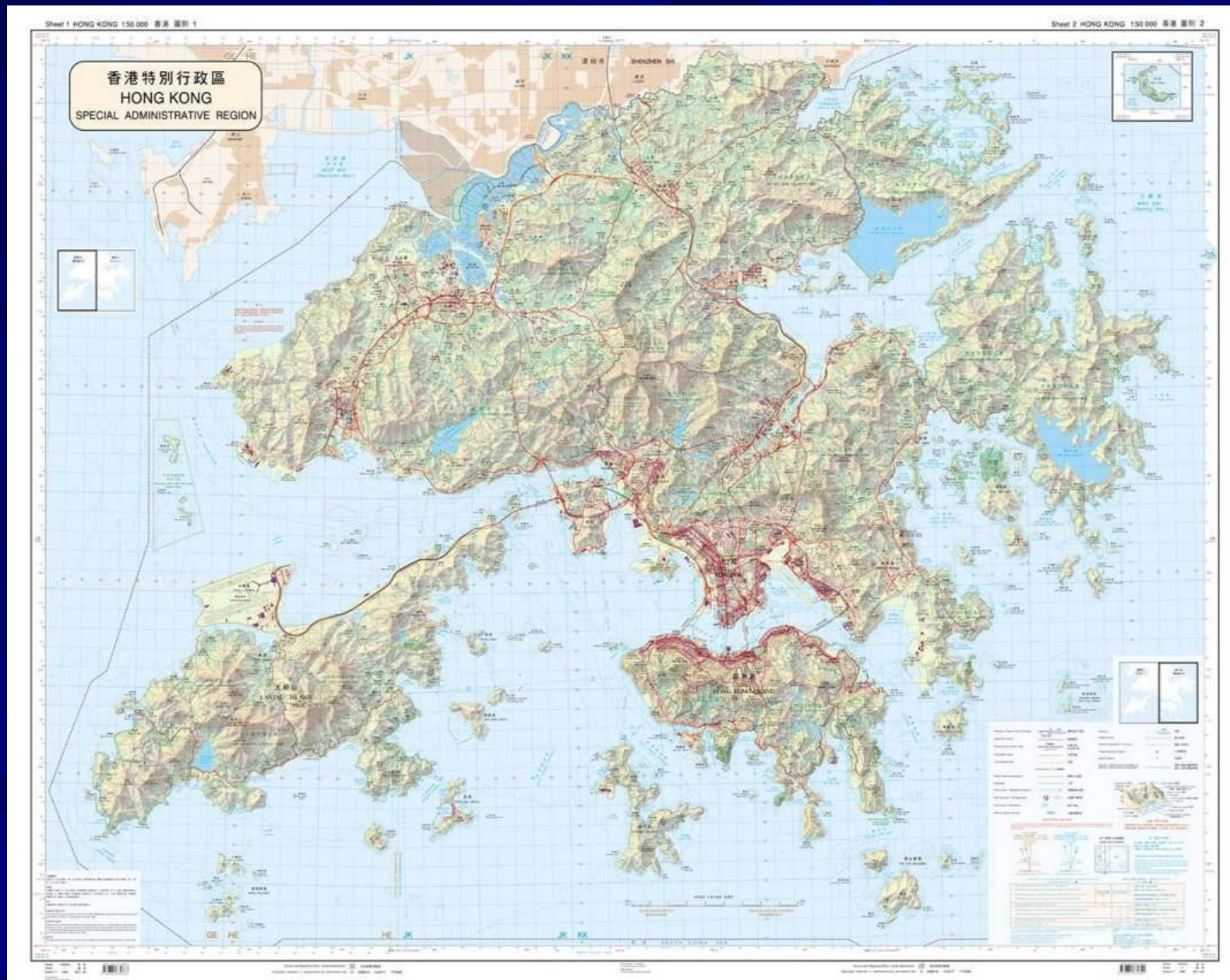


United Nations
Global Geospatial Information Management
Hangzhou Forum 2012

Sharing of Geospatial Data within Hong Kong Government

Mr. WONG Chung Hang
Deputy Director/Survey & Mapping
Lands Department

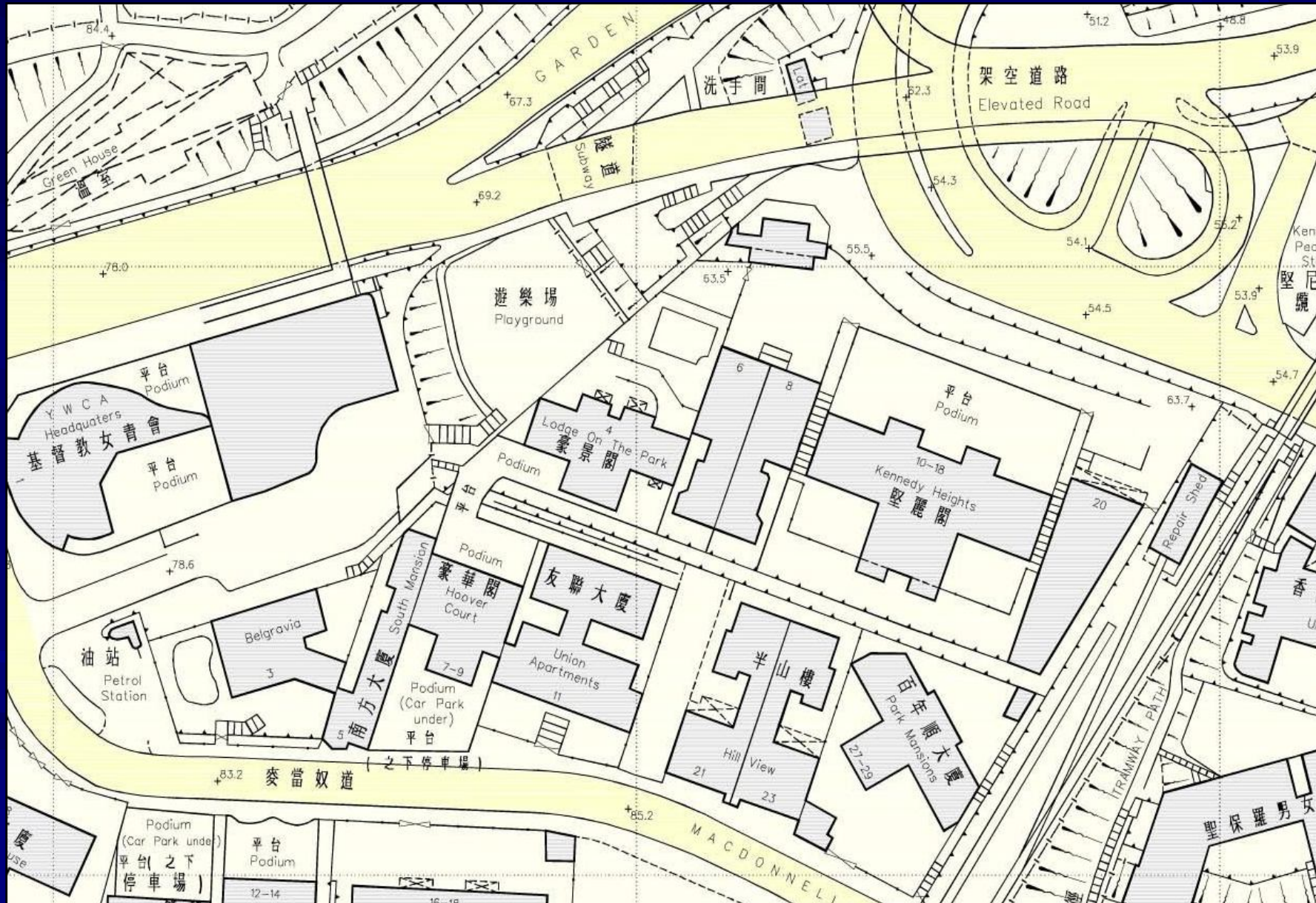
Map of Hong Kong



Geospatial Data of Lands Department

- (a) Digital Topographical Maps
- (b) Land Status Information
- (c) Aerial Photos
- (d) 3D Photo-realistic Models

1:1000 Topographical Map



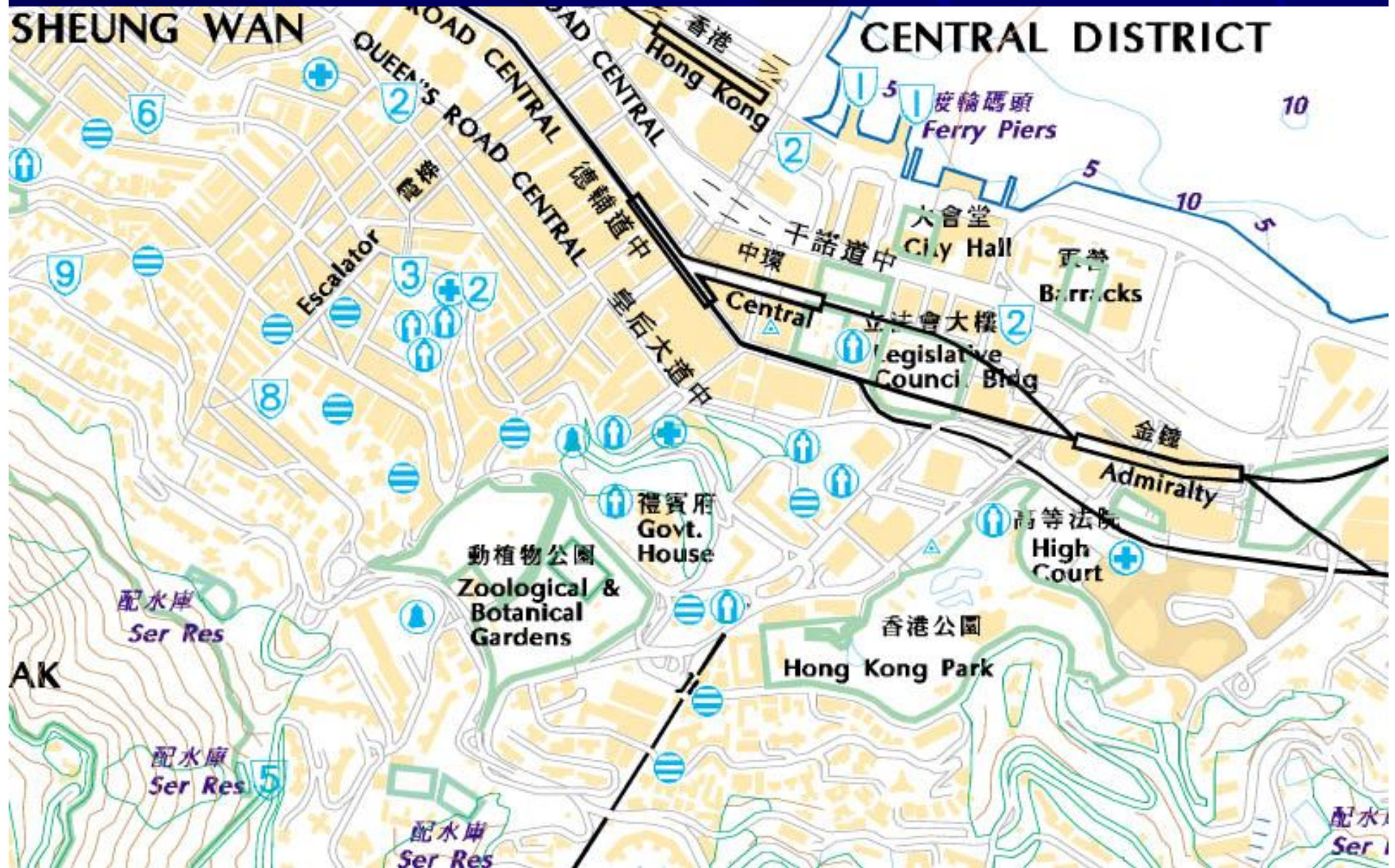
1:5000 Topographical Map



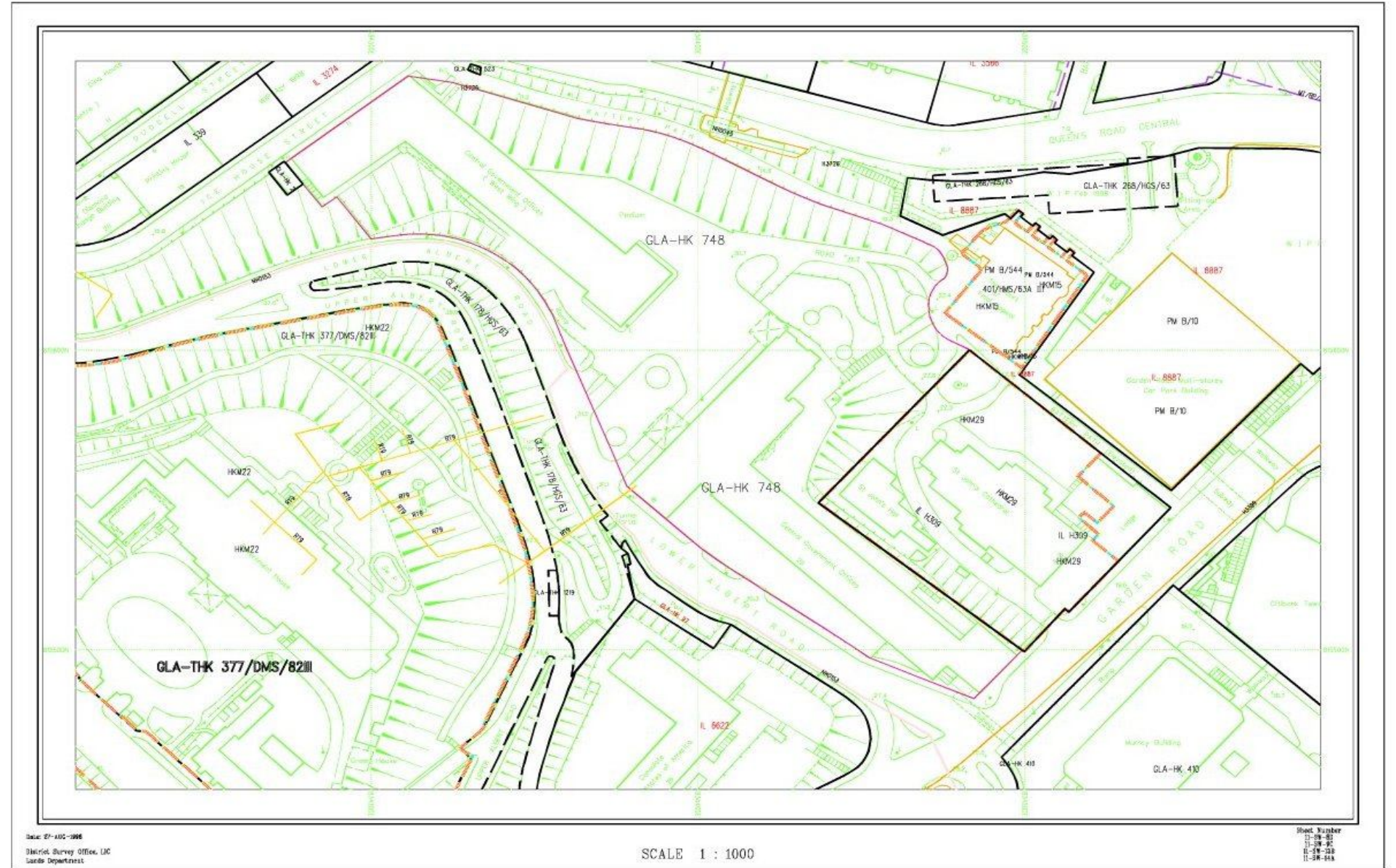
1:10000 Topographical Map



1:20000 Topographical Map



Land Status Information



SCALE 1 : 1000

Sheet Number
11-SW-83
11-SW-90
11-SW-108
11-SW-144

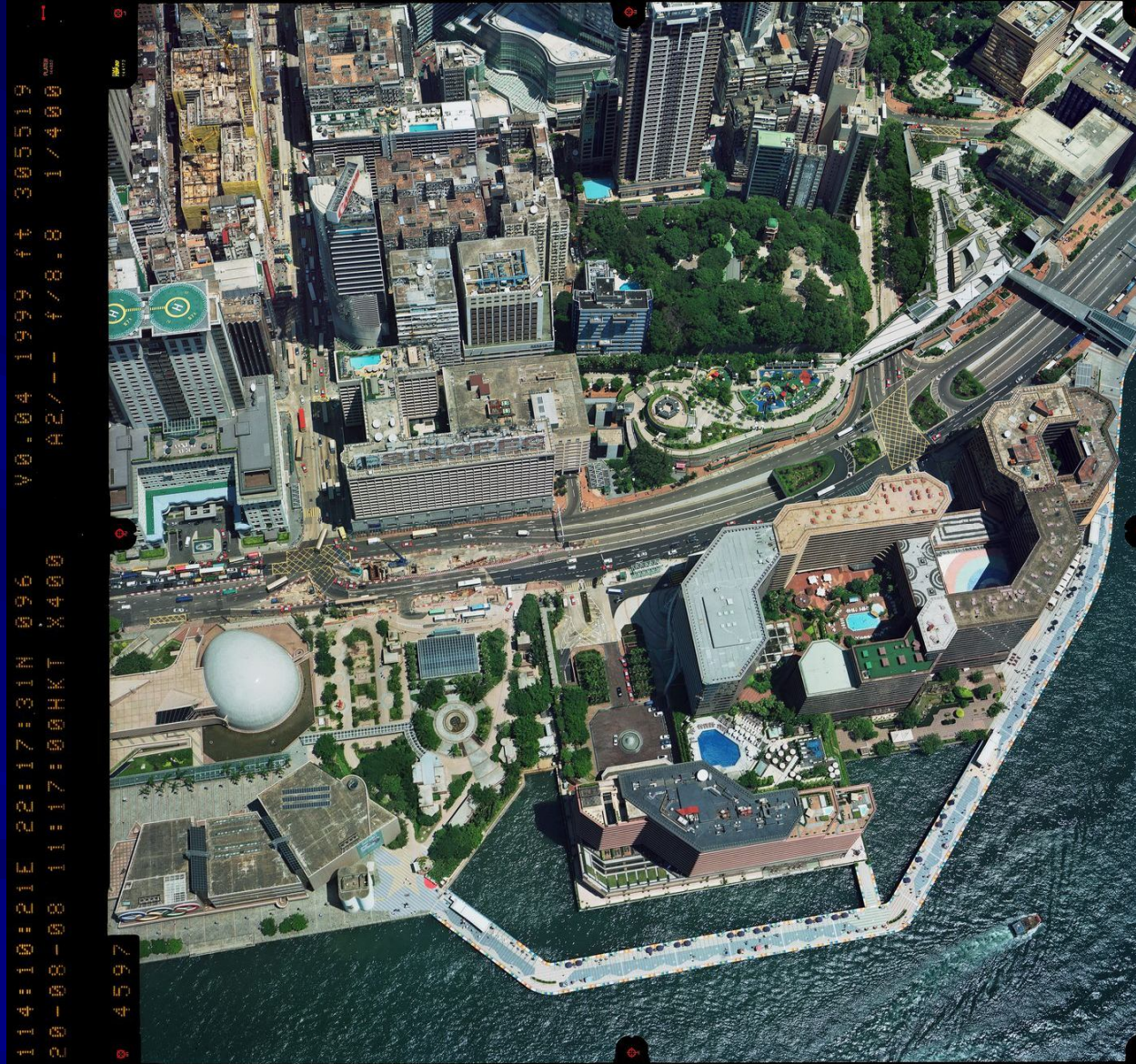
Vertical Aerial Photo



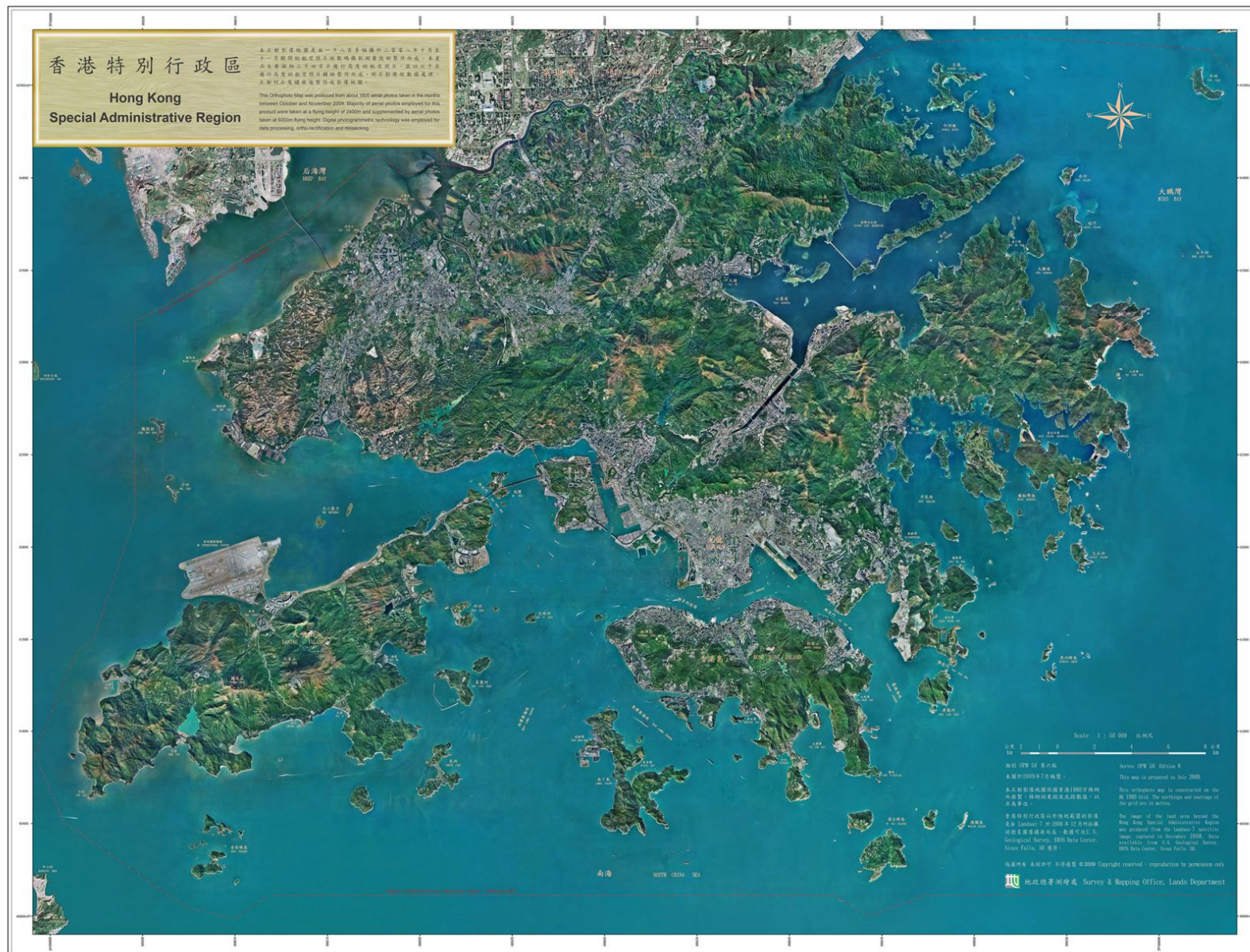
Vertical Aerial Photographs



Oblique Aerial Photograph



Digital Orthophoto



Digital Orthophotos



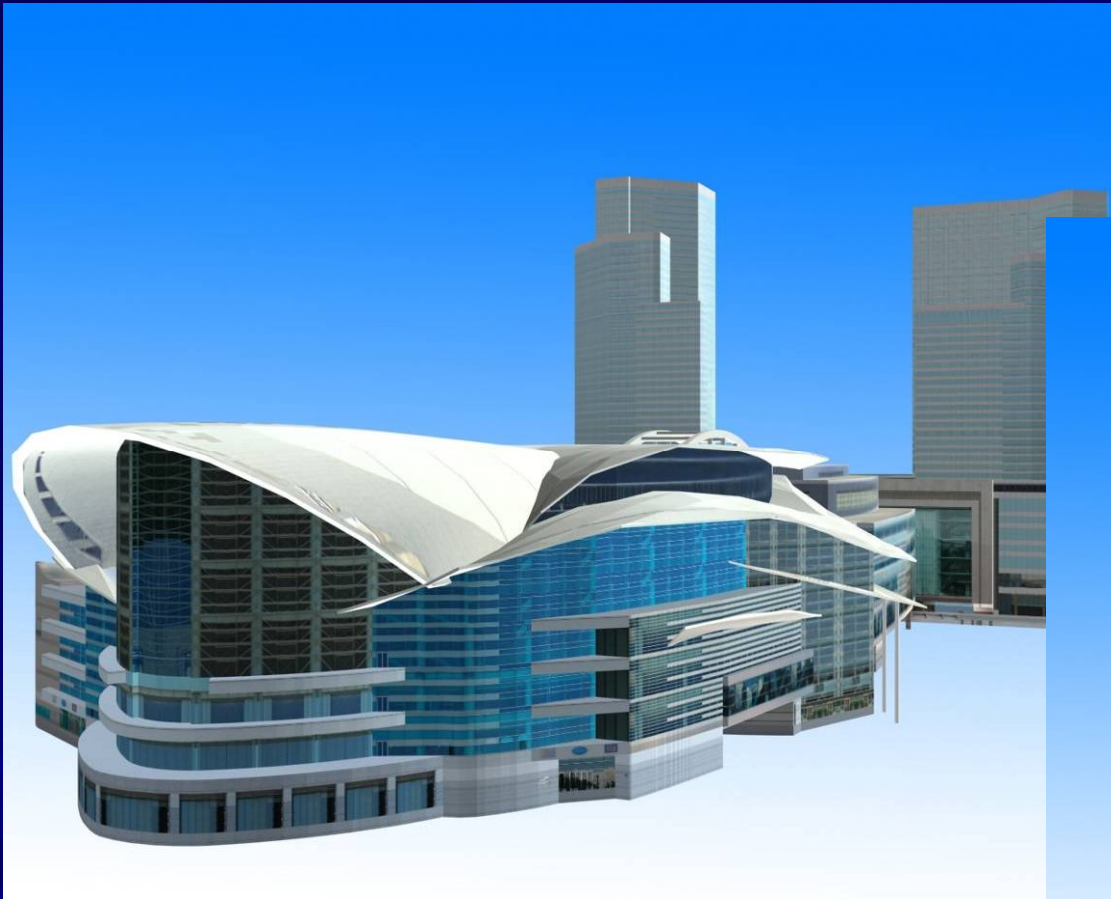
3D City Model



3D City Model



3D City Model



Geospatial Data of other Departments

Land Use Information
Outline Zoning Plans
Housing / Buildings
Slope Conditions
Transportation
Community Facilities
Population / Health
etc ...

Geo-spatial Information



地图 Maps



航空照片 Air Photo



规划 Planning



工程 Works



建筑物 Buildings



交通 Traffic



普查 Census



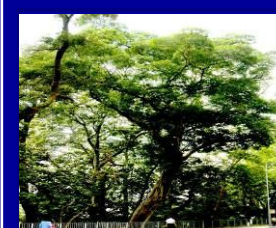
选区 Election



卫生 Hygiene



紧急 Emergency



古树 Old Trees

Difficulties in Data-sharing within Government

- Different data definitions, data formats and computer systems
- Incompatible and not readily accessible
- Data Quality issue
 1. Who is responsible for data integration?
 2. Who will be liable for inaccurate data?
- Labour intensive and time consuming in obtaining and processing spatial data

Labour intensive and time consuming
in obtaining and processing
information from different sources



Dept A

Request Information
Receive information
within a few days



Request Information
Receive information
in a week



Dept B

Request Information
Receive information
within 2-3 weeks



Dept C

Slow in
Decision making and
Crisis Management

Geospatial Information Hub (GIH)

Lands Department
Hong Kong Special Administrative Region

Geospatial Information Hub

- Effective management of our location-based information is one of the key elements for social and economic development.
- Means a need to gain access to geospatial information more readily

Geospatial Information Hub

Roles played by the Lands Department

- Join-up government departments by adopting GIS technology
- Integrate geospatial data from different departments
- Make geospatial information readily accessible within the Government
- Better information to support quick decision
- Better response in crisis management
- Better policy research and formulation
- Better service to the public

Spatial Information Management by Lands Department

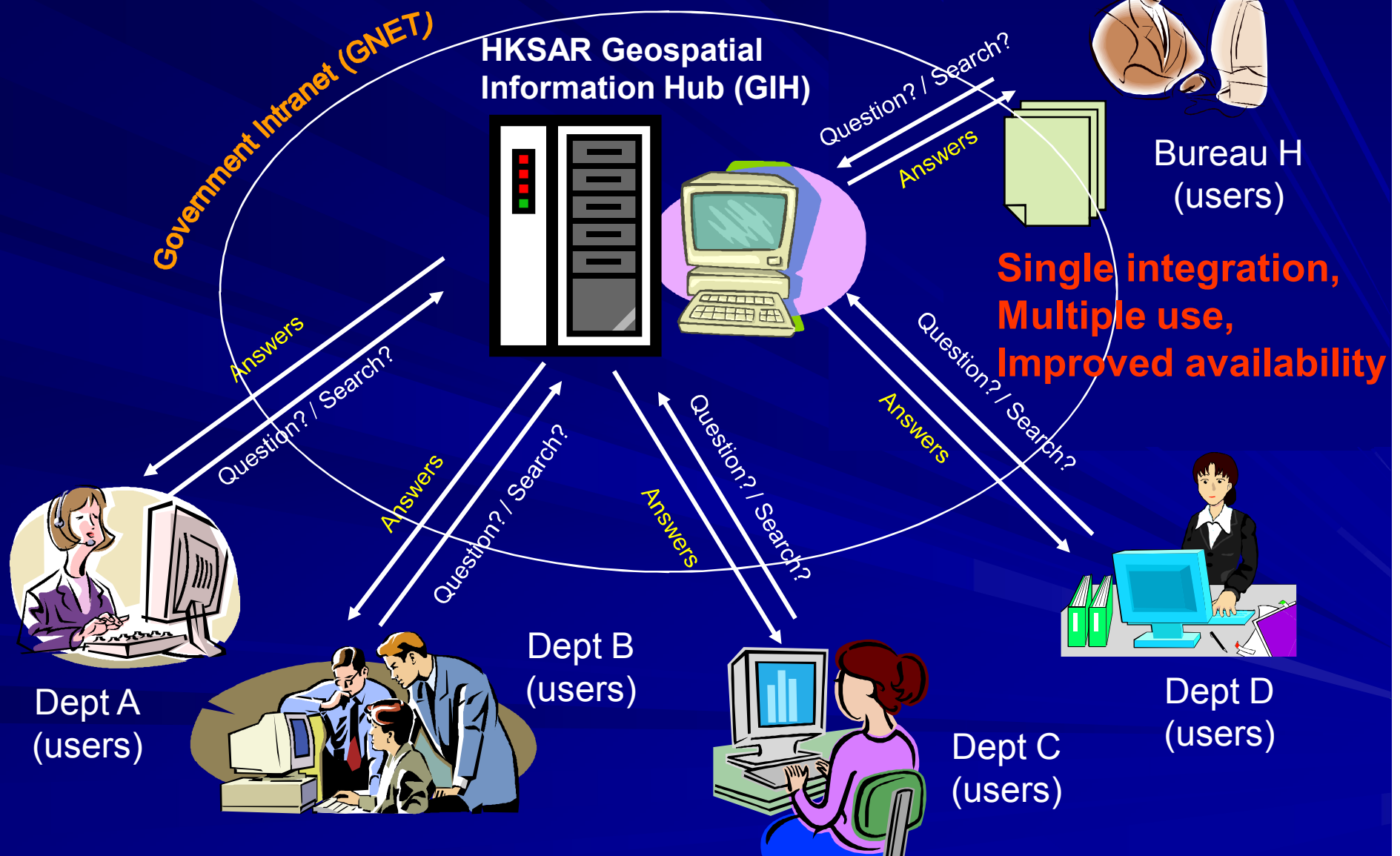
Strengths

- Multi-scale intelligent digital maps, land information and rectified aerial photographs covering the whole Hong Kong territory
- Vast amount of data collected from more than 10 government departments
- More than 40 major types of information grouped into 12 main categories
- Expertise in data conversion, integration and system development

User Needs

- Streamline daily operations through quick and easy access to other departments' geospatial information
- Web-based access to various types of geospatial information through the Government Intranet (GNET)
- Direct download accurate digital maps, aerial photos, and 3D models for spatial analysis

A New Way of Accessing Geospatial Information in Hong Kong Government



Geospatial Information Hub

- One-stop Geospatial Information Sharing Platform to support government's services to the community

Geospatial Information Hub


HKSAR Geospatial Information Hub (GIH) - Mozilla Firefox

檔案 (F) 編輯 (E) 檢視 (V) 歷史 (S) 書籤 (B) 工具 (T) 說明 (H)

HKSAR Geospatial Information Hub (GIH) +


geospatial/gih-hksar/Map.do?action=resize&width=686&height=514&screenWidth=1024

Google

 HKSAR GEOSPATIAL INFORMATION HUB (GIH 2.0)
香港特別行政區地理空間信息樞紐

輸入關鍵字

歡迎您! Cheong-wai! 登入時間: 2012/04/27 18:59 | 主頁 | English | 登出



0 6000m

一般搜尋 我的最愛 土地信息 緊急服務 斜坡維修責任 醫療衛生 照片 人口普查

[圖例](#) | [數據來源](#) | [聯絡我們](#) | [更改密碼](#) | [說明](#)

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Land Status Information

HKSAR Geospatial Information Hub (GIH) - Mozilla Firefox

檔案 (F) 編輯 (E) 檢視 (V) 歷史 (S) 書籤 (B) 工具 (T) 說明 (H)

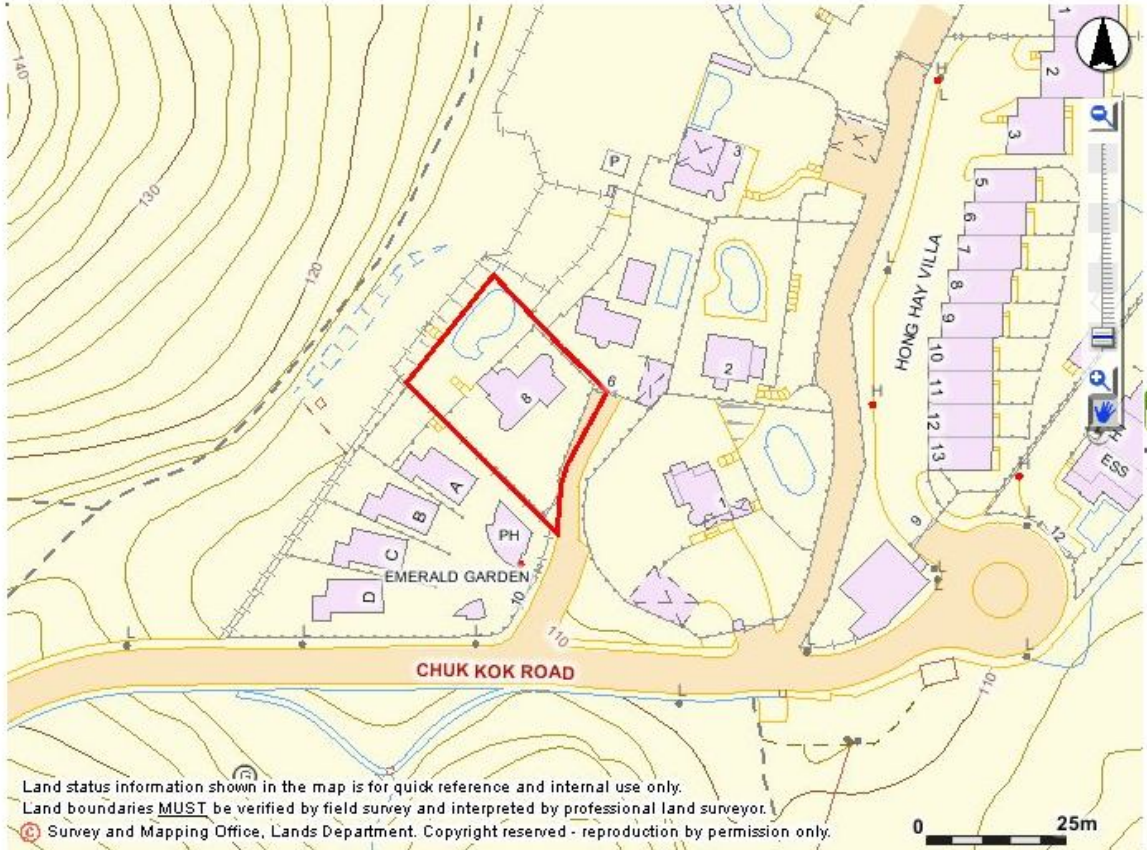
HKSAR Geospatial Information Hub (GIH) +

geospatial/gih-hksar/Map.do?action=resize&width=686&height=514&screenWidth=1024

HKSAR GEOSPATIAL INFORMATION HUB (GIH 2.0)
香港特別行政區地理空間信息樞紐

Welcome, Cheong-wai! Login at 2012/05/16 15:45 | Home | 中文 | Logout

Any Keyword...



Land status information shown in the map is for quick reference and internal use only.
Land boundaries **MUST** be verified by field survey and interpreted by professional land surveyor.
© Survey and Mapping Office, Lands Department. Copyright reserved - reproduction by permission only.

Lot

Your input was:
Lot Abbr.: DD 231 Lot No.(s): 10
To locate the result, click on the lot identifier or use the checkboxes to show multiple lots.
[Select All](#) [Clear All](#) [Zoom](#)

Search Result(s):
DD231 10

**** Important Notes ****
Only Major land status information is included. Please approach DSO to obtain a detail land status information.

[Legend](#) | [Data Source](#) | [Contact Us](#) | [Change Password](#) | [Help](#)

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HKSAR.

HKSAR Geospatial Information Hub (GIH) - Mozilla Firefox

檔案 (F) 編輯 (E) 檢視 (V) 歷史 (S) 書籤 (B) 工具 (T) 說明 (H)

HKSAR Geospatial Information Hub (GIH) +

← → + [geospatial/gih-hksar/Map.do?action=resize&width=686&height=514&screenWidth=1024](#) ☆ ▼ ↻ Google

HKSAR GEOSPATIAL INFORMATION HUB (GIH 2.0)
香港特別行政區地理空間信息樞紐

Any Keyword...

Welcome, Cheong-wai! Login at 2012/05/16 16:03 | [Home](#) | [中文](#) | [Logout](#)

Layer On / Off

To use:

1. Check the box of a particular layer.
2. Click the "Refresh" to regenerate map with the settings. (Please note that some features only shown at zoom level 6 - 7.)

Land Records Information

Lot/GLA:	<input checked="" type="checkbox"/>
Licence/STT/STW:	<input type="checkbox"/>
Vesting Order:	<input type="checkbox"/>
Reserved Site:	<input type="checkbox"/>

**** Important Notes ****
The land records information shown on map is for reference only and may not be up-to-date. For the latest and complete land records information, you are advised to approach relevant District Survey

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Land Boundary Information

HKSAR Geospatial Information Hub (GIH) - Mozilla Firefox

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HKSAR Geospatial Information Hub (GIH) +


geospatial/gih-hksar/Map.do?action=resize&width=686&height=514&screenWidth=1024

Google

HKSAR GEOSPATIAL INFORMATION HUB (GIH 2.0)
香港特別行政區地理空間信息樞紐

輸入關鍵字

歡迎您! Cheong-wai! 登入時間: 2012/05/16 17:58 | 主頁 | English | 登出



Map showing land boundaries and buildings in the North Point area. Key locations include: 北角政府合署 (North Point Government Offices), 北角消防局 (North Point Fire Station), 北角警署 (North Point Police Station), 消防事務處大廈 (Fire Services Department Building), 東祥工廠大廈 (Tung Cheong Industrial Building), 泓富產業千禧廣場 (Hung Fook Industrial Millennium Plaza), 科滙中心 (Kowloon Centre), 東區走廊 (East District Corridor), 渣華道 (Zai Wah Road), 海堤 (Seaside), 排水口 (Drainage Outlet), 健康東街 (Healthy East Street).

地址: 渣華道 333 號

[建築物裡的設施](#)

屋苑/場地

備註:
這裡顯示的範圍是取自基本地圖製作系統數據, 地界資料未必與歸屬令/土地授予令地界相同。

Name: [North Point Government Offices](#)

名稱: [北角政府合署](#)

地段
(來源自 DSD 數據, 版本為 12/05/2012)

地段編號: [GLA-HK 836](#)

分類: 政府撥地

狀態: [Surveyed and Granted/Allocated](#)

契與/撥地: Government Property

給: Agency

生效日期: 01-12-1995

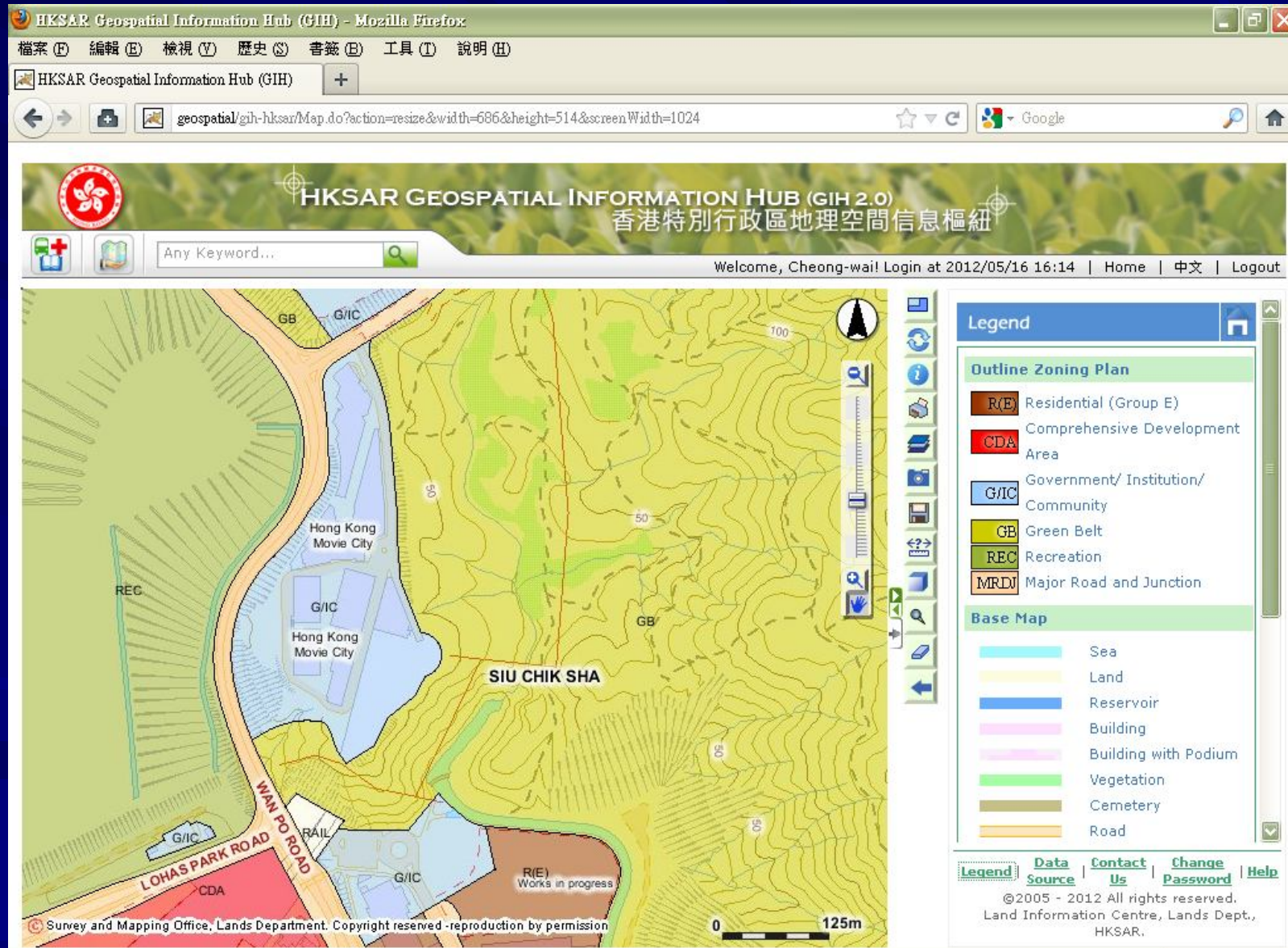
約滿日期: 沒有提供

[圖例](#) | [數據來源](#) | [聯絡我們](#) | [更改密碼](#) | [說明](#)

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地圖顯示的土地類別資料只作參考及政府內部使用。
土地界線必須透過實地測量的予以核實及專業土地測量師予以詮釋。
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Town Planning Outline Zoning Plan Information



[illegible]

Village Representative Election Information

HKSAR Geospatial Information Hub (GIH) - Microsoft Internet Explorer 是由 SMO 提供

http://geospatial/gih-hksar/Map.do?action=resize&width=686&height=486&screenWidth=1024

檔案(F) 編輯(E) 檢視(V) 我的最愛(A) 工具(T) 說明(H)

★ 我的最愛 HKSAR Geospatial Information Hub (GIH)

HKSAR GEOSPATIAL INFORMATION HUB (GIH 2.0)
香港特別行政區地理空間信息樞紐

歡迎您! Cheong-wai! 登入時間: 2012/05/16 16:57 | 主頁 | English | 登出

display boundary.
2. Check the Annotation box for display the DCCA name/Village name.
3. Press to rearrange the display sequence of the data.
4. Press [更新].

顯示區界	顯示註釋	區界圖層類別	圖層移上/下
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	鄉村居民代表選舉 2007	
<input type="checkbox"/>	<input type="checkbox"/>	區議會選區 2007	
<input type="checkbox"/>	<input type="checkbox"/>	區議會選區 2003	

圖例 | 數據來源 | 聯絡我們 | 更改密碼 | 說明

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病毒資料庫已成功更新為版本 7141 (20120516)。

826767.4 Northing 831870.3 Easting

近端內部網路

Heritage Sites Information

HKSAR Geospatial Information Hub (GIH) - Mozilla Firefox

檔案 (F) 編輯 (E) 檢視 (V) 歷史 (S) 書籤 (B) 工具 (T) 說明 (H)

HKSAR Geospatial Information Hub (GIH) +

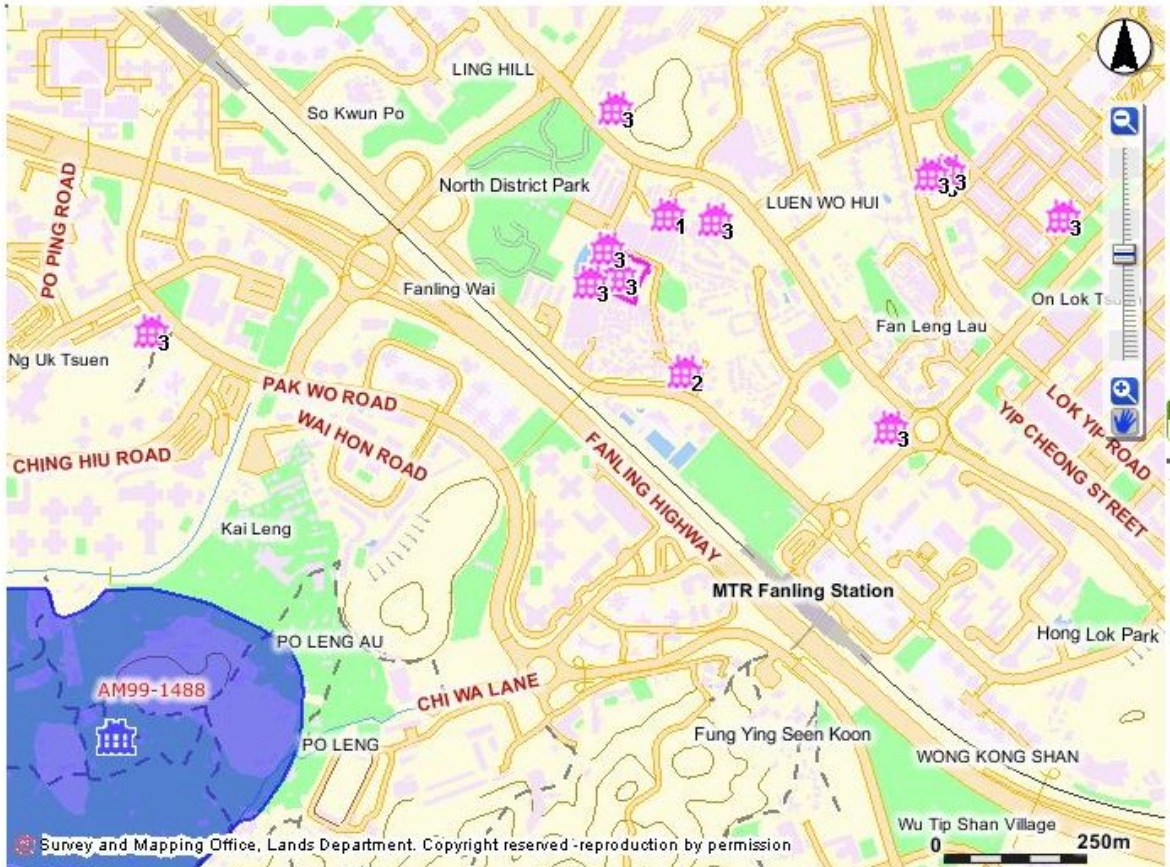
geospatial/gh-hksar/Map.do?action=resize&width=686&height=514&screenWidth=1024

☆ Google

HKSAR GEOSPATIAL INFORMATION HUB (GIH 2.0)
香港特別行政區地理空間信息樞紐

Any Keyword...

Welcome, Cheong-wai! Login at 2012/04/27 19:15 | Home | 中文 | Logout



HERITAGE SITES IDENTIFICATION

Type of Heritage Sites

- Sites of Archaeological Interest
- Government Historic Sites Identified by AMO
- Graded Historic Buildings and Sites
- Declared Monuments
- Proposed Monuments

General Search for Heritage Sites

- Keyword (for HSI)
- HK1980 Grid Coordinates
- GPS Coordinates (WGS84)
- ☒ Show heritage sites filling

The heritage data is provided by the Antiquities and Monuments Office for identification purposes only. Subject to confirmation by the Antiquities and Monuments Office.

[Legend](#) | [Data Source](#) | [Contact Us](#) | [Change Password](#) | [Help](#)

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Wu Tip Shan Village 250m

開始 | CW TSOI - Inbox - IB... | HKSAR Geospatial Inf... | HKSAR Geospatial Inf... | CH Pp 2 19:14

Declared Monuments Information

HKSAR Geospatial Information Hub (GIH) - Mozilla Firefox

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HKSAR Geospatial Information Hub (GIH) +

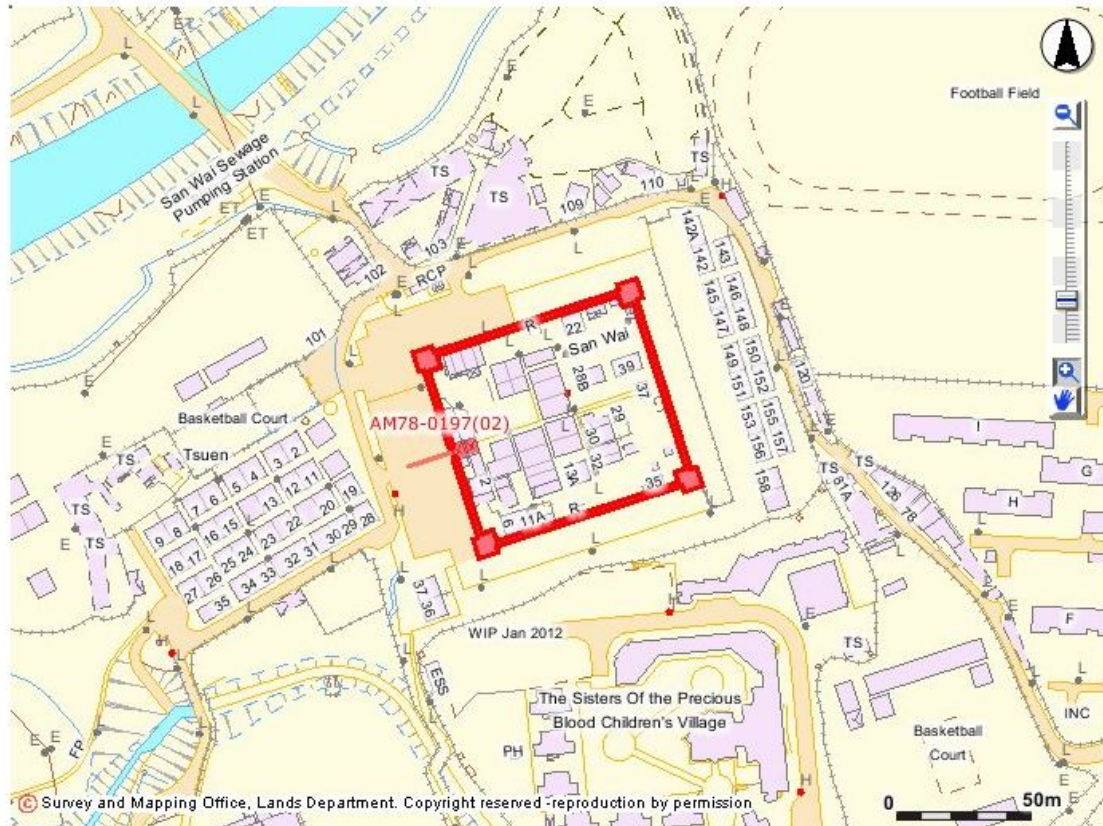
geospatial/gih-hksar/Map.do?action=resize&width=686&height=514&screenWidth=1024

Google

HKSAR GEOSPATIAL INFORMATION HUB (GIH 2.0)
香港特別行政區地理空間信息樞紐

Any Keyword...

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Football Field

San Wai Sewage Pumping Station

Basketball Court

San Wai

AM78-0197(02)

WIP Jan 2012

The Sisters Of the Precious Blood Children's Village

Basketball Court

0 50m

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Sites of Historical or Archaeological Interest

Your input was: **Declared Monuments** in **North**
Click on the underlined text to locate the related record on map.

Search Result(s):

Name: Cheung Shan Kwi Tsz
長山古寺

AMO. Ref. AM91-0483

No.:

Location: Wo Keng Shan, Ping Che,
Fanling, New Territories
新界粉嶺坪輦禾徑山

Class: Graded Historic Buildings
and Sites (Declared
Monument)

Update
Date: 30 Mar 2012

Enclosing Walls and
Corner Towers of Kun

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Old and Valuable Trees Information

HKSAR Geospatial Information Hub (GIH) - Mozilla Firefox

檔案 (F) 編輯 (E) 檢視 (V) 歷史 (S) 書籤 (B) 工具 (T) 說明 (H)


HKSAR Geospatial Information Hub (GIH)

geospatial/gih-hksar/Map.do?action=resize&width=686&height=514&screenWidth=1024

HKSAR GEOSPATIAL INFORMATION HUB (GIH 2.0)
香港特別行政區地理空間信息樞紐


輸入關鍵字

歡迎您! Cheong-wai! 登入時間: 2012/05/16 17:32 | 主頁 | English | 登出



識別結果

古樹名木



- Tree of precious or rare species
(珍貴或稀有品種)

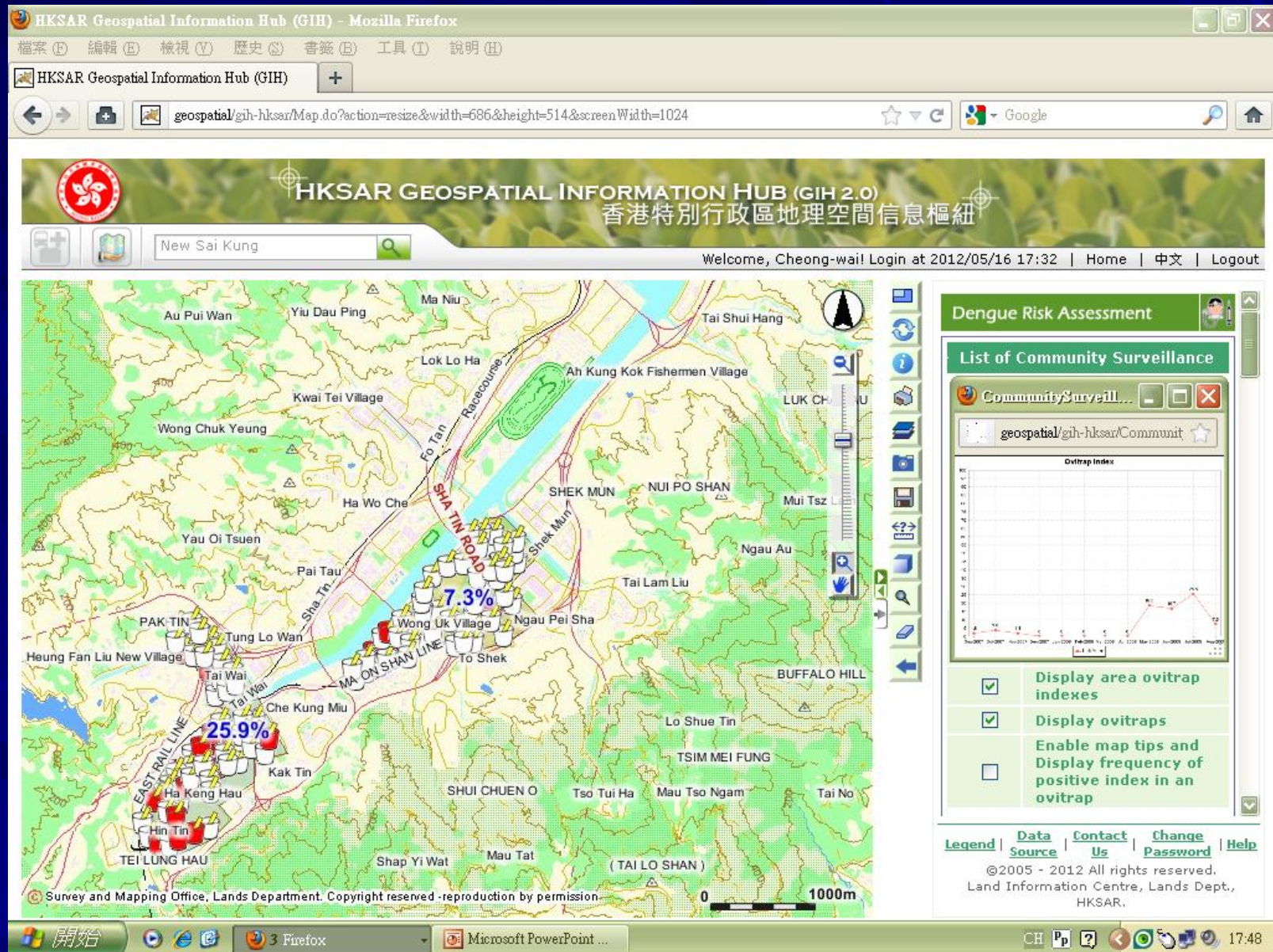
名冊編號: LCSD YTM/110
勘察日期: 07-08-2007
保養部門: LCSD
地點: 洗衣街花園
品種名稱: Tabebuia donnell-smithii
一般名稱: Primavera (中氏鐘花)

[圖例](#) | [數據來源](#) | [聯絡我們](#) | [更改密碼](#) | [說明](#)

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Ovitrap Information for Dengue Risk Assessment



Aerial Photos Flight Index

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HKSAR Geospatial Information Hub (GIH)

geospatial/gih-hksar/Map.do?action=resize&width=686&height=514&screenWidth=1024

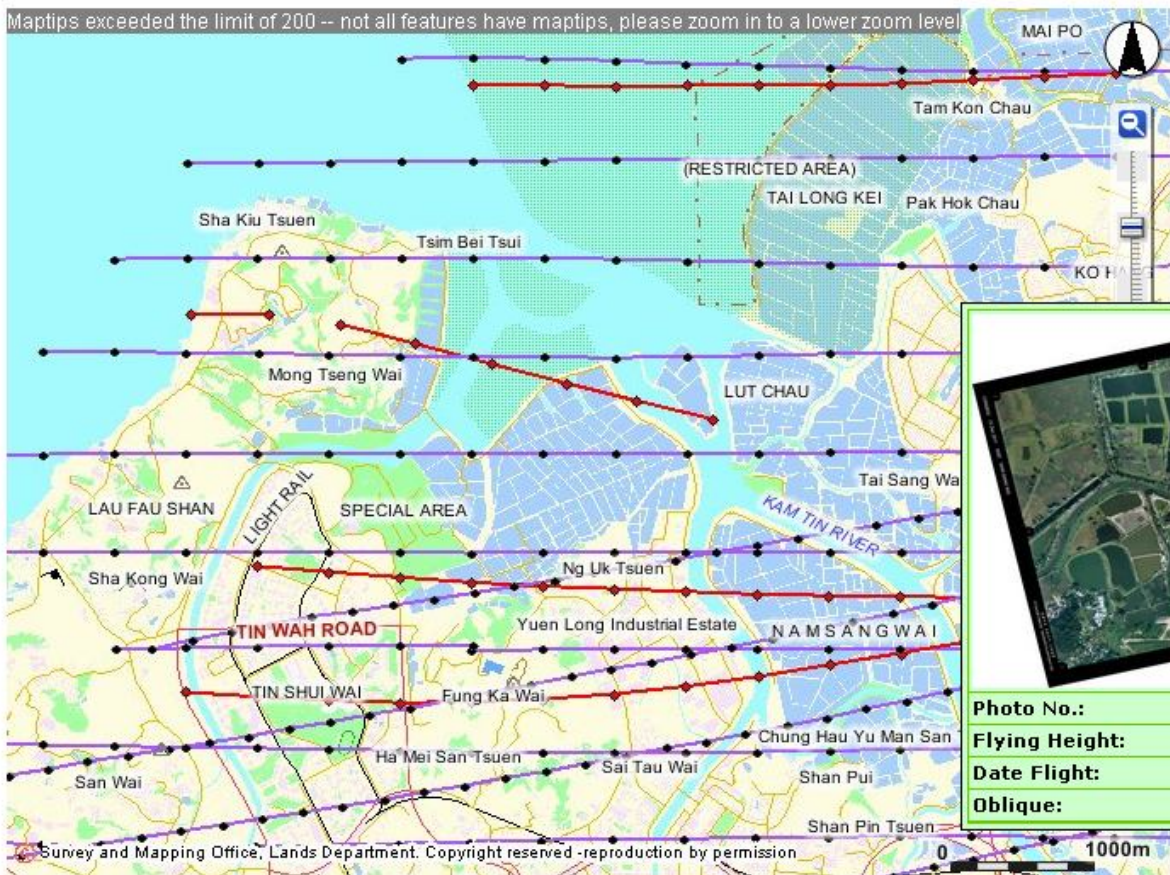
Google

HKSAR GEOSPATIAL INFORMATION HUB (GIH 2.0)
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Any Keyword...

Welcome, Cheong-wai! Login at 2012/04/27 19:06 | Home | 中文 | Logout

Maptips exceeded the limit of 200 -- not all features have maptips, please zoom in to a lower zoom level.



Large Format Aerial Photo

To use:

1. Select a searching method.

► By Aerial Photo Number

► By Year of Photo

Select the Year and Flying Height/Photo Scale. Then click [Search] to display the flight paths on map.

2012
2011
2010
2009
2008

<8000 ft

Photo No.: CW92832

Flying Height: 3000 ft.

Date Flight: 12 Dec 2011

Oblique: no

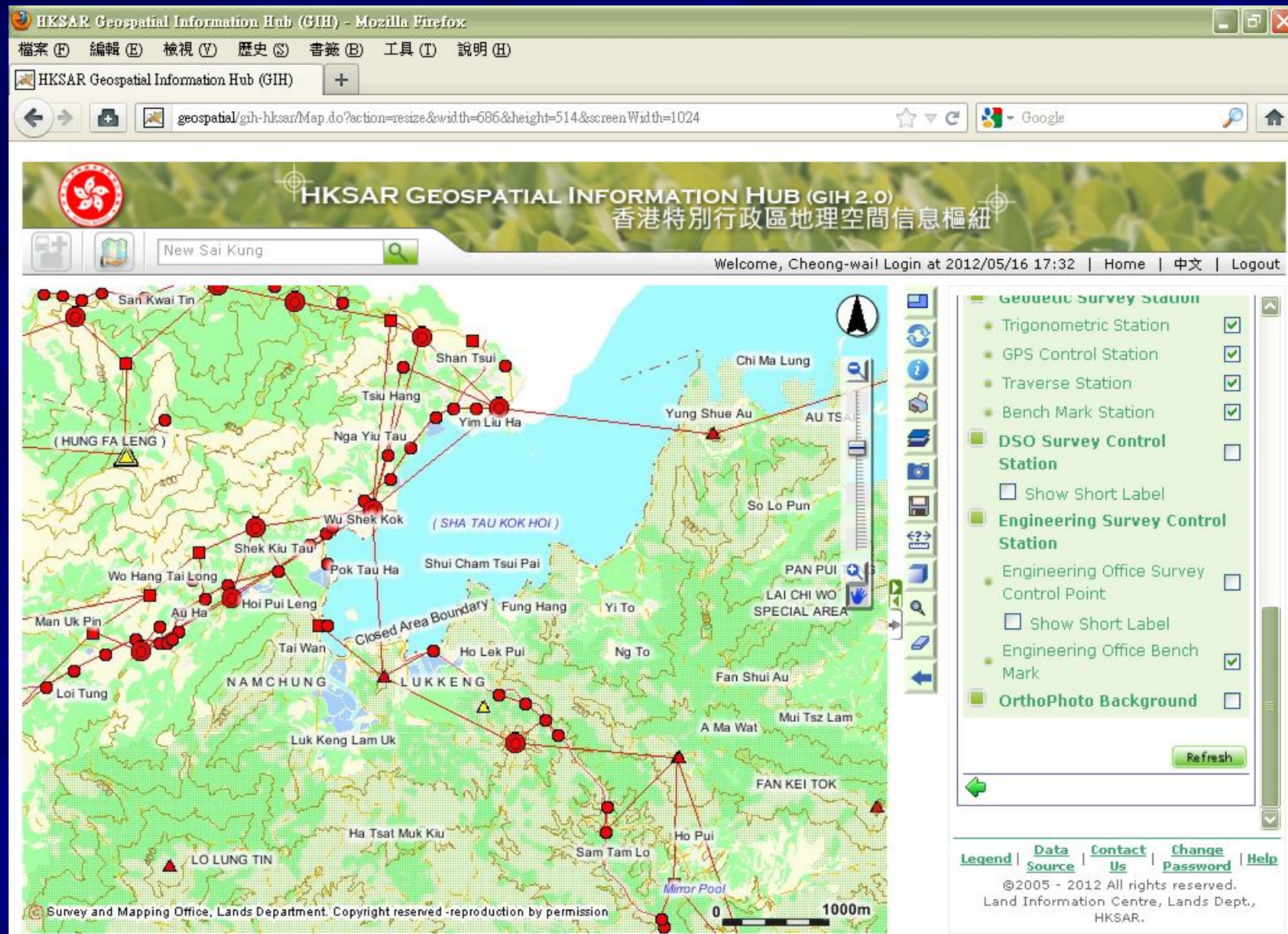
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CH Pp ? 19:07

Geodetic Survey Control Stations Information



Helicopter Landing Pad Information

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檔案 (F) 編輯 (E) 檢視 (V) 歷史 (S) 書籤 (B) 工具 (T) 說明 (H)

HKSAR Geospatial Information Hub (GIH)

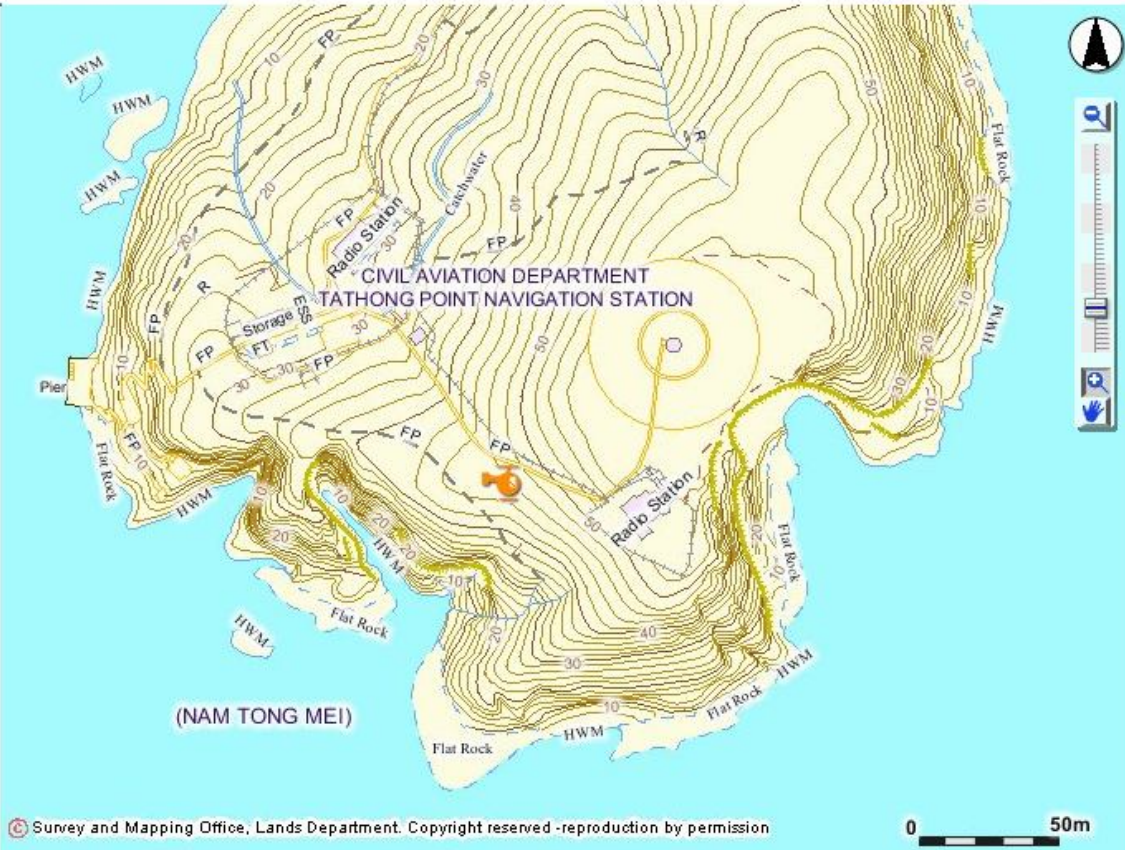
geospatial/gih-hksar/Map.do?action=resize&width=686&height=514&screenWidth=1024

Google

HKSAR GEOSPATIAL INFORMATION HUB (GIH 2.0)
香港特別行政區地理空間信息樞紐

New Sai Kung

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0 50m

Helicopter Landing Pads

Your input was: Sai Kung
Click on the underlined text to locate the related record on map.

Search Result(s):

Name:	HK19-Tung Lung Island Upper Helicopter Landing Pad
名稱:	HK19-東龍洲上部直升機升降坪
Address:	Tung Lung Chau, NT
地址:	新界 東龍洲
Name:	HK19A-Tung Lung Island Lower Helicopter Landing Pad
名稱:	HK19A-東龍洲下部直升機升降坪
Address:	Tung Lung Chau, NT
地址:	新界 東龍洲
HK25-Clearwater Bay and	

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Objectives fulfilled

- Enhancing the availability and accessibility of geospatial information
- Providing a common geospatial information platform that encourages information sharing
- Improving overall operation efficiency and the government's ability to respond to different situations
- Reducing the total cost of data ownership within the government

数码地图是应用资讯科技的基础设施

Digital Map is the Infrastructure for IT Applications

- ◆ 用「地理空间信息枢纽」建设「数字城市」
Use Geospatial Information Hub to build our “Digital City”



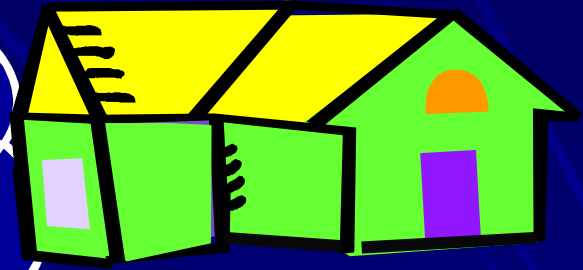
Data Alignment Measures (DAM)

for Planning, Lands and Public
Works Geospatial Data

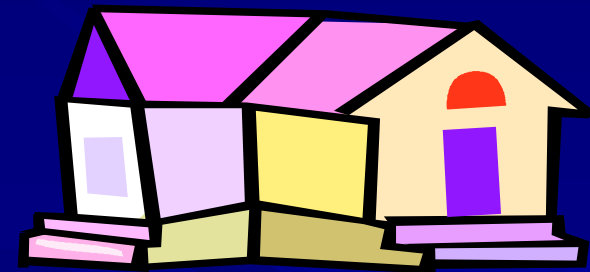
Data Alignment Measures

- Different government departments having different geographical information systems (GIS) with different data standards, data formats and data definitions
- Increasing need to use other department's data to perform the spatial analysis for decision making
- Explore ways to minimize the resources needed for data collection and integration

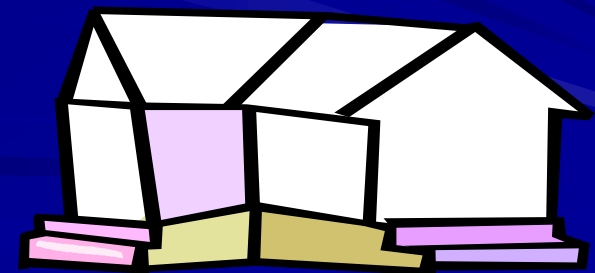
Different data structures
Different definitions
Different formats
Different keys



X Department



Y Department



Z Department



Data Alignment Measures

- To facilitate data exchange, 15 departments under the Housing, Planning, Lands and Works Group started an initiative to align the spatial data created by them in early 2000
- A consultancy study recommended a Data Alignment Strategy that included the implementation of a Data Alignment Measures project to resolve the data exchange problems within the participating departments

Data Alignment Measures

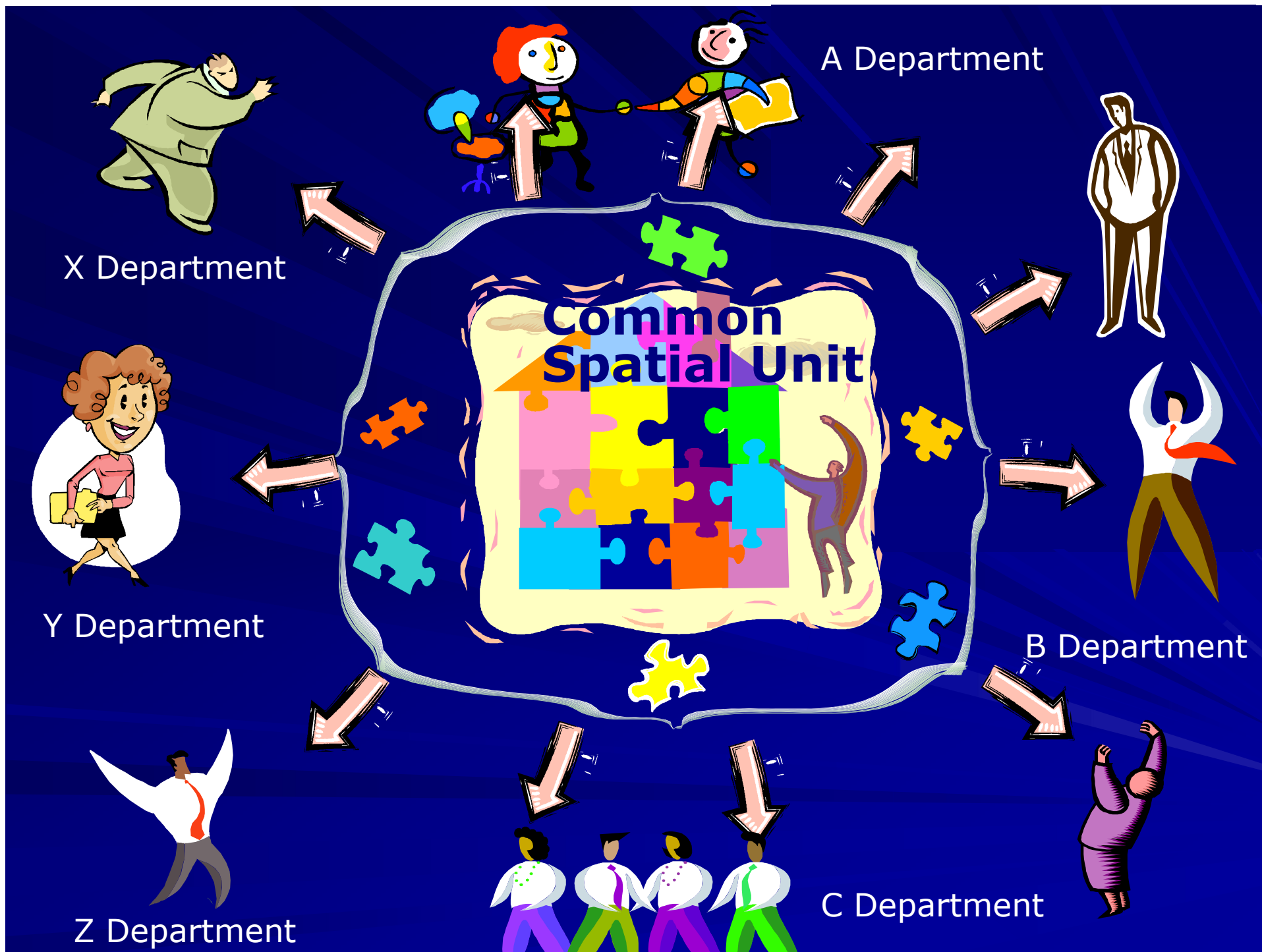
- The project was successfully implemented and completed in March 2007

Data Alignment Measures

- Major measures completed:
 - (1) Create the Common Spatial Units (CSU)
 - (2) Standardize the file formats for data exchange
 - (3) Provide the Metadata Catalogue services

Common Spatial Units (CSU)

- To solve the data definition problems of the most commonly used geospatial data among government departments
- To agree on the standard units and the identifiers for exchange of geospatial data (both the graphic entities and the textual attributes)
- Five CSUs were identified and created, namely Building, Lot, Road Centreline, Slope and Tertiary Planning Unit



Building Common Spatial Unit

- Types of buildings for data exchange
 - (1) Private buildings permitted under the Buildings Ordinance
 - (2) Public housing blocks
 - (3) Village small houses
 - (4) Government buildings
 - (5) Temporary and open sided structures
(basic mapping specification)

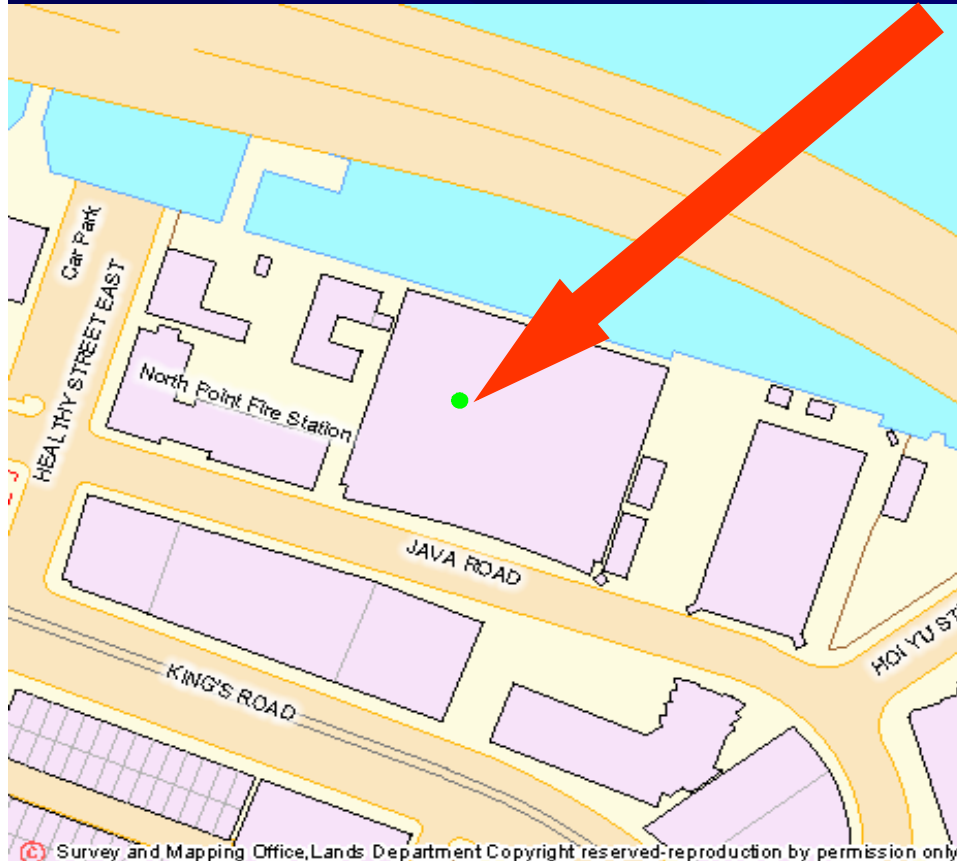
Building Common Spatial Unit

- **Graphic Entity:** Tower and Podium of buildings
- **Types of Polygons:** Tower and Podium are represented separately
- **Identifier:** Unique for each polygon
- **Building Status:** Active, Proposed, Demolished

Building CSU Identifier

- Composite key comprises
 1. the geo-reference number,
 2. polygon type and
 3. the record creation date

Building CSU Identifier



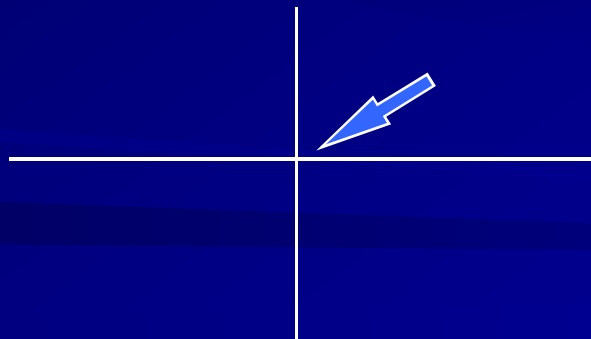
Geo-reference No.	1357924680
Polygon Type (T ower or P odium)	T
Creation Date	22/11/2004

Building CSU ID

1357924680**T**20041122

Building CSU Identifier

- Geo-reference Number on Basic Map -
 - A 10-digit identifier formed by combining the Easting and Northing of the building label point within the polygon. Decimal is truncated and '8' removed from the coordinates.



824680.41 N
813579.08 E

Building CSU Identifier

Basic map

Geo-reference Number

1357924680

Building Common
Spatial Unit ID

T 20041122

Polygon
Type

Creation
Date

Lot Common Spatial Unit

Current Situation

- A lot is a piece of land held by a private owner under a lease granted by the government
- Only the Lands Department has maintained the graphic information about the land boundaries of all land parcels in Hong Kong
- Different departments (e.g. BD, LR, RVD and LandsD) have their own set of lot identifiers in handling their lot textual information

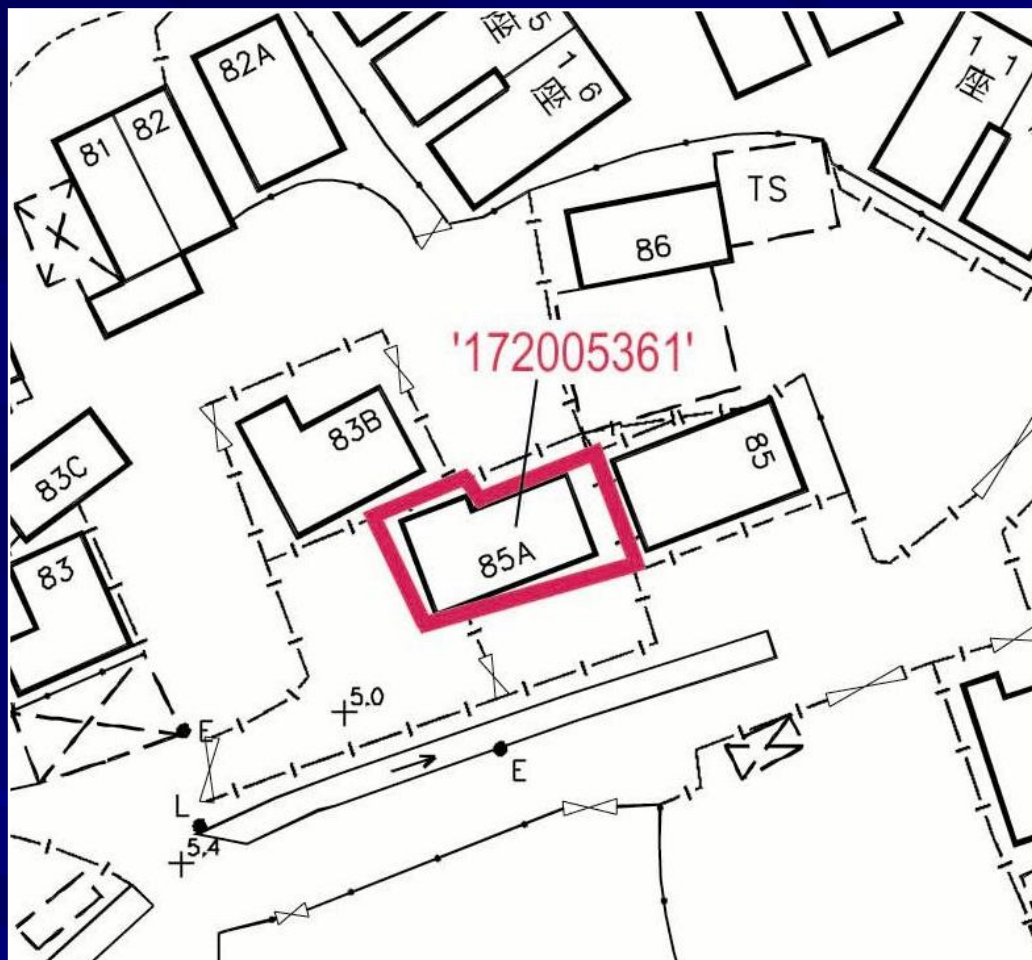
Lot Common Spatial Unit

- To facilitate data exchange, Lot CSU has the following components:

***Graphic Entity:** the approximate graphical boundary of the land parcel polygon*

Identifiers:** the land parcel identifiers (**Lot ID**) being used in the **Lands Department's** Cadastral Information System and the Property Reference Number (**PRN**) adopted by the **Land Registry

Lot Common Spatial Unit



LD INFO

LOTID	172005361
LOTCD	1720
LOTNO	5361
LOTALPH	
SECTCD	
PRN	
CSU_STATUS	U
CLASS	OSL
SITEAREA	109.4
AREAU	SM
OWNER	
HELD	COEX
HELDNO	4360
USE	BLDG
COMDT	1997/6/20
EXPDT	2047/6/19
LOT_LTERM	50
LOT_LTERMU	Y
RENEW	N
DATESTAMP	2006/4/6
ACT_CD	Z

(DD116)

Lot CSU Identifier

■ Lot CSU Identifier

- The current **Lot ID** of the Cadastral Information System is adopted as the common identifier, i.e.

Lot Code

+ Lot Number (Numeric)

+ Lot Number (Alpha)

+ Section Code

*where Lot Code and Lot Number (Numeric)
are mandatory items*

Lot CSU Identifier

- Lands Department and Land Registry are responsible for assigning the unique Lot ID and PRN respectively for each CSU record.
- Lands Department is responsible for providing a one-one matching table for the two identifiers, i.e. Lot ID and PRN.

Road Common Spatial Unit

Current Situation

- The road centrelines are stored in the Street/Road layer of the Lands Department's Basic Mapping System
- The “road centrelines” is a topologically structured road network database - a collection of line segments (roads) and nodes (road intersections)

Road Centreline as CSU for Data Exchange

- Road Centreline CSU ID:
[**Street code** + **Sub-ID**]

- **Street Code** is the unique identifier for each road

The first digit is used to show the types of roads:

1xxxx, 2xxxx for gazetted street

3xxxx for flyover, tunnel and by-pass

5xxxx for street without name

- **Sub-ID** is the unique identifier for each segment of a road

(2) Standardized File Formats

- To agree on the file formats for exchange of geospatial data
- To streamline the first time data conversion and the future data integration of **common spatial units**
- To recognize the industrial standards, e.g. ArcInfo, Microstation

(3) Metadata Catalogue Service

- To provide efficient access to the list of spatial data available for use by other government departments
- To implement a **Metadata Catalogue System** to house the metadata documents of all government spatial data, including those of the common spatial units (CSU)

Roles of Data Agent in DAM

- Provide facilities for the submission of spatial data from data owners
- Convert spatial data into CSU in accordance with the agreed DAM standards
- Integrate new spatial data to form CSU
- Disseminate the DAM compliant CSU data to data users
- Develop and maintain a Data Dissemination System for efficient CSU data transfer

Roles of Data Agent in DAM

- Lands Department has continued to play its roles as the Data Agent for Building CSU, Lot CSU and Road Centreline CSU
- The Data Dissemination System (DDS) has been rolled out for use by participating departments since December 2006

Roles of Data Agent in DAM

- Being the Data Agent, the Lands Department has also completed the production of metadata of the Building, Lot and Road Centreline CSUs and maintained the respective metadata documents in the Metadata Catalogue System
- The Metadata Catalogue System being maintained by the Lands Department has become the central depository for all spatial data metadata documentations
- The Metadata Catalogue System is now open to the Public on the Internet

Success Factors

Policy and financial support

- Top-down approach
- Strong management framework
 1. Project Steering Committee headed by Bureau
 2. Cross-department collaboration
 3. Departmental management support
 4. Departmental working groups
- Sufficient resources allocated to departments for implementation

Success Factors

- **Awareness of the need for data exchange**
 - Importance of geospatial data for decision making
 - Collaboration means greater success
- **Active participation among data owners, data users and data agent**
 - Good communication and frequent discussion
 - Willingness to address the concerns of stakeholders
 - Consensus reached before implementation

Tangible Benefits of DAM

- Work on common data definitions and identifiers
- Availability of more useful information
- Enhanced cross-department collaboration
- Avoided tedious work for data collection or merging information from various sources
- Elimination of duplicated efforts in application system development

Intangible Benefits of DAM

- Setting a cornerstone for future cross-department cooperation
- Knowing how to optimize the use of government resources in the future
- Knowing the way forward for establishing the Spatial Data Infrastructure in Hong Kong

The background is a solid dark blue color. It features a series of diagonal lines in a lighter shade of blue, creating a sense of depth and movement. The lines are more prominent on the left side and fade towards the right.

Thank you

数码地图是应用资讯科技的基础设施

Digital Map is the Infrastructure for IT Applications

- ◆ 用「地理空间信息枢纽」建设「数字城市」
Use Geospatial Information Hub to build our “Digital City”



「统一数据措施」是建立「空间数据基础设施」的第一步
Data Alignment Measures is the first step
towards the establishment of
the Spatial Data Infrastructure