

NEWSLETTER



RESEARCH AND DEVELOPMENT (R&D) DIVISION



MESSAGE ...



FROM THE DIRECTOR OF R&D



Greetings from R&D and welcome to 'The Orange', R&D's third Newsletter!

This Newsletter is aimed to foster closer collaboration between R&D with other divisions in FDTCP, government agencies and researchers from university, professional bodies and research institutions, through sharing our works, information and programs. Research and development often associated with new approaches and methodologies which are experimented in R&D Division. R&D's 'business' is reflected in its five clusters, where other than focus on formulating planning guidelines, it also involve in exploring and researching various aspects of landuse planning from the aspects of sustainability and the environment, up to the subjects of compact city, ubiquitous city as well as planning for the elderly. I hope this Newsletter shall become a platform for research sharing and enhance friendships. Happy researching town planning!

*Hji. Muhammad Ridzuan Arshad
Acting Director*



FROM THE EDITOR

Salam and Greetings everyone.

Welcome to the third issue of the R&D Division's Newsletter. This Newsletter is aimed to disseminate and share information on research works and activities carried out by the R&D Division of the Federal Department of Town and Country Planning, Peninsular Malaysia. It is hoped that this Newsletter can foster better research collaboration and networking amongst planners and other professionals in related to planning and development fields. Happy reading!

Dr. Alias Rameli

MyTownNet

www.mytownnet.blogspot.com

The Repository For Town Planners and Urban Managers

To accommodate the need for efficient dissemination of town planning guidelines and other research materials, the Research and Development Division (R&D), Federal Department of Town and Country Planning (FDTCP) Peninsular Malaysia has taken the initiative to develop its special website, Malaysian Town Planning Research Network, which is known as MyTownNet. This website aims to ensure that users, comprising town planners and other professionals, government agency and local authority officers, academicians, students and the public have easy access online to almost all research materials produced by the R&D Division. The ultimate aim of this website is to be the repository for all town planning research materials produced in Malaysia.

MyTownNet has fourteen (14) columns, namely Planning Guidelines, Planning Research Studies, Conference Proceedings, Malaysian Townplan Journal, Selected Planning Articles, Coffee Table Books, Planning Thesis, Book Review, Newsletter, Planning General Info, Research Forum, Research Directory, Research Collaboration and Research Events. All documents contained in this website can be browsed through by users at anytime, anywhere, and it is also free for downloading and printing.

Other than being the repository (storage) for research materials, this website also functions as the hub for research sharing and collaboration (through the research forum column that is directly connected to Facebook); reference centre for planning general information and events; and data centre to record the latest status of preparation and approval of planning guidelines.

MyTownNet has been recognized both locally and internationally, and will continue to create value and to enrich knowledge of urban planning and development not only among urban planners and managers, but also to the public.



MyTownNet
– R&D's
Innovation for
the World of
Town Planning

RESEARCH AND DEVELOPMENT (R&D) DIVISION

STATUS OF PLANNING GUIDELINES



PLANNING GUIDELINES UNDER REVIEW

	PLANNING GUIDELINES	JPP JPBD	JPP KPKT	CM/NPPC/NCLG
1.	PLANNING GUIDELINE FOR HOUSING	15 December 2010 18 August 2011	17 December 2012	• Will be tabled to CM and NCLG
2.	PLANNING GUIDELINE FOR INDUSTRIAL	18 August 2011	-	-
3.	PLANNING GUIDELINE FOR COMMERCIAL	23 March 2011	17 December 2012	• Will be tabled to CM and NCLG
4.	PLANNING GUIDELINE FOR COMMUNITY FACILITIES	26 October 2010	14 June 2012	• Will be tabled to NCLG
5.	PLANNING GUIDELINE FOR OPEN SPACE AND RECREATION	30 October 2009 26 October 2010 13 December 2011	-	-
6.	PLANNING GUIDELINE FOR INFRASTRUCTURE AND UTILITY	23 March 2011	-	-
7.	PLANNING GUIDELINE FOR COMMON UTILITY TRENCH	10 June 2011	8 July 2011	• CM - 20 April 2012 • NPPC - 27 July 2012
8.	PLANNING GUIDELINE FOR ENVIROMENTAL SENSITIVE AREA	13 December 2011	-	-
9.	PLANNING GUIDELINE FOR MOSQUE AND MUSOLLA	28 May 2009	22 March 2010	-
10.	PLANNING GUIDELINE FOR BUDDHIST AND HINDU TEMPLE, CHURCH AND GURDWARA	11 February 2010	12 January 2010	• CM - 28 July 2010
11.	PLANNING GUIDELINE FOR CEMETERY AND CREMATORIUM	26 October 2010	26 July 2012	• Will be tabled to CM and NCLG
12.	PLANNING GUIDELINE FOR VEHICLE PARK	18 August 2011	17 December 2012	• Will be tabled to CM and NCLG
13.	PLANNING GUIDELINE FOR MARINE PARKS AND ISLANDS DEVELOPMENT	10 June 2011	18 May 2012	• Will be tabled to CM and NPPC
14.	PLANNING GUIDELINE FOR THEME PARK	30 October 2009	9 August 2011	-
15.	PLANNING GUIDELINE FOR ROOFTOP GARDEN	30 October 2009 26 October 2010	9 August 2011	-
16.	PLANNING GUIDELINE FOR UNIVERSAL DESIGN	1 April 2010	18 October 2010	• CM - 4 May 2011 • NCLG - 23 May 2011 • CSM Circular - 8 July 2011
17.	PLANNING GUIDELINE FOR GOLF COURSE	10 September 2009	-	-

Approved by JPP KPKT = 12

Queue for JPP KPKT = 05

NEW PLANNING GUIDELINES

	PLANNING GUIDELINES	JPP JPBD	JPP KPKT	CM/NPPC/NCLG
1.	PLANNING GUIDELINE FOR EXTERNAL BILLBOARD	-	-	• CM - 31 October 2008 • NCLG - 02 December 2008 • CSM Circular - 22 January 2009
2.	PLANNING GUIDELINE FOR GATED COMMUNITY AND GUARDED NEIGHBOURHOOD	10 September 2009	10 December 2009	• CM - 28 July 2010 • NCLG - 2 September 2010 • CSM Circular - 20 October 2010
3.	PLANNING GUIDELINE FOR IDENTIFICATION FOR REDEVELOPMENT OF BROWNFIELD SITE	28 May 2009	28 April 2010	• CM - 07 October 2011 • NCLG - 21 March 2012
4.	PLANNING GUIDELINE FOR GREEN NEIGHBOURHOOD	15 December 2010 18 August 2011	09 August 2011	• CM - 25 November 2011 • NPPC - 20 March 2012
5.	GUIDELINE FOR ESTABLISHMENT OF PRE-SCHOOL AND CHILDCARE CENTRES	10 June 2011	06 July 2011	• CM - 09 December 2011 • NCLG - 21 March 2012
6.	PLANNING GUIDELINE FOR HEAVY VEHICLE TERMINAL	15 December 2010	12 September 2011	• CM - 9 November 2012 • NPPC - 7 December 2012
7.	PLANNING GUIDELINE FOR BACK LANE	15 December 2010	19 January 2012	• Will be tabled to CM

NEW PLANNING GUIDELINES (UNDER PREPARATION)

PLANNING GUIDELINES

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. PLANNING GUIDELINE FOR LIVEABLE AND COMPACT CITY 2. PLANNING GUIDELINE FOR FLOATING CHALET | <ol style="list-style-type: none"> 3. PLANNING GUIDELINE FOR SENIORS LIVING (AGED-FRIENDLY) 4. PLANNING GUIDELINE FOR UBIQUITOUS CITY |
|--|---|

Note :
 CM - Cabinet Meeting; NCLG - National Council for Local Government; NPPC - National Physical Planning Council; CSM Circular - Circular of Chief Secretary for MHLG; JPP JPBD - Planning and Development Committee of FDTCP; JPP KPRT - Planning and Development Committee of MHLG; MHLG - Ministry of Housing and Local Government; FDTCP - Federal Department of Town and Country Planning Peninsular Malaysia.

RESEARCH AND DEVELOPMENT PROGRAMS 2012

PUBLIC OPEN SPACE DATA INVENTORY

- Half Year Report on Public Open Space Status in Peninsular Malaysia

REVIEW OF THE MALAYSIAN URBAN INDICATORS NETWORK (MURNInets) STUDY

- Re-branding of MURNInets and review of MURNInets Indicators
- Improvement of MURNInets Gateway System (*Gerbang MURNInets*)

EXPERT TALK / PUBLIC LECTURE

- Town Planning Public Lecture – Managing Disputes in Town Planning
- Expert Talk on Making Malaysian Cities Compact And Liveable

RESEARCH STUDY ON URBAN AND ENVIRONMENTAL PLANNING

- Implementation of 5 Green Neighbourhood Initiatives:
 - Pedestrian Walkway
 - Bicycle Lane
 - Rainwater Harvesting And Collection System (SPAH)
 - Waste Composting
 - Community Farming
- Research on Outcome and Impact Assessment for Planning Guideline of Gated Community And Guarded Neighbourhood
- Research Studies on Planning Action Plan of Environmental Sensitive Area Management in Landuse Planning;
- Pilot Study on Happiness Index In Malaysia

NEW APPROACH/CONCEPT/TECHNIQUE IN URBAN PLANNING

- Studies on Liveable And Compact City In Malaysia
- Social Impact Assessment for Project Development

POLICY EVALUATION AND INTERNATIONAL RESEARCH

- Malaysian Town Planning Research Network (MyTownNet)

COLLABORATION WITH OTHER AGENCIES

- Senior Citizen Lab (NKEA LAB)
- Urban Revitalization Program for Urban Vulnerable Groups Lab (EPU LAB)
- Report on Sustainability Assessment for Rembau District Local Plan – Collaboration with PPZS and JPBD Negeri Sembilan
- Research Collaboration with UTM on Brownfield Development
- Joint Coordinating Meeting For Low Carbon Asia Project (UTM-Kyoto University-IRDA)
- Academy Science Malaysia (ASM) Task Force On Climate Change and Water Resources
- Research Collaboration with Local Universities and Planning Related Research Institutions

OTHER PROGRAMS

PUBLICATIONS

- Malaysian Townplan Journal 2012 Vol.(9) : Planning in Multicolour
- R&D Division Newsletter
- Coffee Table Book for Alor Setar City
- Standard Magazine Malaysia (FOMCA) : Role of Green Cities In Sustainable Development

OCCASIONAL PAPER SERIES

- Occasional Paper Series relating to Various Scope and Activities of Urban Planning
 - Mixed Use Development and Transit Oriented Development (TOD)
 - Green Initiatives Towards Food Security in Malaysia
 - Revitalizing Urban Development in Malaysia Through The Implementation of Urban Regeneration Program
 - Compact City Planning In Malaysia
 - Biodiversity in Planning

TEACH-IN PROGRAMS

- Teach-In Session on Manual of Social Impact Assessment For Project Development
- Teach-In on Guideline for Establishment of Kindergartens And Childcare Centre
- Teach-In on Malaysian Urban Rural National Indicators Network for Sustainable Development (MURNInets) - (Central, East, West, South and Sabah/Sarawak Region)
- Teach-In on Planning Guideline for Green Neighbourhood

CONFERENCE / FORUM

- 3rd Low Carbon Society Conference : 'Green Neighbourhood Planning Guidelines'
- National Conference on Extreme Weather And Climate Change : 'Impacts of Climate Change on Human Settlement Urban Area'
- APEC Low Carbon City Workshop : 'Green Township Initiatives In Malaysia : Green Neighbourhood Planning Guideline'
- EAROPH World Congress Green City for Human Betterment 2012: 'Planning Strategies, Guidelines And Action Plan For Green Neighbourhoods In Malaysia'
- JSPG-Asian Core Program And Water Forum : 'JPBD's Initiatives In Watershed Management'
- World Happiness Index : 'Malaysian's Initiatives with Local Authorities'
- Forum of Community Social Responsibility for Kuala Lumpur on Gated Community Issues
- Sabah Planning Conference 2012 : 'Planning Green City for Sustainable Future'
- Selangor Sustainable Development : 'Seminar Green Neighbourhood and Sustainable Development'

PLANNING AND DESIGN GUIDELINES FOR LIVEABLE COMPACT CITY

Major cities in Malaysia are experiencing the negative effects of sprawl, such as chronic traffic congestion and spatial segregation. To improve these situations, the national government has suggested the adoption of the compact city model for city planning and urban development. The drive for compact city is stipulated in Chapter 6 of the Tenth Malaysia Plan. The Plan has advocated that Malaysia should make its cities compact and efficient, as the way forward to create quality living environment. In translating this aim, the Federal Department of Town and Country Planning, Peninsular Malaysia (FDTCP) has formulated key strategies to promote compact city development in this country. These strategies are contained in the two national spatial policies - the National Physical Plan 2 (NPP-2) and National Urbanisation Policy (NUP).

NPP-2, among others, requires that the physical separation of cities, towns and villages be maintained, and high priority be given to urban regeneration and infill development. For example, strategy 16 emphasizes efforts to achieve efficient compact cities, while strategy 32 entails



Shinjuku, Japan

that Transit Oriented Development (TOD) concept be promoted as the basis for urban land use planning to ensure viability of public transport. In addition to that, Policy no. 5 of the National Urbanisation Policy (NUP) stresses on the need for optimal and balanced land use planning in urban development. This policy aimed to promote and ensure concentrated development within the urban growth limit, so as to create compact development.

Presently, the Research and Development Division of FDTCP has been given the task to create a new set of guidelines, focusing on the planning and design of a liveable compact city in Malaysia. The guidelines aim to provide local authorities, developers and other stakeholders, with the principles and strategies as well as the criteria in planning a city for compact and liveable living within the local context. The principles and strategies include aspects such as urban growth boundary, density, plot ratio, mixed-use development, public spaces and local identity urban design with green life style and safety elements. The guidelines also provide ideas on the implementation mechanism. In short, future Malaysian cities will need to experiment with compact urban form as an alternative in the future. This is with the hope that the planned compact city will increase urban living quality whilst maintaining local values of the communities.



Portland Urban Growth Boundary



Kuala Lumpur City

"HIJRAH" : From MURNInet to



Federal Department of Town and Country Planning, Peninsular Malaysia (FDTCP) has introduced Malaysian Urban Indicators Network (MURNInet) in 1998 as an innovative system to determine the sustainability level of an urban area by using a set of urban indicators. MURNInet is a programme to assess the performance and level of sustainability of Malaysian towns. 56 indicators were identified to be used to rank the sustainability level of towns when it was first conceived.

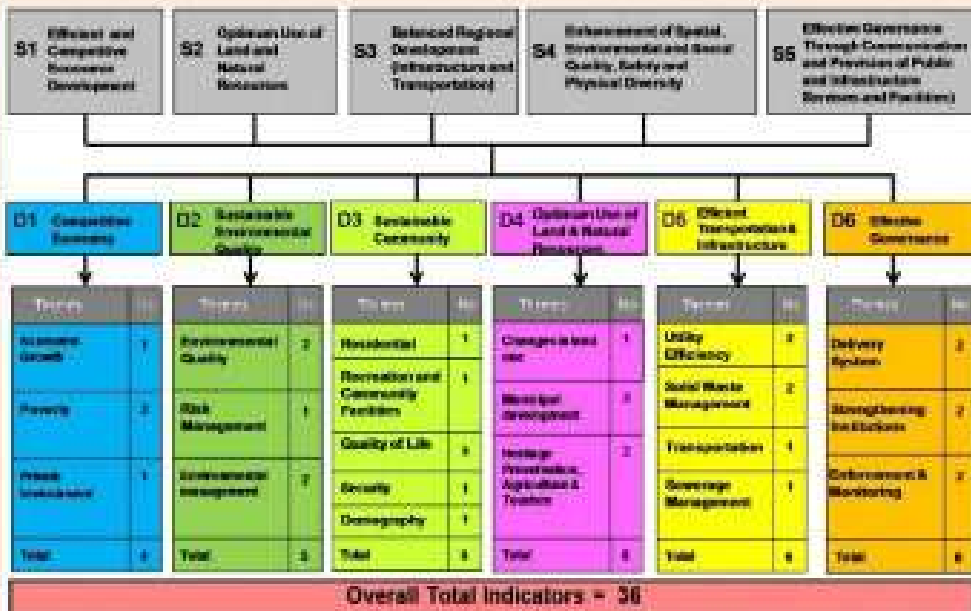
Based on pilot projects carried out in 2002 on 6 towns, namely Kuantan, Georgetown, Johor Bahru, Kuching, Batu Pahat and Pasir Mas, an agreement was reached to use only 38 indicators for the assessment purposes this is due to data availability. In 2010, two more indicators were added : (1) percentage of public amenities land use, and (2) the percentage of public transport users. However after ten years of implementation due to emerging issues on the review and strengthening of MURNInet commenced such as local authority's participation, the choice of indicators and characteristics of indicators, the Research and Development, FDTCP, has agreed to review the framework and overall content of MURNInet. This includes the formulation of the Sustainable Development Strategies based on the National Physical Plan (NPP) and the government policies such as Vision 2020, the New Economic Model, Tenth Malaysia Plan and also the Government's Transformation Program.

In line with this, MURNInet is rebranded and is now known as the Malaysian Urban Rural National Indicators Network on Sustainable Development (MURNInets). The review asserts that indicators is no longer divided according to "sectors", as sustainable development is a cross and multisectoral concept encompassing all pillars of development. Within the review process, the relevant available indicators in MURNInet were modified and new targets are set accordingly. New indicators are also introduced. The new features of MURNInets include 36 sets of compulsory indicators grouped under 21 themes

under 6 dimensions. Most of the targets and standards for

the selected indicators were adjusted according to hierarchies of local authorities. In MURNInets (the newer version MURNInet) at least 3 main new features are introduced. This include the Happiness Index, an indicator under the Quality of Life theme to meet the current development trend that emphasizes on the well-being of the community. Another feature introduced is the customer or people satisfaction level towards local authority's services. Both the indicators involve primary survey as input. Another important feature of the MURNInets is the ability to extract certain relevant indicators to measure the performance of certain government's campaign or initiatives such as the 1Malaysia Green & 1Malaysia Clean Campaign.

The Analytical Hierarchy Process (AHP) technique was introduced and applied to derive at the sustainability index by giving weights to each dimension and themes and ratings to each indicators. The online portal has also been reviewed and redeveloped thoroughly and improvements are made to enable users (Local Authorities, Data Providing Agencies) MURNInets Operations Centre and the public to access MURNInets to view data or even to obtain information relating to sustainable urban indicators. The sustainability level of cities will only be computed and generated until all data are fully keyed in by participating local authorities.



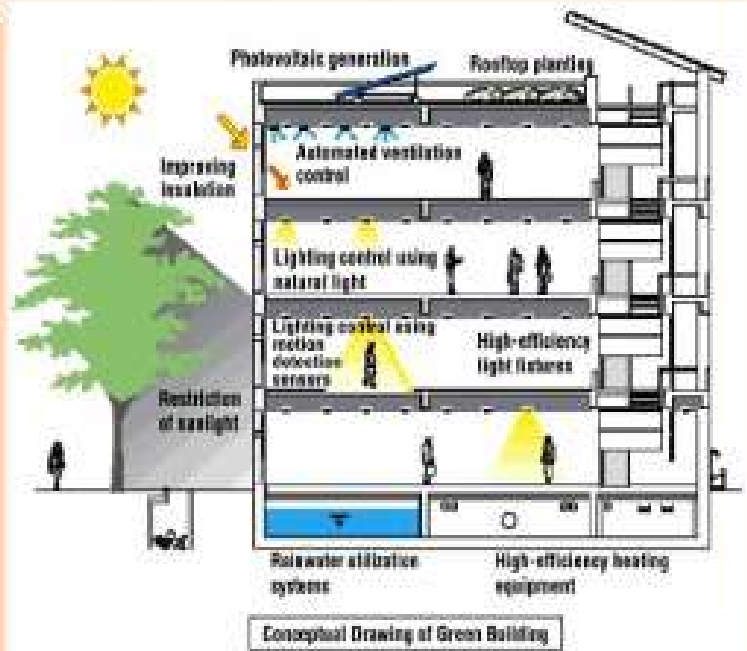
MURNInets has been officially launched by the Minister of Housing and Local Government, on 7 November 2012 during the World Town Planning Day 2012. Eight local authorities involved in the test run of MURNInets done in mid-year of 2011 were acknowledged for their contributions in realising the mission of the study. In year 2012 pre-implementation of MURNInets was done by all local authorities in Malaysia, guided and assisted by the National and the State MURNInets Operations Centre. In conclusion, the improvement, strengthening and "hijrah" from MURNInet to MURNInets shall give a better understanding and exposure on the progress towards Sustainable Development in Malaysia.



GREEN NEIGHBOURHOOD PLANNING GUIDELINES

The main purpose of the Green Neighbourhood Planning Guidelines is to design a sustainable neighbourhood which is focused on reducing carbon emission. It is a publication from the Ministry of Housing and Local Government prepared by the Federal Department of Town and Country Planning Peninsular Malaysia (FDTCP) as part of the nation's efforts towards achieving the target of reducing 40% of the carbon intensity by 2020 compared to 2005 level. The Planning Guidelines emphasise on the usage of "green technology" and "green lifestyle". The seven significant planning components in planning and designing a green neighbourhood are:

- Ecology and Environment
- Green Environment
- Neighbourhood Design and Transportation
- Green Building
- Water, Energy and Waste Management
- Green Community
- Innovation



Implementation Guidance For Five Initiatives of Green Neighbourhood Development

The guidance is aimed at assisting local authorities and agencies to implement five (5) selected initiatives as follow:

1. Provision of Pedestrian Walkways

To encourage the public not to use motorised vehicles so as to reduce carbon emission and promote social interaction within the community.

2. Provision of Bicycle Lanes

Cycling is an alternative mode of transport for short distance trip with zero carbon emission. It also helps to promote social interaction within the community.

3. Rainwater Harvesting System

It is a sustainable source of water supply which helps in reducing consumption of treated water. The non-potable water from the system can be used for watering plants, flushing toilets and cleaning the compounds of buildings. It will reduce carbon emission by reducing the energy used for producing treated water.

4. Waste Composting

Waste composting is aimed at reducing waste generated which would otherwise be disposed in the landfill site.



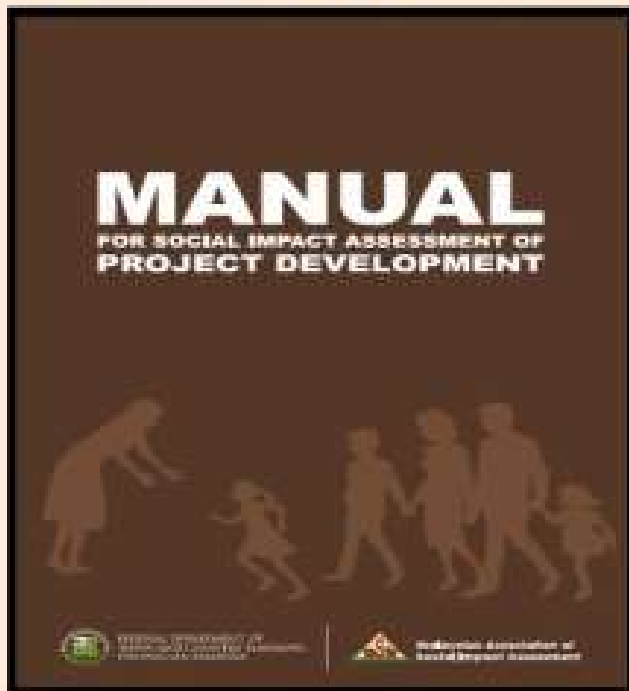
The concept is to return the organic waste back to nature and reduce environmental pollution. It is also an environmentally friendly practice to reduce dependence on chemical fertilizers.

5. Community Farming

This activity will reduce carbon emission by reducing the need for residents to use motorised vehicles to obtain their supply of vegetables. They can get their own vegetables from the community gardens. Through creating this "green community" within the neighbourhood, it is also helping to establish good relationship within the community.

SOCIAL IMPACT ASSESSMENT (SIA) FOR PROJECT DEVELOPMENT

Social aspects of project development have indeed become a very important agenda world-wide. Countries like Australia, Europe, New Zealand and the United States of America have included the social dimension in the planning process and mandated the requirement in project development. More recently, town planners, decision makers and political leaders in the country have recognised the need for better understanding of the social consequences from the projects. It is time for us to ensure that Social Impact Assessment (SIA) at project level is well incorporated in the process. This is in line with the aspiration of the government in striving to be people-centric in the process of decision making. Furthermore, the legal mandate for SIA has also been reflected in section 21A (1A) of the Town and Country Planning Act, 1972 (Act 172) which states the need to include an analysis of the social implications in the preparation of the Development Proposal Report for applications for planning permission.



In response to this need, the Federal Department of Town and Country Planning (FDTCP) in collaboration with the Malaysian Association of Social Impact Assessment (MSIA) have formulated the Manual for Social Impact Assessment of Project Development. The Manual has been tabled to the National Physical Planning Council chaired by the Prime Minister of Malaysia, on 27th July 2012. The Manual will serve as a useful source of reference to project proponents from both the private and public sectors towards ensuring that development-related decisions and outcomes take cognisance of social impacts.

This manual will be of practical use to social impact assessors and local planning authorities with a view to secure a good and reliable SIA input into the development planning process – thereby leading to better decision in project planning, siting and mitigation measures.



MAIN ACTIVITIES



TEACH-IN

Teach-In Session on Malaysian Urban Rural National Indicators Network on Sustainable Development (MURNInets) (Central & South Region)

- 17 - 18 April 2012
- Berjaya Times Square Hotel, Kuala Lumpur



WORKSHOP

Workshop and Special Consultation on Open Space and Housing Planning Guidelines

- 3 May 2012
- M.S. Garden Hotel, Kuantan



EXPERT TALK

Expert Talk 2012 : 'Making Malaysian Cities Compact and Livable'

- 8 May 2012
- Putra KL Hotel, Kuala Lumpur



TEACH-IN

Teach-In Session on Social Impact Assessment (SIA) Manual for Project Development

- 3 December 2012
- Grand Seasons Hotel, Kuala Lumpur

OTHER PROGRAMS..

- I. **APEC Low Carbon City Workshop on 'Green Neighborhood Planning Guidelines'**
8 March 2012, Organized by KOTTA
Attended by Dr. Laila Basy
(Deputy Director General, FOTCP)
- II. **3rd SATREPS (Science & Technology Research Partnership for Sustainable Development) Meeting and Technical Visit**
9-13 April 2012, Kyoto and Okayama, Japan
Attended by Mr. Hassan Ibrahim (R&D, FOTCP)
- III. **Teach-In Session on Malaysian Urban Rural National Indicators Network on Sustainable Development (MURNInets) (South, East, North and West Region)**
17 - 18 April 2012, Berjaya Times Square Hotel, Kuala Lumpur
- IV. **Teach-In Session on Malaysian Urban Rural National Indicators Network on Sustainable Development (MURNInets)**
16 - 17 May 2012, Promenade Hotel, Kota Kinabalu, Sabah
- V. **Workshop of Report Guide 5 Implementation Initiative Green Neighborhood**
22 May 2012, PUSPANITA Puri, Putrajaya
- VI. **JPBD Town Planning Public Lecture 2012 (Managing Disputes in Town Planning)**
23 May 2012, FOTCP Kuala Lumpur
Presented by Professor Lawrence Suskind
(Ford Professor of Urban and Environment Planning, MIT USA)
- VII. **Town Planning Expert Talk : Making Malaysian Cities Compact and Livable**
8 May 2012, Hotel Putra KL, Kuala Lumpur
Presented by Mr. Sidiq Osman (R&D)

- VIII. **International Symposium on Sustainable Low Carbon Asia Research and Policy Dialogue**
9 July 2012, Jalloh Bahru
Paper presented by Mr. Hassan Ibrahim
(R&D, FOTCP)
- IX. **Teach In Session On Nursery and Kindergarten Development Guidelines**
18 July 2012, Grand Blue Wave, Shah Alam
- X. **International Forum For Sustainable Asia and The Pacific Steering Towards A Sustainable and Resilient Future Beyond R10+20**
24-26 July 2012, Yokohama, Japan
Attended by Mr. Hj. Shamsiah Shamsuddin (R&D, FOTCP)
- XI. **Teach-In Session On Planning Guideline of Green Neighbourhood**
4 September 2012, Ritzia Svcfront Hotel, Ipoh
- XII. **23rd Eastern Regional Organization For Planning and Human Settlements (EAROPH) World Congress**
17 - 19 October 2012, Daegu, Republic of Korea
Paper presented by Mr. Muhammad Ridwan Anshad
(R&D, FOTCP)
- XIII. **5th ASIAN Ministerial Conference On Disaster Risk Reduction**
22 - 25 October 2012, Yogyakarta, Indonesia
Attended by Mrs. Nur Zalina Mohd. Fuzi (R&D, FOTCP)
- XIV. **World Town Planning Day 2012**
7 November 2012, Renaissance Hotel, Kuala Lumpur

Do You Know ?



UN's World Happiness Report listed that most of the happiest countries in the world are all in Northern Europe (Denmark, Norway and Finland). While the least happy countries are all poor countries in Sub-Saharan Africa. Malaysia was placed at 51st out of 156 countries. According to the report, it is not just wealth that makes people happy; political freedom, strong social networks and an absence of corruption are also important.

(Source :
World Happiness Report by United Nations
published by the Earth Institute,
Columbia University, 2012
<http://www.eartlinstitute.org/WHR/>)

This Newsletter is published by the Research and Development Division, Federal Department of Town and Country Planning Peninsular Malaysia

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DECEMBER 2012

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