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39 WB funded LAM projects in Europe and Central Asia: The largest program of land reform the world has ever seen! 30 countries -US\$ 1.1 billion in loans and grants

Population: ~900M Land area: 27,381,300 km<sup>2</sup> Properties: ~300M



However: 49 % suffer budget overruns 50 million people live in informal settlements Rise or Fall of the cadastre empire??

- ✓ High technical education
- ✓Be pragmatic & flexible
- ✓ Meet the needs of society
- ✓ Be confident, not conservative

World Bank, 2011: ✓Embrace social media & crowd sourced technology to provide transparent land administration in places where corruption & inefficiency is endemic ✓With an understanding of errors, accuracies & usefulness of various forms of spatial information



### Fit for Purpose approach

FIG: Highly qualified professional surveyors' interest is gradually moving from measurement to requirement determination for data collection and to data evaluation and management.



# Direct citizen contribution to LA?

As the land administration activity on the one hand deals with huge amounts of data, which moreover are of a very dynamic nature, and on the other hand requires a continuous maintenance process, the role of information technology is of strategic importance.

Technical and the socio-organizational concerns

## **FIG Proposal**

- Bottom-up pilot projects are expected to challenge formal systems, their constraints and inadequacies.
- Action plan for pilot projects to communicate the benefits to the local authorities & citizens; to investigate the appropriate tools & methods; to cooperate with the local authorities; to activate community leaders and citizens; to identify the type of information that should be collected for the various LASs; to do basic training.

# Integration of community-based LASs into cadastral systems

- Type of information: land parcel centroid or parcel boundaries, building outline, building characteristics, floors, property rights, property rights holders' data, photos of the property, photos of supporting documents. Depending on the availability of other topographic information, other base mapping and socio-economic data should be collected as well. Pilot projects should build on the infrastructure and capacity of existing projects-if possible.
- □ **Next step**: investigate how this will be done; a hybrid approach is proposed.
- Iand surveyors should undertake a minor but important role in the pilot projects to increase capacity and provide guidance and training of trusted para-professionals, community leaders, citizens and land right holders.
- Compilation or completion/correction of draft cadastral maps (in countries that run implementation cadastral projects; in regions where cadastral maps are problematic or not updated; in regions where no cadastre or formal property rights exist- in such cases basic technical guidelines are needed; such guidelines should be provided by the authorities in cooperation with land surveyors)
- Publishing the results as a protection against errors and abuse
- Demonstration of feasibility of crowdsourcing to LA organizations and surveyors.

