

MEASURING SUSTAINABILITY CITIES AND COMMUNITY WELLBEING THROUGH THE MALAYSIAN URBAN RURAL NATIONAL INDICATORS NETWORK (MURNInets)



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JOHOR BAHRU | 9 – 10 FEBRUARY 2015



CHRONOLOGY- MURNInets IMPLEMENTATION PROGRAMME

1998

**MALAYSIAN
URBAN
INDICATORS
NETWORK
(MURNInet)**

DESIGN BY FDTCP
& CONSULTANT

11 sectors

56 indicators

2002

PILOT PROJECT ON 6 CITIES

(Kuantan,
Georgetown,
Johor Bahru,
Kuching, Batu
Pahat & Pasir
Mas)

11 sectors

56 indicators

2004

**APPLIED TO 8
CAPITAL
CITIES; Kangar,
Alor Star, Ipoh,
Shah Alam,
Seremban, Melaka,
Kota Bharu &
Kuala Terengganu**

11 sectors

38 indicators

2005 - 2006

ALL CAPITAL CITIES IN MALAYSIA --

Kuching & Kota Kinabalu

11 sectors

38 indicators

2007-2009

MURNInet Portal LAUNCHED - online data entry

11 sectors

38 indicators

2010

MURNINet INDICATOR MODIFICATION WORKSHOP

11 sectors

40 indicators

2011

REVIEW AND STRENGTHENING OF MURNInet

11 sectors

40 indicators

2012

Malaysian Urban Rural National Indicators Network for Sustainable Development (MURNInets)

36 indicators

21 themes

6 dimensions

MURNInets Portal Launched

MURNInets - INDICATORS

1	Employment growth rate	COMPETITIVE ECONOMY	19	The rate of change in land use from non-built-up to built-up	OPTIMUM LANDUSE
2	Urban poverty rate		20	The urbanization rate	
3	Poverty rate		21	The ratio of public open space per 1,000	
4	Growth rate of private investment		22	Unsold residential properties	
5	Cleanliness level of the river	ENVIRONMENTAL QUALITY	23	Percentage change in the forest area	EFFICIENT INFRA
6	Environmental Air Quality Conditions		24	The number of tourism attractions and recreation center	
7	Percentage of Population Living in Flood Prone Area		25	The volume of domestic water consumption per capita.	
8	Percentage of per capita solid waste generation		26	Total electricity consumption (KW) per capita	
9	Total programs / environmental campaigns carried out in Local Authority area	SUSTAINABLE COMMUNITIES	27	Percentage of total waste recycled	EFFECTIVE GOVERNANCE
10	Percentage of quality affordable housing units		28	Percentage of domestic solid waste collection on schedule	
11	Percent residential coverage within 400 meters of community facilities		29	Number of integrated public transport terminals / stations	
12	The ratio of cases relating to public nuisance complaints per 10,000 population		30	The percentage of homes with centralized sewerage services	
13	The ratio of cases of water and vector borne diseases per 10,000 population	SUSTAINABLE COMMUNITIES	31	Residents' satisfaction level on Local Authority services	EFFECTIVE GOVERNANCE
14	Percentage of 'Grade A' food premises		32	Number of community programs implemented by PBT	
15	Percentage of 'Grade A' public toilets		33	Percentage of PBT revenue collection performance	
16	Happiness Index		34	Percentage of total maintenance expenditure compared to the overall Local Authority spending	
17	The ratio of index crimes per 10,000 population		35	Percentage of approved planning applications that comply to the development plan / local plan	
18	Dependency Ratio		36	Number of enforcement operations executed according to schedule, by PBT	

36 INDICATORS : 21 THEMES : 6 DIMENSIONS

LOCAL AUTHORITIES PARTICIPATION

MURNInet 11 sectors 38 indicators
(Malaysian Urban Indicators Network)

2007

No of LA	146
Participated	47
Evaluate	41
Sustainable	5
Moderate	36

2008

No of LA	146
Participated	67
Evaluate	48
Sustainable	6
Moderate	42

2009

No of LA	147
Participated	101
Evaluate	87
Sustainable	22
Moderate	65

2010

No of LA	149
Participated	105
Evaluate	100
Sustainable	25
Moderate	75

MURNInets 6 dimensions, 21 themes, 36 indicators

(Malaysian Urban Rural National Indicators Network for Sustainable Development)

2011

**REVIEW AND
STRENGTHENING
OF MURNInet**

2012

No of LA	151
Participated	108
Evaluate	45
Sustainable	27
Moderate	18

2013

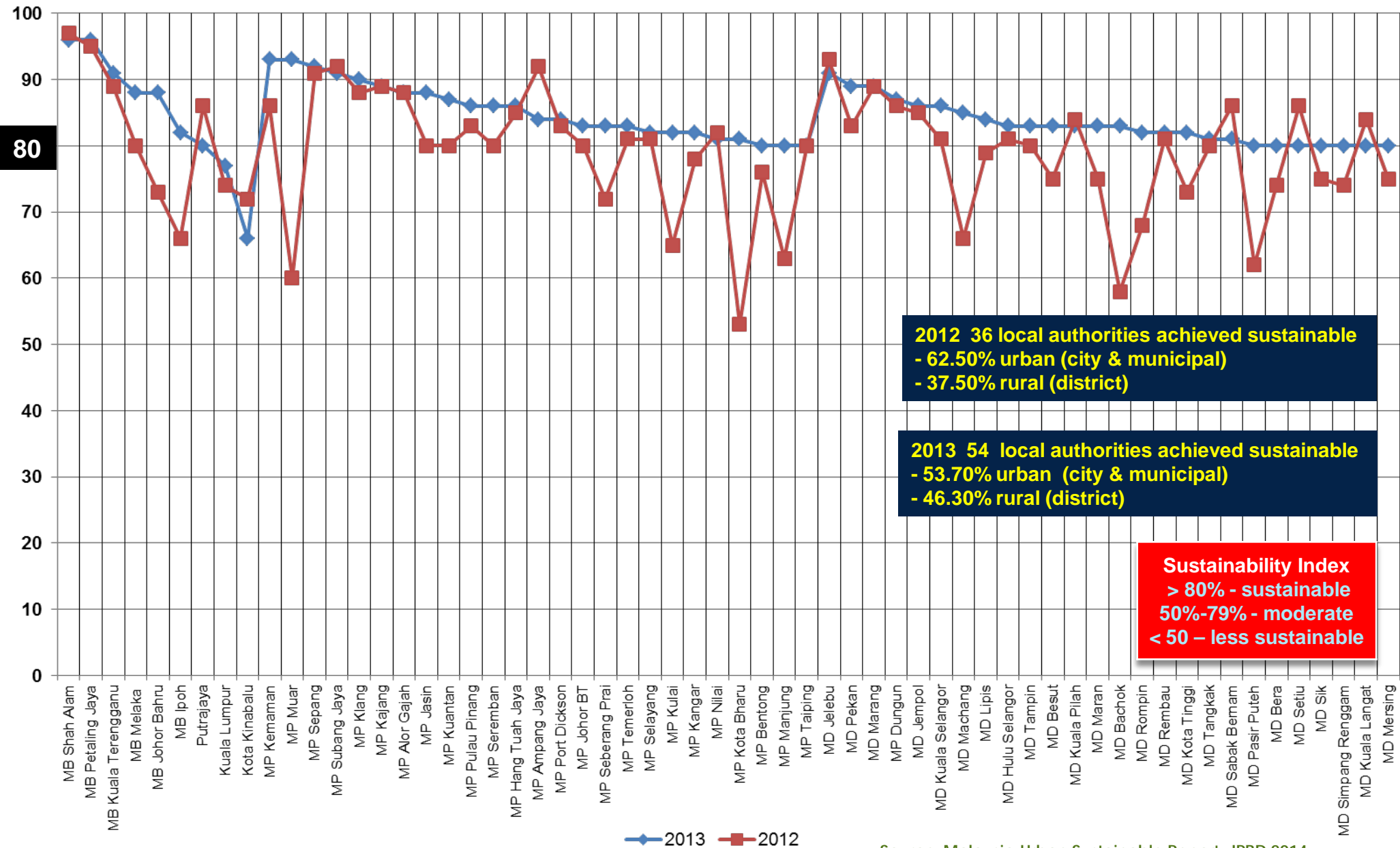
No of LA	151
Participated	108
Evaluate	73
Sustainable	36
Moderate	37

2014

No of LA	151
Participated	108
Evaluate	97
Sustainable	54
Moderate	43

Source, Malaysia Urban Sustainable Report,
JPBD 2014

2013 AND 2012 SUSTAINABLE CITIES INDEX



Source, Malaysia Urban Sustainable Report, JPBD 2014

2013 AND 2012 SELECTED SUSTAINABLE CITIES INDEX

AStar	2013	2012
%	77%	74%
Eco	0.71	0.75
Envi	0.88	0.75
Comm	0.58	0.82
Land	0.82	0.71
Infa	0.81	0.94
Gover	0.94	0.75

IPOH	2013	2012
%	81%	66%
Eco	0.58	0.58
Envi	0.81	0.75
Comm	0.90	0.66
Land	0.77	0.58
Infa	0.94	0.83
Gover	1.00	0.89

KL	2013	2012
%	76%	74%
Eco	0.63	0.71
Envi	0.88	0.75
Comm	0.63	0.56
Land	0.83	0.95
Infa	0.86	0.90
Gover	0.83	0.83

PUTR	2013	2012
%	82%	86%
Eco	0.83	1.00
Envi	1.00	0.88
Comm	0.58	0.60
Land	0.97	0.97
Infa	0.62	0.76
Gover	0.94	1.00

MEL	2013	2012
%	88%	80%
Eco	1.00	1.00
Envi	0.88	0.88
Comm	0.76	0.54
Land	0.73	0.73
Infa	0.90	0.71
Gover	1.00	0.94

KTrg	2013	2012
%	91%	89%
Eco	0.63	0.88
Envi	1.00	1.00
Comm	0.93	0.73
Land	0.97	0.90
Infa	1.00	1.00
Gover	1.00	0.89

JB	2013	2012
%	88%	83%
Eco	0.88	0.88
Envi	0.94	0.69
Com	0.74	0.79
Land	0.73	0.87
Infa	1.00	0.90
Gover	1.00	0.94

KK	2013	2012
%	69%	73%
Eco	0.63	0.71
Envi	0.88	1.00
Com	0.58	0.56
Land	0.75	0.62
Infa	0.81	0.81
Gover	0.72	0.67

	Sustainable
	Moderately Sustainable
	Less Sustainable

**2013 - 71.67% dimensions are sustainable
- 28.33% dimensions are moderate sustainable**

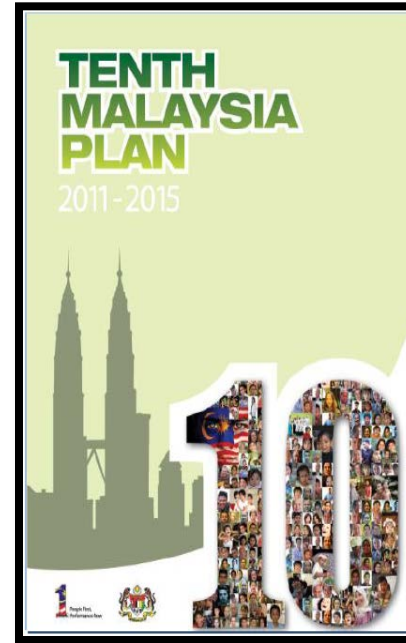
**2012 - 61.67% dimensions are sustainable
- 38.33% dimensions are moderate sustainable**

Source, Malaysia Urban Sustainable Report, JPBD 2014

MURNInets and HAPPINESS INDEX

10TH MALAYSIA PLAN

1. In the 10th Malaysia Plan, the government has explicitly stated the commitment to ensure high quality of life in urban and rural area.
2. FDTCP is the focal point for MURNInets and Happiness Index.
3. Happiness Index study involves primary data collection jointly between local authorities and residents.
4. 151 local authorities participate with 44,500 questionnaires distributed - CLUSTER SAMPLING - the target population is spread across a geography.



THRUST 4 :
Improving the standard and sustainability of quality of life – to create a caring society and promote community wellbeing

<http://murninet.townplan.gov.my/murninets>



SCOPE OF HAPPINESS INDEX

ASPECTS		QUESTIONS
Q1	STRESS LEVEL	How do you rank your stress level ?
Q2	HEALTH	Are you satisfied with your health ?
Q3	FAMILY LIFE	How satisfied are you with your life partner or family ?
Q4	JOB SATISFACTION	Are you happy with your job ?
Q5	INCOME	Are you satisfied with your current monthly income ?
Q6	SPIRITUALITY	Do you believe that spirituality can bring you joy and happiness in your life ?
Q7	NEIGHBOURHOOD	Do you interact well with your neighbours ?
Q8	COMMUNITY	Do you enjoy it when you get involved with community activities in your area ?
Q9	SAFETY	Do you feel safe in your home ?
Q10	PUBLIC AMENITIES	Are you satisfied with the facilities provided in your neighborhood ?
Q11	LOCAL AUTHORITY SERVICES	Are you satisfied with services provided by local authorities in your area ?
Q12	POLITICAL REPRESENTATIVE	Are you satisfied with the services of the political representative in your area ?
Q13	ENVIRONMENT	Are you happy with the quality of your living environment ?

Source, Malaysia Urban Sustainable Report, JPBD 2014

HAPPINESS INDEX STUDY

2012

PARTICIPATION

No of LA	72
City Council	9
Municipal	20
District	43
Sample	11,271

Happy	3
Moderate	69

RESULTS



74.68%

City Council	74.23%
Municipal	73.81%
District	75.17%

LESS HAPPY
< 49%

MODERATE
50% - 79%

HAPPY
> 80%

2013

PARTICIPATION

No of LA	94
City Council	10
Municipal	31
District	53
Sample	14,450

Happy	4
Moderate	90

RESULTS



74.80%

City Council	74.38%
Municipal	74.40%
District	75.63%

2014

PARTICIPATION

No of LA	104
City Council	10
Municipal	36
District	58
Sample	21,731

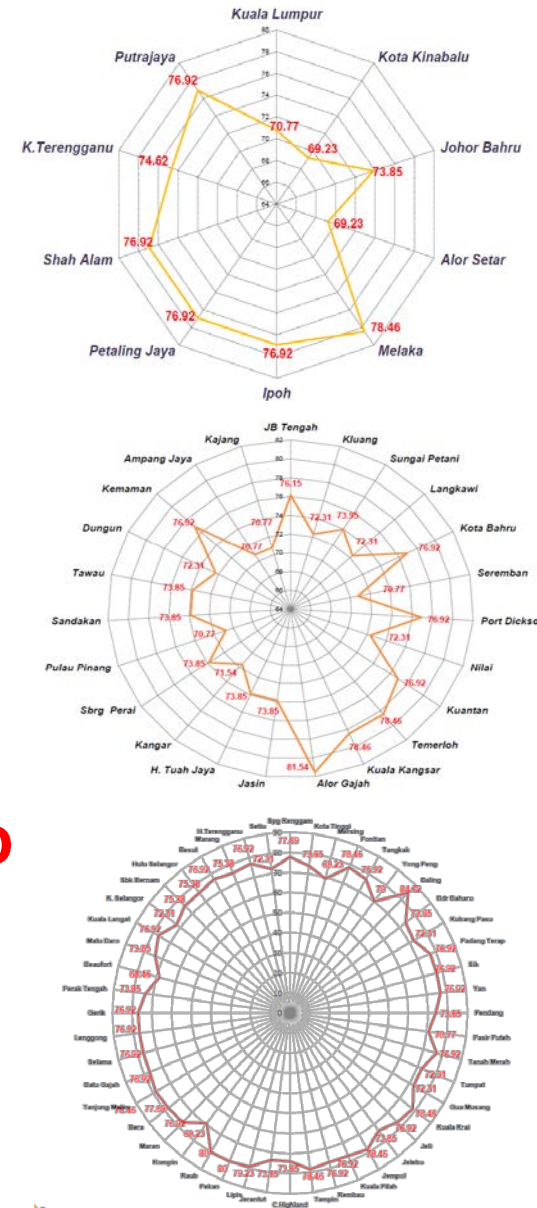
Happy	12
Moderate	92

RESULTS



76.06%

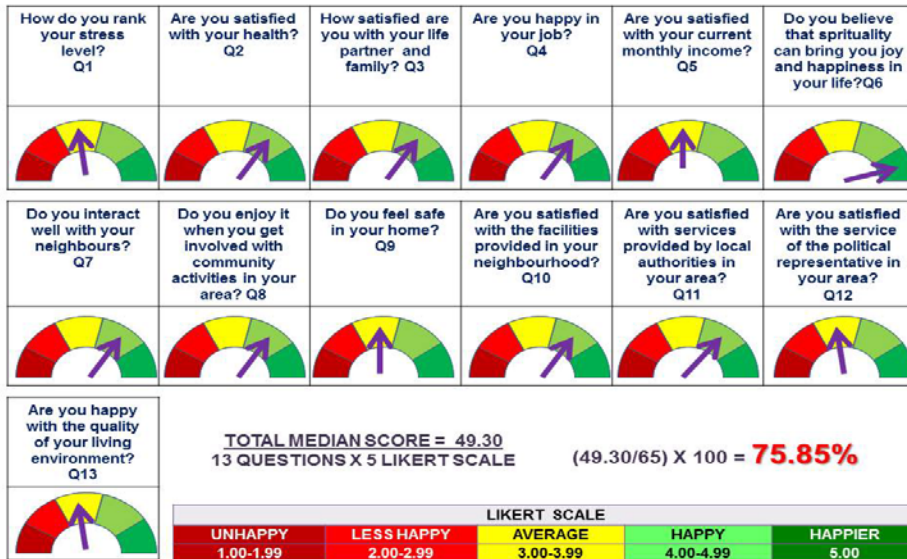
City Council	75.85%
Municipal	76.09%
District	76.09%



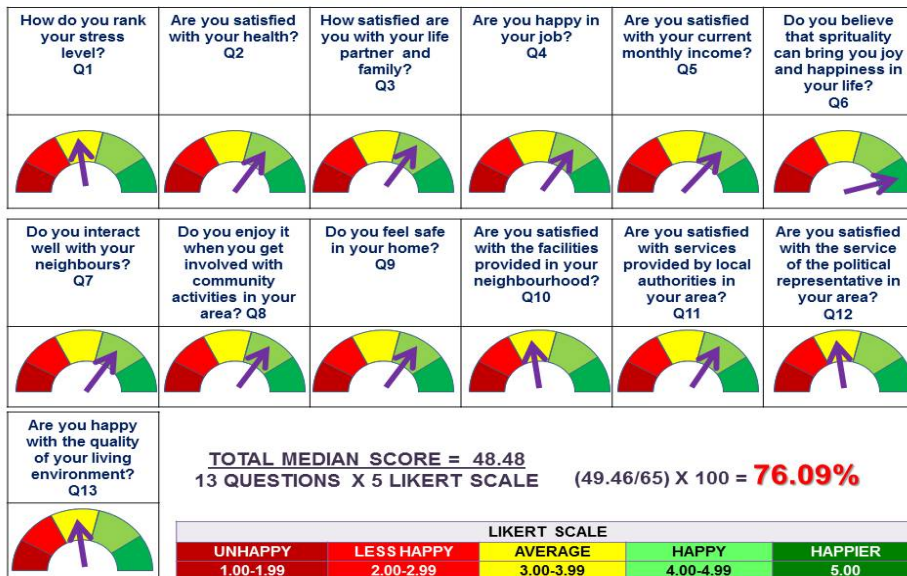
Source, Malaysia Urban Sustainable Report, JPBD 2014

BAROMETER ANALYSIS OF HAPPINESS INDEX

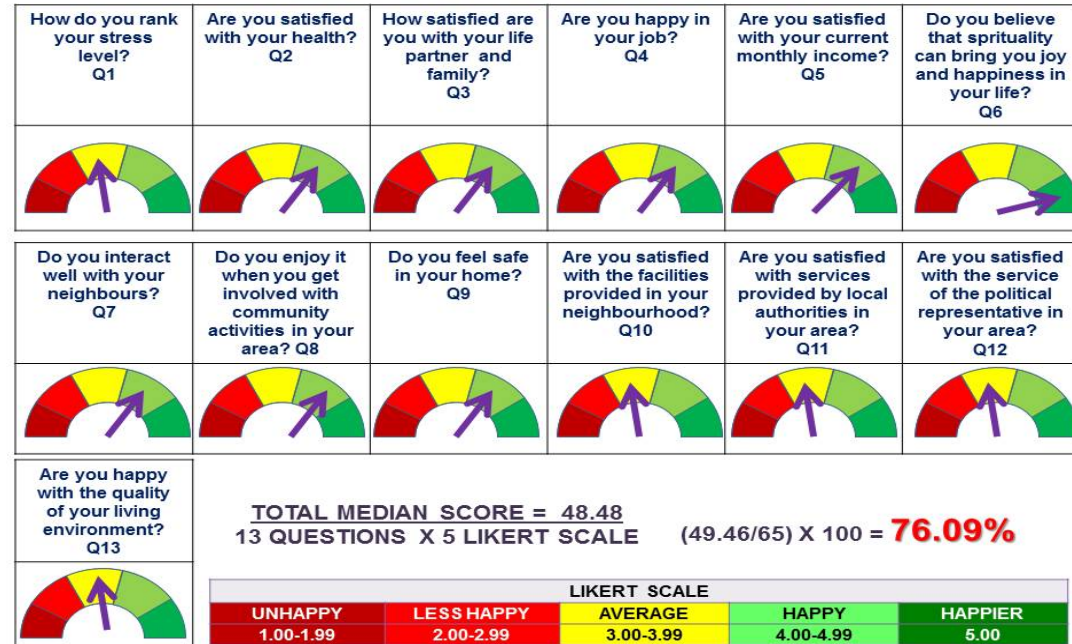
CITY COUNCILS 2014



MUNICIPAL COUNCIL 2014



DISTRICT COUNCIL 2014



1. Average Happiness Index for Malaysia is **76.06% (2014)** compare to **74.80 % (2013)**.
2. Based on our findings, people who live in rural areas are much happier with their lives compared to those who live in urban areas/cities.
3. Happiness index can be used as a tool to formulate related policies to improve the social wellbeing of communities.

Source, Malaysia Urban Sustainable Report, JPBD 2014



CONCLUSION

1. The role of local authorities is seen as crucial in planning for sustainability using **a bottom up mechanism from support of the local communities** to coherent with sustainability objectives.
2. Sustainability performance of **local authorities can be monitored and served** as a guideline for urban managers towards sustainable cities.
3. **MURNInets is monitoring mechanism to identify sustainability gaps** in local authorities and to assist in improving identified areas concern.
4. Happiness is pre-requisite in Sustainable Development / Urban Sustainability and Sustainable Communities.
5. **Happiness index as a framework for decision-making and policy development** guidance to local authorities interested in improving the level of wellbeing people.



THANK YOU

FEDERAL DEPARTMENT OF TOWN AND COUNTRY PLANNING PENINSULAR MALAYSIA
MINISTRY OF URBAN WELLBEING, HOUSING AND LOCAL GOVERNMENT

<http://murninet.townplan.gov.my/murninets>