

Cadaster

Real estate cadastre in the Slovak Republic is in terms of its definition a geodetic determination and description of properties. Naturally, it also contains information on rights to real estates





The main part of the cadaster

Land cadaster

Land registry

> Geodetic Data File

one office, one database





> Descriptive Data File

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Measuring technology

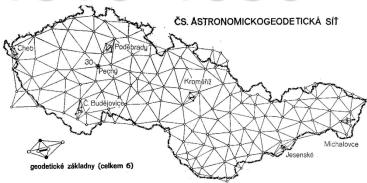


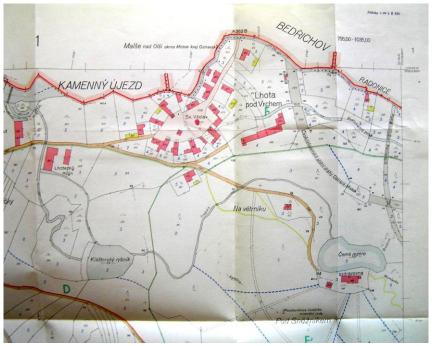


Land register book 1918-1938

- Ownership in Land register book
- Mapping by Instruction A metric scale
- Introduction of Trigonometric Cadastral Network S-JTSK

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Period 1945-1964

Ownership repressed - collectivization

Obligation to register property in Land register book was cancelled

Photogrammetric mapping 1:5000

Property registry 1964–1993

- Establishment of ownership documents in built-up areas
- Map updating by geometric plans
- New mapping in scale 1:1000, 1:2000

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REAL ESTATE CADASTRE 1993, 1995

- New legislation of cadaster
- Act no. 265/1992, 266/1992
- Cadaster The main tool of protection property rights
- Decision Land cadaster + Land registry
- Act no. 162/1995 (Cadastral Act)

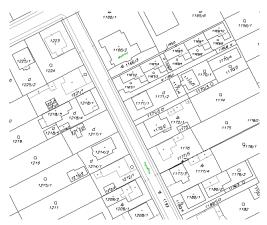
Innovations 1990-2000

- Start of computer technology
- First programs on MS DOS platform and graphics CAD programs
- Paper ownership documents



Digital ownership documents

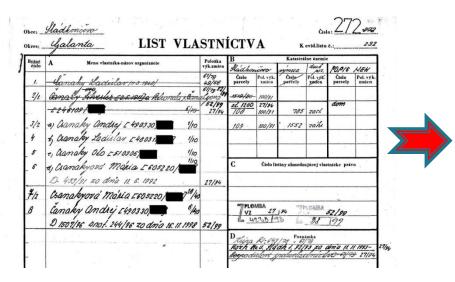
> First Vector Cadastral Maps



> Land consolidation project and Renewed land inventory register.

Innovations 2000-2010

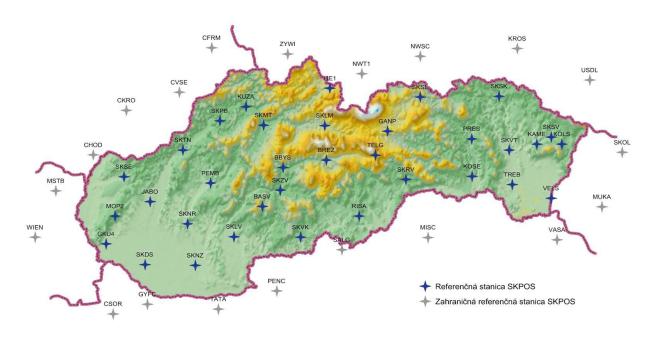
- Big development of information technologies mostly Internet
- Transform all applications from MS DOS to Windows



VÝPIS Z KATASTRA NEHNUTEĽNOSTÍ Okres VÝPIS Z LISTU VLASTNÍCTVA č.44 ČASŤ A: MAJETKOVÁ PODSTATA PARCELY registra "C" evidované na katastrálnei mape 380 Zastavaná plocha a nádvorie Kód spôsobu využívania pozemku 4 - Pozemok prevažne v zastavanom území obce alebo v záhradkárskej osade na ktorom sa pestuje zelenina, ovocie, okrasná nízka a vysoká zeleň a iné polnohospodárske plodiny 15 - Pozemok, na ktorom je postavená bytová budova označená súpisným číslom 1 - Pozemok je umiestnený v zastavanom území obce Stavby Na parcele Druh Ilmiast stavby stavby 234 1164/109 10 Rodinný dor Legenda Kód druhu stavby 10 - Rodinný dom 1 - Stavby postavané na zemskom povrchu ČASŤ B: VLASTNÍCI A INÉ OPRÁVNENÉ OSOBY Priezvisko, meno (názov), rodné priezvisko, dátum narodenia, rodné číslo (IČO) a miesto trvalého pobytu (sídlo) vlastníka, spoluvlastnícky podiel 1 Švec Miroslav a Olga Švecová r. Blaškovičová, Slnečná, 15, Limbach, 90091, SK Dátum narodenia: 30.10.1942 Dátum narodenia: 25.07.1943 Spoluvlastnícky podiel: 1/1 Žiadosť o zápis stavby, kolaudač.rozh., GI

Innovations 2000-2010

 Development of Geodetic controls via GNSS SK POS- Slovak real-time positioning service



Pilot of Cadastral portal

Cadastral portal

https://www.katasterportal.sk/kapor/



- Launched in 2004 as paid service with weekly update
- Change of legislation in 2008 free portal, Increase of users
- Currently is updated daily
- The data is provided in one cadastral unit
- Authorized users can search in the whole SR

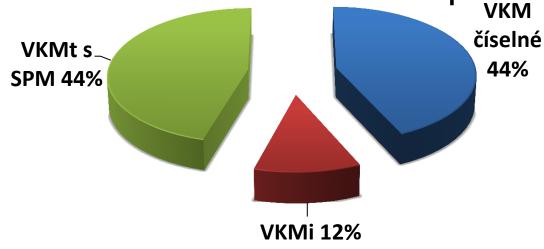
Innovations 2010-....

All measurement only via GNSS



Digital ownership documents

Qualitative division Vector Cadastral Maps

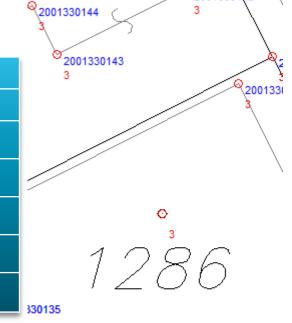


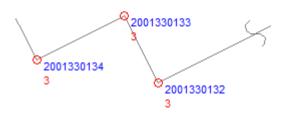
Accuracy of plot boundaries

Boundaries of plots are defined by 53.7

million detailed break points

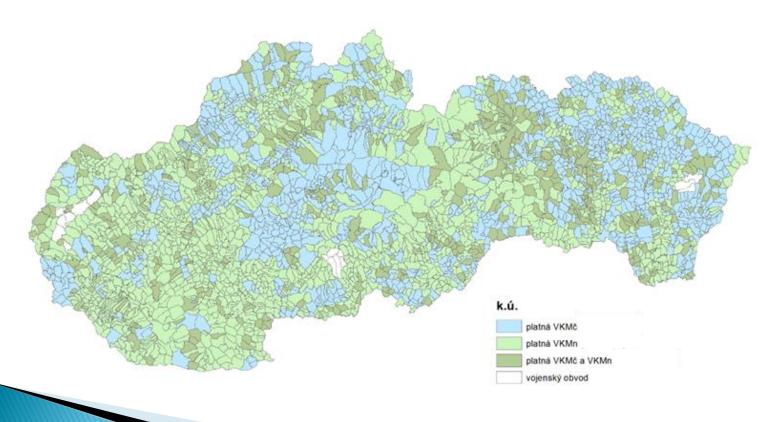
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T4	3 049 420	5,30					
T5	20 163 935	40,48					





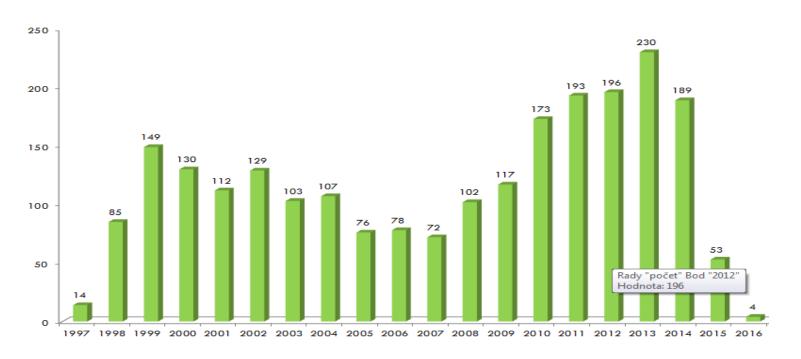
Vector Cadastral Maps

- Since January 1st 2015 all cadastral maps have been administered as vector cadastral maps
- Number of cadastral units: 3559 (17 military areas)
- Average area cadastral units : cca 13,8 km²
- Average number of parcels: cca 2000



Renewed land inventory register

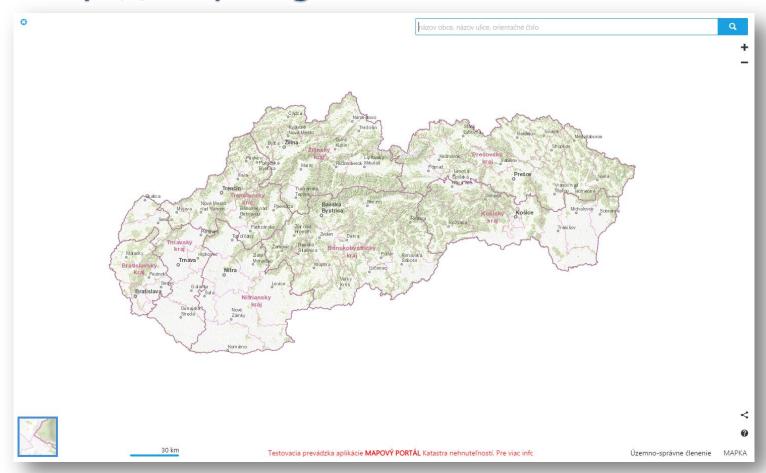
2016 Project completed



Every parcel is recorded on ownership documents

New portals -MAPKA

http://mapka.gku.sk



Usage: approximately 3000 users a day

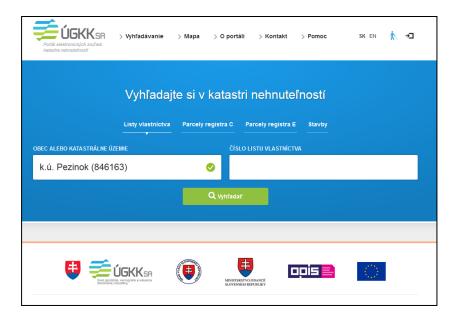
New portals -MAPKA

http://mapka.gku.sk



Electronic Cadastral Services-ESKN 15 Portal

https://kataster.skgeodesy.sk/Portal/



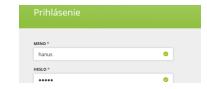


provides the possibility of using non-visual WMS and WMTS services

Electronic Cadastral Services-ESKN 15 Portal

https://kataster.skgeodesy.sk/Portal/

Authorized users - surveyors

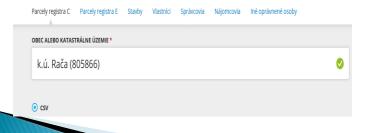


Geodetic Data File





Descriptive Data File



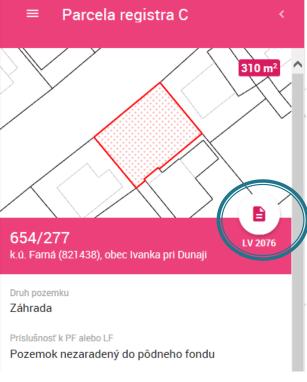
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Upcoming news

- Application on mobile phones
- Identification of parcel via GNSS







Another motivation

- Improvements of accuracy boundary break points
- Alignment of information in cadaster and in terrain.
- Improvements for most frequent users
- Integration with other public administration systems

