GIS APPLICATION IN GEORGE TOWN WORLD HERITAGE SITE PENANG, MALAYSIA

GEORGE TOWN WORLD HERITAGE INC.

In collaboration with:

UNIVERSITI SAINS MALAYSIA

Presented by:

MUHAMMAD HIJAS SAHARI

GEORGE TOWN
WORLD HERITAGE SITE

MELAKA & GEORGE TOWN
Inscribed as World Heritage Site

State Party	**:**	**Malaysia**
Date of Inscription	**:**	**7.7.2008**
Category	**:**	**Cultural Heritage Site**
Criteria	**:**	**II, III & IV**

PenangViews1770-1860

Plate 154   VAN JOORS,   Harbour Scene, Penang, c.1840. Oil 66.0 × 101.6 cm. (By courtesy of Mrs. S. K. Chan)

HISTORIC CITIES OF THE STRAITS OF MALACCA

GEORGE TOWN

MELAKA

BUFFER ZONE
150.04 hectare

CORE ZONE
109.38 hectare

BUFFER ZONE
134.03 hectare

CORE ZONE
38.62 hectare

Sites	Total Number of Buildings		Total Buildings	Area (hectares)		Total Area (hectares)
	Core Zone	Buffer Zone		Core Zone	Buffer Zone	
Historic City of Melaka	930	948	1,878	38.62	134.03	172.65
Historic City of George Town	**2,344**	**2,321**	**4,665**	**109.38**	**150.04**	**259.42**
Total	3,274	3,269	6,543	148.00	284.07	432.07

AERIAL VIEWS OF GTWHS

Year 1950's

Present

JUSTIFICATION FOR INSCRIPTION

Criteria (ii) : Exhibit an important interchange of human values, over a span of time or within a cultural area of the world, on developments in architecture or technology, monumental arts, town-planning or landscape design.

OUTSTANDING UNIVERSAL VALUE

"The Historic Cities of the Straits of Malacca : Melaka and George Town" represent exceptional examples of multi-cultural trading towns in East and Southeast Asia, forged from the mercantile and civilization exchanges of Malay, Chinese, Indian and European cultures.

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Integrated Heritage Database System

JUSTIFICATION FOR INSCRIPTION

Criteria (iii): Bear a unique or at least exceptional testimony to a cultural tradition or to a civilization which is living or which has disappeared.

OUTSTANDING UNIVERSAL VALUE

"The Historic Cities of the Straits of Malacca : Melaka and George Town" are living testimony to the multi-cultural heritage and tradition of Asia, where the greatest religions, and cultures met. The coexistence of distinct faiths - both tangible and intangible - in particular the different religious buildings, is a testament to the religious pluralism of Asia.

GEORGE TOWN WORLD HERITAGE INC.

COMMUNITY & CULTURE

TRADITIONAL TRADES & CRAFTS

JUSTIFICATION FOR INSCRIPTION

Criteria (iv): be an outstanding example of a type of building, architectural or technological ensemble, or landscape which illustrates (a) significant stage(s) in human history.

OUTSTANDING UNIVERSAL VALUE

"The Historic Cities of the Straits of Malacca : Melaka and George Town" reflect the coming together of cultural elements from elsewhere in the Malay Archipelago and from India and China with those of Europe to create a unique architecture, culture and townscape without parallel anywhere in the East and South East Asia. In particular a range and exceptional architecture of shophouses and townhouses

MANAGING GEORGE TOWN WORLD HERITAGE SITE

116 & 118, LEBUH ACHEH, 10200 GEORGE TOWN PENANG, MALAYSIA

GEORGE TOWN
WORLD HERITAGE INCORPORATED

VISION

Convergence of an intelligent and sustainable heritage city that belongs to Penang, Malaysia and all humanity

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THE NEED FOR GIS

Safeguarding Outstanding Universal Value's of George Town World Heritage Site.

Integrate existing applications in other department that can be access by public, stakeholders, professionals, private and all government agencies.

As a helping hand for GTWHI in collecting and managing old and current data (time stamp) with more efficient planning, development, monitoring and conservation works in George Town World Heritage Site.
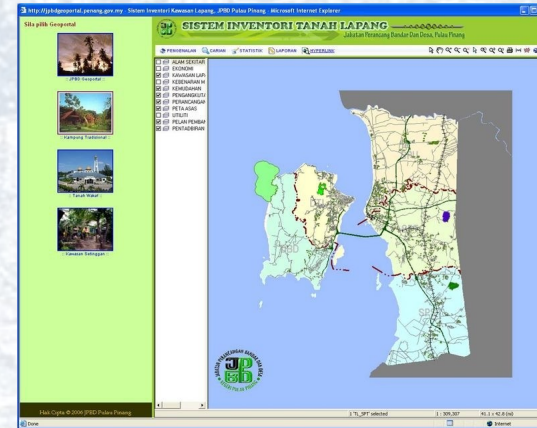
THE ESSENCE OF A GIS
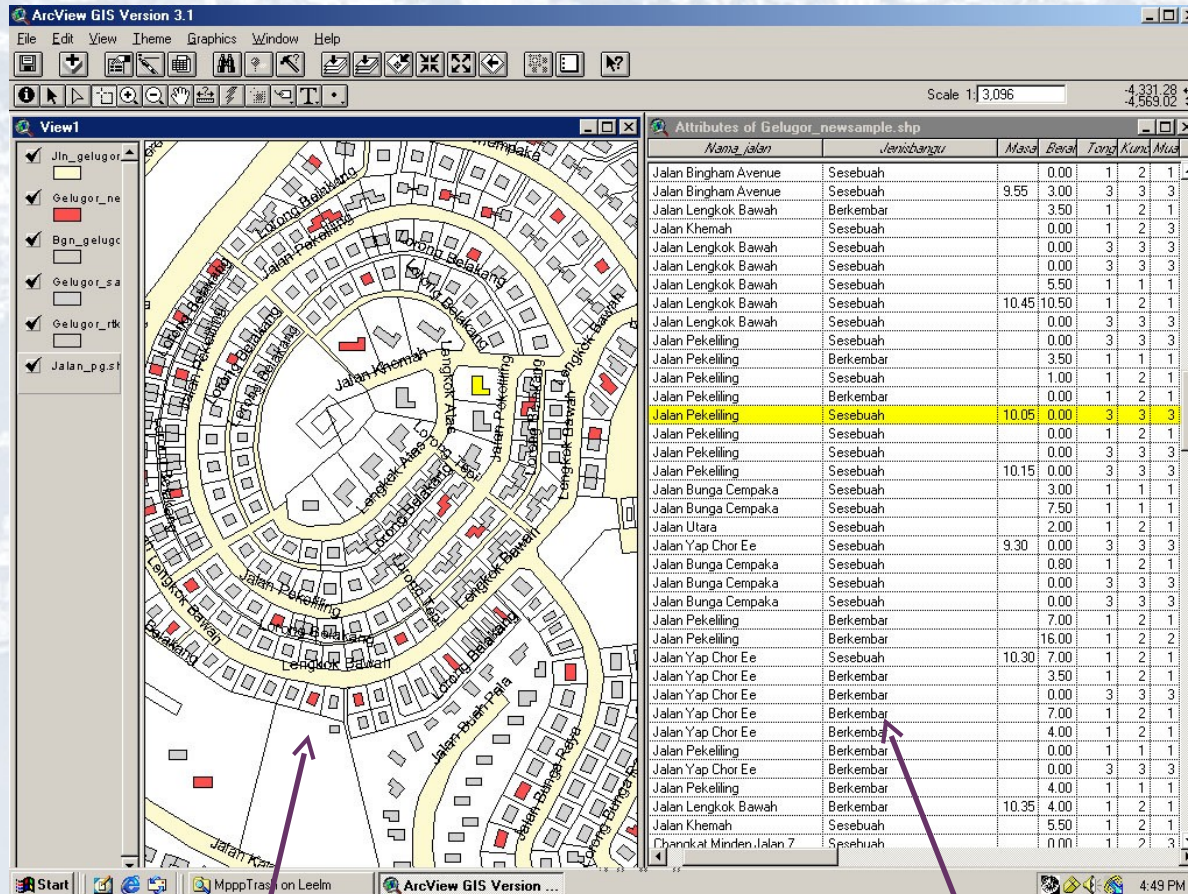
Spatial Data
- the map

Attribute Data
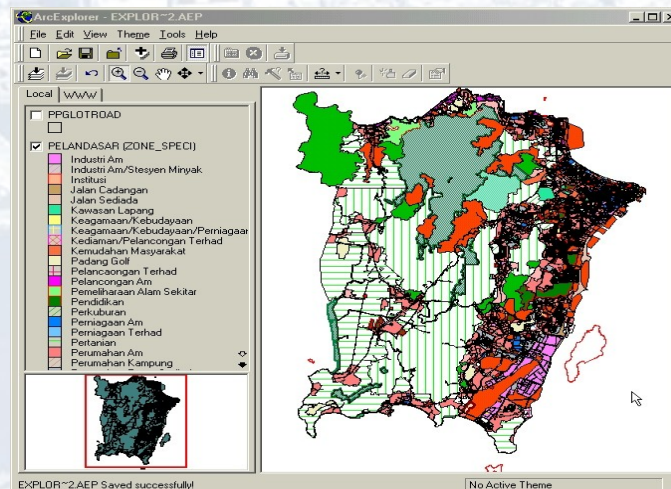- text

GIS IN PENANG
Where are we now?
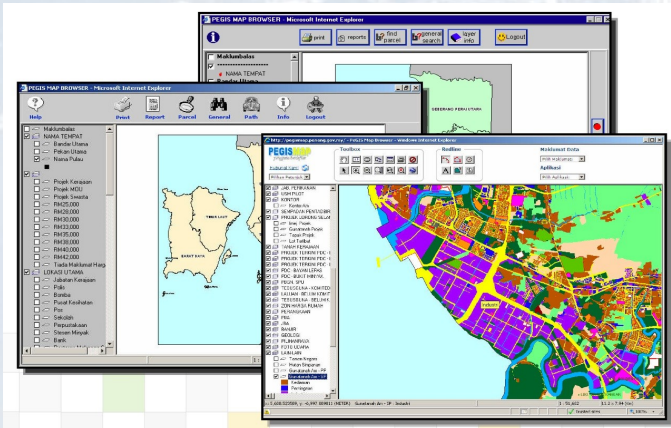
PEGIS – started 1992

JPBD Penang geoportal

JPP MPPP portal

GIS AS A TOOL

- **Upload & update data in the course of day-to-day work**
    - **Should lighten workload; not add more work**

- **Publish data & reports**
    - **Accessible from anywhere in the World**

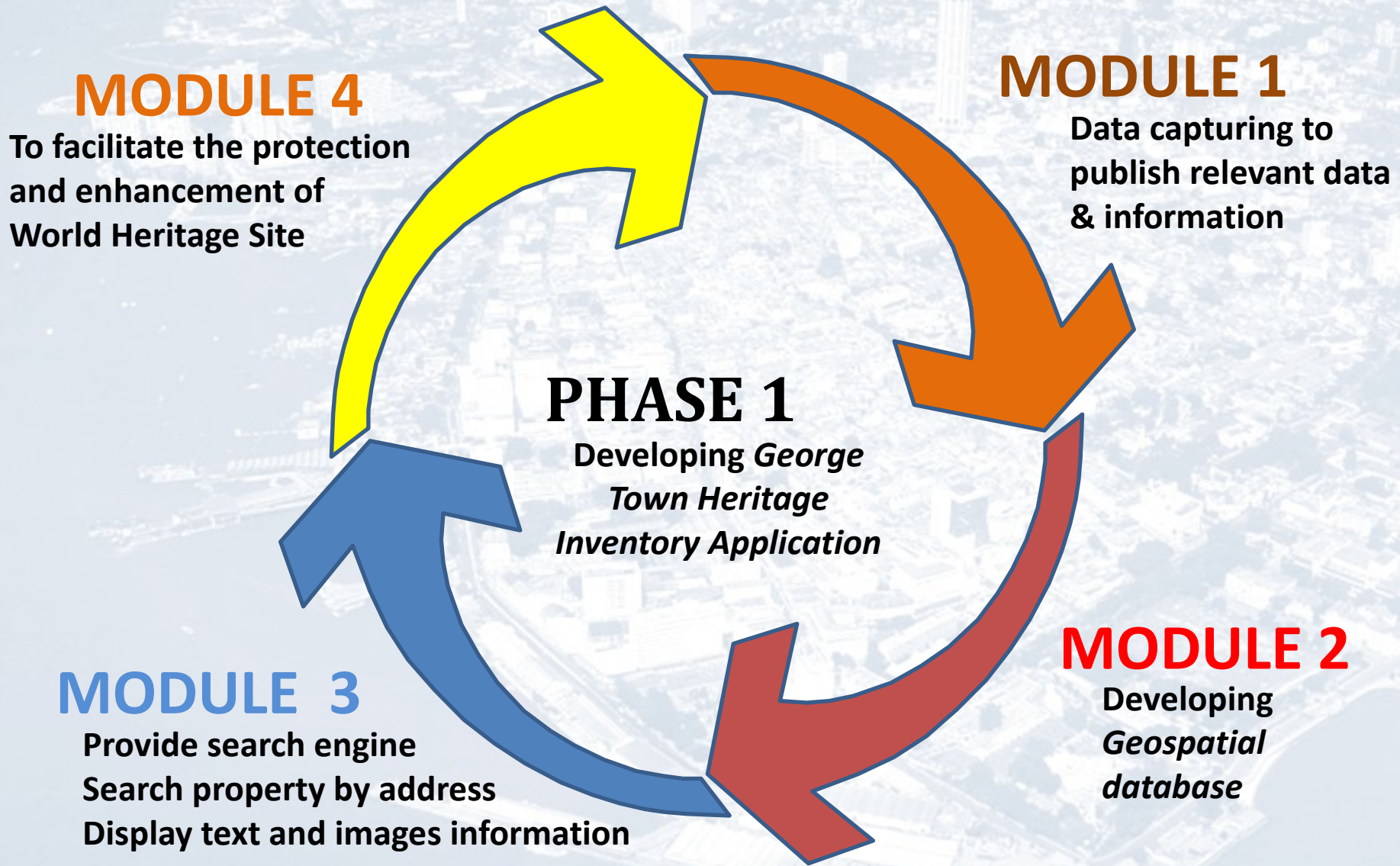- **Facilitate public/stakeholder involvement in protecting our World Heritage Site**

GEORGE TOWN World Heritage Site
Integrated Heritage Database System

We already have the ...

- **Technology**

- **Data**

- **Expertise**

NOW, we need take it *one step forward...*

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PHASE 1 MODULE

Complete with almost zero funding

MODULE 4

To facilitate the protection and enhancement of World Heritage Site

MODULE 1

Data capturing to publish relevant data & information

PHASE 1

Developing *George Town Heritage Inventory Application*

MODULE 2

Developing *Geospatial database*

MODULE 3

Provide search engine
Search property by address
Display text and images information

GEORGE TOWN WORLD HERITAGE INC.

GEORGE TOWN HERITAGE INVENTORY

Website - http://pegismap.penang.gov.my/warisan/?l

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PHASE 2 MODULE

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POTENTIAL PARTNERS
by leveraging multi-agency collaboration

- **George Town World Heritage Inc.**
- **PEGIS**
- **JPBD Penang**
- **Heritage Department, MPPP**
- **Building Department, MPPP**
- **Engineering, MPPP**
- **Licensing, MPPP**
- **Enforcement, MPPP**
- **Valuation Department, MPPP**

- **State Valuation Department (transaction prices)**
- **Land Office (ownership)**
- **JUPEM (digital cadastral)**
- **Police (crime statistics; security cameras)**
- **Tourism**
- **ThinkCity Sdn Bhd**
- **Others (PAM, MIP, IEM, REHDA?)**

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THANK YOU

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