



3rd FIG Regional Conference for Asia and the Pacific
Jakarta, Indonesia, 3-7th October 2004

Overview on PCGIAP Activities and the Asia/Pacific Region

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For Mr. Peter Holland, PCGIAP President

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What is the PCGIAP ?

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Background

- 13th United Nations Regional Cartographic Conference for Asia and the Pacific (UNRCC-AP) held in Beijing, China in May 1994.
 - Resolution 16 "Permanent regional GIS infrastructure committee" was adopted.
- Inaugural formation meeting held in Kuala Lumpur, Malaysia on 12-14 July 1995,
 - The "Permanent Committee on GIS Infrastructure for Asia and the Pacific" (PCGIAP) was formally established.
- Membership of the Committee consists of the directorates of the national survey and mapping organizations and equivalent national agencies of the nations from Asia and the Pacific.

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Membership



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Aims

- "To maximize the economic, social and environmental benefits of geographic information in accordance with Agenda 21 by providing a forum for nations from Asia and the Pacific to:
 - cooperate in the development of a regional geographic information or spatial data infrastructure.
 - contribute to the development of the global geographic information infrastructure.
 - share experiences and consult on matters of common interest."

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Asia-Pacific SDI

- The PCGIAP believes that a spatial data infrastructure for the region is needed to support the region's economic growth, and its social and environmental objectives, backed by standards, policies and exchange network on easy access to those data.
- Key Components of APSDI
 - 1) Data exchange Networking
 - 2) Fundamental Datasets
 - 3) Legislation & Standardization
 - 4) Institutional Framework

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PERMANENT COMMITTEE ON GIS INFRASTRUCTURE FOR ASIA & THE PACIFIC

OBJECTIVE

- Define the nature of a regional geographic information infrastructure that each country in the region can contribute to in order to meet regional and global mapping and GIS requirements;
- Determine the nature of legislative and administrative procedures and orders appropriate to the acquisition and sharing of spatial data;
- Develop a regional geodetic framework, regional topographic datasets, national cadastral datasets and regional geographical names datasets as the basis for regional GIS activity;
- Document the status of key geographic datasets and key agencies in each member nation, and develop a framework for the exchange of such information;
- Prepare guidelines and strategies to assist member nations for the implementation of cadastral development to meet individual member nation needs; etc.

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PERMANENT COMMITTEE ON GIS INFRASTRUCTURE FOR ASIA & THE PACIFIC

Organizational Structure

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graph TD
    UNRCC-AP[UNRCC-AP] --> PCGIAP[PCGIAP]
    PCGIAP --> Secretariat[Secretariat]
    PCGIAP --> ExecutiveBoard[Executive Board]
    PCGIAP --> WorkingGroups[Working Groups]
    WorkingGroups --> WG1[WG1]
    WorkingGroups --> WG2[WG2]
    WorkingGroups --> WG3[WG3]
    WorkingGroups --> WG4[WG4]
    WorkingGroups --> HeadOfNMOs[Head of NMOs]
  
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PERMANENT COMMITTEE ON GIS INFRASTRUCTURE FOR ASIA & THE PACIFIC

Current Executives

President	Australia	Mr. Peter Holland
Vice President	China	Dr. Wang Chungfeng
Secretary	Japan	Mr. Akira Yaguchi
Board Members	Brunei Darussalam	Pengiran Haji Matusin Matasan
	Cook Islands	Mr. Keu Mataroa
	India	Dr. Prithvish Nag
	Iran	Mr. Gholam Reza Fallahi
	Republic of Korea	Mr. Sin In-kee
	Malaysia	Dato' Hamid bin Ali
	Philippines	Mr. Diony A Ventura
	Russian Federation	Mr. Alexander Prusakov
	Ex-officio (Chair WG1)	Dr. Pengfei Cheng, China
	Ex-officio (Chair WG3)	Prof. Ian Williamson, Australia

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PERMANENT COMMITTEE ON GIS INFRASTRUCTURE FOR ASIA & THE PACIFIC

Linkages with other organizations

- The Permanent Committee seeks to establish links with other relevant United Nations programs and international agencies such as the:
 - International Federation of Surveyors (FIG);
 - International Steering Committee for Global Mapping (ISCGM);
 - Global Spatial Data Infrastructure (GSDI)
 - Permanent Committee on Spatial Data Infrastructure for the Americas (PCIDEA)
 - International Association of Geodesy (IAG);
 - International Society of Photogrammetry and Remote sensing (ISPRS)
 - International Cartographic Association (ICA)
 - ISO/TC211
 - International Society on Digital Earth (ISDE)

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PERMANENT COMMITTEE ON GIS INFRASTRUCTURE FOR ASIA & THE PACIFIC

Cooperation with other SDI bodies

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graph TD
    NationalSDI[National SDI] --> RegionalSDI[Regional SDI]
    RegionalSDI --> GlobalSDI[Global SDI]
    subgraph GlobalSDI
        UNGIWG[UNGIWG]
        FIG[FIG]
        ISO[ISO]
        ISCGM[ISCGM]
    end
    subgraph RegionalSDI
        EUROGI[EUROGI]
        PCGIAP[PCGIAP]
        PCIDEA[PCIDEA]
    end
    Agenda21[Agenda 21] -.-> GlobalSDI
    Standardization[Standardization] -.-> GlobalSDI
  
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PERMANENT COMMITTEE ON GIS INFRASTRUCTURE FOR ASIA & THE PACIFIC

(II) Committee Meetings

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Committee Meetings

Meeting	Location	Date
13 th UNRCC-AP	Beijing, China	May 1994
1 st PCGIAP	Kuala Lumpur	July 12-14, 1995
2 nd PCGIAP	Sydney, Australia	Sept. 29-Oct. 4, 1996
14 th UNRCC-AP 3 rd PCGIAP	Bangkok, Thailand	Feb. 1-7, 1997
4 th PCGIAP	Tehran, Iran	Feb.28-March 4, 1998
5 th PCGIAP	Beijing, China	April 19-22, 1999
15 th UNRCC-AP 6 th PCGIAP	Kuala Lumpur, Malaysia	April 11-14, 2000
7 th PCGIAP	Tsukuba, Japan	April 24-27, 2001
8 th PCGIAP	Bandar Seri Begawan, Negara Brunei Darussalam	April 16-19, 2002
16 th UNRCC-AP 9 th PCGIAP	Okinawa, Japan	July 14-18, 2003
10 th PCGIAP	Bangalore, India	Jan 30-31, 2004

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16th UNRCC-AP and 9th PCGIAP Meeting

> July, 14-18, 2003 Okinawa Japan
 > About 210 representatives from 48 countries
 Heads of NMOs, United Nations, **FIG**, GSDI, ISCGM, ISDE, PCIDEA, ISPRS, ICA, ISO, IHO, ECA, JICA, OS ESRI USGS ...etc



> PCGIAP, UNRCC Reports
 > 29 Invited Speeches
 > 3 Technical Committees
 > 7 Resolutions adopted

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16th UNRCC-AP and 9th PCGIAP Meeting

Resolutions

- Asia Pacific Spatial Data Infrastructure (APSDI)
- Regional Geodesy
- Fundamental Data
- Cadastre and SDI
- Capacity Building

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10th PCGIAP Meeting



> January, 30-31, 2004 Bangalore India
 > About 70 delegates from 15 PCGIAP nations
 > Report from President, PCIDEA, SCAR EU, CIS etc....
 > Speech from ISCGM, OGC, ISO etc....
 > Working Group Sessions
 > 6 Resolutions adopted

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10th PCGIAP Meeting

Resolutions

- Borneo GIS Infrastructure Project
- Pan Asia-Pacific Datasets
- APSDI Portal
- Survey of worldwide impact assessment of clearinghouse
- SDI Activity in CIS countries
- GSDI Association

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(III) Highlights of PCGIAP Activities

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Working Groups of PCGIAP

- Working Groups are established, where required, to undertake projects in pursuit of the PCGIAP aims and objectives
 - WG 1: Regional Geodesy
 - WG 2: Fundamental Data
 - WG 3: Cadastre
 - WG 4: Institutional Strengthening

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Working Groups

Working Group 1 : Regional Geodesy
 – Responsible for the implementation of a regional, precise geodetic network and enhancement geodetic infrastructure.
Chair : China
Vice Chair : Australia, Japan

Working Group 2: Fundamental Data
 – Responsible for establishing regional fundamental datasets; mechanisms for sharing these data and fostering an understanding of the benefits in using regional fundamental data.
Chair : Iran
Vice Chair : China

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Working Groups

Working Group 3 : Cadastre
 – Responsible for facilitating discussion on marine cadastre; undertaking a study of land administration issues and facilitating a workshop analysing the status of cadastre & land administration in member countries.
Chair : Australia
Vice Chair : Malaysia

Working Group 4 : Institutional Strengthening
 – Responsible for articulation of member's GIS related development needs; creation, publication & maintenance of an education & training database; sub-regional programmes.
Chair : India
Vice Chair : Korea

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Highlights of PCGIAP Activities

- Successful regional geodetic observation campaigns to expand number of key geodetic sites in the region using GPS etc;
- Pilot project on administrative boundary data;
- Policy on Sharing Fundamental Data;
- APSDI clearinghouse Data Nodes Taskforce;
- Cadastral Template;
- PCGIAP Hainan Training base;

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GPS observation sites (WG1 : Regional Geodesy)

APRGP (Asia Pacific Regional Geodetic Project)

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APSDI Clearinghouse Search (WG2 : Fundamental Data)

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Cadastral Template (WG3 : Cadastre)



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Strategic issues

- ◆ Participation rates in the committee and its organs
- ◆ Progress on the the implementation of the APSDI
- ◆ Relationship with the United Nations
- ◆ Continuing requirements for capacity building
- ◆ Capacity to fund activities
- ◆ Emergence of new regional and global SDI initiatives, and other bodies undertaking similar work


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Strategic issues

- ◆ New global agendas such as community safety and administration of marine resources, alongside existing agendas like sustainable development
- ◆ Technological change, particularly in data acquisition, computing and communications, and interoperability
- ◆ Understanding customer and stakeholder expectations and measuring satisfaction

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Strategic objectives

- ◆ The aims of the PCGIAP and its method of operation are generally still valid. They should be subject to continuous review.
- ◆ Participation rates must improve. Innovative approaches should be tested.
- ◆ Members must want to be involved. There must be benefits to members from their participation.
- ◆ Outputs must continue to focus on the ultimate objective of the APSDI. They must be achievable.


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Strategic objectives

- ◆ The relationship with the UN must be strengthened, but not at the expense of independence of action.
- ◆ Links must continue to be forged with external bodies, to assist learning and to avoid duplication.
- ◆ Outputs of the PCGIAP must be defined and tested in consultation with stakeholders to ensure they are satisfied.

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Conclusion

PCGIAP continues to:

- ◆ be an active body for **implementing resolutions** from the UNRCC-AP,
- ◆ as a regional forum for national mapping organizations (NMO) to **promote** communication, cooperation, coordination, and collaboration in order to **support SDI** development at national, regional and global levels,
- ◆ influence decision makers, and to
- ◆ contribute to sustainable future.

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Thank You For Your Attention

***For details, visit
<http://www.pcgiap.org/>***