





# Objectives of this presentation

- To identify a suitable, low cost method for the description of land holdings in urban informal settlements with the view to documenting and formalizing real property ownership in support of poverty alleviation strategies.
- To find out an appropriate, cost effective method for demarcating land parcels in planned urban areas to meet existing demands & so minimize growth/expansion of Informal Settlements.

5

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Place of Cadastral Surveying system
Cadastral Surveying & mapping system is the cornerstone of the cadastral system.
In Tanzania, it is housed under the same roof together with the related systems, namely;

Land Use and Environmental Planning.
Land Development Services, including land registration.

The institutional set up improves efficiency and reduces administrative costs.
The system is guided by statutes.

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13

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# What supporters of Social Cadastre say

• Supporters argue that a social cadastre should be used for African countries because cadastre and land registration is not appropriate for these countries. However, they recommend use of parallel, elaborate technical cadastre that provides security of tenure for foreign investors in Africa.[Double stds?]

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3

18



- Non-supporters of social cadastre have cautioned that:
  - As society develops, land becomes more valuable, and
  - Local community knowledge may change.
- Either of these can frustrate the workability of a social cadastre, and thus cause serious problems and litigations.

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### Cost of technical cadastral surveys Concern about high cost of surveys has been raised by individuals, authorities and institutions. • Many have argued that aiming at high accuracy causes delays and high survey costs which are a deterrent to access to land and land development. This issue is explored in some sub Saharan African and European countries.

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20

contd.

22

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19



- This approach is simple and cost efficient as the maps used for other purposes are also used for land registration without requiring much additional survey costs.

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23





# The Experience in Tanzania contd Parcels in informal settlements are created by process of delineation. No demarcation or measurements. In the field: Parcel boundaries are identified, adjudicated and marked on hardcopy of geo-referenced satellite imagery/photograph. Parcel is given an alphanumeric number and owner particulars recorded through completion of a questionnaire.









### **Discussions**

- The social cadastre has proved to be unworkable.
- Social cadastre cannot provide a sound basis for registration of land intended to be mortgaged without causing problems.
  - -Investors and financial institutions, therefore, don't have trust in it.

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# **Discussions** contd

- The European concept of using large scale topographic maps for parcel description is simple and cost effective.
  - -The method however requires stable, air visible boundaries and up-to-date maps. Both these are not available in most African countries.

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32

34

### **Discussions** contd

- The African climate and wild fires are a scourge to hedges used as boundaries, thus potentially causing a serious financial cum technical problems on boundary maintenance and restoration.
- In Kenya, general boundaries have been described as inaccurate; as such, they can cause misleading information to property owners and financial institutions accepting the properties as collateral in loan arrangements.
- Can Africa rely on such (general) boundaries? silayo@uclas.ac.tz

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33

31

April 2005

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### RECOMMENDATIONS Cadastral Surveys in Informal Urban Settlements should adopt the flexible, low cost, modified social cadastre description as a dependable and affordable interim measure for land registration, tenure security, access to credit and long term urban development control and renewal/planning (see

Silayo, 2004 for more).

**RECOMMENDATIONS** contd

- New urban areas being opened up should use quick boundary setting out methods to achieve planned dev'ment.
- Such surveying approach:
  - Gives permanent parcel descriptions.
  - Has potential to supply many parcels at low unit cost.
- Best cost-benefit results will be got only by making both surveying and registration, systematic and compulsory.

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### **RECOMMENDATIONS** contd

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- Use of modern technology (e.g. GPS, Total Station and computers) will give accurate survey measurements without much extra inputs and make data processing efficient and cost effective.
- To eliminate some of the repetitive quality checks, surveyors must be accountable for quality and completeness of their work through imposition of conditions such as mandatory Professional Indemnity Insurance.

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## CONCLUSION

This way the cadastral survey and mapping system can facilitate:

1) Realization of planned urban land development.

2) Timely, official access to land and shelter to all at affordable cost,

- 3) Access to credit, and
- 4) Implementation of Poverty Alleviation strategies.

### THANK YOU FOR YOUR ATTENTION

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37

April 2005