



Daniel Roberge says...

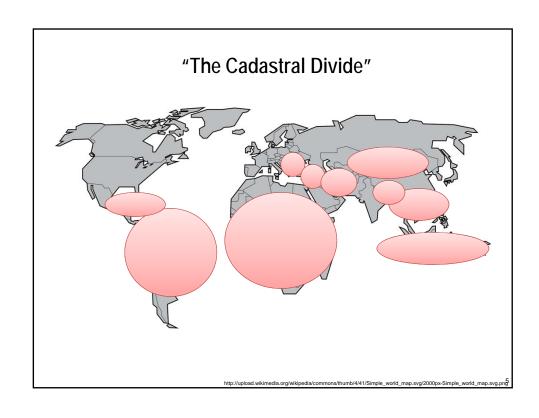
"Good land rights infrastructures exit in only between 35 and 50 countries"

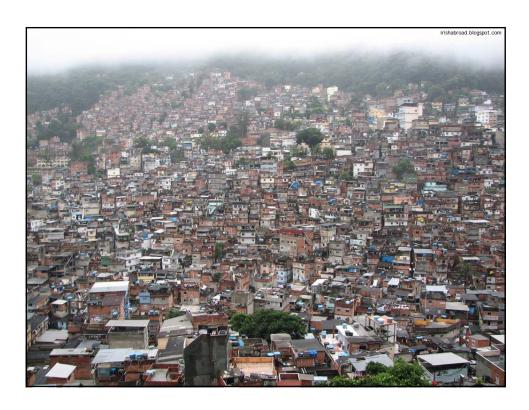
"Only 25% of the estimated 6 billion land parcels are formally registered"

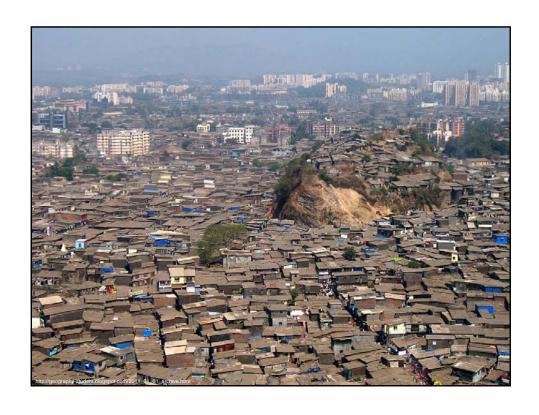
"This leaves more than 4 billion land parcels without land tenure security"

Jaap Zevenbergen says... Director UNU School for Land Administration

"At current rates it would take decades, or even centuries, to deliver more complete levels of registration in many countries"





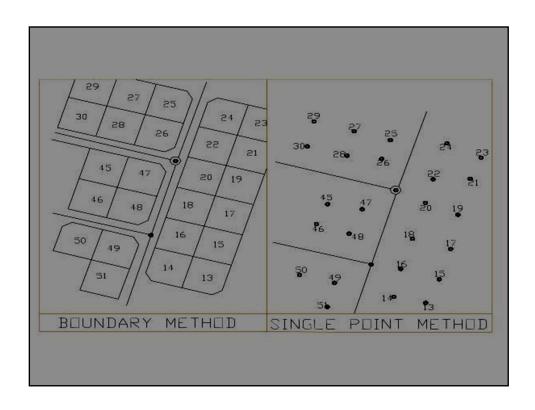


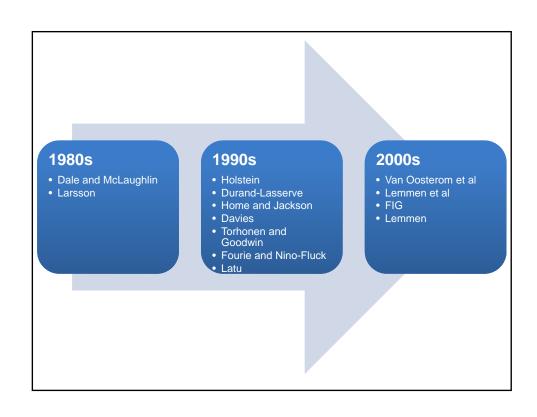


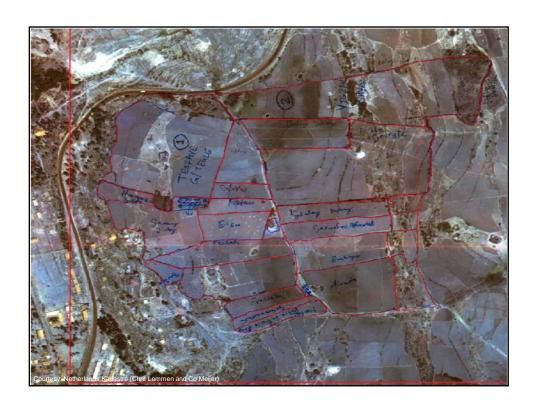




Faster	
Cheaper	
Fit for Purpose	
Point Cadastre	
T offit CadaStrC	

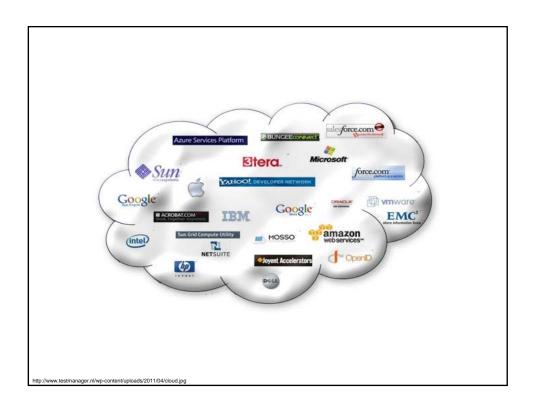


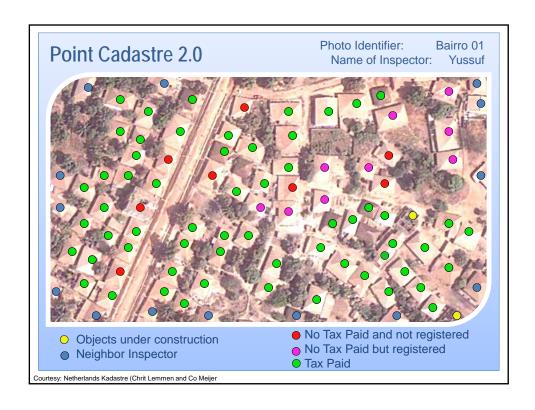


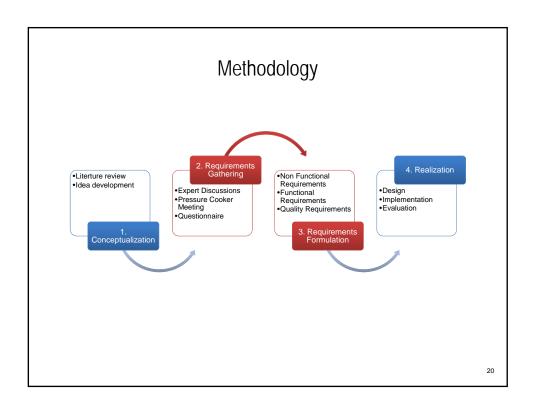




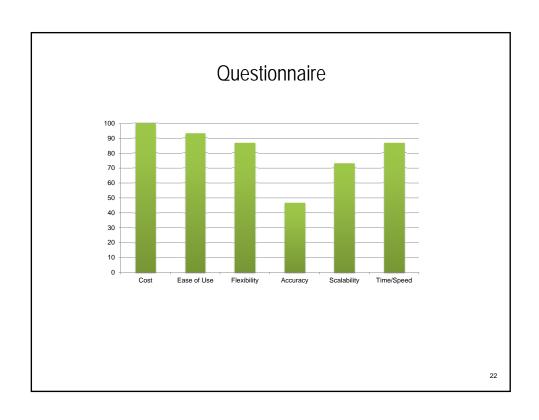


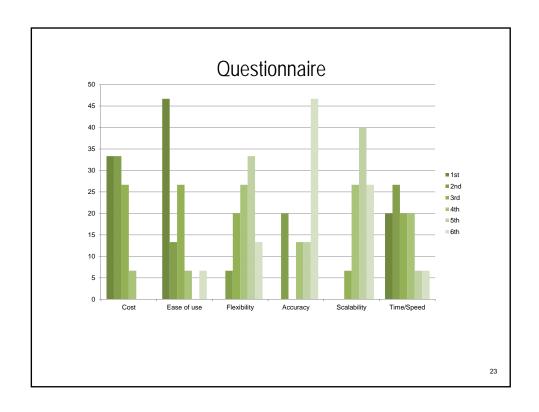


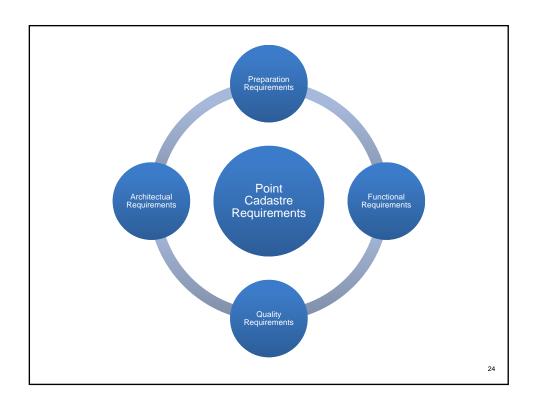


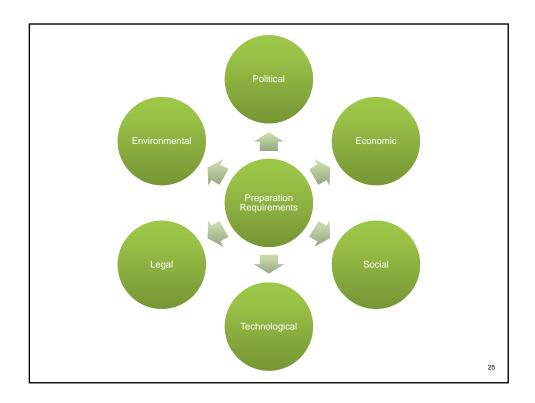


Expect Group Discussion Out Supporting disaments Cost must be accorded quiete must be consolered as well Cost must be accorded with a consolered part and the consolered as well Cost must be accorded without particle sentille range But yearn ray be definitely sentille range But yearn ray be definitely sentille range But yearn ray be definitely sentille range Cost must be accorded for suitable for planning & execution of particle control of contro





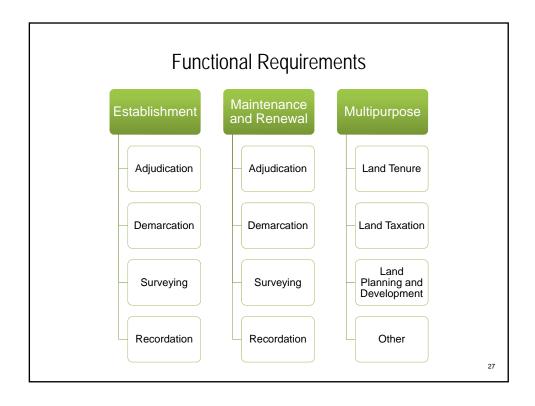




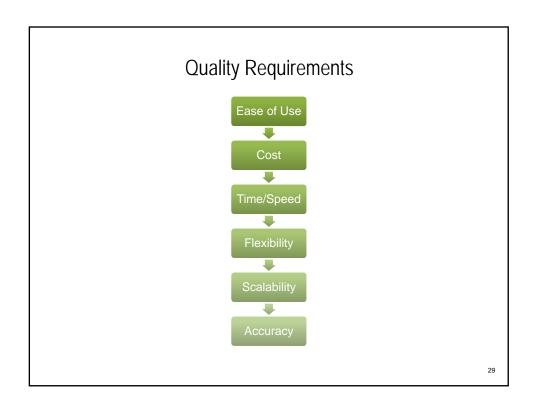
Preparation Requirements

Analysis item	Specific issues to consider
Political	Governance context; government structure; land administration
	organizations
Economic	Economic basis; financial stability and growth; public sector and private
	sector interactions; financing options
Social	Levels of professionalism, education, and health; types of land uses
Technological	Existing infrastructures (hard and soft); existing data sources
Legal	Land laws, regulations and tenures
Environmental	Topography; natural resources; levels and locations of degraded lands

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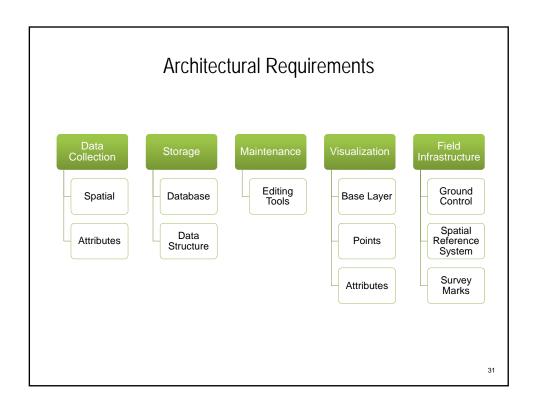
		ctional Requirements
Function Establishment	Tasks Adjudication	Must enable the articulation of adjacent (or overlapping land
Latabilatilitetit	Adjudication	tenures)
		Location of boundary lines is not required
	Demarcation	 Must physically demarcate land tenures in a simple way. For
		example, marking a building with an address or ID number.
		 Existing features can be used (e.g. trees) for demarcation
		Demarcation can also be virtual (e.g. retraceable grid coordinates)
	Surveying	Utilize either ground or aerial methods of survey.
		 Can be considered to use general boundaries: a single point approximates a parcel and its boundaries.
	Recordation	Should store results from adjudication, demarcation, and surveying
	necordation	in some form of information system.
		 Graphical (e.g. cadastral point map) and textual elements (tenure
		information) should be recorded.
		 No boundary records are required, however, spatial referencing
		should be sort.
		The two types of information should be linked.
		An underlying high-resolution image or topographic map should be
Maintenance	As above	 added to the system to provide contextual information. Should enable establishment tasks (adjudication, demarcation,
and Renewal	AS above	surveying and recordation) to be repeated in a sporadic fashion for
and nenewar		data upgrading and system upgrading.
Multipurpose	Land Tenure	Should enable very basic spatial recording of land tenures
	Land Taxation	 Can allow for simple land valuation and taxation assessment and
		enforcement
	Land Planning	 Combined with other sources of data can support infrastructure
	and	decision making (e.g. acquisition), land use planning decision-
	Development	making and enforcement.
	Other	After basic land administration functions are implemented, point
		cadastre can be utilized for governance of health, education, and other social requirements.

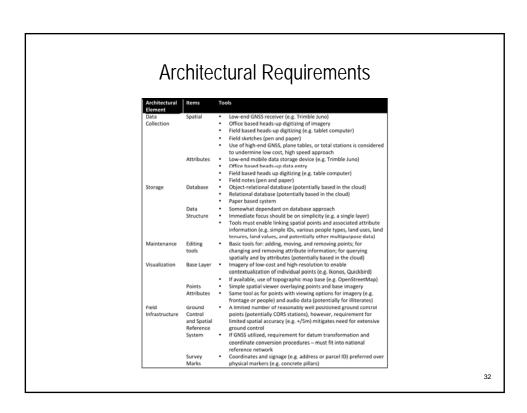


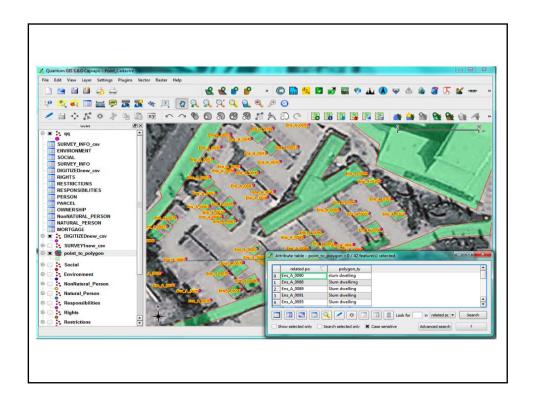
Quality Requirements

Quality	Definition	Rank
Ease of use	Level of technical/specialized capacity to build and maintain the point cadastre	1st
Cost	Costs of technical equipment, human resources, supplies, etc., in producing and maintaining the point cadastre database	2nd
Time/Speed	Time required to initially develop and maintain the point cadastre	3rd
Flexibility	Capacity of the point cadastre to be used across different agencies by many stakeholders	4th
Scalability	Ability of the system to be extended for use at regional and national levels	
	(i.e. increasing the types of data collected, spatial coverage, allowing for concurrent users)	5th
Accuracy	Refers to spatial accuracy of the points collected (i.e. the closeness of the positions of objects in the point cadastre to the positions on ground)	6th

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				Assessment requirement					
Requirement			Avail abilit y	Ease of use	Cost	Time / Spee d	Flexib ility	Scala bility	Accu
Component/ phase	Option	No:	1	7	8	9	10	11	12
Base image	Google	2,	Н	M	L	Н	M	M	M
Preparation	Quickbird	3	M	M	M	M	L	L	M
	Ikonos	& 4	М	М	М	М	L	L	M
Setting up storage device	ArcGIS	5	Н	М	Н	M	M	M	
	QuantumGIS	&	Н	Н	L	Н	M	M	
	GeoMajas	6	Н		L			Н	
Setting up mapping device	Juno SD		М	М	M	M	M	Н	M
	Leica1200	3	М	L	Н	M	Н	M	Н
	Garmin12XL		M	Н	L	M	L	L	L
Cadastral overlays	Field Survey	3	M	M	M	M	M	M	Н
	Digitising	1	Н	Н	L	Н	Н	Н	M

Piloting in real world context

Development of workflows at scale

Integration with other pro-poor approaches

