8<sup>th</sup> World Water Forum, Regional Process

# Institutional and Regulatory **Framework for Sanitation** and Wastewater Management

Ih

MALAYSIA

SPAN

RECCA THARMARAJAH Sewerage Regulatory Department National Water Services Commission

### **INSTITUTIONAL REFORM**

# WHERE WE ARE CURRENTLY

# SEWERAGE COVERAGE IN MALAYSIA

PERCENTILE OF PUBLIC SEWAGE TREATMENT SYSTEM IN MALAYSIA

**DESLUDGING – PROVISION OF LAW AND COMPONENTS** 

**DESLUDGING TREND IN MALAYSIA** 

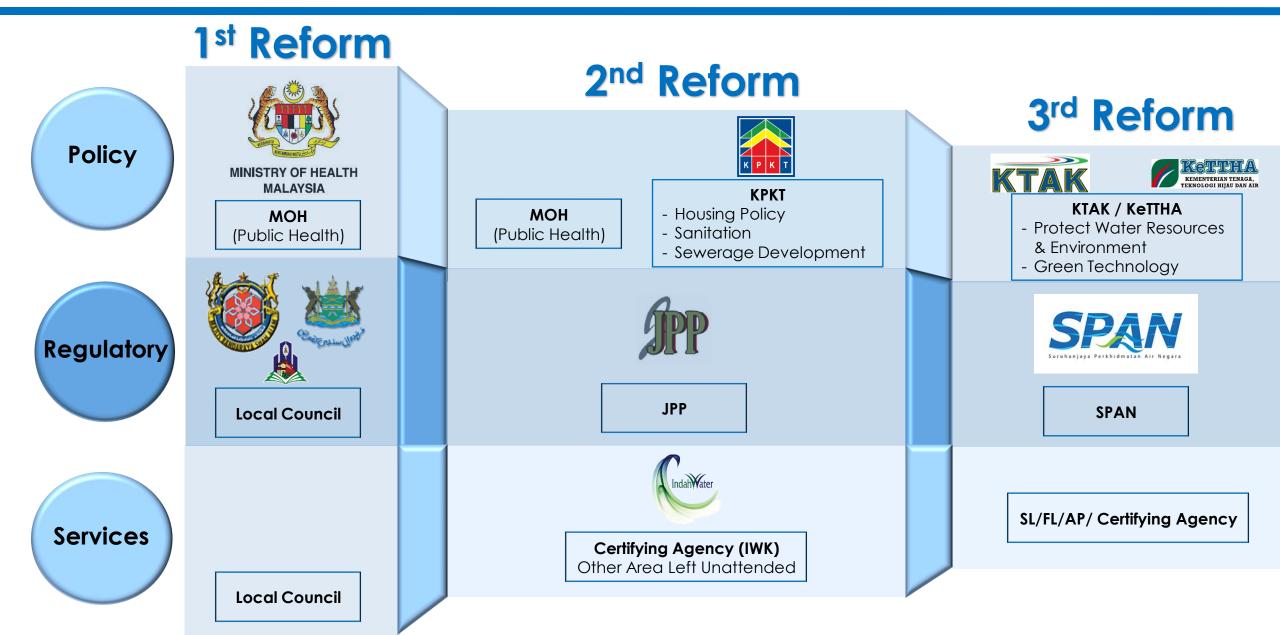
CHALLENGES IN SEWERAGE SECTOR

SEWERAGE CATCHMENT PLAN (SCP)

WAY FORWARD

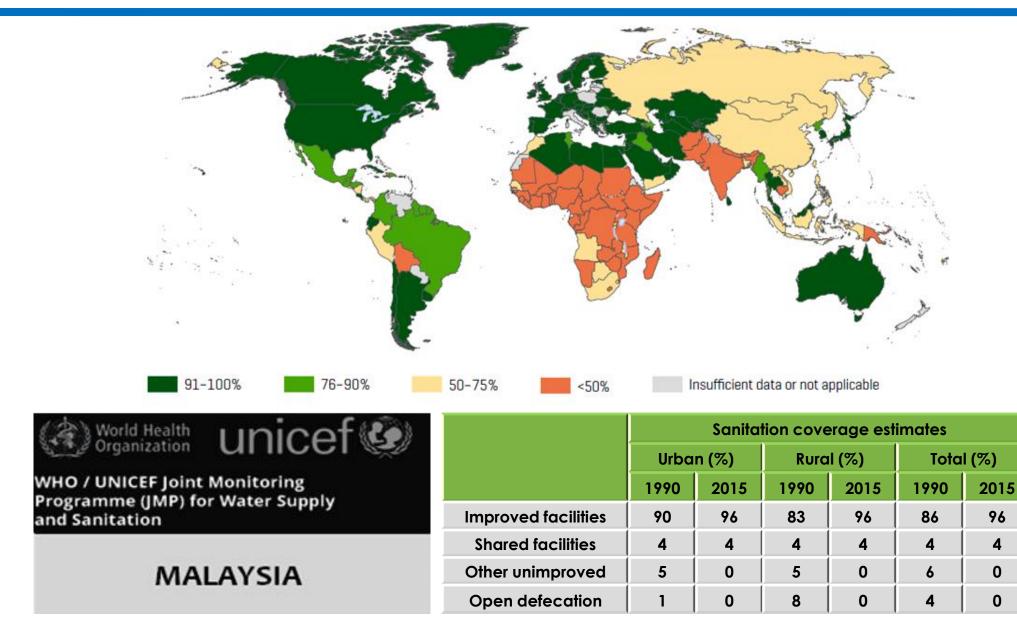


# **INSTITUTIONAL REFORM**

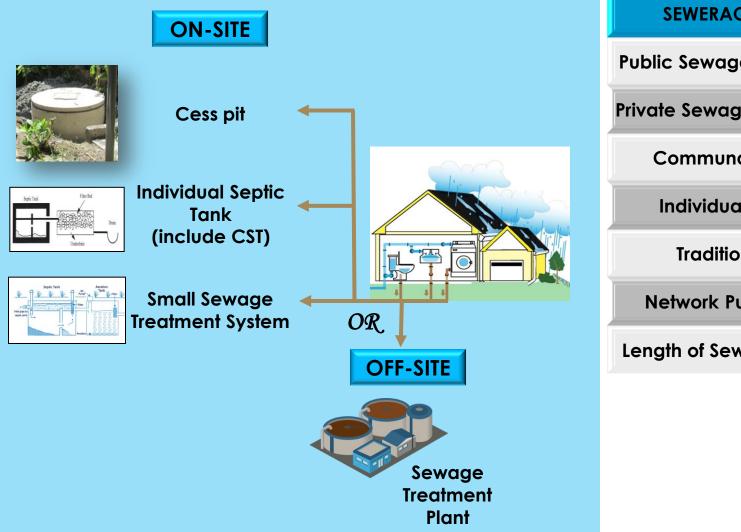




# WHERE WE ARE CURENTLY ?







SEWERAGE FACILITIES	QUANTITY	POPULATION EQUIVALENT (PE)
Public Sewage Treatment Plant	6,752	24,789,450
Private Sewage Treatment Plant	3,338	3,009,095
Communal Septic Tank	4,386	532,076
Individual Septic Tank	1,343,439	6,859,823
Traditional System	1,154,592	5,772,960
Network Pumping Station	1,117	n.a
Length of Sewer Network (km)	18,689	n.a

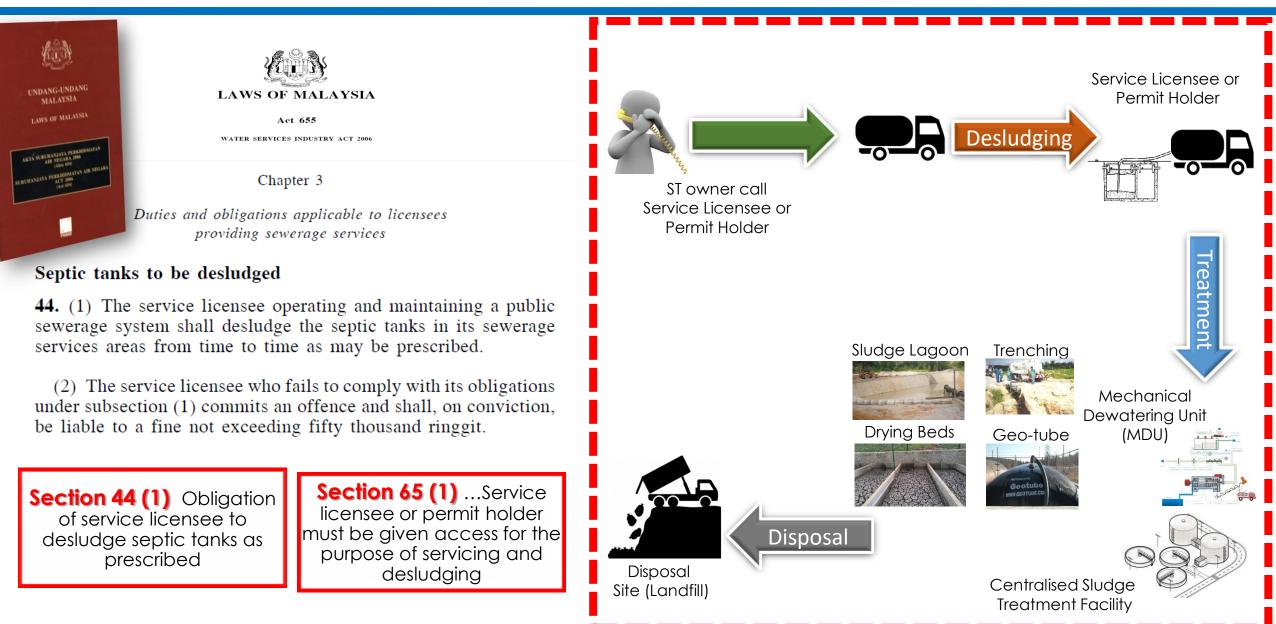
Source : Malaysia Water Industry Guide 2017



NO	PE RANGE	NUMBER	OF STP	POPULAT EQUIVALEN		
		NO.	%	NO.	%	
1.	0 to 150	76	1	8,220	0	Based on the PE range, <b>91%</b> of the
2.	151 to 500	1,712	26	583,586	2	overall STP are between <b>151 to 10,000</b> <b>PE</b> whereas <b>9%</b> is more than <b>10,000 PE</b>
3.	501 to 1,000	1,423	22	1,053,862	3	
4.	1,000 to 2,500	1,441	22	2,357,496	7	
5.	2,501 to 5,000	826	13	3,023,159	9	
6.	5,001 to 10,000	513	8	3,749,914	12	STP with capacity of <b>10,000 PE</b> and
7.	10,001 to 20,000	319	5	4,545,327	14	above represents approximately 70% of the total cumulative PE while STP with
8.	20,000 and above	278	4	16,799,124	52	capacity of <b>151-10,000 PE</b> only
	TOTAL	6,588	100	32,120,688	100	represents about <b>30%</b> of the total cumulative PE

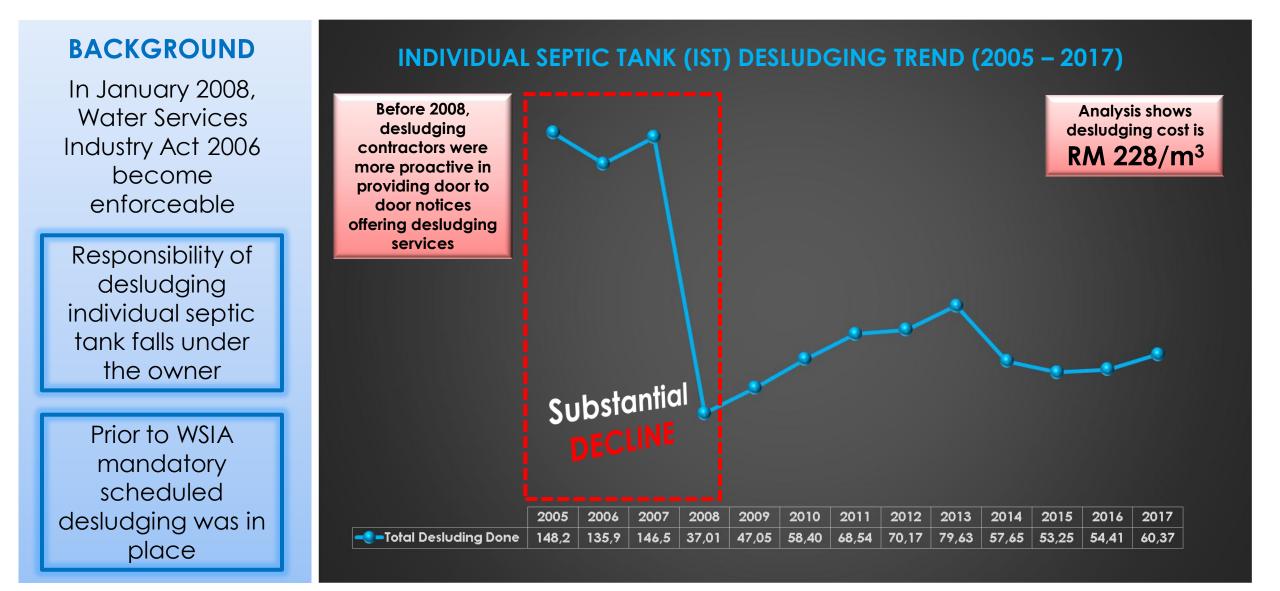


# **DESLUDGING – PROVISION OF LAW AND COMPONENTS**

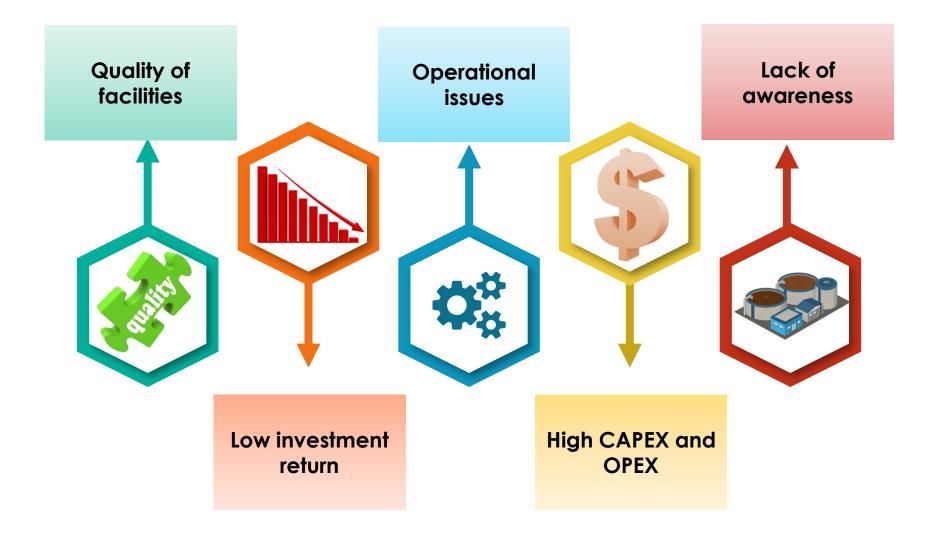




# **DESLUDGING TREND IN MALAYSIA**









# DRAFT PLANNING POLICY





### **STANDARDIZATION**

To elevate and control the quality of prefabricated components produced by manufacturer

To ensure construction and installation is at desirable level to perform as required

To ensure the system would be able to provide treatment efficiency as intended



## DESLUDGING

Review draft Water Services Industry (Desludging and Discharge Sewage Sludge) Rules

Implementation of Scheduled Desludging

The tariff is proposed to be spread over a 2 year for urban and 4 year for peri-urban and rural (monthly billing)



THANK YOU

# It takes CHANGE to make CHANGE

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