PLANNING AND DEVELOPMENT OF PUTRAJAYA
PUTRAJAYA

The largest integrated urban development project in the history of Malaysia, combining the development of government institutions, commercial, residential, public amenities and infrastructure.
PUTRAJAYA: THE NEW FEDERAL GOVERNMENT ADMINISTRATIVE CENTRE OF MALAYSIA

• The creation of a Putrajaya marks a new chapter in the development history of modern Malaysia

• A challenge to Malaysian professionals to embark on something new and innovative representing Malaysian values and culture

• The Malaysian Government decided to move from Kuala Lumpur to Putrajaya in June 1993
RATIONALE FOR MOVING

Quality urban living & environment

• To relieve the pressure on Kuala Lumpur’s over-stretched infrastructure

• Scarcity of Government land in Kuala Lumpur to cater for increase in demand for Government office space

• To have a well-planned administrative centre with modern facilities and technology to enhance government efficiency and productivity
Creation of a new Federal Government Administrative Centre

**City in a Garden**

- WASHINGTON D.C., USA, 1787
- OTTAWA, CANADA, 1880
- CANBERRA, AUSTRALIA, 1912
- CHANDIGARH, INDIA, 1951
- BRASILIA, BRASIL, 1957
- ISLAMABAD, PAKISTAN, 1958
- PUTRAJAYA, MALAYSIA, 1995
- ABUJA, NIGERIA, 1975
- ASTANA, KAZAKHSTAN, 1997

**Intelligent City**

- Smart Home
- Public Services
- Utilities
- Teleservices
- Intelligent Buildings
- Intelligent Transportation Systems

**Vision**

1787

1800

1880

1900

1912

1951

1957

1958

1995

2000
Putrajaya is named in memory of the first Prime Minister of Malaysia, Almarhum Tunku Abdul Rahman Putra Al-Haj.
SELECTION CRITERIA

The selection of *Perang Besar* was based on the following factors:

- Cost of infrastructure construction and land acquisition
- Strategic location within a growth corridor
- Easy accessibility to major transportation network (rail, highways and ports)
- Existence of interesting natural vegetation & land form to be incorporated into city planning and development
- Maximizing potential impact for catalyzing development to the surrounding regions
- Minimal disruption to local community
CHRONOLOGY OF EVENTS

• April 1994 - Conceptual Scheme based on the Garden City Concept was approved by the Cabinet.

• February 1995 - Putrajaya Master Plan approved by the Cabinet

• August 1995 – Official launch of the Putrajaya Project by the Prime Minister

• April 1996 – Review of Putrajaya Master Plan undertaken

Review is undertaken to conserve the environment:
- Preservation of the natural topography
- Minimization of earth cut and fill works

• October 1996 – First Construction Commenced
IMPLEMENTATION MECHANISM

MALAYSIA INCORPORATED

Putrajaya Corporation
- Develop, Manage and Administer
- Local Authority
- Local Planning Authority
- Land Administrator

Utility companies
- Telekom, TNB, Gas Malaysia, GDC

Putrajaya Holdings Sdn Bhd
- Main Developer
- Construction of government offices, commercial areas, residential premises and the main infrastructure

KLCCPB
- Project Manager

THE DEVELOPMENT OF PUTRAJAYA
Main features of Putrajaya Masterplan:

- Large proportion of the city area is designated as green open space
- Waterbody (man-made lake and wetlands) created within the city
- 38km of waterfront area created by the lake
- City is divided into twenty precincts; core employment and commercial precincts located on Core Island
- ‘Peripheral precincts (residential precincts) planned based on the neighbourhood planning concept
- A 4.2km long Boulevard forms the central spine of the city
PUTRAJAYA BASIC FACTS AND FIGURES

Area : 4,931 hectares

Planned Population : 320,000

Daytime Population : 500,000

Government : 3.8 million sq.m.

Commercial : 3.4 million sq.m.

Planned Housing Units : 64,000 units

(55% Government)

(32% Public)

(13% Affordable House)

Roads (major) : 94.87km

Bridges : 8 no.s

Monorail line : 18.87km
PUTRAJAYA: CURRENT STATUS OF DEVELOPMENT

Resident Population : 55,000
Gov. Office Workers : 40,939
Government Office : 2,199,922.42 sq.m. (completed)
: 457,040 sq.m. (under construction)
Commercial Space : 100,000 sq.m. (completed)
: 260,000 sq.m. (under construction)
Residential Units : 13,182 units (completed)
: 13,601 units (under construction)
Roadworks : 60.73 km (completed)
: 34.14 km (under construction)
PLANNING GUIDELINES

The planning of Putrajaya is based on comprehensive policies and guidelines

- Master Plan
- Structure Plan
- Local Plans
- Landscape Master Plan
- Lake use and Navigation Master Plan
- Utilities Master Plan
- Transportation Master Plan
- Irrigation Master Plan
- Lighting Master Plan
- Urban Design Guidelines
- Fencing Design Guidelines
- Signage and Advertisement Design Guidelines
REVISITING THE TRADITIONAL ESSENCE:
Fostering the Spirit & Purpose of the City

• The Latin root ‘traditio’ means to bring across; to offer guidance from the past into the present

<table>
<thead>
<tr>
<th>Traditional kampung</th>
<th>Present-day city</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spirit of togetherness</td>
<td>Individualism</td>
</tr>
<tr>
<td>Close daily interaction</td>
<td>Lack of interaction</td>
</tr>
<tr>
<td>Sense of purpose</td>
<td>Lack of common purpose</td>
</tr>
</tbody>
</table>

• Planning by reference to past land use, spatial relationships and urban form

• To rediscover the interactive, spatially efficient qualities of a coherent public realm exhibited by earlier urban environments, small towns and villages
ACHIEVED THROUGH NEIGHBOURHOOD PLANNING

QUALITY URBAN LIVING THROUGH NEIGHBOURHOOD PLANNING

Achieved through:

- Influence on the scale, density, form & structure of development:
  - Design of streets
  - Urban spaces act as meeting places/centre for community activities

- Neighbourhood planning:
  - Neighbourhood centres as place for congregation
  - Each neighbourhood has a center and an edge. The center consists of public square, public facilities, meeting places, shops, etc.

Neighbourhood Centre Precinct 16: Creating Communal Space

5 minute walk, quarter mile
Providing broad mix of housing types for all sections of society to encourage social integration.
Types ranging from affordable homes and apartments to condominiums and bungalows.
Quality and modern public amenities are planned on a neighbourhood unit concept, easily accessible via walking.
QUALITY URBAN LIVING

COMPLETED FACILITIES

- Mosque - 1
- Surau - 4
- Health Clinic - 1
- District Police Station - 1
- Marine Police Station
- Fire & Rescue
- Bus Terminals
- District Hospital
- Boat /lake club

Neighbourhood Complex
Precinct 16

District Hospital

Lake Club

Fire & Rescue Station

Neighbourhood Complex
Precinct 9
Putra Mosque, Dataran Putra
Mosque capacity: 15,000
Operational since Year 1999

Mosque capacity: 20,000
Main attractions:
• Qiblat walk (raised garden)
• Waterfront promenade
• Sahn (courtyard)
• Iwan (main entrance arch)
Completion: Year 2007
EQUESTRIAN PARK
Equestrian facility for International Level Competition
Main sports arenas: stadium, track & field circuits, games court & go-kart circuit.

- Main Stadium capacity: 30,000 spectators
- Indoor Stadium capacity: 4,000 spectators
- Completion: 2008
WATER SPORTS FACILITIES, PROMENADE PRECINCT 6

Components:
- International Standards
- Regatta Course (rowing, canoeing, dragon boat)
  - Water Polo area
  - Grand Stand
  - Finish Tower
  - Olympic Size Swimming Pool
  - Diving Pool
  - Sandy Beach and swimming enclosure

QUALITY URBAN LIVING

PUTRAJAYA: THE VENUE FOR ASIA CANOE CHAMPIONSHIP 2005
Parks and open spaces
DIPLOMATIC PRECINCT

Total area = 205 acres
2km East of Government Precinct

Fostering the Spirit & Purpose of the City

Complete with office chancery, information centre, international school and public parks

Human scale streets design

Oval Park
Fostering a sense of community and belonging through Design

Putrajaya Fencing Design Guideline – “permeability”

Encourage interaction & Community policing through:

- Solid fencing discouraged
- Permeable fencing preferred
  (landscape treatments: hedges, shrubs, trees)

Permeability
No front fence does not mean no privacy and security
Hedges & shrubs as fences
Fostering a sense of community and belonging through:

• provision of adequate facilities
• organization of programs and activities
• planning & design
THE CARING CITY

PLANNING FOR THE PHYSICALLY CHALLENGED

PHYSICAL

HEARING

SIGHT
HELPING HAND

WITHIN REACH

THE CARING CITY
Network of pedestrian walkways and cycleways

RESPECT FOR PEDESTRIANS
Public transportation system i.e. bus, taxi and rail supported by ‘Park-and-ride’ facilities – complement the pedestrian network in creating a sustainable transportation system.

PUBLIC TRANSPORT FOCUS

Number of Public buses provided by PJC:
- 55 NGV buses
INTRODUCING NATURE INTO THE CITY
Creation of Parks and Open Spaces

Parks hierarchy:
• Metropolitan Park
• Urban Park
• City Park
• Pocket Park

TAMAN SAUJANA HIJAU
TAMAN WETLAND
TAMAN BOTANI
TAMAN PUTRA PERDANA
TAMAN RIMBA ALAM
TAMAN WARISAN PERTANIAN
TAMAN WAWASAN
TAMAN PANCARONA
TAMAN SELATAN
TAMAN BOTANI PUTRAJAYA
A SHARED NATURAL HERITAGE

- CONTAINS 700 SPECIES FROM OVER 90 COUNTRIES
- 230 acres (93 ha) of land

URBAN ECOLOGY : NATURE IN THE URBAN FABRIC

- Explorer’s Trail
- Palm Hill
- Floral Gardens
- Sun Gardens
- Lakeside
TAMAN WARISAN PERTANIAN
Showcases Malaysia’s commercial agricultural crops
Interesting features:
• Agricultural crops – rubber, coffee, lowland tea, oil palm, cocoa, black pepper
• Seasonal fruits and non-seasonal fruits

Attractions:
• Visitor’s Complex (fruit stalls, exhibition gallery, café)
• weekly pasar tani (market)
• viewing deck
• rubber processing demonstration
• cooking demonstrations
TAMAN RIMBA ALAM

Recreating a forest park in an urban setting

Main attraction: a collection of lowland dipterocarp forest species (685 nos), including bamboo, rattan and palms.
Largest man-made wetlands in the tropics

The Wetland is 200 hectares in size

Wetland functions as a natural filtration system for the lake

Planted with more than 70 species of wetland plants totaling 12 million altogether

The Lake covers an area of 400 hectares, creating 38 kilometers of shoreline
Active activities
- fishing
- cruise & dining boat
- canoeing
- sailing

Passive activities
- Fishing
- Bird watching
- Walking
- Jogging
PUTRAJAYA LAKE IS A CENTRE FOR WATER SPORTS, RECREATION & TOURISM

Active Sports
• Formula One Powerboat
• High performance water sports competitions.
URBAN ECOLOGY: NATURE IN THE URBAN FABRIC

CRUISE BOAT

DINING BOAT
PUTRAJAYA WETLANDS

• Man made wetlands to act as a natural filter for lake water quality
• Living ecosystem
• Diverse habitats and plants
• Opportunities for educational and research activities
• living close to nature
Flora and Fauna of Putrajaya Wetlands

Waterlily (Nymphaea nouchali)

Kinta Weed Vanda hookeriana
Putrajaya is being equipped with high bandwidth fibre-optic backbone infrastructure.
## SUSTAINABLE CITY MANAGEMENT

### CITY CONTROL ROOM

Integrated City Management System

<table>
<thead>
<tr>
<th>INTELLIGENT TRANSPORTATION SYSTEM (ITS)</th>
<th>FACILITIES MANAGEMENT SYSTEMS (FMS)</th>
<th>PUBLIC INFORMATION AND EMERGENCY SYSTEMS (PIES)</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Traffic Management System</td>
<td>• Transportation Infrastructure Monitoring</td>
<td>• Emergency Management System</td>
</tr>
<tr>
<td>• Travel Demand Management</td>
<td>• Utilities Infrastructure Monitoring</td>
<td>• Public Information System</td>
</tr>
<tr>
<td>• Commercial Vehicle Operation</td>
<td>• Building and Ground Monitoring</td>
<td>• Close-Circuit TV Surveillance System</td>
</tr>
<tr>
<td>• Emergency Management</td>
<td>• Maintenance System Monitoring</td>
<td>• Hotline Services</td>
</tr>
<tr>
<td>• Advance Vehicle Control</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**FACILITIES MANAGEMENT SYSTEMS (FMS)**

- Transportation Infrastructure Monitoring
- Utilities Infrastructure Monitoring
- Building and Ground Monitoring
- Maintenance System Monitoring

**PUBLIC INFORMATION AND EMERGENCY SYSTEMS (PIES)**

- Emergency Management System
- Public Information System
- Close-Circuit TV Surveillance System
- Hotline Services
PLANNING, URBAN DESIGN AND LANDSCAPE ARCHITECTURE

- Urban design and landscape architecture part of town planning process
PUTRAJAYA BOULEVARD

Inspired by the Champ Elysees, Paris

100 meter wide and 4.2 kilometer long
CITY IMAGE AND CHARACTER

Jambatan Sri Wawasan

Ministry of Agriculture and

Putrajaya Convention Centre
Images of existing buildings

PRIME MINISTER’S OFFICE - PERDANA PUTRA

Height: 6-8 Storey
Built-up Areas: 67,102m²
CITY IMAGE AND CHARACTER

Images of existing buildings

PALACE OF JUSTICE

Height: 2-5 Storeys
Built-up Areas: 53,081m²
Putrajaya International Convention Centre

Images of existing buildings

Height: 3 storeys
Built-up Areas: 93,374m²
Plenary Hall Capacity: 3000 person
Images of existing buildings

PUTRAJAYA CORPORATION COMPLEX

• Auditorium Hall: 1000 seating capacity
• Conference facilities: Junior Hall – 450 banquet seating or 1058 theatre seating capacity
NATIONAL MILLENNIUM MONUMENT

Symbolises the historical and economic progress of Malaysia
SERI WAWASAN

Single span supported by stay cables
Span : 240 m
PUTRA BRIDGE

Inspired by the Khaju Bridge, Isfahan
Span : 435 m
SERI GEMILANG

Inspired by Port Alexandre III, Paris
Span : 372 m
CITY IMAGE AND CHARACTER

BRIDGES IN PUTRAJAYA

SERI SAUJANA
Single span cable stayed arch bridge
Span : 300 m
Putrajaya is a popular tourist destination due to its natural environment, greenery, ample recreational space and timeless architecture.
• 20 Ministries & 50 government departments / agencies have moved to Putrajaya
• 4 Ministries to be moved to Putrajaya
• 4 Ministries to be remained in Kuala Lumpur
Images of Putrajaya

Parcel C
Height: 7-13 storeys
Built-up Areas: 155,320m²

Ministry of Science, Technology and Innovation
And other Government Departments

Parcel D
Height: 5-13 storeys
Built-up Areas: 214,916m²

MINISTRY OF RURAL & REGIONAL DEVELOPMENT
MINISTRY OF HUMAN RESOURCE
MINISTRY OF TRANSPORT
MINISTRY OF HOME AFFAIRS
MINISTRY OF ENTREPRENEURIAL
AND COOPERATIVE DEVELOPMENT

Height: 8-15 storeys
Built-up Areas: 49,308m²

NATIONAL REGISTRATION DEPARTMENT

Height: 5-15 storeys
Built-up Areas: 66,659m²
Images of Putrajaya

Ministry of Plantation Industries and Commodities

Height: 14 storeys
Built-up Areas: 78,565m²

Ministry of Domestic Trade and Consumer Affairs

Height: 14 storeys
Built-up Areas: 77,135m²
MINISTRY OF AGRICULTURE AND AGRO-BASED INDUSTRY

Height: 18 Storeys
Built-up Areas: 123,313 m²

MINISTRY OF NATURAL RESOURCE AND ENVIRONMENT

Height: 18 storeys
Built-up Areas: 57,737 m²
COMMERCIAL DEVELOPMENT
Alamanda Shopping Centre
Retail, Food & Beverage, Cinema, Bowling Alley, Hypermarket, Departmental Store, Leisure

“Great place to take a break and enjoy the week-end afternoon or just hang around…….”
Putrajaya Shangri-La Hotel

- Operated since 4\textsuperscript{th} February 2003
- 5-star hotel with 118 (nos) rooms
- Managed by Shangri-La International Hotels & Resorts Limited
COMMERCIAL DEVELOPMENT

Menara PJH

Office & Retail Development 4C11

Images of Putrajaya

Office & Retail Development 3C4
COMMERCIAL DEVELOPMENT

IMAGES OF PUTRAJAYA

SOUQ

SELERA PUTRA
IMAGES OF PUTRAJAYA
PUTRAJAYA NATIONAL DAY PARADE

IMAGES OF PUTRAJAYA
THANK YOU

www.ppj.gov.my