

FIG WORKING WEEK 2019

22-26 April, Hanoi, Vietnam

Presented by the FIG Working Week 2019,
April 22-26, 2019 in Hanoi, Vietnam

"Geospatial Information for a Smarter Life
and Environmental Resilience"



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10 Years of "Law on Geoinformation" in Switzerland – Current Situation and Outlook

Christian Kaul, Head of section geoinformation, Canton of Zurich

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Agenda

- Findings of the last 10 years
- Current developments
- Challenges ahead

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Findings - Awareness of geoinformation



The new law has given geoinformation an official status and made it visible and concrete.

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Findings - Clear focus on the broad use of geodata

"The purpose of this law is to ensure that **geodata ... is available for broad use**, sustainable, up-to-date, rapid, simple, in the required quality and at reasonable cost."



The new law has triggered a fundamental transformation of the entire geoinformation in the direction of user orientation.

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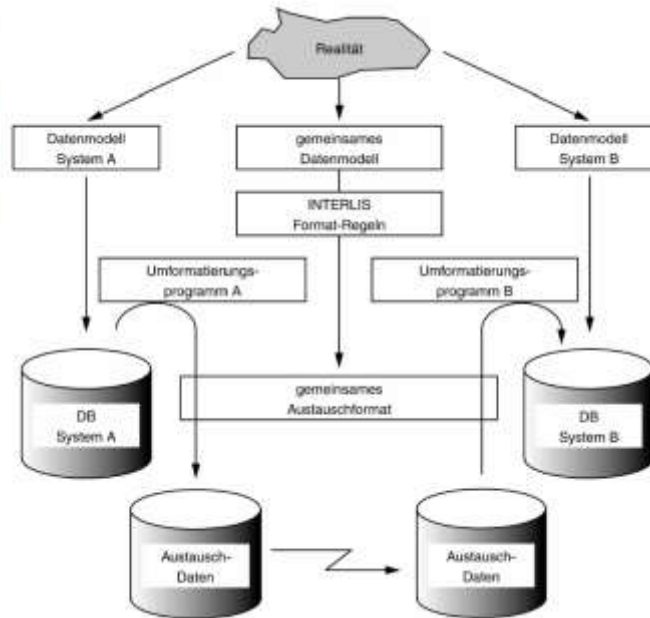
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Findings – Standards for ALL spatial information



- conceptual data modeling
- define presentation models
- model driven data exchange
- formal data quality control
- standardised services
- metadata
-

The implementation of this issue of the new law brought more internal resistance on the part of those involved than was generally expected.

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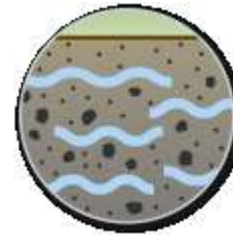
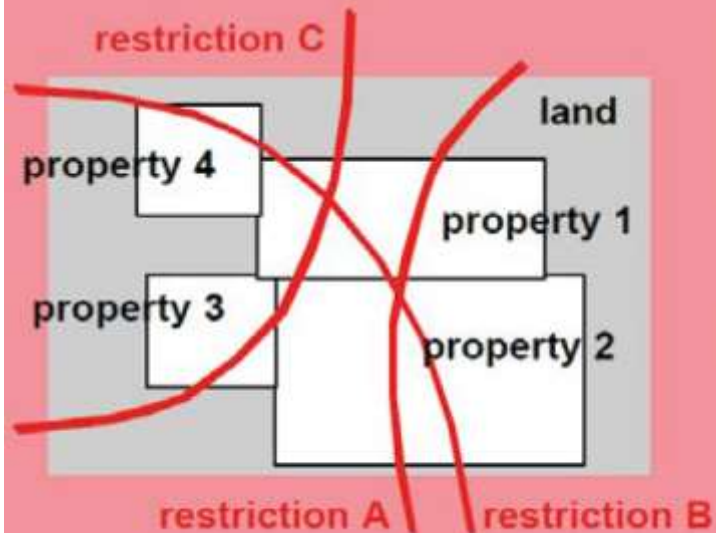
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Findings – New cadastre of public law restriction (PLR-Cadastre)

Cadastre 2014 will show the complete legal situation of land, including public rights and restrictions!



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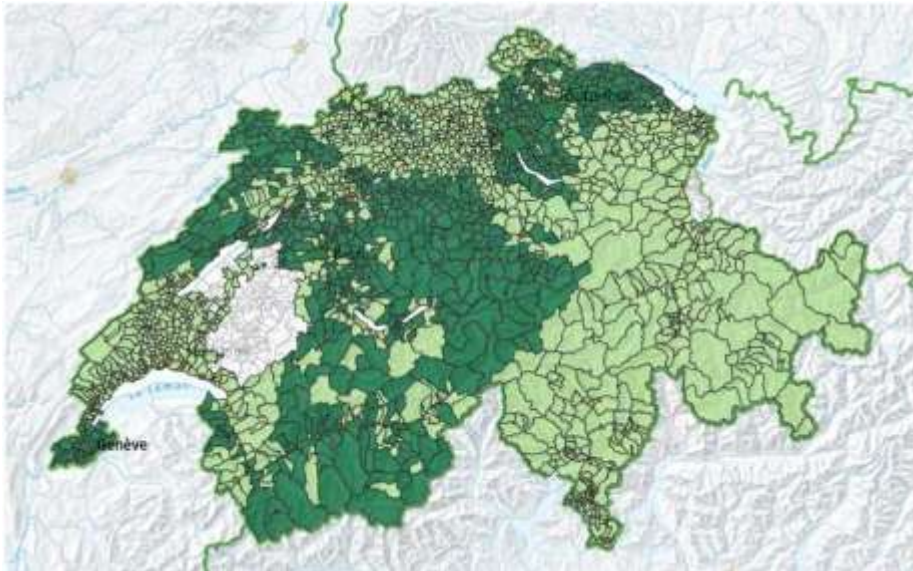
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Findings – New cadastre of public law restriction (PLR-Cadastre)



Availability on January 2019

The implementation of the PLR-cadastre was a courageous step in the new law. It is an amazing achievement to set up a new cadastral system in 10 years. The legal differentiation from the land register is not quite simple and will have to be further sharpened in the future.

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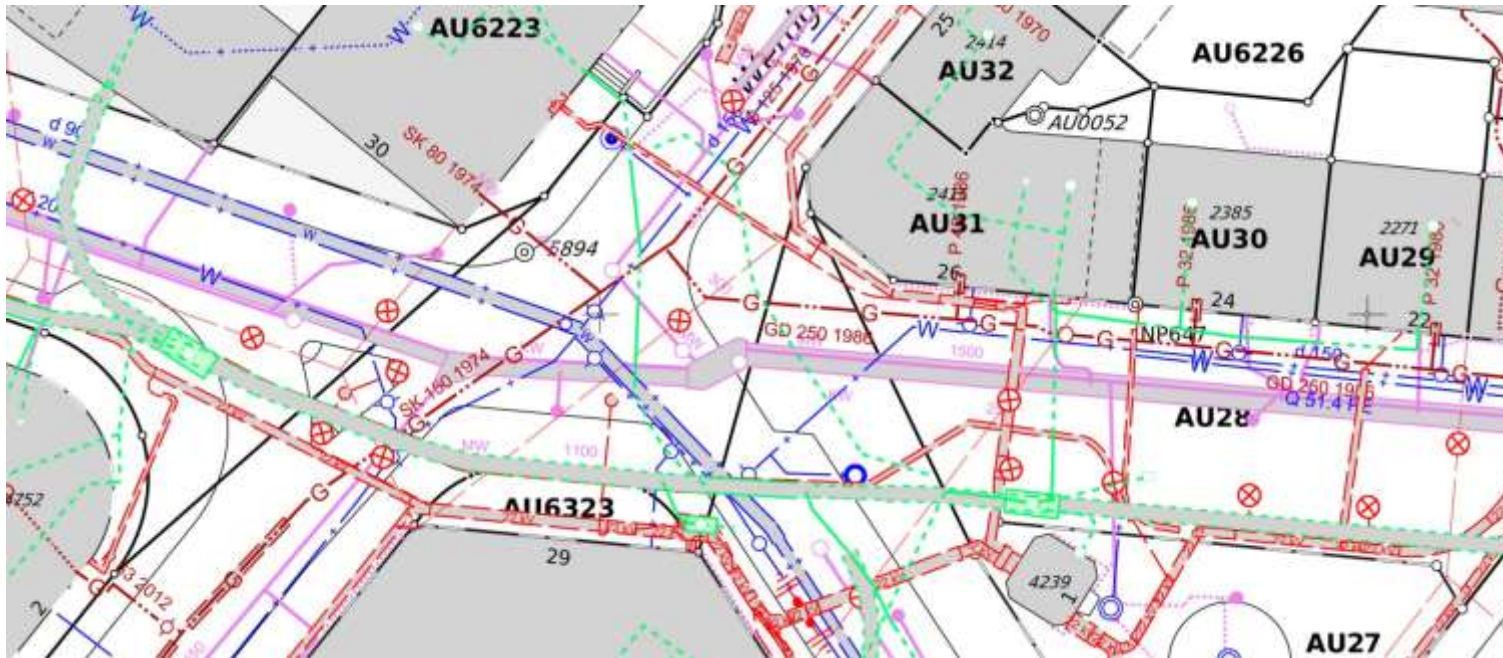
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Current developments - Cadastre of underground utilities



Cadastre of underground utilities as an information system for the space occupied by pipes.

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Current developments – Next dimension 3D

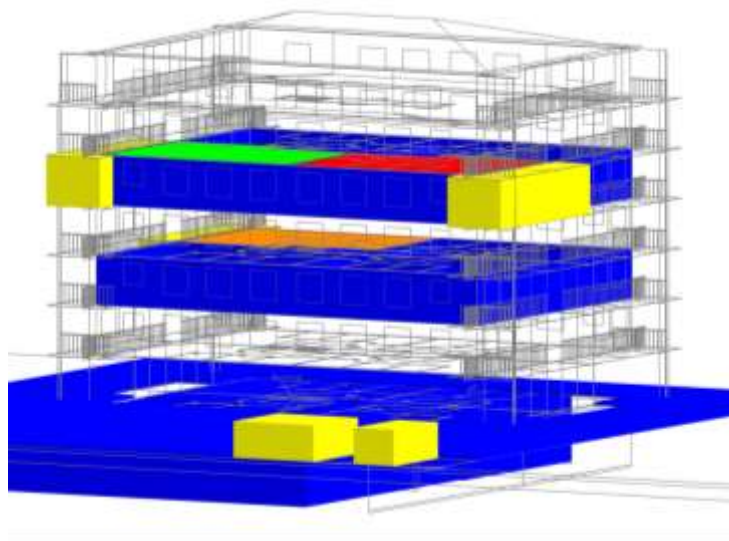
3D BIM



3D condominium ownership



2D division plan



The practical applications of the third dimension have increased continuously in recent years. Switzerland is testing methods of 3D documentation of condominium ownership.

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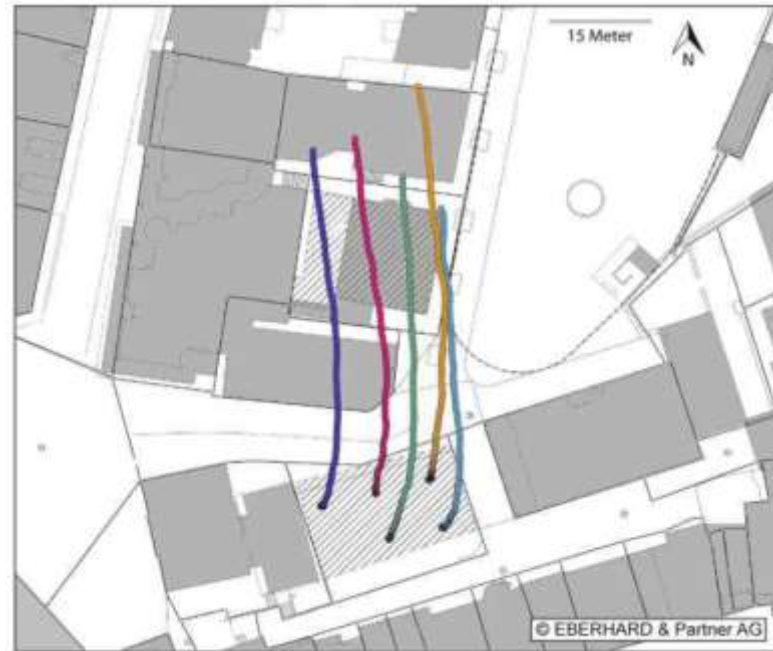
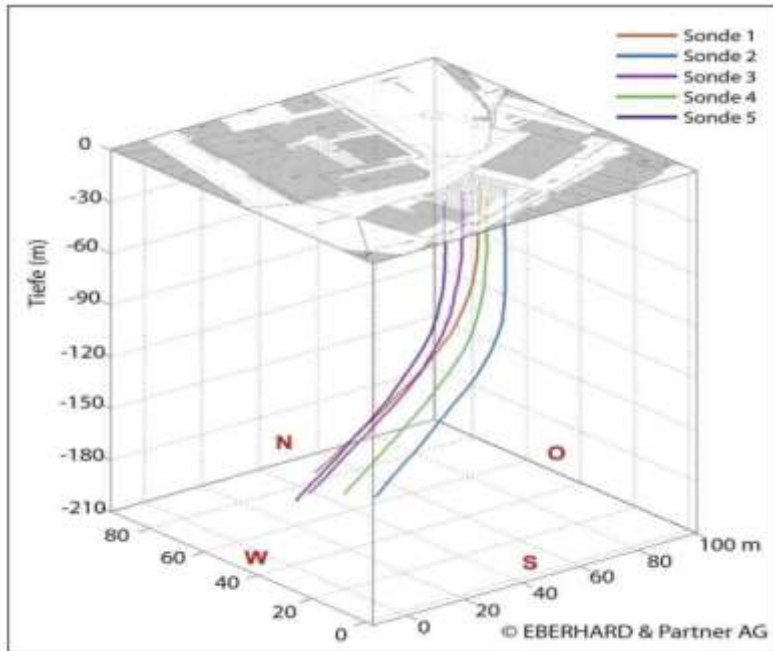
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Challenges ahead - Underground



With the increasing densification of urban areas, the conflicts of use in the underground become more frequent. For example geothermal probes for heating systems.

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Challenges ahead – New Technologies



After 10 years the current law :

- is still surprisingly modern
- offers a certain framework for new technologies

Geoinformation must further develop the legal framework in order to be able to make optimum use of these technologies and at the same time keep their misuse to a minimum.

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Challenges ahead – Organisation and responsibility

Based on law

	federal	cantonal	communal
Federation	I		
Canton		IV	
Municipality			VI

New questions arises: Who is responsible for a data set at federal level if it consists of a collection of cantonal data? They must be clarified jointly and then regulated by law.

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Concloucion and outlook

- The law was designed on a greenfield site at the time, the regulations have proved very successful.
- The law triggered many innovations and thus made geoinformation known, comprehensible and above all usable.
- With the new law Switzerland has taken a major step in the direction of a Spatially Enabled Society.



FIG REPORT

Spatially Enabled Society

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Now it is time to recognise the new signs of the times and to embark on the necessary further developments.



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