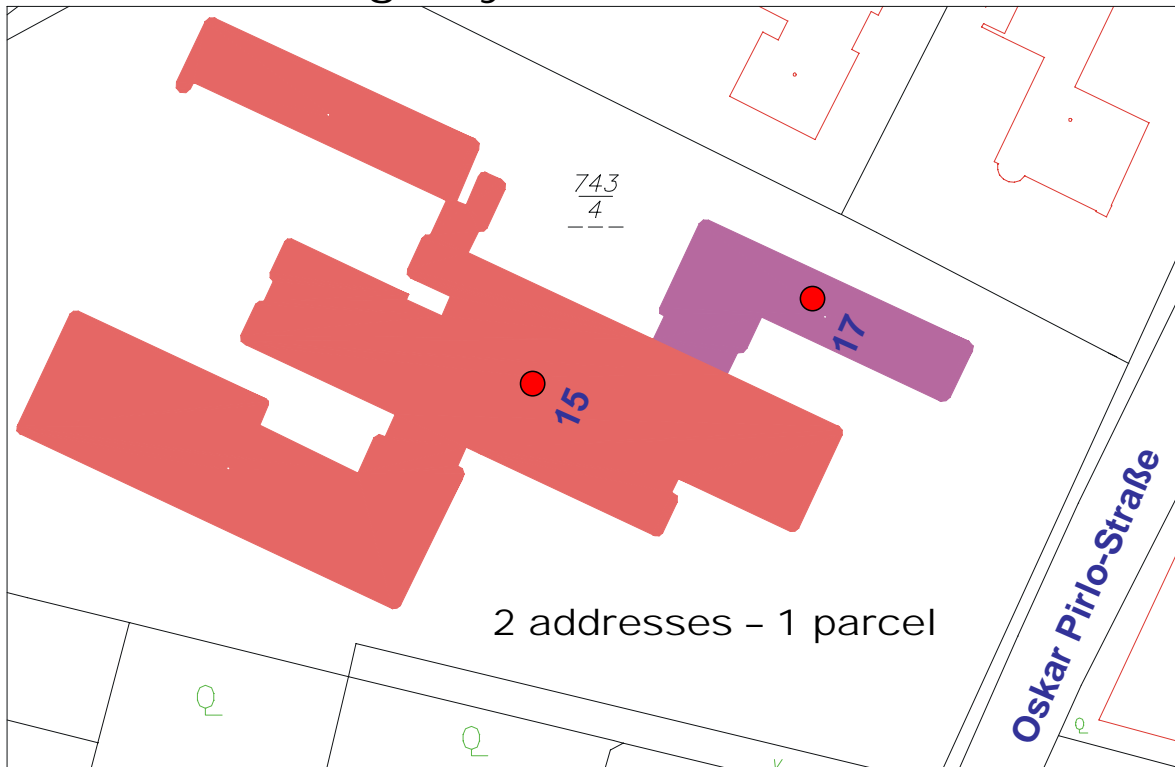
ARCD	GEMNR	GEMNAM	OKZ	ORTNAM	PLZ	SKZ	STRNAM	HNR	y-Adresse	x-Adresse	Abbi	VULGO	HOF
5088657	70513	Kufstein	18672	Kufstein	6330	041227	Oskar Pirlo-Straße	15	-87269	272839	31		

Building Layer - Addressnumber



ADRCD	SUBI	H-Stiege	y-geb	x-geb	Abil	zus AdrNum	Funkt
5088657	003	Haus 1	-87295	272871	31		Amtsgebäude
5088657	001	Haus 2	-87306	272828	31	5088371002	Amtsgebäude
5088657	002	Haus 3	-87269	272839	31	5088371001	

Building Layer - Addressnumber



ADRCD	SUBI	H-Stiege	y-geb	x-geb	Abil	zus AdrNum	Funkt
5088659	001		-87234	272846	31		Post

Conclusion

- **Address Register**
contains all authentic und actual addresses of Austria on the Address- und Building Layer
with georeference
with attributes
in unambiguous kind und access
- all buildings recorded are with addresses and georeference
- the data model contains even difficult “specialities”
- is expandable

We think, this Address Register is unique in Europe

Willkommen im



Bundesamt für Eich- und Vermessungswesen

Thank you for your attention

Willkommen im



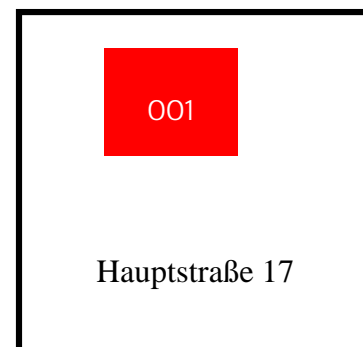
Bundesamt für Eich- und Vermessungswesen

Dipl.-Ing. **Gunther Rabl**
projekt manager „Geocoded Addresses“
and head of the cadastral office Kufstein / Kitzbühel
gunther.rabl@bev.gv.at
+43-676-82104403

BEV - Bundesamt für Eich- und Vermessungswesen

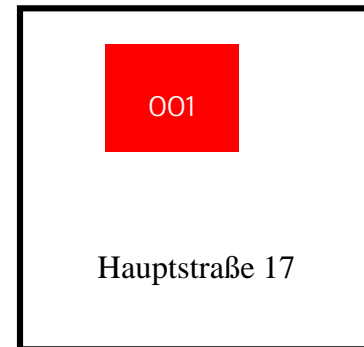


ADRESSCODE - ADRESSNUMMER



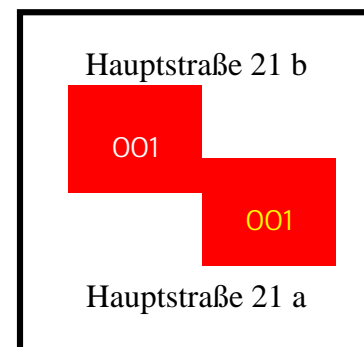
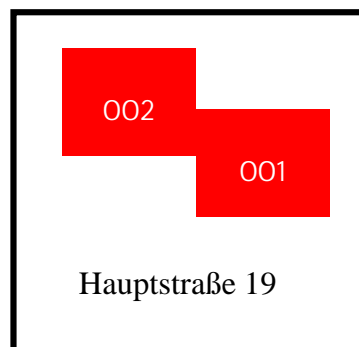
Adresscode	1235673	2347652
Grundstück	443/1	343/2
Subcode	-	001
Adressnummer	-	2347652001

ADRESSCODE - ADRESSNUMMER



Adresscode	1235673	2347652
Grundstück	443/1	343/2
Subcode	-	001
Adressnummer	-	2347652001

ADRESSCODE - ADRESSNUMMER



Adresse	Hauptstr. 19	Hauptstr. 21a	Hauptstr. 21b
Grundstück	343/4	343/5	343/5
Adresscode	3456345	3456347	5456271
Subcode	001 und 002	001	001
Adressnummer	3456345001	3456347001	5456271001
	3456345002		