





SEMINAR ON EMERGENCE OF FUTURE CITIES

"SUSTAINING FUTURE CITIES"

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- **OBACKGROUND**
- **2** KEY TARGETS FOR JOHOR
- PLANNING FOR THE FUTURE CITIES OF JOHOR
- THE WAY FORWARD

SUSTAINING FUTURE CITIES BACKGROUND

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Town Planning: Definition



"Town planning is the art and the science of ordering the land-uses and siting of the buildings and communication routes so as to secure the maximum level of economy, convenience and beauty"

(Keeble, 1969)



Future Cities



Expectations?

Smart Technologies, Connected Infrastructure, Resilient, Sustainable & Responsive

How to make the City as a Better Place?



Current Future Cities Emergence



Taipei: Designing the Future of Urban Living



Rio De Janeiro : Building a Smarter, more Inclusive City



Amsterdam : The Future of Smart
City Masterplans



Singapore : A model for Sustainable Urban Growth



Dubai: The Modern-Day Crossroads of the World

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Planning for Future Cities

Smart Physical Planning

Creates **FUTURE CITIES** **DEVELOPMENT PLANS** - Resource Allocation -

DEVELOPMENT CONTROL - Planning Approval -

BUILDING & CONSTRUCTION - Property Development -

LAND ADMINISTRATION - Title Registration & Ownership -

URBAN GOVERNANCE - Property Occupation & Maintenance -

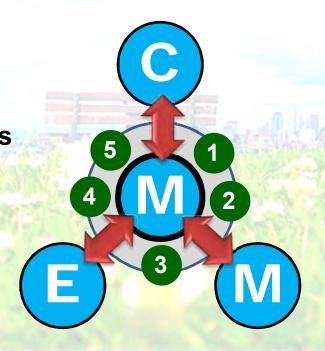
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PEOPLE CENTRIC GOALS - Public Involvement -

Total Planning & Development Doctrine

a balance between physical development and human development in terms of spiritual and noble universal values for the SUSTAINABLE PROGRESS

of the country.



THREE KINDS OF RELATIONSHIP



Relationship between Man and the Creator



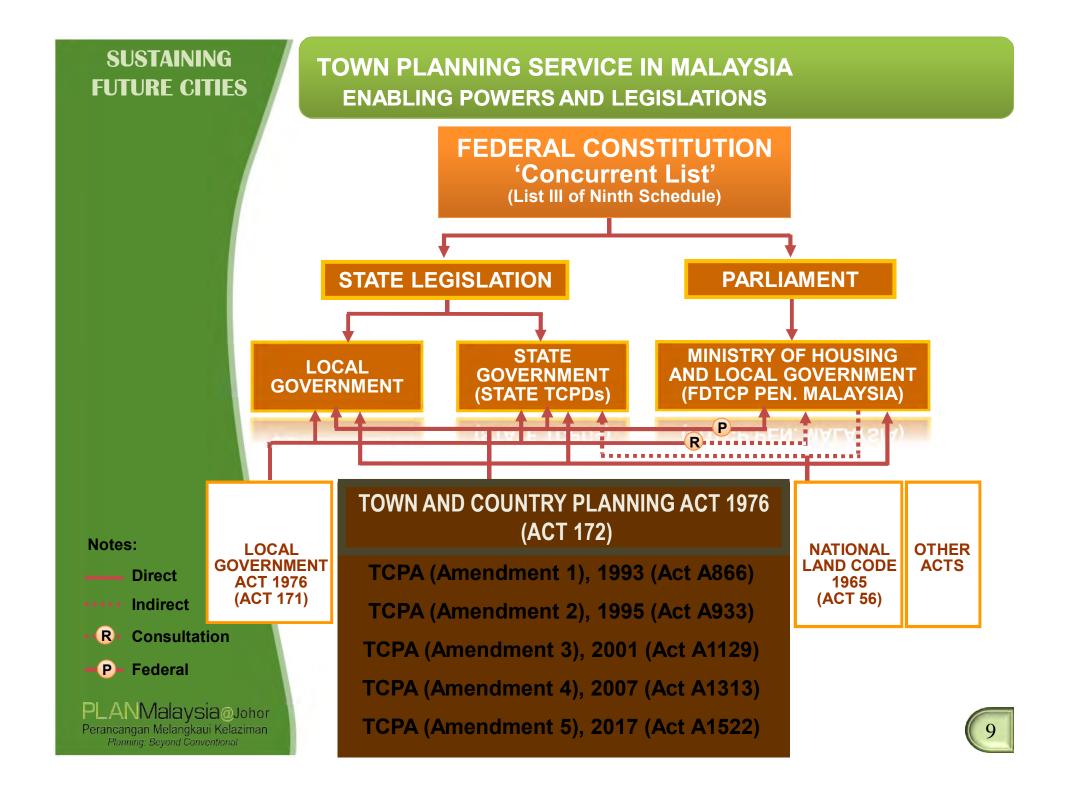
Relationship between Man and Man



Relationship between Man and the Environment

PLANNING PHILOSOPHY

- **1** Holistic
- 2 Man as Focus of Development
- 3 Multi-dimensional Activity
- 4 Quantitative & Qualitative Changes
 - 5 Fair Distribution and Use of Resources



Malaysia Planning Mechanism/ Institutional Hierarchy

1

NATIONAL PHYSICAL PLANNING COUNCIL (Sec. 2A(1), Act 172)

NATIONAL LEVEL

- National Level Resource Allocation
- National Physical Plan

2

STATE PLANNING COMMITTEE (Sec. 4, Act 172) STATE LEVEL

- State Level Resource
 Allocation
- State Structure Plan

3

LOCAL PLANNING AUTHORITY (Sec. 6(1A), Act 172) **LOCAL LEVEL**

- Planning Implementation
- **Local Plan**
- Special Area Plan

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National Physical Planning Council (NPPC)

- Sec. 2A(1), Act 172



- Main Function:
 - "To encourage town and country planning as an effective and efficient instrument for the improvement of the physical environment"
- Chaired by: Honourable Prime Minister
- Meeting: Every 4 months

State Planning Committee (SPC) – Sec. 4, Act 172



Main Function:

- To promote conservation, use and development of lands in the State;
- To regulate, control, plan and co-ordinate all development activities in the State; and
- To advise the State Government on matters relating to the conservation, use and development of lands in the State.
- Chaired by: Honourable Chief Minister
- Meeting:3-5 times per year

National Spatial Planning Framework

Vision 2020 TN 50

STAGE 1: NATIONAL PLANNING

MALAYSIA 5-YEAR PLAN







STATE
DEVELOPMENT
PLANS







LOCAL PLAN



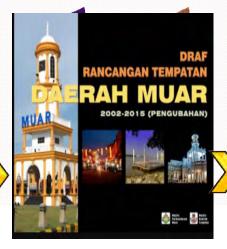
SPECIAL AREA
PLAN

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Development Plans









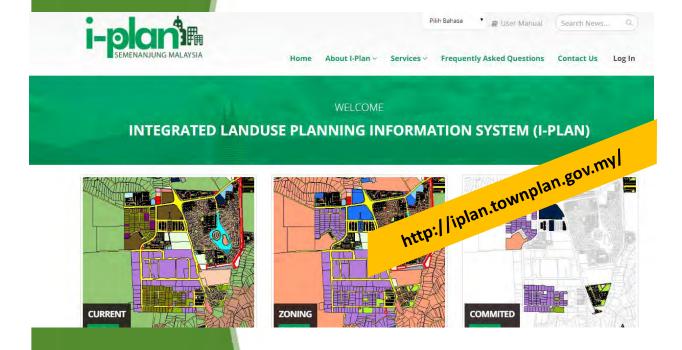
NATIONAL PHYSICAL PLAN (SEC. 6B, ACT 172)

STRUCTURE PLANS (SEC. 8, ACT 172) LOCAL PLANS (SEC. 12-15, ACT 172) SPECIAL AREA PLANS (SEC. 16B, ACT 172)

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Planning Database Tools: Iplan



WHAT IS LAND USE PLANNING INFORMATION SYSTEM (I-PLAN)?

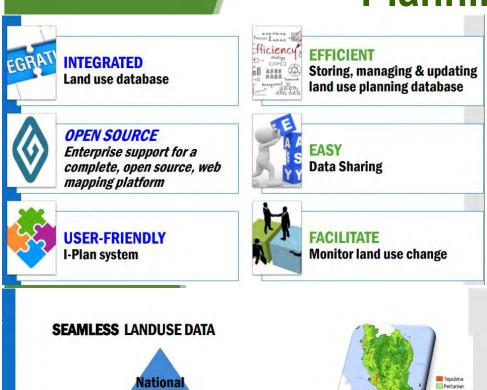
I-PLAN contains a geo-database and web based application that shows land use information.

THE IMPORTANCE OF LAND USE DATA:

The information is used to manage and plan the development, and also to control the use of land and natural resources

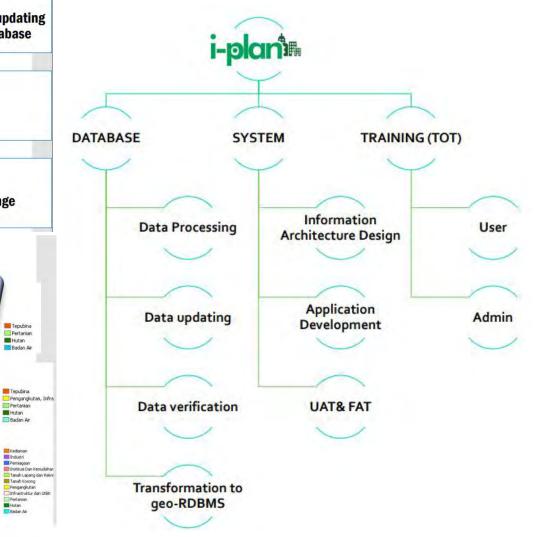


Planning Database Tools: Iplan



Hutan

Hutan



(Peninsular Malaysia)

State

(11 State & 2 Federal

Territory)

Local

(101 Local Authority)

Planning Database Tools: GeoJohor



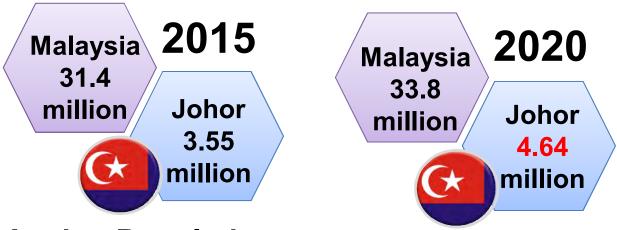
GeoJohor was developed as a Johor Land Use database information system

- To assisst
 PLANMalaysia@Johor (JPBD Johor), public, Local Authorities and other technical agencies
- A sharing of geospatial information system
- To be used as planning tools to develop planning framework, development policies & strategies

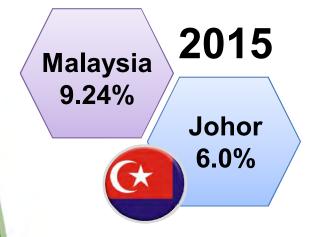


Malaysia's & Johor's Present Status

Population



Ageing Populations (65 yrs old and above)

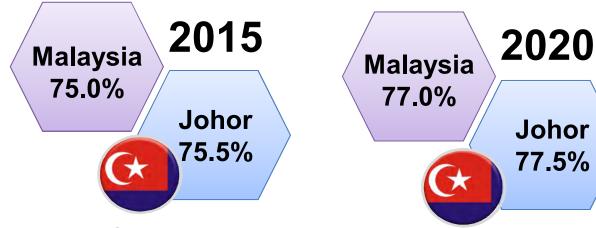






Malaysia's & Johor's Present Status

Level of Urbanisation



Urban Status





Related Development Policies & Strategies:

International Initiatives:

- ✓ Habitat III New Urban Agenda
- ✓ Green Cities, Green Communities
- ✓ Global Warming & Climate Change
- ✓ Low Carbon City (LCCF)
- ✓ Green Economic Growth
- ✓ Resilient Cities

National Policies & Strategies:

- √ 11th Malaysian Plan
- ✓ National Physical Plan 2 and 3
- ✓ National Coastal Physical Plan
- ✓ Central Forest Spines (CFS)
- ✓ National Rural Physical Plan 2030



Related Development Policies & Strategies (cont.):

National Policies & Strategies (cont.):

- ✓ National Urbanisation Policy 2
- ✓ National Green Technology Policy
- ✓ National Policy on the Environment
- ✓ Sustainable Development Goals
- ✓ National Policy on Climate Change

State Policies & Strategies:

- ✓ State Structure Plan
- ✓ Johor Economic Masterplan ✓ Johor Sustainable Policy
- ✓ Johor Straits Development **Corridor Masterplan**
- Dasar Kelestarian Johor

- ✓ Johor Utility Corridor
- ✓ Johor Strategic Growth Plan
 ✓ Johor Strategic Growth Plan

 - ✓ Comprehensive Development **Plan ii 2025**
 - ✓ Local Plans, Special Area Plans

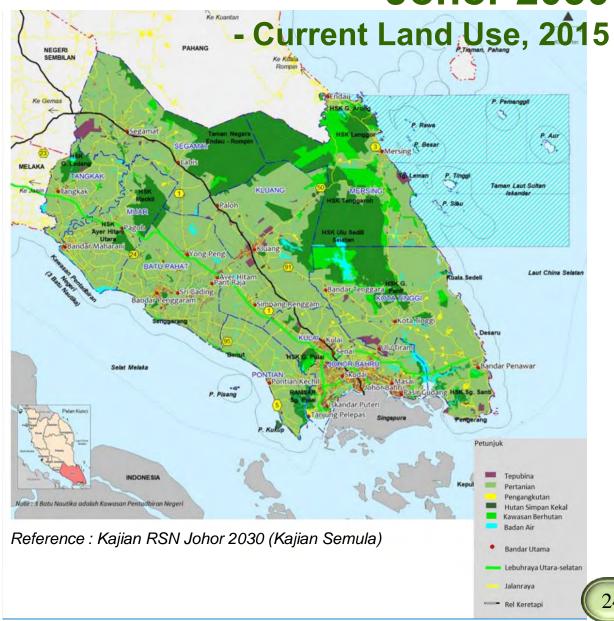
Other Concepts & Planning Approaches:

- ✓ Forest Linkages
- ✓ Green Oriented Development
- ✓ Vertical and Urban Farming
- ✓ Urban Rural Linkages
- ✓ Brownfield Development, Renewal Regeneration



Draft State Structure Plan (review) Johor 2030





Draft State Structure Plan (review) Johor 2030





Draft State Structure Plan Johor 2030

- State Planning Thrusts

Dynamic and Balance Growth
Between Southern Conurbation and
Areas outside Southern Conurbation

PLANNING THRUSTS DSSP Johor 2030 (Review) International Level of Connectivity; and Transportation & Infrastructure Systems

Sustainable Community Well-being

Smart, Effective & Competitive Governance

STATE SPATIAL DEVELOPMENT OBJECTIVES

4

Dynamic & Balance Development

Liveable Environment

State and Regional Network

Urban and Rural Symbiosis

Conservation of Natural Assets





Planning for The Future City of Johor

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Challenges to Create Future Cities

- Growth in population and meeting the needs of segments of population
 an ageing population
- Increased human mobility and the globalisation of economies and risks
- Geo-political shifts and changes in governance framework
- Inequality (create social tensions) and insecurity (food, water, energy)
- Developing advanced technologies and impacts of bclimate change



Key Elements to the Success of Future Cities

Five essential ingredients to the success of future cities are:

- 1) Vision
- 2) Entrepreneurship
- 3) Specialisation
- 4) Social cohesion
- 5) Governance



Concepts of Future City

By weburbanist.com



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SUSTAINING Expected Enablers of the Future FUTURE CITIES Cities in Johor Energy Infrastructure and Network Consumption **System Food Security** Financial and and **Monetary** Agriculture System

> **Environment** and Natural Resources Security

JOHOR as the National **Economic Powerhouse**

- Global Competitor

Health and Healthcare

Digital Economy and Society

Mobility

Economic Progress

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The Way Forward... Towards sustaining future cities in Johor?





...to be prudent with nature's gifts.

Present Planning Emphasis



Transit Oriented Development



Garden City, Green Cities

SUSTAINABLE FUTURE DEVELOPMENT



Urban Brownfield Redevelopment, and Infill Development



Integrated Development, Safe City, Liveable City and Compact City

Towards

TRANSIT ORIENTED DEVELOPMENT



- TODS developments linked to TRANSPORT NODES and LINKAGES
- PLANNED INTEGRATION of transport linkages
- Linked to EFFICIENT PUBLIC TRANSPORTATION SYSTEMS
- Reduce CAR-CENTRED DEVELOPMENTS
- SMART PARTNERSHIPSBetween Developer –Transport Operators

Public Transportation Target: Private Vs. Public MODAL SPLIT

70:30

By 2030:

Amount of space required to transport the same number of passengers by car, bus or bicycle.









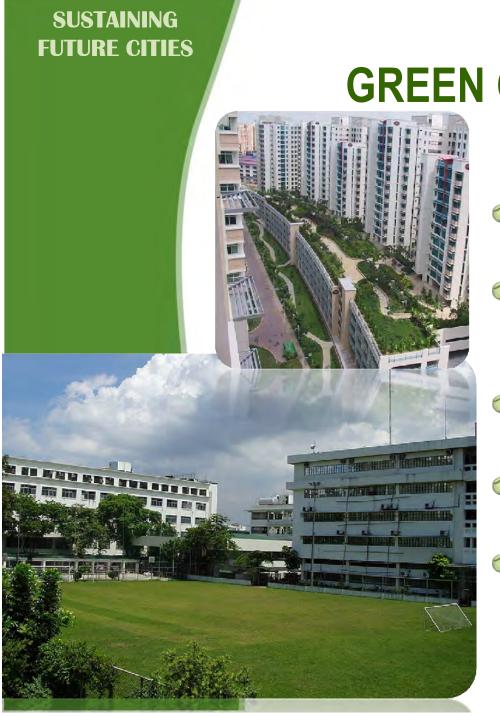
Integrated Public Transportation System

- Enhance Connectivity and Mobility
- Mass transport:
- HSR, BUS SYSTEM
- " Modal Split **50**: **50**
- One Hour Public Transportation Model
- Intermodal transportation
- Integrated ticketing system
- Enhance bus system
- Can we emulate CURITIBA BUS SYSTEM??
 - CURITIBA BUS RAPID TRANSIT SYSTEM
 - All stations are EASILY ACCESSED and ENCLOSED.
 - EASIER ENTRY AND EXIT to buses
 - COMFORTABLE and PREFERRED transportation choice

Building GREEN BUSSINESS INDUSTRY

- 1. Skill-intensive & high-value capital
- 2. Development of R&D
- 3. Local natural resources utilisation
- 4. High-tech, aerospace & IT industries
- Eco-friendly industries (non-polluting industries)
- 6. Business opportunities for local entrepreneurs
- 7. Industries that are not labour intensive





- Building GREEN CITIES, GARDEN CITIES
 - LAND ALLOCATION for open spaces
 - SEAMLESS NETWORK of green spaces, playing fields, etc.
 - Open spaces as CENTRE OF ACTIVITIES
 - Open spaces WITHIN BUILDINGS
 - Strictly ENFORCE GAZETTMENT of open spaces

Green Neighbourhoods



GN ELEMENTS

- Walkable Streets
- Bicycle Network and Storage
- Parking Managemant
- Green Network, playing fields, recreation
- Green Building
 - Green Roof
 - Rain Water Harvesting
 - Solar Orientation
 - Infrastructure Energy Efficiency







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Solid Waste Management

- Integrated SOLID WASTE MANAGEMENT
- Increase 3Rs
- Promote CHANGE IN LIFESTYLE?



"No plastic bags
Day"

3Rs concept is aimed to reduce the capacity of solid waste.

Streamline the Rural Development with the urban growth

- Develop growth areas as identified in Local Plans
- Provision and upgrading of infrastructure (roads, electricity, water, broadband)
- Provision of adequate Social facilities
 - Safeguarding rural environment from inappropriate encroachment
 - Safeguard environmental resources

We must not forget the rural areas in Sustaining Future Cities...

Follow through initiatives...





... CONCLUSION

Sustaining Future City is not merely a catch phrase

The crux of the matter is in implementing and ensuring that all our activities are deemed sustainable.



THANK YOU.

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Planning: Beyond Conventional

27 November 2017

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Sustainable Development



'Development that meets the needs of the present without compromising the ability of future generations to meet their own needs'



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National Physical Plan (NPP) – Sect. 6B, Act 172

"A written statement which formulates strategic policies to identify development direction of overall physical land use and conservation of resources in Peninsular Malaysia"

NPP 1 - Approved in 2005

NPP 2 - Approved in 2010

NPP 3 - Approved in 2015

Functions:

- To provide a physical dimension for socioeconomic planning;
- ii. Establish a framework for lower tier planning at regional, state and local levels; and
- iii. Prepare policies and physical planning guidelines.

RANCANGAN STRUKTUR NEGERI JOHOR - 2020

Gazetted on 3.1.2008



Currently in the process of reviewing the report.

State Structure Plan (SSP)

- Sec.8, Act 172

"A written policy which explains the proposed state strategies and policies on the development and use of land for a 15 to 20 year plan period"

Functions:

- i. Translate policies of the National Physical Plan;
- ii. Identify main land uses at the State level;
- iii. Identify main State projects; and
- iv. Provide framework for Local Plan

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Local Plan – Sect. 12-15, Act 172

"A detailed development plan which translates policies and proposals of the State Structure Plan into local development context"

Functions:

- i. Translate the policies of the Structure Plan;
- ii. A physical development guide for the respective district through the proposed land use plan;
- iii. Identify main projects of the district;
- iv. Preparation of Implementation Guidelines to guide implementation; and
- v. Aided with Subject Plans for sectoral development implementation.



Special Area Plan (SAP) – Sect. 16B, Act 172

"A detailed development plan prepared within a short period of time for implementation and management"

The main output: Development Action Plan

Categories of SAP:

- i. Redevelopment of areas within urban centres;
- ii. Heritage Conservation Areas;
- iii. Environmental Sensitive Areas;
- iv. Resettlement of Communities; and
- v. Special Area For Specific Needs.

