



Land Governance in an Interconnected World

ANNUAL WORLD BANK CONFERENCE ON LAND AND POVERTY
WASHINGTON DC, MARCH 19-23, 2018



Land and Poverty Conference 2018 Masterclass on

SESSION 13-07 | A Handbook for Geospatial Best Practices for Land Administration

Friday, March 23, 2018 | 11:00 am -12:30 pm | MC 7-100, World Bank

INSTRUCTOR:

Stephen Calder
Land Administration Consultant - GIS/Transport, Ltd



This class will present a thorough overview of principles and concepts involving the geospatial aspect of land governance, especially for the theatre of development interventions. The class will be broad, rather than deep, and the focus will remain on explaining the criteria of geospatial best practices to impart effective understanding, rather than technical proficiency.

Targeted audience: Development professionals involved in managing studies and interventions involving land.

Actions required: None. All participants will receive an outline of the Handbook.

Masterclass program:

Section One: Land Administration

- a) Intent of the Handbook; target audience
- b) Premise of the need for the Handbook
- c) The Profession of Land Administration
- d) The Primary Colours of Land Administration: Project Management, IT, Legal Profession, and Geospatial

Section Two: Geospatial Data and Information

- a) Geospatial defined.
- b) Special qualities of geospatial data (What's Special About Spatial?)
- c) Accuracy, precision and resolution; Absolute accuracy, Relative (internal) accuracy
- d) Vector data, raster data



Land Governance in an Interconnected World

ANNUAL WORLD BANK CONFERENCE ON LAND AND POVERTY
WASHINGTON DC, MARCH 19-23, 2018



Land and Poverty Conference 2018 Masterclass on

SESSION 13-07 | A Handbook for Geospatial Best Practices for Land Administration

Friday, March 23, 2018 | 11:00 am -12:30 pm | MC 7-100, World Bank

Masterclass program:

Section Three: The Processes of Location

- a) *Land Surveying Instruments (total stations)*
- b) *GPS*
 - *Survey-grade*
 - *Handheld*
- c) *Imagery:*
 - *Satellite*
 - *Aerial*
 - *UAV*
- d) *Field mapping:*
 - *Printed Imagery maps*
 - *Digital tablets*
 - *Surveying*

Section Four: Land Registries and GIS

- a) *GIS*
- b) *Land Registries*
- c) *Bringing in the data*
- d) *Georeferencing analogue maps and plans.*

Section Five: The Key Question – What Level of Accuracy for Land Governance?

- a) *How to determine?*
- b) *Historical perspective*
- c) *Precision or Adjacency?*
- d) *Costs for both*

Section Six: The Quiet Proliferation – The Spread of Mapping Technology

- a) *The democratization of geospatial information*
- b) *Calder's Postulate: The needs of land governance should be re-calibrated to the new cost structure of the Quiet Proliferation*
- c) *Examination of Two Special Cases of the Quiet Proliferation:*
 - *Handheld GPS*
 - *Drones*

Section Seven: Tying It All Together

- a) *Moving forward*
- b) *Assorted Best Practices*
- c) *Five Rules for Optimizing Geospatialism*
 - *Report Numbers Appropriately*
 - *Any data is better than no data*
 - *A Blend of Accuracies is Acceptable*
 - *Don't Propagate Error*
 - *Interpolate – Extrapolate*