



Confederaziun svizra

- Initiative: Permanent Committee on GIS Infrastructure for Asia-Pacific (PCGIAP), WG-Cadastre, under the leadership of Ian Williamson (Australia) and Ahmad Fauzi bin Nordin (Malaysia)
- Research Centre: University of Melbourne, Centre for Spatial Data Infrastructures and Land Administration (Ian Williamson, Abbas Rajabifard, Daniel Steudler, Stig Enemark)
- Launch: at a workshop in July 2003 in Okinawa, Japan
- Intention at that time: \rightarrow "to develop an appropriate generic template for country" profile analyses describing the status of cadastre and land administration, and the need for improvements, which will facilitate benchmarking and the development of performance indicators".

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

CADASTRAL TEMPLATE 2.0 | FIG CONGRESS 2014

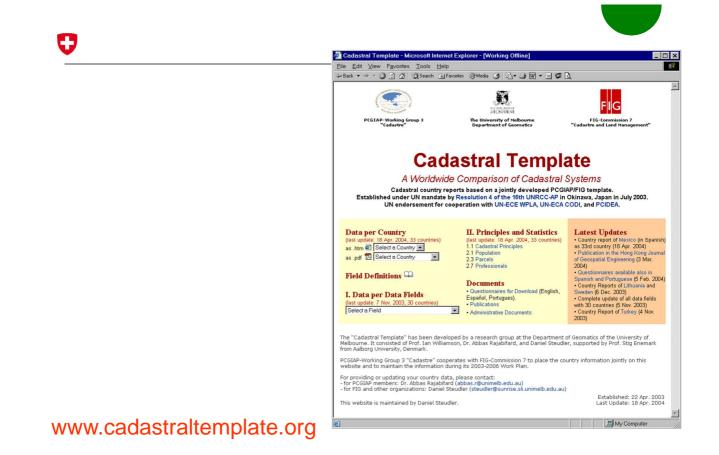


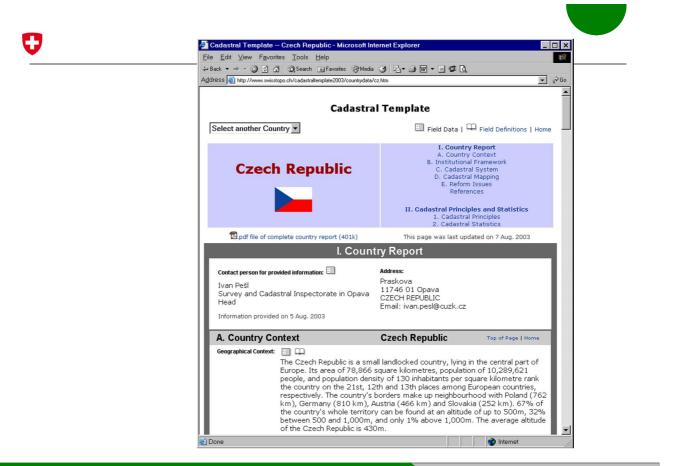
Part I: Descriptive Country Report

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

Part II: Questionnaire

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

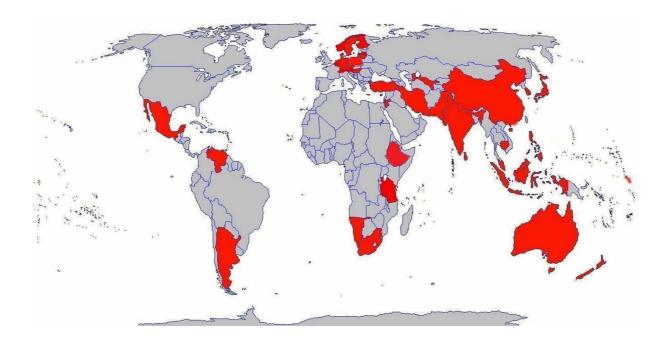




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Brunei:	0.06	172,700	0	0	1	
Cambodia:	7	583,300	n/a		18	Japan
China:	246.5	205,400	188 million	156,700		Jordan
Czech Republic:	21.6	2,099,300	1,033,484	100,300	1	Macao P Malaysia
Denmark:	2.5	471,700	200,000	37,700	1	Nepal Netherlands
Fiji:	0.09	118,600	271	300	Ś	Philippines
Germany:	61.5	745,500	14 million	169,700	1	Sri Lanka Switzerland
Hong Kong:	0.3	44,800	2 million	298,500	99	
Hungary:	7.3	722,800	2 million	198,000	1	29 1 30 1 31 1
India:	210	205,500	41 million	39,900	Ś	
Indonesia:	84.5	361,100	3,000	13	4(34 35

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Issues

- soon after the initial workshop in 2003, it became difficult to get support and to get data from more countries
- in 2007, a request for updates provided replies from 3 countries out of 39
 → BUT: information seems to of interest
- quality control
- · there are no procedures in place for regular updates
- technical set-up of website is static, therefore difficult to maintain and to make updates
 → motto: not perfect, but better than nothing
- in May 2011: adaptation of website → no updating of .htm pages anymore, but instead a complete list of country reports and versions in .PDF and .DOC formats



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Cadastral Template	+	1						
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Cadast	ral Tem	pla	te			Last update	of this page: 5 July 2011	
A Worldwide Co	mparison of Ca	dastral	Systems					
Country	Latest Version		Previous Versions					
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Mexico Mexico (Español)	22 Apr. 2004 12 Apr. 2004	pdf do pdf do						
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New Zealand	6 Jun. 2003 6 Aug. 2007	pdf do odf do	£	Pur	/	22 May 2005 par de		



Project «Cadastral Template 2.0»



Website

- new setup with Web 2.0 possibilities
- with possibility of quality and editing control by an auditing team of Commission 7

Commission 7

auditing / editing team

Delegates

• regular provision of country reports

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Objectives for «Cadastral Template 2.0»

- to increase the usability and attractiveness of the website, and provide better possibilities for data analysis and cross-country comparisons;
- to make it easier and more efficient for country delegates to update the data of their own cadastral system; and
- to reduce the time and effort to maintain the website.

Work Plan for Website

	Action	
1	Establish work plan	\checkmark
2	Development of the infrastructure (University of Melbourne)	~
3	Fine-tuning (with voluntary pilot countries) and re- launch	
4	Updating of existing data	
5	Review the data structure, i.e. potential new structure to support other current initiatives (e.g. SES, VG, LGAF, CoFLAS, etc.)	

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Supporting Actors

Project team

- Daniel Steudler, Abbas Rajabifard (Univ. of Melbourne), endorsed by FIG-President (for 3 years, until end of 2016)
- to look after the validation of new and updated information
- to further develop, maintain and promote the cadastral template

Developers

team from the University of Melbourne

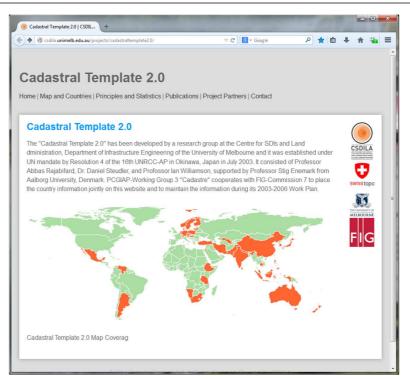
FIG Head Office

• to send out official requests for participation to its national member associations (e.g. when renewing membership)

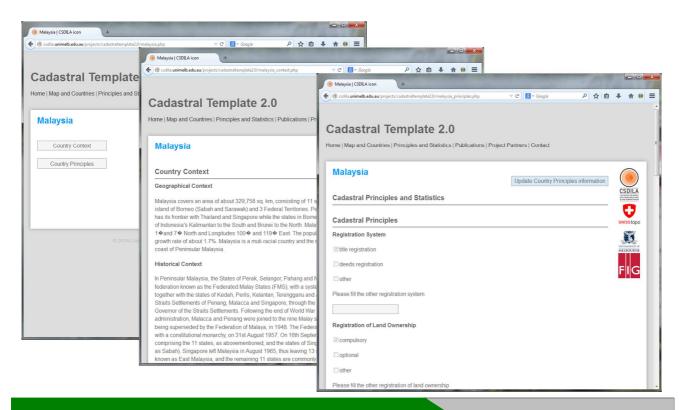
FIG-Commission 7

to involve its delegates to contribute to the Cadastral Template



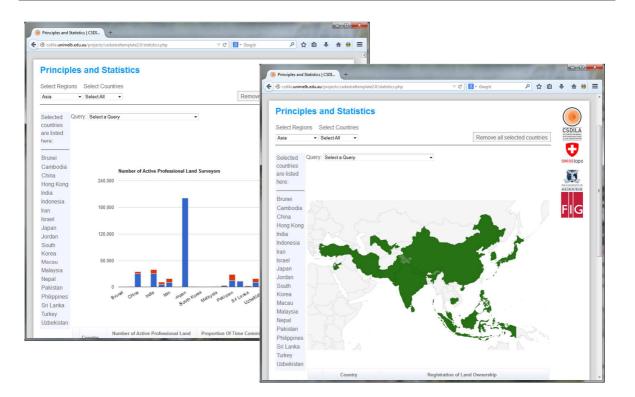


C Screen Shots of CT2.0





Screen Shots of CT2.0



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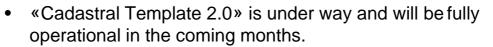


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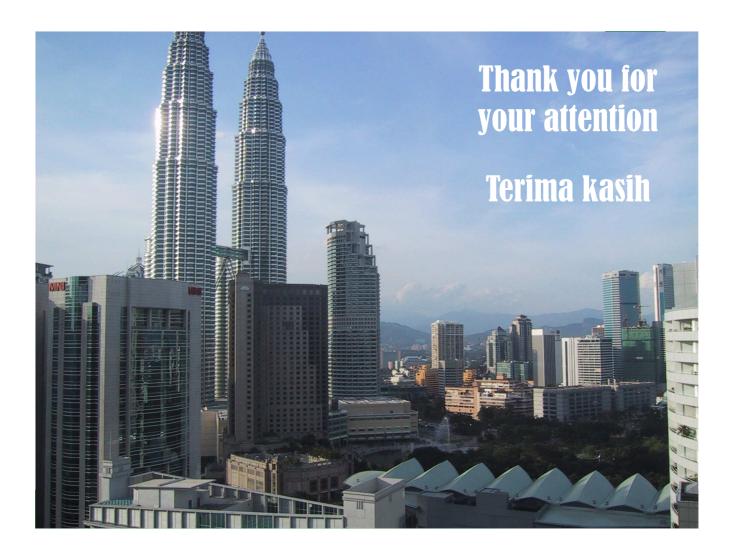
Possible Extensions of Data Structure

I. COUNTRY REPORT	II. QUESTIONNAIRE	Voluntary	Guidelines (FAO, 2012)			
A. Country Context	1. Cadastral Principles	Part 1: Prel	iminary matters	Section 13: Land consolidation and other readjust- ment approaches		
A1 Geographical Context	1.1 Deed or title registration (ion of the Guidelines.			
A2 Historical Context	title registration / other)	Section 1: Obje		Section 14: Restitution		
A3 Current Political and Administrative Structures	 1.2 Registration of land owner 	Section 2: Natu		Section 14: kestitution Section 15: Expropriation and compensation Part 5: Administration of tenure covers the administrative espects of effective Section 17: Records of tenure rights Section 17: Valuation		
A4 Historical Outline of Cadastre	optional / other) (comments)		eral matters			
B. Institutional Framework	 1.4 Approach for the establish 		ance which applies to all situations of			
B1 Government Organizations	records (systematic /sporadic /	governance of				
B2 Private Sector Involvement	are already registered /other)	Section 3: Guid	ding principles on responsible tenure			
B3 Professional Organization or Association	2. Cadastral Statistics		ernance			
B4 Licensing	2.1 Population		ts and responsibilities related to	Section 19: Taxation		
B5 Education	2.2 Population distribution - u	tenu				
C. Cadastral System	2.3 Number and distribution o		cy, legal and organizational frame-	Section 20: Regulated spatial planning Section 21: Resolution of disputes over tenure rights Section 22: Transboundary matters Part 6: Responses to climate change and emergencies The earlier parts of the Guidelines address mostly "eve- ry day" situations, whereas this part addresses ex- treme situations where good could be displaced on a		
C1 Purpose of Cadastral System	ber of the smallest uniquely ide		ks related to tenure			
C2 Types of Cadastral Systems	2.4 Number of registered strat					
C3 Cadastral Concept	units)		al recognition and allocation of			
C4 Content of Cadastral System	2.5 URBAN areas land parcels		are rights and duties			
D. Cadastral Mapping	surveyed / legally occupied, bu		legal recognition of tenure rights of in-			
D1 Cadastral Map	surveyed / informally occupied		oles and other communities with custom-			
D2 Example of a Cadastral Map	2.6 RURAL areas land parcels I		tems, as well as of informal tenure	large scale. In all cases, States should strive to prepare		
D3 Role of Cadastral Layer in SDI	surveyed / legally occupied, bu	ginhes and she	initial attacation of taxwar sinhts to			
E. Reform Issues	surveyed / informally occupied, be	I and C	Governance Assessment	Framework (I GAE)		
E1 Cadastral Issues	2.7 Number of professional lar					
E2 Current Initiatives	2.8 Number of lawyers/solicite	Jee	AREA 1. LEGAL AND INSTITUTIONAL	THEMATIC AREA 3. MANAGEMENT OF PUBLIC		
22 content modeves	2.0 Humber of huwyersysonette	Sect FRAMEWO		LAND		
oFLAS (LEI, 2013)			nition of a continuum of rights. ement of rights.	LGI 12. Identification and clear management of public land.		
t 1 BASIC DATA	B3 Taxation on property		inisms for recognition of rights.	LGI 13. Justification and time-efficiency of expro-		
me, position, date, currency, fiscal year	B4 Data format and storage location	on	tions on rights.	priation processes.		
	Section C Land Administration an	nd Registration	of institutional mandates.	LGI 14. Transparency and fairness of expropriation		
art 2 QUESTIONNAIRE DATA SHEET Statistics			and nondiscrimination in the decision-	- procedures.		
tion A Policy Setting	C1 Properties (number, area, %urb	oan/rural)	ess.	LGI 15. Allocation of public land is transparent.		
Fees Policy	C2 Registered transaction types					
Additional costs for the user	C3 Property taxation		REA 2. LAND USE PLANNING, MAN-	THEMATIC AREA 4. PUBLIC PROVISION OF LAND		
How are staff salaries set?	C4 Technical and Administrative St	taff	ND TAXATION	INFORMATION		
Providing service directly to public	Section D Cost and Revenue Infor	rmation	parency of land use restrictions.	LGI 16. Completeness.		
Participation	D1 Period of financial information		ncy in the land use planning process.	LGI 17. Reliability.		
Coverage	D2 Amount for operational costs		and predictability of applications for	LGI 18. Cost-effectiveness, accessibility, and sus-		
Restrictions on Transactions	D3 Funding of operations		nd uses.	tainability.		
Self-Financing	adastre	sparency of valuations.	LGI 19. Transparency.			
tion B Land Administration Arrangements	D5 Total non-recurrent expenditur		ollection efficiency.			
Level of roles and responsibilities	D6 Non-routine/development cost			THEMATIC AREA 5. DISPUTE RESOLUTION AND		
Institutional infrastructure				CONFLICT MANAGEMENT		
institutional initias ductare				LGI 20. Assignment of responsibility.		

In Conclusion



- We are looking for 5-6 volunteers to fill out or update their country data and provide the developers with feedback.
- The Cadastral Template will mainly be kept alive through input from FIG-Commission 7, but hopefully also other contributors.
- The editing team is in contact with other monitoring initiatives in need of indicators.







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Possible questions:

- what do volunteers have to do?
- how do you ensure continuity of CT2.0?
- what is the role of FIG Commission 7 delegates?
- how do you plan to integrate other monitoring projects?