



## PROMOTE FOR EFFICIENCY OF WASTE MANAGEMENT IN HANG TUAH JAYA MELAKA, MALAYSIA

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SOLID WASTE MANAGEMENT AND PUBLIC CLEANSING CORPORATION  
MINISTRY OF HOUSING AND LOCAL GOVERNMENT

A Follow-Up Seminar On KITAQ System Composting In Asia  
JICA  
Kitakyushu, Japan  
17 – 21 July 2012



## ORGANISATION BACKGROUND



### SOLID WASTE MANAGEMENT AND PUBLIC CLEANSING CORPORATION ( PPSPPA )

- \* 2 Solid Waste Management Act has been enacted in Malaysia :
  - i ) Solid Waste and Public Cleansing Management Act 2007 (Act 672)
  - ii ) Solid Waste and Public Cleansing Management Corporation Act 2007 (Act 673)

\* Officially established on June 1, 2008

\* Corporation to enforce laws and regulate the concessionaires.

\* Solid waste management system for a comprehensive, integrated, cost effective and sustainable

## COOPERATION WITH JICA



### TITLE OF THE PROJECT :-

Promote efficient waste management system in Malaysia

### PROJECT PROPOSE :-

Hang Tuah Jaya has been identified to carry out a pilot project on integrated solid waste and public cleansing management

### EXPERTS FROM JAPAN WERE DISPATCHED TO HANG TUAH JAYA :

- Jul. 2011 - To grasp the actual state of Solid Waste Management In HTJ
- Sept. 2011 - To give technical guidance on organic waste composting for composting centers. Chemical analysis investigation of solid waste.
- Jan. 2012 - To introduce a community-based solid waste management system that focuses on organic waste composting technology
- Apr. 2012 - Follow-up visit to community composting



Hang Tuah Jaya Municipal Council, Melaka , Malaysia

## HANG TUAH JAYA MUNICIPAL COUNCIL (MPHTJ)



- Area : 144.6 km<sup>2</sup> (35,733.04 acres)
- Comprising part of three regions :
  - i ) Central Melaka ( 14,247.76 acres )
  - ii) Alor Gajah ( 8625.49 acres )
  - iii) Jasin ( 12,859.79 acres )
- The population of the region is 114,732



## APPROXIMATE POPULATION IN HANG TUAH JAYA ( HTJ )



NO.	REGION	AREA ( Acres )	NUM. OF POPULATION	%
1	CENTRAL MELAKA ( 6 DISTRICT )	14,247.76	98,742	86.07
2	ALOR GAJAH ( 1 DISTRICT )	8,625.49	7,584	6.60
3	JASIN ( 1 DISTRICT )	12,859.79	8406	7.33
<b>TOTAL</b>		<b>35,733.04</b>	<b>114,732</b>	<b>100</b>



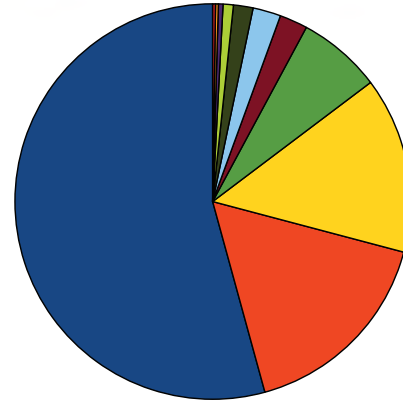
# SOLID WASTE GENERATION



BIL.	TYPE OF WASTE	WASTE GENERATION ( TONNE / YEAR )
1	Household waste	23,680
2	Recycles Items (plastics,cans and glass bottles from household)	9,472
3	Paper (from household)	0.473
4	Bulky waste (furniture, table, etc.)	2,368
5	Waste from market	7,104
6	Waste from canteen and restaurant	1,184
7	Waste from school	1,184
8	Waste from office	1,184
<b>Total</b>		<b>23,680.800</b>



# WASTE COMPOSITION



- 54.26% ■ Food Waste / Organic
- 16.62% ■ Paper
- 14.40% ■ Plastic
- 6.86% ■ Yards
- 2.29% ■ Glass
- 2.29% ■ Others
- 1.60% ■ Metal
- 0.84% ■ Fabrics/Textiles
- 0.38% ■ E-waste
- 0.23% ■ Woods (scrap wood)
- 0.23% ■ Rubber/leather



# VISION AND MISSION

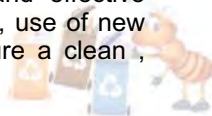


## Vision

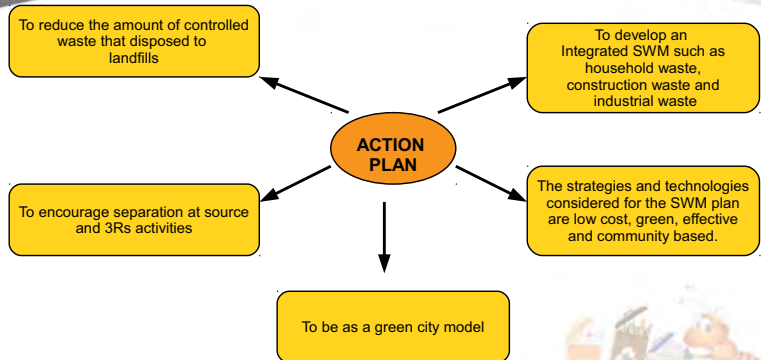
To make Malaysia as a clean and prosperous country

## Mission

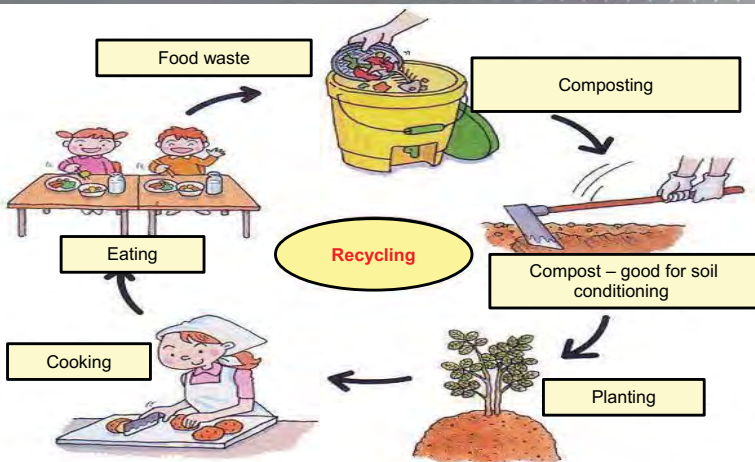
Implement policies and strategies in the management of solid waste and cleaning of integrated and effective public through increased public awareness, use of new technology and enforcement laws to ensure a clean , healthy and sustainable



# SOLID WASTE MANAGEMENT PLAN



# LET'S COMPOST!



# TAKAKURA HOME METHOD



The Story Begin....





# STARTED IN OCTOBER 2009



Internal training for PPSPPA technical staffs

# Hands-On Training On Takakura Method Of Composting Organized by PPSPPA in Partnership with JICA 7 – 8 Disember 2009



# COMMUNITY COMPOSTING AT HANG TUAH JAYA MELAKA



## FOCUS!

organic waste composting with participation of local communities



promote

Usage of household compost basket  
- more convenient  
- practical to use  
- cost effective



# COMPOST CHANG



SEED COMPOST



INSTRUCTION / USER MANUAL

# THM - COMMUNITY COMPOSTING AT HANG TUAH JAYA MELAKA



1 basket per household

BIL.	COMMUNITY	DATE STARTED	PROJECT DURATION	PARTICIPANTS	
				AS AT STARTED	CURRENT
1	Tmn Tasik Utama Ayer Keroh	24 Sept. 2011	9 month	24	12



# THM - COMMUNITY COMPOSTING AT HANG TUAH JAYA MELAKA



1 basket per household

BIL.	COMMUNITY	DATE STARTED	PROJECT DURATION	PARTICIPANTS	
				AS AT STARTED	CURRENT
2	Kg. Paya Rumpit Jaya	5 Jan. 2012	5 month	30	30





## Kg. Paya Rumput Jaya



## THM - COMMUNITY COMPOSTING AT HANG TUAH JAYA MELAKA



1 basket per household

BIL.	COMMUNITY	DATE STARTED	PROJECT DURATION	PARTICIPANTS	
				AS AT STARTED	CURRENT
3	Kpg. Batu Berendam	14 Mac 2012	3 month	9	3



## THM - COMMUNITY COMPOSTING AT HANG TUAH JAYA MELAKA



1 basket per household

BIL.	COMMUNITY	DATE STARTED	PROJECT DURATION	PARTICIPANTS	
				AS AT STARTED	CURRENT
4	Tmn Melaka Baru	15 April 2012	2 month	19	19



## INSTITUTIONAL COMPOSTING PROGRAMME



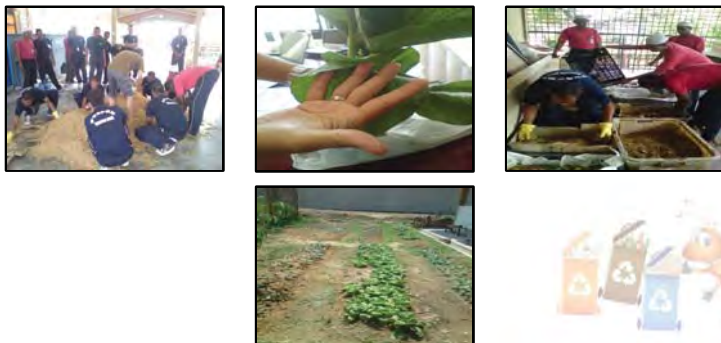
BIL.	INSTITUTIONS	DATE STARTED	PROJECT DURATION	PARTICIPANTS	
				AS AT STARTED	CURRENT
1	Sungai Udang Prison	14 January 2011	1 year 5 month	10	2



## INSTITUTIONAL COMPOSTING PROGRAMME



BIL.	INSTITUTIONS	DATE STARTED	PROJECT DURATION	PARTICIPANTS	
				AS AT STARTED	CURRENT
2	Narcotic Rehabilitation Centre ( PUSPEN )	10 Jun 2011	1 year	5	12



## INSTITUTIONAL COMPOSTING PROGRAMME



BIL.	INSTITUTIONS	DATE STARTED	PROJECT DURATION	PARTICIPANTS	
				AS AT STARTED	CURRENT
3	Old Folks Home Kenanga	7 February 2012	4 month	10	10





## INSTITUTIONAL COMPOSTING PROGRAMME



BIL.	INSTITUTIONS	DATE STARTED	PROJECT DURATION	PARTICIPANTS (TEACHERS AND SCIENCE CLUB)	
				AS AT STARTED	CURRENT
4	Batu Berendam Primary School	2 April 2012	2 month	10	10



## INSTITUTIONAL COMPOSTING PROGRAMME



BIL.	INSTITUTIONS	DATE STARTED	PROJECT DURATION	PARTICIPANTS (TEACHERS AND SCIENCE CLUB)	
				AS AT STARTED	CURRENT
5	Tamil Ladang Primary School Bukit Kajang	9 April 2012	2 month	10	10



## INSTITUTIONAL COMPOSTING PROGRAMME



BIL.	INSTITUTIONS	DATE STARTED	PROJECT DURATION	PARTICIPANTS (AGRICULTURAL STUDENTS)	
				AS AT STARTED	CURRENT
6	Iskandar Shah Secondary School	9 April 2012	2 month	10	10



### Hasilkan baja kompos daripada sisa makanan, tumbuhan diperluas



### Kaedah pengkomposan berhasil



## MONITORING



- \* Compost Team Coach brought to monitor and assist in terms of technically if the *compost chang* who have experienced problems such as odor problems or wormy.
- \* Creating user information contains the date of commencement exercise compost, the estimated amount of food waste that was composted as information foundation that will serve as references.



## OVERALL ACHIEVEMENT OF TOTAL RECYCLABLES COLLECTED BY THE RECYCLING BANK AT 8 SCHOOL HELD IN 2011



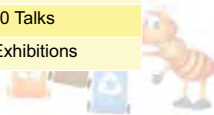
Bil.	State	Programs	Recyclables Collected (kg)	Selling Amount (RM)
1	Melaka	Recycling Bank at School	4,794.01	2,063.43



## TARGET FOR RECYCLE PROGRAMS IN 2012



NO	PROGRAM	TARGET
1	Recycling Bank at Kindergarten	10 Kindergartens
2	Recycling Bank at School	13 Schools
3	Waste Separation at Source for Household Area	1 Household Area / Community
4	Waste Separation at Source for Government Agencies	1 Government Agencies
5	Composting Activities	1 Demonstrating Program
6	Drive-Thru Recycle Activities at Mall	1 Mall
7	Recycle Talks	20 Talks
8	Exhibition	12 Exhibitions



# THANK YOU

