



Rudolf KÜNTZEL and Jürg KAUFMANN, Switzerland

geosuisse

- **Background and legal basis**
- **Organization and digital reform**
- **Conceptual and technical elements**
- **Extension of purpose (land information)**
- **Profession, PPP**

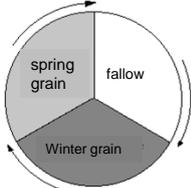
geosuisse

Early experience in Land Reform

Charlemagne 747-814



statues in the famous monastery Mustair Switzerland

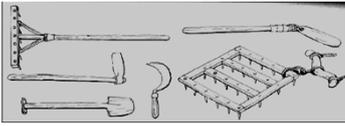



**three-field rotation
three years**

Ottonian 912-1009




**agricultural and
land reform**



Rudolf KÜNTZEL and Jürg KAUFMANN, Switzerland
Rome May, 2012
3

geosuisse

A long history of property rights



French revolution 1789



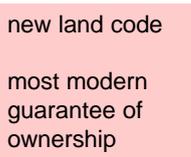
Armed raid on Switzerland



Immigration of Huguenot
Watch production
Base for precision mechanics



Napoleon ordered cadstral map



**new land code
most modern
guarantee of
ownership**

Rudolf KÜNTZEL and Jürg KAUFMANN, Switzerland
Rome May, 2012
4

geosuisse

A long history of property rights



Watch production
Base for precision mechanics
Tradition of the survey instrument making

Understanding and respect from the idea of cooperative and confederation for centuries

Official name of the State Swiss Confederation







Inspiration of technical and political progress in France Germany Italy and Austria

new land code

most modern guarantee of ownership

Rudolf KÜNTZEL and Jürg KAUFMANN, Switzerland
Rome May, 2012
5

geosuisse

- **Background and legal basis**
- **Organization and digital reform**
- **Conceptual and technical elements**
- **Extension of purpose (land information)**
- **Profession, PPP**

geosuisse

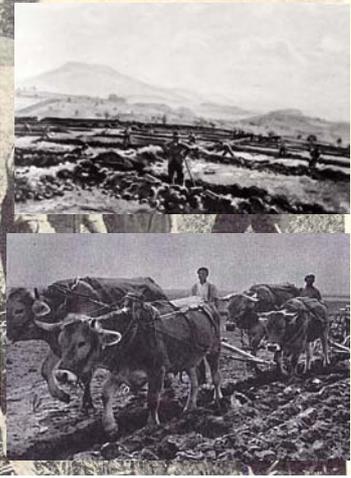
experience in the time of the 2nd world war

Switzerland was surrounded by warring nations.
The imports of essential goods were reduced

it has been tried successfully in food production to expand self-sufficient as possible

The “growing battle” related of land management projects

- draiange
- land consolidation
- and so on....



Rudolf KÜNTZEL and Jürg KAUFMANN, Switzerland
Rome May, 2012
7

geosuisse

Land Administration and Management Paradigm

The principle of legal independence

Legal Topics:	Legal Object Boundaries:	Rightful Claimants:
.....	
Resource exploitation		Chartered company
Collective land rights		Corporation
Water protection		Society
Traditional rights		Tribe, Clan
Environmental protection		Society
Land use planning		Society
Land property		Private Land Owners
Topography		Society
Natural resources		Society
Natural land objects		Society

Rudolf KÜNTZEL and Jürg KAUFMANN, Switzerland
Rome May, 2012
8

geosuisse

Land Administration and Management Paradigm

Tasks	Land related activities	Tools / Methods
Strategy <ul style="list-style-type: none"> visions and objectives 	Land policy	<ul style="list-style-type: none"> political activities
Management <ul style="list-style-type: none"> measures and projects for the implementation of the policy 	Land management 	<ul style="list-style-type: none"> land-use planning land consolidation land reallocation melioration landscape development land recycling
Administration / Documentation <ul style="list-style-type: none"> handling of spatial information, data analysis, data visualization cadastral operations, data modelling, data acquisition, data maintenance, data distribution 	Land administration and cadastre 	<ul style="list-style-type: none"> monitoring navigation geoinformation land registration cartography surveying geodesy

Rudolf KÜNTZEL and Jürg KAUFMANN, Switzerland

Rome May, 2012

9

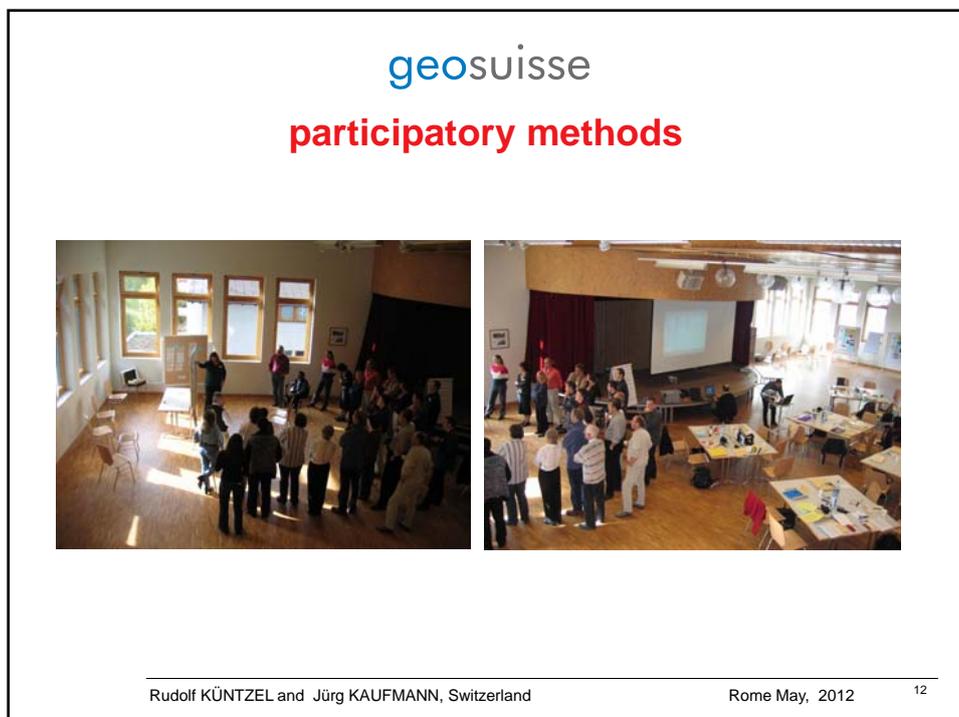
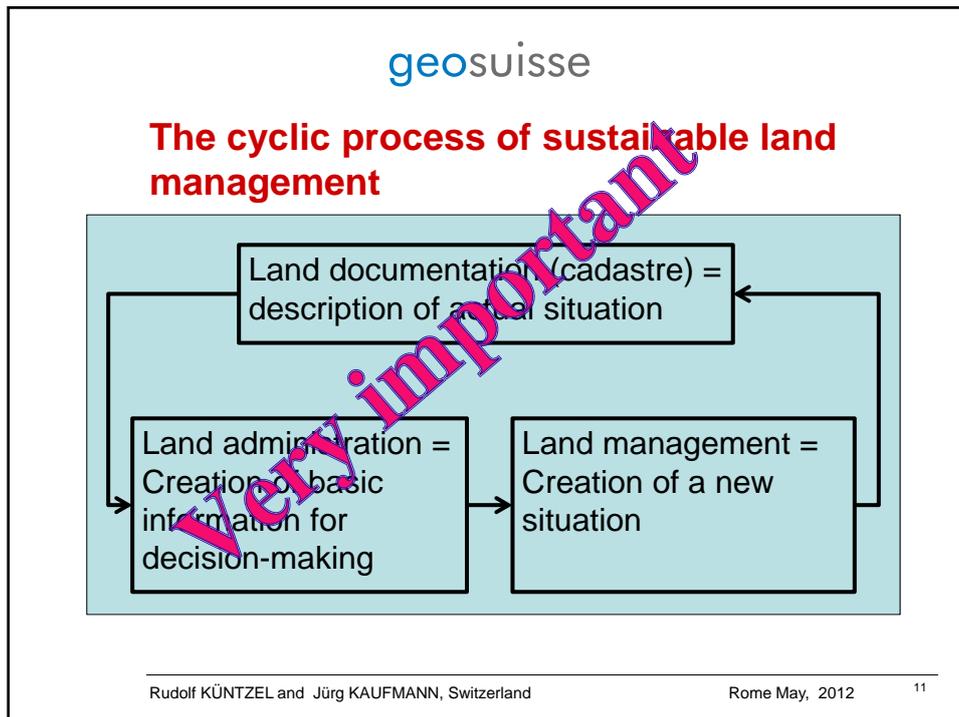
geosuisse

- **Background and legal basis**
- **Organization and digital reform**
- **Conceptual and technical elements**
- **Extension of purpose (land information)**
- **Profession, PPP**

Rudolf KÜNTZEL and Jürg KAUFMANN, Switzerland

Rome May, 2012

10



geosuisse

- **Background and legal basis**
- **Organization and digital reform**
- **Conceptual and technical elements**
- **Extension of purpose (land information)**
- **Profession, PPP**

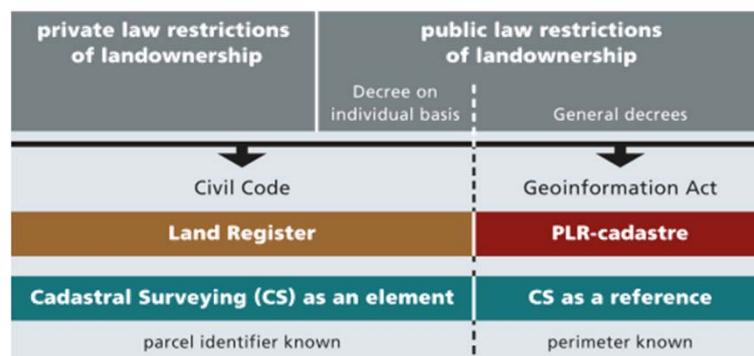
Rudolf KÜNTZEL and Jürg KAUFMANN, Switzerland

Rome May, 2012

13

geosuisse

The cadastre of Public-law Restrictions of Landownership (PLR)



Rudolf KÜNTZEL and Jürg KAUFMANN, Switzerland

Rome May, 2012

14

geosuisse

The cadastre of Public-law Restrictions of Landownership (PLR)

Kataster der öffentlich rechtlichen Eigentumsbeschränkungen

1. Raumplanung (Kontakt: Planungsbüro der Stadt Thun)

Parzelle Thun 4912

Einträge im Zonenplan vom Juni 2002

- Wohnen W3, seit Juni 2002
- Überbauungsordnung ZPP I Zenger-Gut, seit 27.10.2005

Reglement zum Zonenplan

Reg. Thun, vom 04.2009

Sonderzonenplanungen

Die Überbauungsordnung beinhaltet:

- * Überbauungsplan 1.500 vom 27.10.2005
- * Überbauungsvorschriften vom 27.10.2005

Weitere Dokumente von Interesse:

- * Dr. Zonenplanungsentwurf des Kantons vom 27.10.2005
- * Bucherakt vom 27.10.2005
- * Erläuterungsbericht vom 27.10.2005
- > [Bekanntmachung](#)

Übergangsrechte

Rechtsart	Rechtsgrundlage	Rechtsartikel
Stempelrecht	Stempelgesetz	Art. 50-52, 79, Art. 1-126
Basenverordnung	Basenverordnung	Art. 1-21
Basenverordnungsdekret	Basenverordnungsdekret	Art. 1-27
Waldgesetz	Waldgesetz	Art. 1-58
Waldverordnung	Waldverordnung	Art. 1-23
Bürgerliches Boden- und Pachtrecht	Bürgerliches Boden- und Pachtrecht	Art. 14, 19, 23, 24, Art. 31, 33, 34-43, Art. 1-96, Art. 1-4

Optional gemäss Art. 4 Informationstiefe / Option selon art. 4 Niveaux d'information

Rudolf KÜNTZEL and Jürg KAUFMANN, Switzerland

Rome May, 2012

15

geosuisse

- Background and legal basis
- Organization and digital reform
- Conceptual and technical elements
- Extension of purpose (land information)
- Profession, PPP

Rudolf KÜNTZEL and Jürg KAUFMANN, Switzerland

Rome May, 2012

16

geosuisse

The master study for land engineering

Report on the problems of higher education in geomatics and land management

The number of students at swiss federal institut of technolgy in Zurich and Lausanne is insufficient

The curricula do not meet the needs in all parts of the practice

We need as Prof. Holger Magel formulated:

Saddle-fast specialized generalist

geosuisse
Schweizerischer Verband für Geomatik und Landmanagement, SIA-Fachverein
Société suisse de géomatique et de gestion du territoire, société spécialisée SIA
Società svizzera di geomatica e di gestione del territorio, società specializzata SIA
Societad svizra da geomatica e da gestjion dal territori, societad specializada SIA

Bericht über die Problematik der Hochschulausbildung im Bereich Geomatik und Landmanagement

Rudolf KÜNTZEL and Jürg KAUFMANN, SwitzerlandRome May, 201217

geosuisse

A new master study for land engineering

Master
Ingénierie du territoire (Geomatics, land management and civil engineering MIT)

Qualification awarded
Master of Science HES-SO en Ingénierie du territoire

Description
The course is made up of two parts:

- Theoretical and professional specialisation (60 ECTS)
- Master's thesis: AR&D project supervised by a member of the teaching staff (30 ECTS)

The accent is as much on developing personal, methodological and entrepreneurial skills as on acquiring technical knowledge. The MIT course also enables students to select a profile that gives them the theoretical basis for admission to the examination for the Swiss vocational examination (brevet fédéral) as a surveying engineer.

Rudolf KÜNTZEL and Jürg KAUFMANN, SwitzerlandRome May, 201218

geosuisse

100 years cadastral surveying



100 Jahre
Amtliche Vermessung Schweiz

100 ans
Mensuration Officielle Suisse

100 onns
Mesiraziun Uffiziala Svizra

100 anni
Misurazione Ufficiale Svizzera

Rudolf KÜNTZEL and Jürg KAUFMANN, Switzerland Rome May, 2012 19

geosuisse

International activities



SWISS LAND MANAGEMENT FOUNDATION

SWISS LAND MANAGEMENT
Monbijoustrasse 14, P.O. Box 5236
3001 Bern
SWITZERLAND

+41 313 909 909 ph
+41 313 909 903 fax
contact@swisslm.ch
www.swisslm.ch

Working Worldwide 

Rudolf KÜNTZEL and Jürg KAUFMANN, Switzerland Rome, May 2012 20

geosuisse

our experience - your progress
Public Private Partnership

<p>Swiss traditions</p> <ul style="list-style-type: none"> • thoroughness • order-abiding • Endurance • Reliability <p>Our experience led to success</p>	<p>Swiss traditions</p> <p>Open cooperation between</p> <ul style="list-style-type: none"> • Authorities • Universities • Private firms • practice <p>Our experience led to success</p>
---	--

Olaf KÜNTZEL and Jürg KAUFMANN, Switzerland
Rome, May 2012
21

geosuisse

Switzerland is a reliable

1815 we received from the Congress of Vienna commissioned the Transalpine keep open to all.

This is the reason why everyone can go without tolls through the new 57 km long Gotthard Base Tunnel in 2017

our commitment to thoroughness and accuracy made possible to reach the breakthrough with a deviation from flat of your hand.

(8 cm across, 1 cm height, 15 cm length)






Olaf KÜNTZEL and Jürg KAUFMANN, Switzerland
Rome, May 2012
22

geosuisse

Switzerland's reliability is up to date

yesterday, on 6 May, at the memorial day of the sack of Roma in the year 1527 the new 26 guardsman of the Swiss Guard of the Vatican were sworn in.

Swiss Guard serve since the year 1506 faithfully and reliably.

She is the only guard who remained there.

The best testimony for Swissness



Rudolf KÜNTZEL and Jürg KAUFMANN, Switzerland

Rome, May 2012 ²³

geosuisse

Thank you for your attention

Rudolf KÜNTZEL and Jürg KAUFMANN, Switzerland

Rome, May 2012 ²⁴