

**FIG Commission 7
Annual Meeting 2016**

**Working Group 7.1
Fit-For-Purpose Land Administration**

Christiaan Lemmen
October, 24th 2016
Coimbra, Portugal



Fit-For-Purpose – what is it ?

Fit-for-purpose:

The systems should be designed for serving the basic purposes such as:

- including all land;
- provide secure tenure for all; and
- control of the use of land

– rather than being guided by high tech solutions and costly/time consuming field survey procedures

Fit-For-Purpose – what is it ?

Flexibility:

Scale and accuracy relate to geography, density of development, and budgetary capacity;

The legal and institutional framework should be designed to accommodate both legal and social tenure rights

Fit-For-Purpose – what is it ?

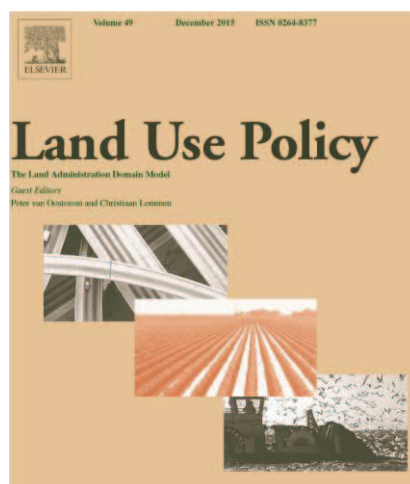
Incremental improvement:

Advanced Western style concepts may well be seen as the end target
– but not as the point of entry

Fit-for-Purpose Land Administration

KEY PRINCIPLES		
Spatial Framework	Legal Framework	Institutional Framework
<ul style="list-style-type: none"> ▪ Visible (physical) boundaries rather than fixed boundaries ▪ Aerial / satellite imagery rather than field surveys ▪ Accuracy relates to the purpose rather than technical standards ▪ Demands for updating and opportunities for upgrading and ongoing improvement 	<ul style="list-style-type: none"> ▪ A flexible framework designed along administrative rather than judicial lines. ▪ A continuum of tenure rather than just individual ownership ▪ Flexible recordation rather than only one register ▪ Ensuring gender equity for land and property rights. 	<ul style="list-style-type: none"> ▪ Good land governance rather than bureaucratic barriers ▪ Holistic institutional framework rather than sectorial siloes ▪ Flexible IT approach rather than high-end technology solutions ▪ Transparent land information with easy and affordable access for all

December 2015: Special Section LADM in LUP



April 2016: UN-GGIM HLF Addis Ababa Declaration

- Addis Ababa Declaration
- support to the development of **FFP LA** and geospatial information
- particularly in developing countries
- formal, informal and customary people to land relationships
- political awareness has to be advocated and increased
- progress needs to be measured
- standards need to be used – **LADM** is recognised here
- statistical/geospatial data to be further integrated

http://ggim.un.org/docs/meetings/4th%20HLF/Addis%20Declaration%20Final%2022Apr2016_rev.pdf



UN-GGIM | United Nations Committee of Experts on
Global Geospatial Information Management

FOURTH HIGH LEVEL FORUM ON UN GLOBAL GEOSPATIAL INFORMATION MANAGEMENT

Addis Ababa Declaration Geospatial Information Management Towards Good Land Governance for the 2030 Agenda

- affirm the importance of good land administration and management as the pillar of good governance and efficient government to address the challenges and opportunities for the 2030 Agenda specifically supporting the development of **fit-for-purpose land administration** and geospatial information, particularly in developing countries



**Addis Ababa Declaration
Geospatial Information Management Towards Good Land
Governance
for the 2030 Agenda**

- develop and agree on a set of fundamental geospatial information elements for land governance as a subset of the UN-GGIM fundamental data themes aligned with the SDG global indicator framework, taking into account the **ISO 19152 Land Administration Domain Model** and progress in multi-dimensional cadastre and city models;



April 2016: UN Expert Group on Land Administration and Land Management

- Chairs: Kees de Zeeuw and Mahashe Chaka
- FIG is represented
- Objectives:
 - Play a leading role at the policy level by raising political awareness and highlighting the importance to decision makers of the need for timely and fit for purpose land administration and management
 - Encourage the use of geospatial information tools and systems to improve the legal certainty of all citizens in the world with respect to the registration of the relation between people and land
- http://ggim.un.org/UN_EG_LAM.html



June 2016: OGC Land Administration DWG

- Pre-Conference Workshop World Bank in Washington
- Technical and Planning Committee Meeting - Dublin
- Domain Working Group LA in OGC
- <http://www.opengeospatial.org/projects/groups/landadmin>

OGC Land Administration DWG



[About](#) ▾
 [Standards](#) ▾
 [Innovation](#) ▾
 [News & Events](#) ▾
 [Membership](#) ▾
 [Resources](#) ▾

Land Administration DWG

Chair(s):

No Chairs Identified

Group Charter:

[Download Charter document](#)

Group Description:

1. Introduction and Problem Statement

This Domain Working Group (DWG) charter defines the role for OGC activities related to land administration. Worldwide, effective and efficient land administration is an ongoing concern, inhibiting economic growth and property tenure. Only 40 countries around the world have mature land information systems. Of the developing nations, most have 10% or less of their land in formal systems. In many nations, land administration systems are either non-existent or manual paper-based or semi-automated systems subject to limited public access. All of these approaches are at significant risk of data loss and failure due to disasters and lack of interoperability. The charter members of this DWG seek to identify enabling standards and best practices to guide countries in a programmatic way to establish more cost effective, efficient and interoperable land administration capability, to upgrade current manual to semi-automated processes, and to suggest solutions that are more automated and flexible to new data sources technologies. These challenges are faced today in countries considered as "developing" as well as those designated as Official Development Assistance (ODA) recipients.

The key to beneficial use of land administration data by all stakeholders is the ability of land administration frameworks to support the regulatory and policy environments that are often unique to individual jurisdictions and nations.

OGC LA Domain Working Group

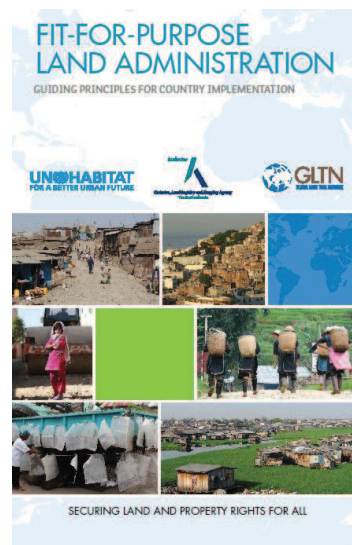
The LandAdmin DWG will work closely with the LandInfra DWG and SWG to identify existing standardization efforts underway in the OGC that reference Land Administration concepts to work toward interoperability with LandInfra standards. In addition to engaging OGC membership, the DWG will leverage OGC's formal alliance partnerships and liaisons with other associations and standards development organizations (e.g. ISO/TC 211, Royal Institute of Chartered Surveyors (RICS), World Wide Web Consortium (W3C), OASIS, [International Federation of Surveyors \(FIG\)](#), and The Global Land Tool Network (GLTN)) to address interoperability issues that span the land administration community of practice, geospatial systems, and the broader IT environment. Examples include [linkages with ISO TC 211 regarding the LADM \(Land Administration Domain Model, ISO 19152:2012\)](#) standard as well as those Standards Development Organizations (SDOs) responsible for IT standards related to topics such as security, web and mobile services. Further, this DWG will be open for participation by any interested organizations and individuals.

May 2016: FIG Working Week Christchurch

Launch FFP Guiding principles



The authors: Stig Enemark, Robin McLaren and Chrit Lemmen



August 2016: Special Edition GIM International FFP



New Publication: Fit-for-purpose Land Administration

Guiding Principles for Country Implementation



Open Standards Developed
for **Procurement and
Implementation** of Land
Administration Systems

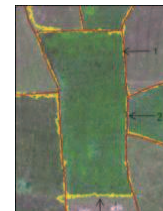
Apps for Land Administration

Enabling Global
Land Tenure Security Using
High-resolution Imagery

Towards Automated
Detection of **Visual
Cadastral Boundaries**

FIT-FOR-PURPOSE APPROACHES ARE POSSIBLE BASED ON INSAR TECHNOLOGIES

Airborne Dual-band Radar for Cadastre



Mobile GIS Proven to
Transform Land
Administration

Geospatial Information
Management Towards
Good Land Governance

November 2016 Land Consolidation Symposium

The poster for the 'Symposium on Land Consolidation and Land Readjustment for Sustainable Development' (9 to 11 November 2016 | Apeldoorn | The Netherlands) features a navigation bar with links for HOME, PROGRAMME, REGISTRATION, LOCATION, ORGANISATION, and CONTACT. The main title is prominently displayed above a scenic landscape image. Below the title, a text box explains the symposium's focus on addressing land distribution issues and promoting sustainable development. To the right, a 'REGISTRATION' box includes a laptop icon and a 'REGISTER PROGRAMME' button. At the bottom, there are three smaller images labeled 'IMPORTANT DATES', 'PROGRAMME', and 'CONTACT'. The footer contains logos for FAO, IFDC, ICRISAT, and the Food and Agriculture Organization of the United Nations, along with a 'Supported by' section featuring the GAIN logo.

March 2017



**Land and Poverty Conference 2017:
Responsible Land Governance—
Towards an Evidence Based Approach
20 – 24 March 2017**

March 2017



**Land and Poverty Conference 2017:
Responsible Land Governance—
Towards an Evidence Based Approach
20 – 24 March 2017**



**Technical and Planning Committee Meeting –
Delft, The Netherlands
20 – 24 March 2017**

Planning....



**Land Administration
Expert group meeting –
Delft, The Netherlands
14 – 15 March 2017**



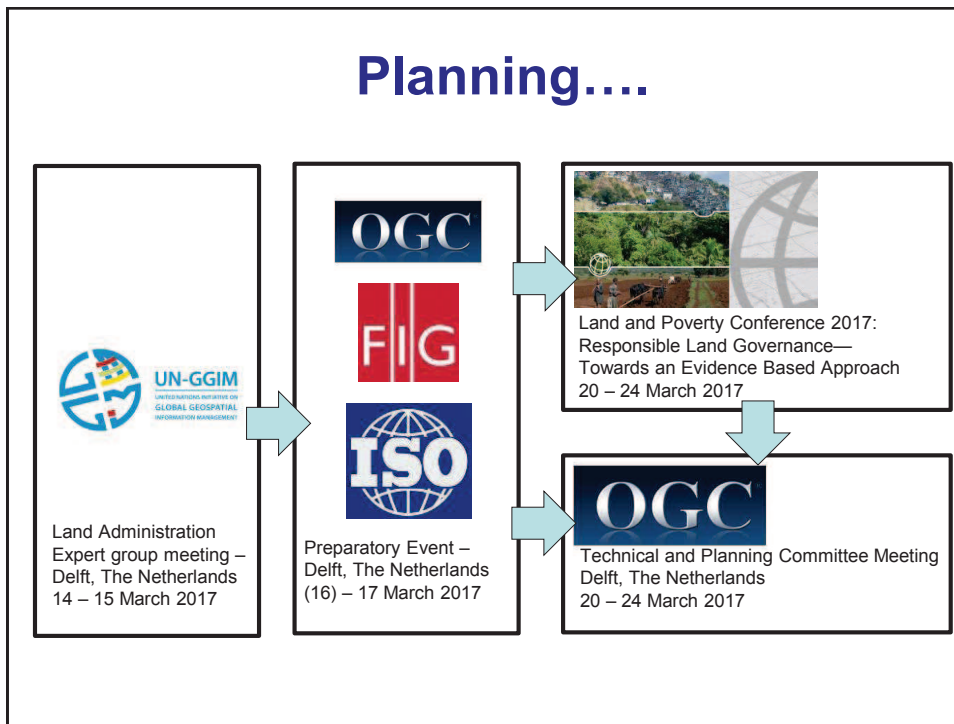
**Preparatory Event –
Delft, The Netherlands
(16) – 17 March 2017**



**Land and Poverty Conference 2017:
Responsible Land Governance—
Towards an Evidence Based Approach
20 – 24 March 2017**



**Technical and Planning Committee Meeting
Delft, The Netherlands
20 – 24 March 2017**



Land Administration Devices

















Logistics



Thank You!

