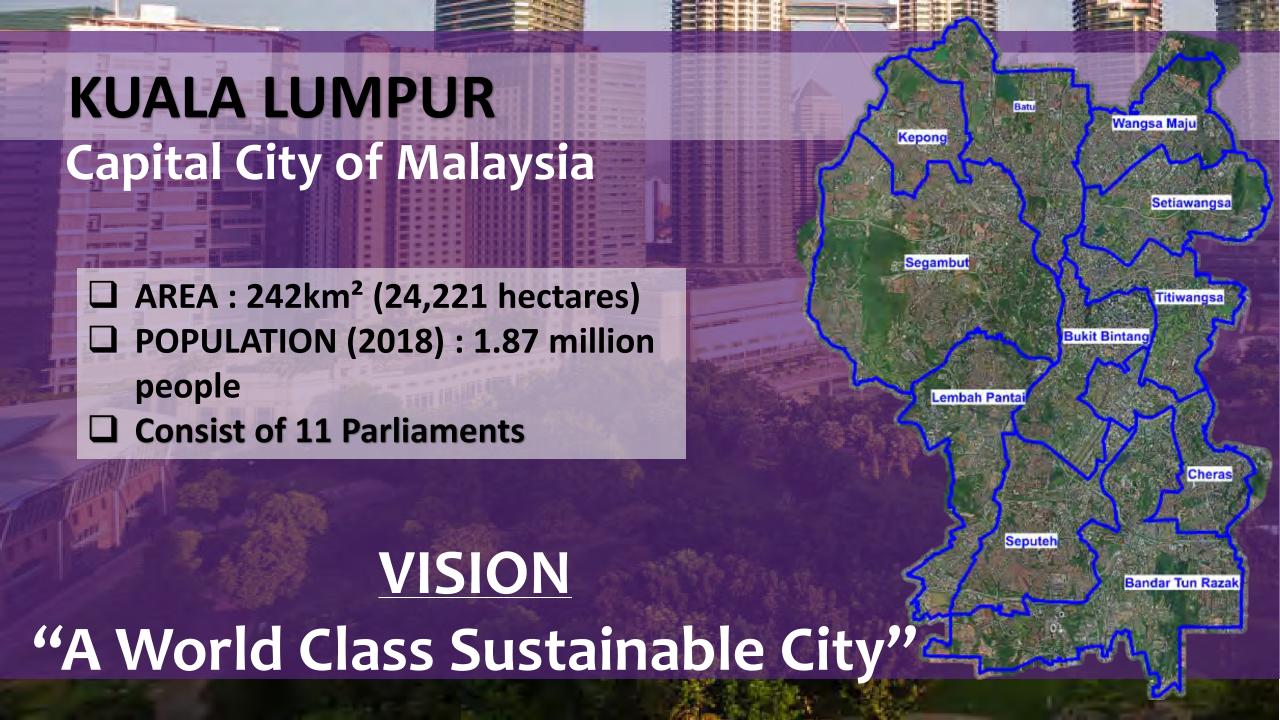


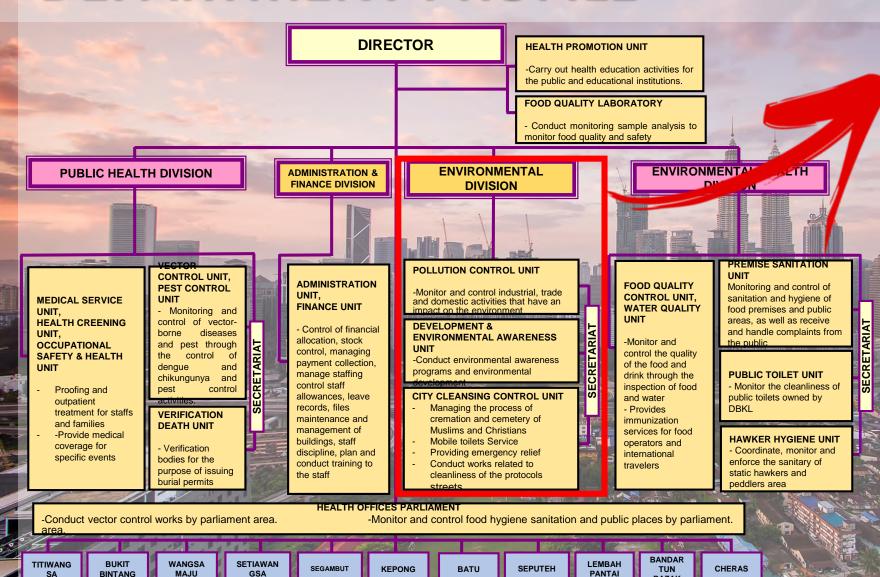
07-11 October 2019 Yokohama, Japan



Environmental Department Kuala Lumpur City Hall



DEPARTMENT PROFILE



ENVIRONMENTAL DIVISION

POLLUTION CONTROL UNIT

 -Monitor and control industrial, trade and domestic activities that have an impact on the environment

DEVELOPMENT & ENVIRONMENTAL AWARENESS UNIT

-Conduct environmental awareness programs and environmental development

CITY CLEANSING CONTROL UNIT

- Managing waste management including cleanliness
- Enforce acts / regulations regarding waste management
- Responsible in R&D of waste technology and management
- Managing the process of cremation and cemetery of Muslims and Christians
- Mobile toilets Service
- Providing emergency relief

WASTE GENERATION

SOLID WASTE GENERATED IN MALAYSIA

SOLID WASTE GENERATED IN KUALA LUMPUR FOR YEAR 2018

2017 13,537,000 tonnes / year 37,087 tonnes / day 1.17 kg / person / day * 6,935,000 tonnes / year 19,000 tonnes /day 1.8 % per year 0.8 kg / person / day ** Population 2005 Growth Rate 32 million Population in 2017 * GSR Report on 2012 ** DANIDA Report on 2012 IABATAN PENGURUSAN SISA PEPEJAL NEGARA

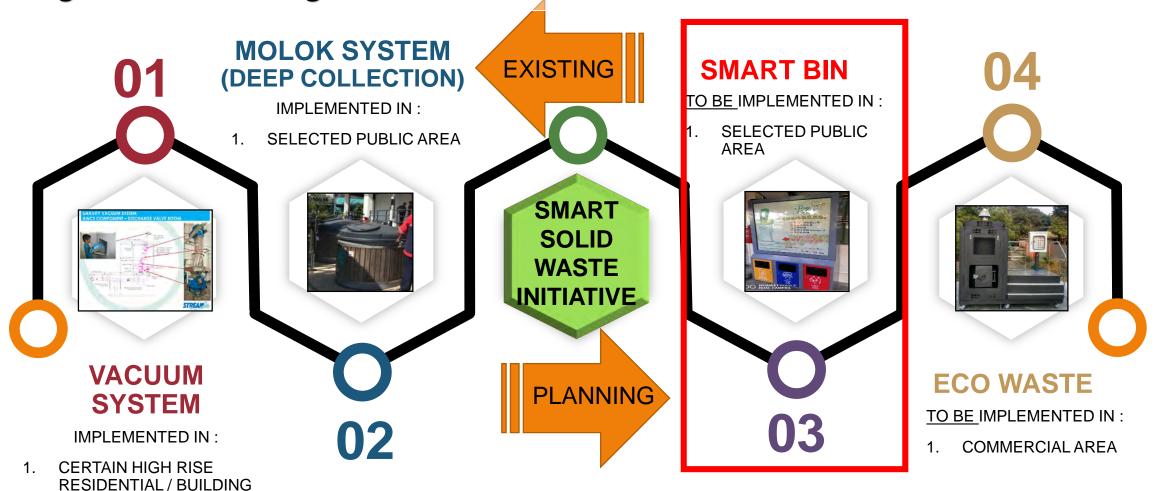
SOLID WASTE GENERATED	TOTAL (TON)
DOMESTIC WASTE	65,3331.49
BULKY WASTE	173,388.42
TOTAL WASTE GENERATED	826,719.91

WASTE MANAGEMENT PROCESS



SMART SOLID WASTE SYSTEM

- Existing & Future Planning -

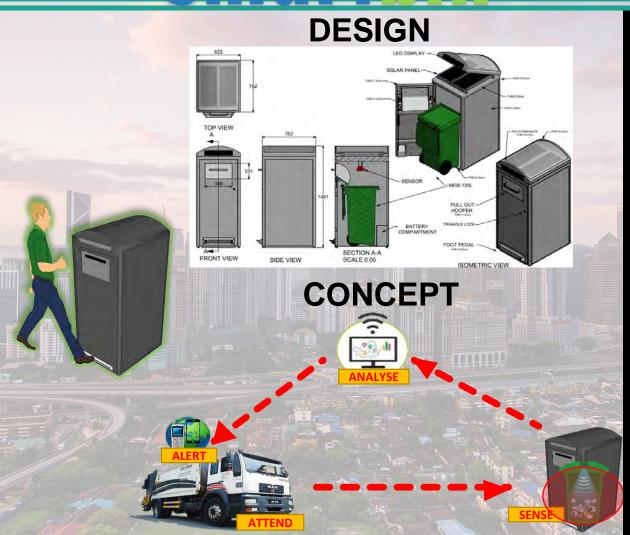


2. COMMERCIAL AREA



ADVANTAGE

- The mobile alert system makes it easier to alert contractors to collect garbage when the bin is full which will saves time and resources.
- Increase productivity and reduce operating costs.
- Proper location tracking of bin helps to improves the efficiency of the waste collection process.
- Increase the level of public hygiene as the sensor system helps to prevent garbage overflow from the bin.
- Usage of electricity can be reduce as solar panel helps to activate the sensor and LED display.
- Reduce carbon dioxide emissions as contractors only collect garbage when necessary.



COMPREHENSIVE DATA REPORTS

- Variety of Reports & Charts (heatmaps, historical data etc)
- Error reports flag out bins with low battery, sensor obstructions etc.

INTELLIGENT DATA ANALYTICS

- Smart data for smart waste collection planning.
- Comprehensive collection of historical data.
- Data analytics reports to improve efficiency.
- Generate collection schedule using predictive algorithms.
- History of bin data.

FLEXIBLE DATA ACCESS RESTRICTION

- Data access controlled by administrator.
- Data restriction based on roleadmin, cleaners, employees etc.



- ☐ Kuala Lumpur City Hall is moving towards in becoming a world class sustainable city where the element of smart city is one of our main focus.
- ☐ In order for Kuala Lumpur City Hall to become a smart city, aspects such as environment, safety and security are also being include.
- ☐ Kuala Lumpur City Hall welcomes any suggestions or recommendations regarding smart technologies especially on smart bin concept.

