Working Group 3
Land Administration

STATUS REPORT
2006-2009

Prof Ian Williamson (Chair)

Mr Ahmad Fauzi Nordin (Vice Chair)

Assoc. Prof Abbas Rajabifard (Vice Chair)

18th UNRCC-AP Conference

Bangkok

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Working Group 3

- In 2001 titled "Cadastre"
- In 2006 changed to "Spatially enabled government"
- In 2008 changed to "Land administration"
- In 2009 proposed to change back to "Spatially enabled government" due to challenges of incorporating a mainstream land administration focus in PCGIAP and UNRCC-AP

Background on WG3

- Current team and focus since 2001
  - Ian Williamson (Australia)
  - Ahmad Fauzi Nordin (Malaysia)
  - Abbas Rajabifard (Australia)
- Abbas and myself retire at this meeting with a new team taking over
- The last eight years has been very active with symposia, workshops, projects and resolutions

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Major developments since 2001

- Benchmarking and best practice in cadastre and land administration
- Marine administration and cadastre
- Integration of built and natural environmental data
- Spatially enabling government
- Land administration forums and exchange of experiences
- Capacity building and training
- Dedicated web sites and publications

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Key development

- Over the last decade there has been a growing interest in land administration, cadastre and large scale mapping as part of SDI – WG3 symposia have attracted up to 30+ countries and 400 delegates

- In one sense this has paralleled the scaling down and changing focus of national mapping agencies that have traditionally focused on small and medium scale mapping

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Key activities undertaken since 17th UNRCC-AP Conference 2006

in Bangkok, Thailand

Key activities undertaken since 17th UNRCC-AP in Bangkok, Thailand 2006

- As part of its 2006-2009 workplan, and
- In response to Resolution 3 & Resolution 4 (SDI to support spatially enabled Government) of the 17th UNRCC-AP, Bangkok, Thailand.

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Key activities undertaken since 17th UNRCC-AP Conference 2006 in Bangkok, Thailand

Activity 1. Sharing of land administration experiences in the Asia and Pacific Region

Activity 2. 2nd Land Administration Forum on Trends and Issues in Asia-Pacific
   August 2008, Malaysia

Activity 3. 3rd Land Administration Forum for Asia-Pacific Region,
   May 2009, Iran

Activity 4. Integration of Built and Natural environmental datasets within National SDIs

Activity 5. Spatially Enabled Government (2006-2008)

Activity 6. International Workshop on "Spatial Enablement of Government and NSDI – Policy implications", June 2007 Korea

Activity 7. Spatially Enabling Government Conference, Canberra, Australia, 2007

Activity 8. GSDI Association and Conferences

Activity 9. SDI Newsletter for Asia and the Pacific

Activity 10. Maintain Cadastral Template Project with FIG

International Seminar on "Land administration trends and issues in the Asia and Pacific Region", KL, Malaysia 2008

As part of the WG3 workplan, WG3 together with

FAO, Malaysian Government, FIG, GSDI, Coordinates professional magazine (as media partner) and Centre for SDIs and Land Administration, University of Melbourne,

held a seminar from 19-20 August and discussed land administration issues and possibility of **establishing an annual forum** under the UN in the Asia and Pacific region.

150+ people from **30** countries and **5** international organisations participated.

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Seminar Aims and Objectives

The Seminar had two aims:

First, to share land administration experiences in the Asia and Pacific region with a focus on:

– access to land and security of tenure,

– building land administration systems,

– the role of land administration in supporting sustainable development,

– the promotion of effective land markets,

– poverty reduction,

– protection of vulnerable groups,

– e-land administration,

– land registration,

– cadastral surveying and mapping, and others

Seminar Aims and Objectives

Second, to discuss the objectives and focus proposed by the Mongolian Conference and Round Table in June, 2007 with a view to preparing a proposal and/or strategy to go to the appropriate UN agencies and the PCGIAP for an **annual land administration forum in the Asia and Pacific region**.

It was planned to have a proposal and resolution put before the UN Cartographic Conference for Asia and the Pacific in Bangkok in 2009.

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Outcomes

- An annual meeting on land administration in the region is desirable for senior officials to share experiences, develop best practice and build networks
- Must recognise the diversity of region however there are common aspirations
  - Developed
  - Developing industrial
  - Developing
  - Pacific island
- Thematic or regional focus desirable

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Options for a Land Administration Forum

- PCGIAP continue to support through WG3 and build up annual meetings and focus with support of UN (eg FAO, World Bank), donors (such AusAID, GTZ) and UNECE WPLA mentoring and collaboration with FIG, GSDI and others

- Business as usual

- Move to UN ESCAP
  - Important to remain one organisation and partner with PCGIAP

- NOTE - Plea by UNECE not to separate national mapping and land administration activities in the region – have a structure that invites each to UN meetings on equal terms

Next steps agreed at Malaysian conference 2008

1. Seek support for annual land administration forum by PCGIAP resolution (agreed at PCGIAP in China)

2. PCGIAP to consider how best to ensure land administration agencies feel part of the UN/PCGIAP family

3. Seek support of PCGIAP for a land administration forum in Iran 2009 prior to UNRCC in Bangkok 24-26 May, 2009 (the week after the EB, China) –theme "Re-engineering the cadastre to support e-government"

4. Start process of ensuring strong leadership of WG3 post 2009

5. Advise the UN of the progress of the discussions to have an annual land administration forum

Resolutions

Following are the resolutions agreed during the 14th PCGIAP plenary on the 22nd August, 2008 that were agreed to be put to the UNRCC for Asia and the Pacific in Bangkok in October, 2009.

Resolutions

- Rename WG3 "**Land Administration**" with a mandate to consider land administration (land policy, land registration, cadastre, land markets) issues, spatially enabling government and their joint role in supporting sustainable development in the context of SDI.

- PCGIAP supports an annual land administration forum and related activities focusing on land administration issues, challenges and implementation in the Asia and Pacific region.

- WG3 will facilitate the annual land administration forum and any other related activities and will liaise with the respective agencies in the Asia and Pacific region through WG3 in the pursuit of this objective

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3rd Land Administration Forum "*Re-Engineering the Cadastre to Support e-Government*",

24-26 May 2009 – Tehran, Iran

As part of the WG3 activities, PCGIAP together with Islamic Republic of Iran's Deeds and Properties Registration Organization, FIG, GSDI and the Centre for SDIs and Land Administration, University of Melbourne, organized a **three days Forum in Tehran** to discuss land administration issues and the role of cadastre to support e-government in the Asia and Pacific region.

Over 400 people from 17 countries and 4 international organisations attended the forum. The objectives of the forum in Tehran were:

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Resolutions

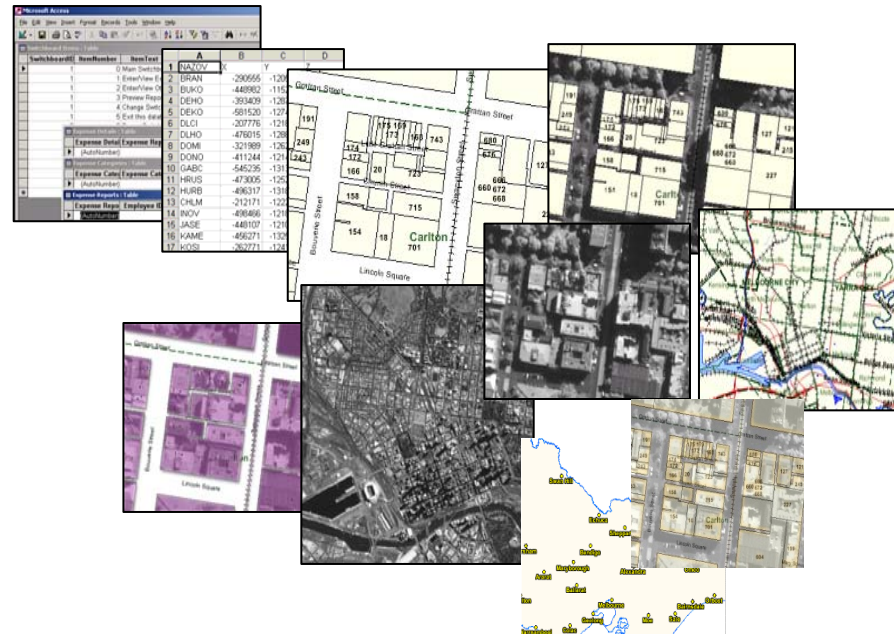Resolutions to be taken to PCGIAP to support a resolution to the UNRCC-AP, October, 2009.

Resolutions

- to support the resolution of the 14th PCGIAP to have an annual forum to discuss land administration issues, best practise and experiences in the Asia and the Pacific region.

- to propose that process re-engineering as part of an ICT strategy directed at land administration, cadastre and SDI and spatial enabled government and society be included in any strategies to improve land administration systems and also in the future workplan of PCGIAP-WG3 and land administration forums.

Tehran Declaration on Land Administration to Support Sustainable Land Markets and e-Government

Integration of Built and Natural environmental datasets within National SDIs

The aim of the project was to better understand and describe the technical, jurisdictional, institutional, legal and land policy perspective surrounding the two foundation datasets (cadastral and topographic) in a National SDI.

Data Integration project - Activities and Outcomes

- **Major Activities**
  - International Case Studies
  - International Workshop on Data Integration as part of the 17th UNRCC-AP, 2006
  - Pilot study of Geo-web Service Integration
  - Development of a data integration framework
  - Development of a web-based system using the data integration framework to facilitate data interogrability test and data integration.
  - Publication Strategy
- **Spatial data integration validation tool**
- **Spatial data integration tool**
- **Spatial data integration guideline**
- **Technical and policy reports**
- **Publications**
  - 5 international papers
  - 2 Journal papers
  - 2 book chapters
  - Project website

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PCGIAP Working Group 3
Research Project
**Integration of Built and Natural Environmental Datasets
within National SDI Initiatives**

Spatial Data Integration Validation Tool
Specification and User Guide

August 2008

Centre for Spatial Data Infrastructures and Land Administration
Department of Geomatics, University of Melbourne

Integration of Built and Natural Environmental Data

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Case Studies

Publications

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UNRCC-AP & PCGIAP International Workshop on Data Integration

ARC Linkage Project – the Integration of Built and Natural Environmental Datasets in National Spatial Data Infrastructure Initiatives

This project is an Australian Research Council Linkage Project involving researchers from the **Centre for Spatial Data Infrastructure and Land Administration** at the University of Melbourne and three industry partners, as listed below. The project also involves collaboration with **Working Group 3 (Cadastre)** of the UN supported Permanent Committee for GIS Infrastructure for Asia Pacific (PCGIAP), which helps to involve seven different countries in the project.

Project Partners
Project Duration
Personnel
Project Overview
Project Background

Project Partners

Victoria
The Place To Be

DSE, Victoria

Department of Lands
Reliable from the ground up

Department of Lands, NSW

Australian Government
Geoscience Australia

Geoscience Australia

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Spatially Enabled Government (2006-2008)

WG3 re-named in 2006 "Spatially enabled government" and focused on the development of spatially enabled government. A new vision and objectives for its future direction and its activities was undertaken, which focused on the concept of spatially enabling government. This includes work on:

– Concepts and principles of spatially enabled government
– Design requirements of spatially enabled government
– Issues associated in the development of spatially enabled government including: Institutional; Technical; Policy and Socio-economic
– Relationship between SDI and LA (Cadastre) to support spatially enabled government
– Capacity building for spatially enabled government.

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International Workshop on "Spatial Enablement of Government and NSDI – Policy implications", June 2007, Seoul Korea

- As part of the WG3 workplan for 2007-09, an international workshop was conducted on the 12 June 2007 on the '*Spatial Enablement of Government*' in collaboration with the GSDI Association.

- **125 people** from **13** countries and **2** international organisations attended the workshop.

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President of the GSDI Association

- WG3-Vice Chair, Prof Abbas Rajabifard was elected **President** of the GSDI Association at GSDI 11 Conference and Board meeting in Rotterdam in June 2009.

- This is an important appointment for PCGIAP to develop stronger links with the international SDI community.

- Since the PCGIAP is the key regional forum engaged in SDI development, this also provides an opportunity for PCGIAP to become a full member of GSDI Association and a member of its Board in order to contribute more and stronger to the strategic direction of SDI development worldwide.

- This membership will be based on the in-kind contribution of PCGIAP Committee through its members.

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Joint PCGIAP/GSDI-12 conference

- Another key opportunity arising from this appointment is the joint PCGIAP/GSDI-12 conference which will be held in Singapore in 2010 during Prof Rajabifard's presidency.

- As a result of this and the full support received from the PCGIAP-Executive Board meeting in Canberra, in April 2008, the 16th PCGIAP meeting will be conducted jointly with the **GSDI 12 Conference** in Asia-pacific region and Singapore government to host this joint event in Oct. 2010 and the initial preparation of this joint event is well underway.

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SDI Asia-Pacific Newsletter

- Following the recent 10th GSDI conference, the Centre for SDIs and Land Administration at Melbourne University, through the WG3-Vice Chair, agreed to facilitate the production of **Asia-Pacific Newsletter** and to assist in establishing permanent arrangements for newsletter production.

- The re-launch of this important SDI publication offers an excellent opportunity to re-vitalise SDI information exchange in Asia-Pacific region and for key actors to showcase their efforts and share their experiences with other practitioners.

Action: PCGIAP members to note developments and to use and contribute to the Newsletter to promote their SDI activities in Asia and the Pacific region.

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www.cadastraltemplate.org

PCGIAP-Working Group 3 "Cadastre"

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**The University of Melbourne
Department of Geomatics**

FIG
**FIG-Commission 7
"Cadastre and Land Management"**

Cadastral Template

A Worldwide Comparison of Cadastral Systems

Cadastral country reports based on a jointly developed PCGIAP/FIG template.
Established under UN mandate by Resolution 4 of the 16th UNRCC-AP in Okinawa, Japan in July 2003.
UN endorsement for cooperation with UN-ECE WPLA, UN-ECA CODI, and PCIDEA.

Data per Country
(last update: 7 Jun. 2004, 35 countries)

as .htm   Select a Country

as .pdf   Select a Country

Field Definitions

I. Data per Data Fields
(last update: 1 Jan. 2005, 35 countries)

Select a Field

II. Principles and Statistics
(last update: 1 Jan. 2005, 35 countries)

1.1 Cadastral Principles
2.1 Population
2.3 Parcels
2.7 Professionals

Documents
• Questionnaires for Download (English, Español, Portugues).
• Publications
• Administrative Documents
• Web Statistics

Latest Updates
• Country report of Namibia as 35th country (7 Jun. 2004)
• Country report of Venezuela (in Spanish) as 34th country (28 May 2004)
• Country report of Mexico (also in English) (26 Apr. 2004)
• Country report of Mexico (in Spanish) as 33rd country (18 Apr. 2004)
• Publication in the Hong Kong Journal of Geospatial Engineering (3 Mar. 2004)
• Questionnaires available also in Spanish and Portuguese (5 Feb. 2004)

The "Cadastral Template" has been developed by a research group at the Department of Geomatics of the University of Melbourne. It consisted of Prof. Ian Williamson, Dr. Abbas Rajabifard, and Daniel Steudler, supported by Prof. Stig Enemark from Aalborg University, Denmark.

PCGIAP-Working Group 3 "Cadastre" cooperates with FIG-Commission 7 to place the country information jointly on this website and to maintain the information during its 2003-2006 Work Plan.

For providing or updating your country data, please contact:
- for PCGIAP members: Dr. Abbas Rajabifard abbas.r@unimelb.edu.au

WG3 Future Direction and Workplan

A new strategy for WG3

- Challenge of supporting a WG in PCGIAP solely on land administration due to the national mapping focus

- Challenge of putting in place new vision for WG3 with new leadership to embrace SEG and land administration

- Discussions with President, PCGIAP and WG3 prior to the Tehran symposium in 2009 agreed to retain the name of WG3 "Spatially enabled government"(SEG) with two primary activities being SEG and land administration

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Key challenge for PCGIAP and UNRCC

- While there is a ground swell of support from countries in the region for land administration and large scale mapping activities, it is difficulty to build momentum within the UNRCC/PCGIAP structure since the constitution of PCGIAP makes the national mapping agencies the sole invited delegates to UN meetings

- How do we attract and invite the land administration, cadastral and large scale mapping agencies?
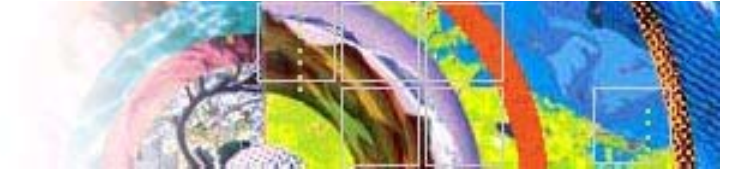
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Proposed structure of WG3 discussed in Tehran and agreed by PCGIAP Executive in Xi'an, China 2009

- Name of WG3 to remain "Spatially enabled government" (SEG)
- Australia would assume chair of WG3
- Malaysia would assume Vice-Chair responsible for spatially enabled government
- Iran would assume Vice Chair responsible for land administration and annual Land Administration Forums

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Future WG3-Workplan

No	Activities/Steps	Date
1	Facilitate and coordinate cadastral and spatially enabled government activities in Asia-Pacific region	2009-2012
2	Facilitate and coordinate land administration activities and annual Land Administration Forums in Asia-Pacific region	2009-2012
3	Maintain the joint PCGIAP-FIG Cadastral Template Project and extend the number of countries contributing	2009-2012
4	Report on outcomes of WG3 activities (including analysis of current projects, recommendations, future plan, etc.)	PCGIAP Meetings

Thank you

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Challenge for PCGIAP and UNRCC

- About 50% of national mapping agencies in region include land administration or cadastre (large scale mapping)

- Many countries in region want a dedicated focus on land administration (and large scale spatial data) such as the very successful UNECE Working party on Land Administration

- Not withstanding all the initiatives of countries in the region UNRCC and PCGIAP still focus primarily on national mapping. No formal UN mechanism to invite land administration or cadastral agencies separately from national mapping agencies

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