



Amtliche Vermessung
Schweiz

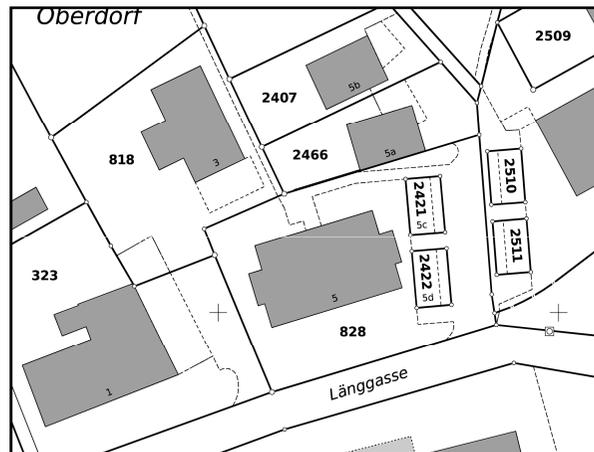
Cadastral Surveying System in Switzerland 1912 - 2012





The Swiss cadastral system

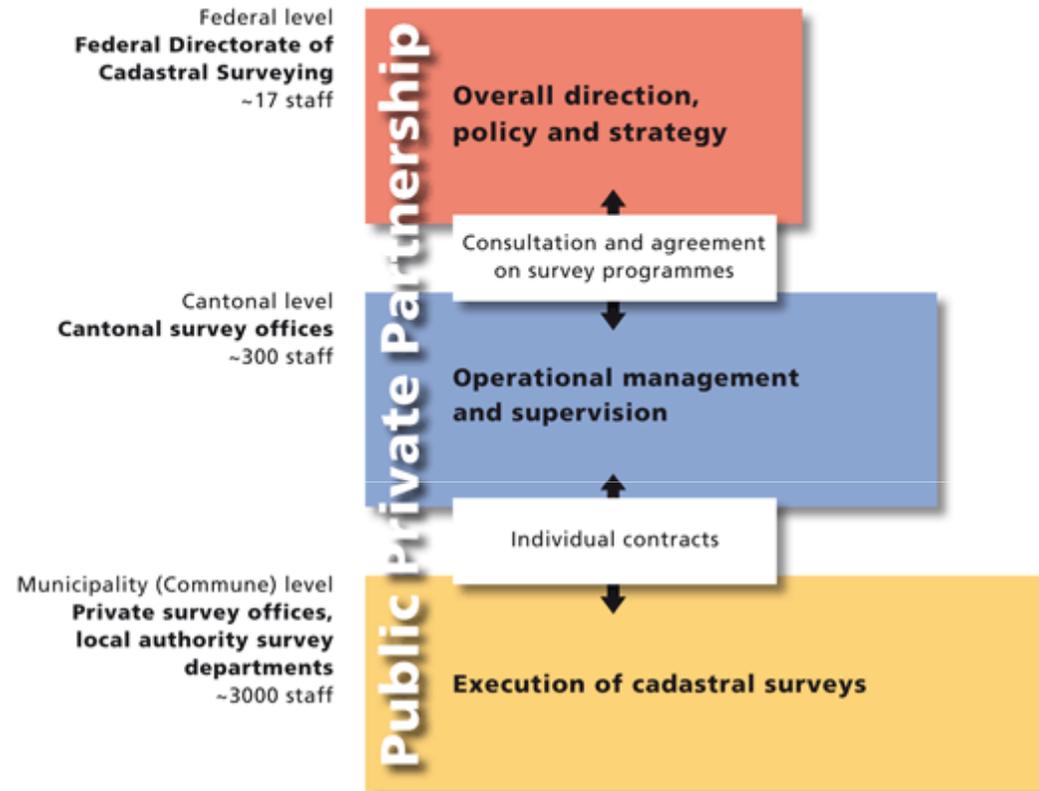
Cadastral surveying together with land registration constitute the Swiss cadastral system.



Cadastral surveying provides a substantial contribution to safeguarding real estate.



Who does what in cadastral surveying?



Cadastral surveying in Switzerland is an effective example for public private partnership. There is a close cooperation between public authorities – the federal government, cantons and municipalities – and the private sector.



How is cadastral surveying data collected?



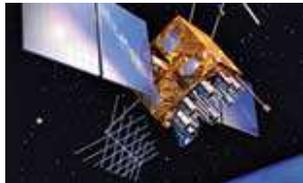
Field surveying

Oldest land surveying method, in the field. Surveying instrument is the electronic theodolite.



Levelling

A very precise and established method for determining height differences. The levelling instrument is set up between two leveling staves.



Global Navigation Satellite Systems (GNSS)

Navigation satellites orbit the earth and continuously emit signals, which can be picked up by special receivers. Distances are determined from these signals and thus the position of the receiver can be calculated.



How is cadastral surveying data captured?



Photogrammetry

Photogrammetry is also a surveying method used in cadastral surveying. The terrain is systematically photographed from an aircraft.



Laser scanning

Using this method, information can be gained about the topography of the terrain.



What do we need cadastral surveying for?

Many areas in the private sector, public administration and our daily lives depend on cadastral surveying data.

For example:

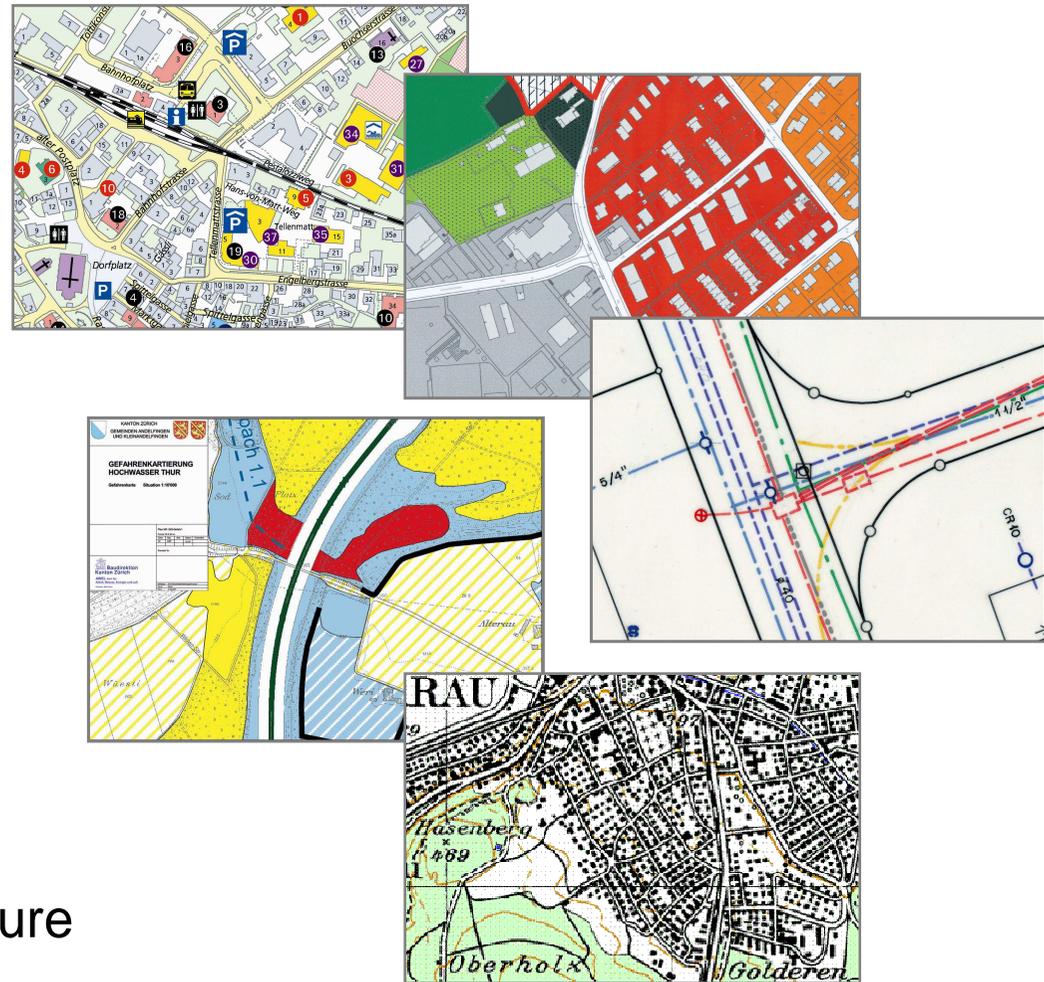
- Land register
- Construction projects
- Traffic engineering
- Land-use planning
- Environmental protection
- Public administration
- PLR-cadastre
- Tourism
- ...



What do we need cadastral surveying for?

As basis for...

- City maps
- Zoning plans
- Utility asset maps
- Geographic information systems
- ...



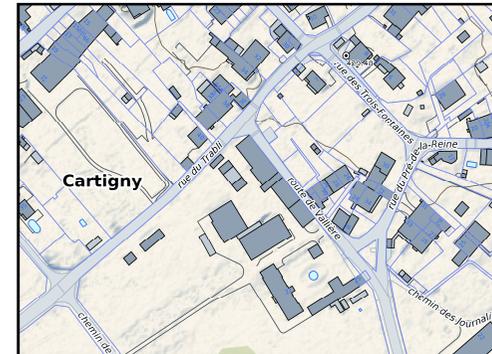
→ National Geodata Infrastructure



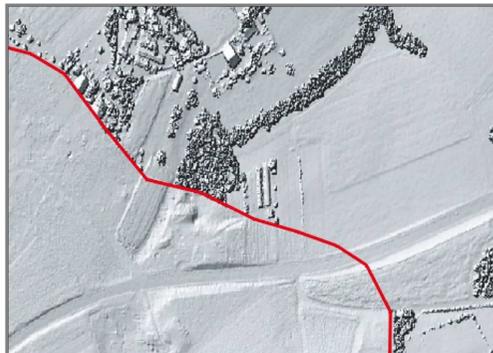
What products does cadastral surveying provide?



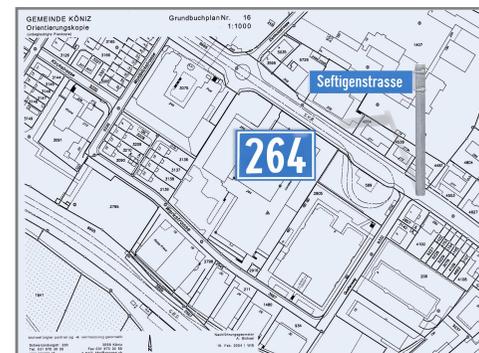
Cadastral maps



Base maps



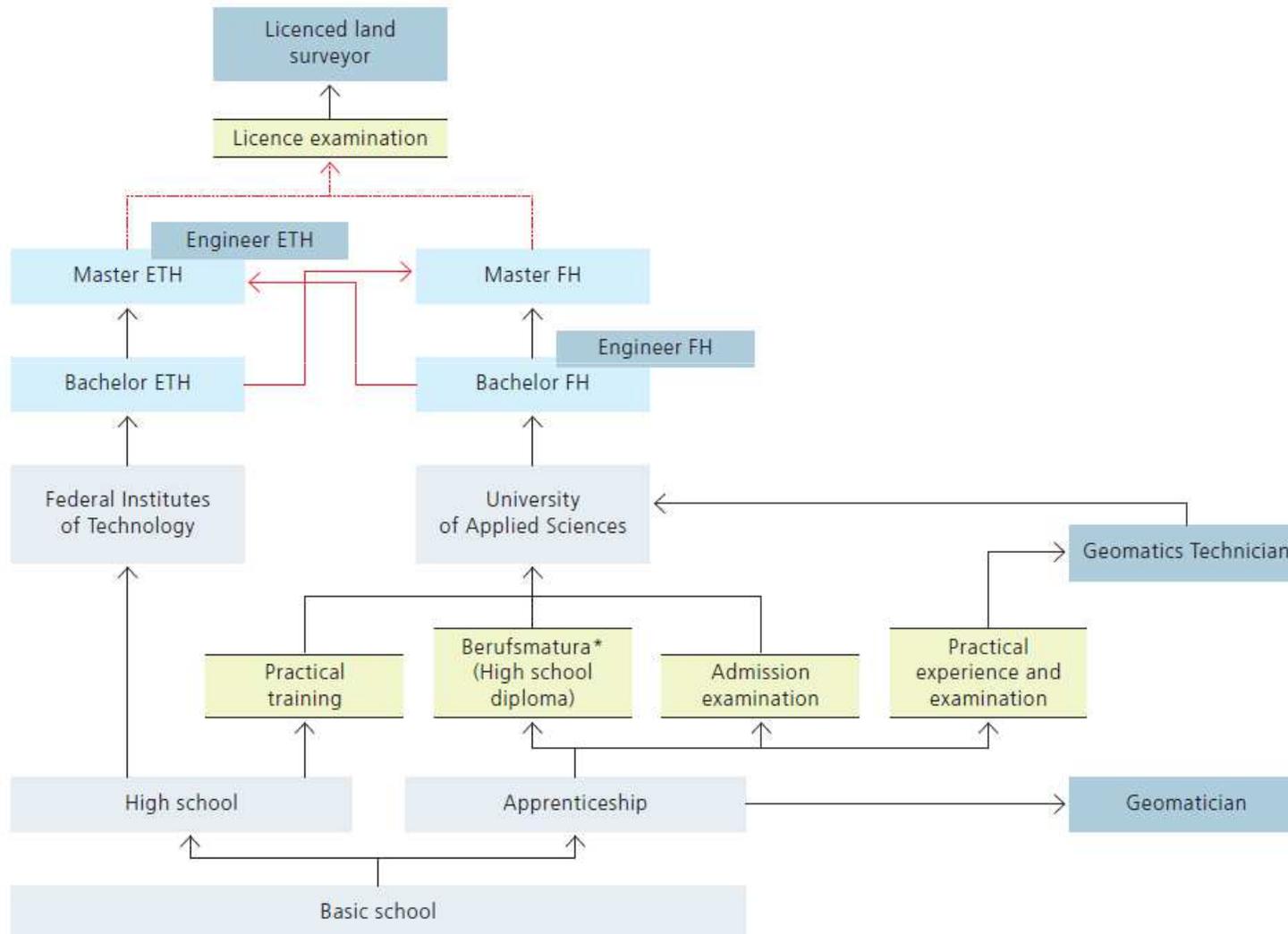
Digital terrain models



Building addresses



Education and further training in cadastral surveying in Switzerland?





Universities

Federal Institute of Technology and Universities of Applied Science...



ETHZ Eidgenössische Technische Hochschule Zürich



EPFL École polytechnique fédérale de Lausanne



FHNW Fachhochschule Nordwestschweiz



HEIG-VD Haute École d'ingénieurs et de gestion
du Canton de Vaud



100-year anniversary in 2012



Cadastral surveying in Switzerland is celebrating its 100-year anniversary in 2012.

This is to mark the enactment of the Swiss Civil Code in 1912, which established a nationally standardized land registration and cadastral surveying system, unifying the former diverse cantonal and regional solutions into one system.



Centennial publication



The 100-year anniversary is an ideal opportunity to take a look back and into the future:

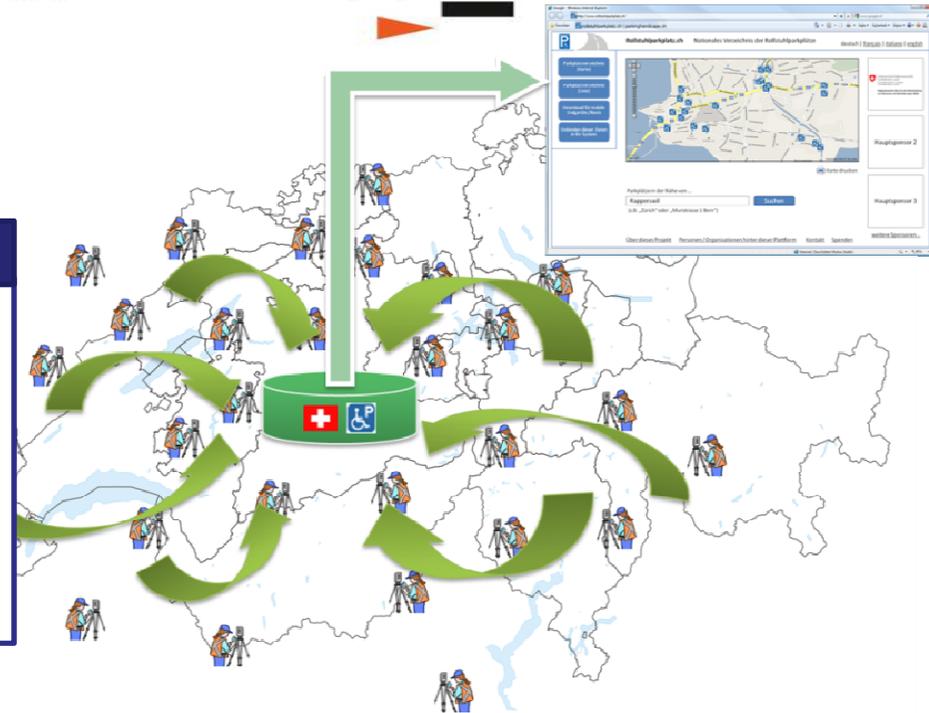
- More than 30 authors contributed to our centennial publication.
- On 144 pages readers get to know cadastral surveying of Yesterday, Today, and Tomorrow.
- The publication is available in German, French, and Italian
- Order: www.cadastre.ch/2012 > Shop



Current situation

In Switzerland, there are about 10'000 public parking spaces for people with disabilities. By contrast, no information is currently available regarding the number and the situation of parking spaces for people with disabilities in Switzerland. A few municipalities keep up-to-dates, but they are often incomplete or inaccessible for the public. The public sources are often not geocoded. All of this limits the utility of the data.

For the concerned people, this situation creates an important disadvantage, because their daily mobility strongly depends on such parking possibilities and on the available information about them.



The project

The aim of the project is the provision of generalized and reliable data in relation to parking spaces for people with disabilities.

The data will be accessible with the help of an interactive map on an Internet platform, in three national languages. It is possible that the data will subsequently be used for other products.

In view of the 100-year anniversary of cadastral surveying in Switzerland, the association of surveying engineers of Switzerland (IGS) intends to create a professional infrastructure on a national level in relation to available parking spaces for disabled people. The project will be monitored by the IGS committee.

Stages of the process

After the funding agreement by the BFEH, the project work has officially been initiated in September of 2010. During the first phase of the project, the data collection and information system concept are elaborated.

After the installation of the IT infrastructure, the data collection on the national level have begun at the beginning of 2011 and will be carried out by the surveying offices. The data processing will be accompanied by a quality control and the monitoring of the project progress. At the same time, the public platform will be created for the

This first stage will be finished in 2012, at the occasion of the 100-year anniversary of the cadastral surveying.



Celebrations

Celebrations will start on **Wednesday, May 9, 2012** at Federation Square in Berne.



The official 'Day of Cadastral Surveying' will be held on **Saturday, May 12, 2012** with events in all 26 cantons.



An overview of all activities as well as any other information are available at www.cadastre.ch/2012.