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**Bundesamt für Landestopografie swisstopo**  
Federal Directorate for Cadastral Surveying

# **Cadastral Template Progress Report 2009**

FIG-Commission 7 Annual Meeting  
Kuala Lumpur, Malaysia  
12 Oct. 2009

Daniel Steudler



# Design Principles for the Template

- keep it simple in order to attract as many participants as possible  
→ part I and II (descriptive and statistics)
- role of cadastre for SDI
- resource for lesson-learning from each other
- resource for developing best practice and performance indicators



# Structure

## Part I: Descriptive Country Report

<b>A. Country Context</b>	Geographical Context / Historical Context / Current Political and Administrative Structures / Historical Outline of Cadastre
<b>B. Institutional Framework</b>	Government Organizations / Private Sector Involvement / Professional Organization or Association / Licensing / Education
<b>C. Cadastral System</b>	Purpose of Cadastral System / Types of Cadastral System / Cadastral Concept / Content of Cadastral System
<b>D. Cadastral Mapping</b>	Cadastral Map / Example of a Cadastral Map / Role of Cadastral Layer in SDI
<b>E. Reform Issues</b>	Cadastral Issues / Current Initiatives

## Part II: Questionnaire


<b>1. Cadastral Principles</b>	Deeds vs. title registration / registration compulsory or optional / systematic vs. sporadic registration
<b>2. Cadastral Statistics</b>	Population / no. of land parcels / no. of strata titles / degree of registration / no. of professional land surveyors and lawyers/solicitors





Cadastral Template - Microsoft Internet Explorer - [Working Offline]

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 **PCGIAP-Working Group 3**  
"Cadastral"

 **The University of Melbourne**  
Department of Geomatics

 **FIG-Commission 7**  
"Cadastral and Land Management"

# Cadastral Template

## *A Worldwide Comparison of Cadastral Systems*

Cadastral country reports based on a jointly developed PCGIAP/FIG template.  
Established under UN mandate by [Resolution 4 of the 16th UNRCC-AP](#) in Okinawa, Japan in July 2003.  
UN endorsement for cooperation with [UN-ECE WPLA](#), [UN-ECA CODI](#), and [PCIDEA](#).


### Data per Country

(last update: 18 Apr. 2004, 33 countries)

as .htm

as .pdf

### Field Definitions



#### I. Data per Data Fields

(last update: 7 Nov. 2003, 30 countries)

### II. Principles and Statistics

(last update: 18 Apr. 2004, 33 countries)

- 1.1 Cadastral Principles
- 2.1 Population
- 2.3 Parcels
- 2.7 Professionals

### Documents

- Questionnaires for Download (English, Español, Portuguese).
- Publications
- Administrative Documents

### Latest Updates

- Country report of Mexico (in Spanish) as 33rd country (18 Apr. 2004)
- Publication in the Hong Kong Journal of Geospatial Engineering (3 Mar. 2004)
- Questionnaires available also in Spanish and Portuguese (5 Feb. 2004)
- Country Reports of Lithuania and Sweden (6 Dec. 2003)
- Complete update of all data fields with 30 countries (5 Nov. 2003)
- Country Report of Turkey (4 Nov. 2003)

The "Cadastral Template" has been developed by a research group at the Department of Geomatics of the University of Melbourne. It consisted of Prof. Ian Williamson, Dr. Abbas Rajabifard, and Daniel Steudler, supported by Prof. Stig Enemark from Aalborg University, Denmark.

PCGIAP-Working Group 3 "Cadastral" cooperates with FIG-Commission 7 to place the country information jointly on this website and to maintain the information during its 2003-2006 Work Plan.

For providing or updating your country data, please contact:  
- for PCGIAP members: Dr. Abbas Rajabifard ([abbas.r@unimelb.edu.au](mailto:abbas.r@unimelb.edu.au))  
- for FIG and other organizations: Daniel Steudler ([steudler@sunrise.sli.unimelb.edu.au](mailto:steudler@sunrise.sli.unimelb.edu.au))

This website is maintained by Daniel Steudler.

Established: 22 Apr. 2003  
Last Update: 18 Apr. 2004

My Computer



Cadastral Template – Czech Republic – Microsoft Internet Explorer

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Address http://www.swisstopo.ch/cadastraltemplate2003/countrydata/cz.htm Go

## Cadastral Template

Select another Country Field Data | Field Definitions | Home

# Czech Republic




### I. Country Report


- A. Country Context
- B. Institutional Framework
- C. Cadastral System
- D. Cadastral Mapping
- E. Reform Issues
- References

### II. Cadastral Principles and Statistics



- 1. Cadastral Principles
- 2. Cadastral Statistics

 pdf file of complete country report (401k) This page was last updated on 7 Aug. 2003

## I. Country Report

<p><b>Contact person for provided information:</b> </p> <p>Ivan Pešl Survey and Cadastral Inspectorate in Opava Head</p> <p>Information provided on 5 Aug. 2003</p>	<p><b>Address:</b></p> <p>Praskova 11746 01 Opava CZECH REPUBLIC Email: ivan.pesl@cuzk.cz</p>
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### A. Country Context Czech Republic [Top of Page](#) | [Home](#)

**Geographical Context:**  

The Czech Republic is a small landlocked country, lying in the central part of Europe. Its area of 78,866 square kilometres, population of 10,289,621 people, and population density of 130 inhabitants per square kilometre rank the country on the 21st, 12th and 13th places among European countries, respectively. The country's borders make up neighbourhood with Poland (762 km), Germany (810 km), Austria (466 km) and Slovakia (252 km). 67% of the country's whole territory can be found at an altitude of up to 500m, 32% between 500 and 1,000m, and only 1% above 1,000m. The average altitude of the Czech Republic is 430m.

Done Internet



Cadastral Template 2003 – Field Data of "Land Parcels" - Microsoft Internet Explorer

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Address http://www.swisstopo.ch/cadastraltemplate2003/fielddata/23.htm

## Cadastral Template 2003

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### 2. Cadastral Statistics

This page was last updated on 24 Aug. 2003

Country	2.3 No. of Land Parcels [million]	--> land parcels per million population
Australia:	10.2	531,300
Brunei:	0.06	172,700
Cambodia:	7	583,300
China:	246.5	205,400
Czech Republic:	21.6	2,099,300
Denmark:	2.5	471,700
Fiji:	0.09	118,600
Germany:	61.5	745,500
Hong Kong:	0.3	44,800
Hungary:	7.3	722,800
India:	210	205,500
Indonesia:	84.5	361,100

### No. of Land Parcels and Strata Titles

■ land parcels  
■ strata titles

parcels resp. strata titles per 1 million population

Country	Land Parcels (per 1 million pop.)	Strata Titles (per 1 million pop.)
Australia	531,300	~100,000
Brunei	172,700	~100,000
Cambodia	583,300	~100,000
China	205,400	~100,000
Czech Republic	2,099,300	~1,000,000
Denmark	471,700	~100,000
Fiji	118,600	~100,000
Germany	745,500	~100,000
Hong Kong	44,800	~100,000
Hungary	722,800	~100,000
India	205,500	~100,000
Indonesia	361,100	~100,000
Iran	~100,000	~100,000
Japan	~100,000	~100,000
Jordan	~100,000	~100,000
Kiribati	~100,000	~100,000
Korea (Rep. of)	~1,000,000	~1,000,000
Macao	~100,000	~100,000
Malaysia	~100,000	~100,000
Nepal	~100,000	~100,000
Netherlands	~100,000	~100,000
New Zealand	~100,000	~100,000
Philippines	~100,000	~100,000
South Africa	~100,000	~100,000
Sri Lanka	~100,000	~100,000
Switzerland	~100,000	~100,000
Uzbekistan	~100,000	~100,000

Done



# Experiences

- after the initial workshop in 2003, it became very hard to get support and to get country information
- difficult to maintain
- issues around quality control
- motto: not perfect → but better than nothing



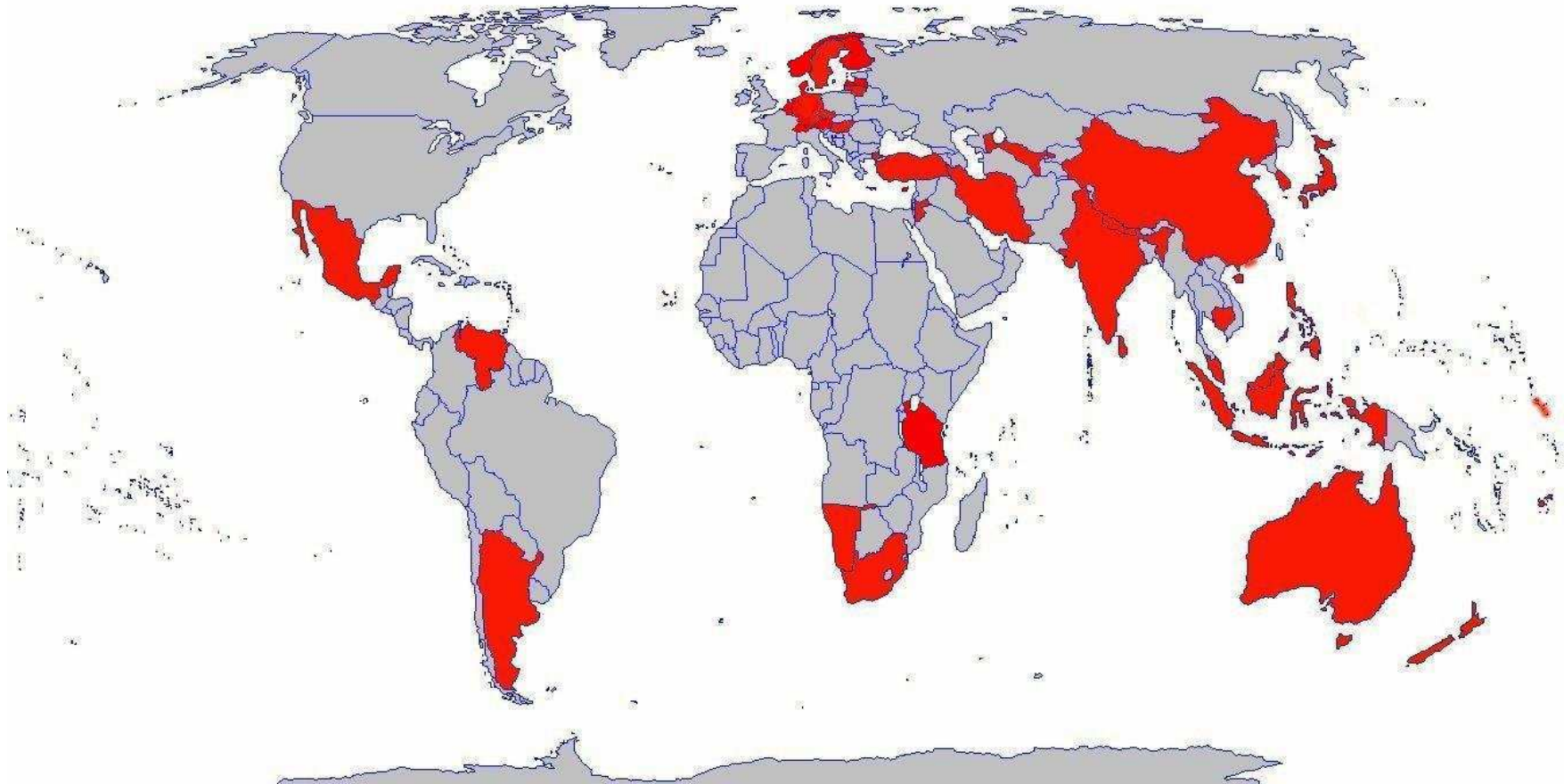
## Actions over the last year

- update of 1 country report (Finland)
- concluding from web access statistics, the interest to view the data is slightly growing (2,800 accesses in 2009 so far)
- project is strongly being supported by FIG President
- continuing dialogue about the "management" of the project between FIG-Commission 7 and PCGIAP-Working group "Cadastre"





## 42 countries (Oct. 2009)





## Web access 1 Jan. - 24 Sep. 2009



Running total of visits since 1 Jan 2009: **2,813** (as of 24 Sep. 2009)



## Countries present at annual meeting 2009

- Austria
- Belgium
- Bulgaria
- Canada
- Czech Rep.
- Denmark
- France
- Germany
- Ghana
- Hong Kong
- Hungary
- Jordan
- Kenya
- Korea
- Malaysia
- Morocco
- Netherlands
- Nigeria
- Norway
- Sweden
- Switzerland
- United Kingdom



## Countries present, but not in template

- Austria
- Belgium
- **Bulgaria**
- **Canada**
- Czech Rep.
- Denmark
- **France**
- Germany
- **Ghana**
- Hong Kong
- Hungary
- Jordan
- **Kenya**
- Korea
- Malaysia
- **Morocco**
- Netherlands
- **Nigeria**
- Norway
- Sweden
- Switzerland
- **United Kingdom**



# Issues

- two years ago, a request for updates provided replies from 3 countries out of 39 (1 country actually provided an update, 2 countries promised to send updates)
- quality control
- there are no procedures in place for regular updates
- structure (who is responsible what for, eg. when template is amended or changed)
- information seems to be of interest, but support is weak



## Recommendations

- to have a clear commitment of Commission 7
  - that the data collection of the cadastral template is maintained and periodically reviewed
  - that all countries attending the annual meeting have to provide their data and that – in case they are new to the Commission or they have innovative new developments to report – they are given the floor to present them at the meeting
- to maintain a joint task force with PCGIAP-Working group "Cadastre"

