



Global Covenant of Mayors for Climate and Energy : Urban adaptation to climate change

21st March 2019

Climate Change Actions :

Seberang Perai's Experience on Climate
Change Adaptation and Mitigation



Speaker:
Ahmad Zabri Mohamed Sarajudin
Director of Crisis Management Department,
Seberang Perai



SEBERANG PERAI

EXPERIENCE ON CLIMATE CHANGE









SEBERANG PERAI

EXPERIENCE ON CLIMATE CHANGE



3,256
houses
affected



162 cars
trapped



171,428
people
affected



358
houses
affected



15 cars
affected

9,636
people
relocated

1 Person
Died



12 days
for
recovery



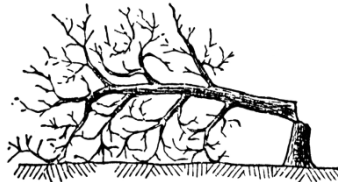
15,942 tonnes
Solid Waste
collected



362mm
rainfall within
6 consecutive
hours



11,323
Warriors



1,194 trees
uprooted



RM11.3M
Economic
Loss



SEBERANG PERAI

Aspiring City Of Tomorrow

A VISION FOR
**TOMORROW
& BEYOND**

Smart Industry
4.0

Smart Street
Light

Digital
Signage

Smart
Parking

Smart &
Sustainable
Hawkers Complex

Smart
Traffic
Light

Smart Solid
Waste
Management

Smart
Learning
Center

Integrated
Command
Center

Citizen
Participation
System

Cashless
Payment
System

Public
Reporting
System

Data
Exchange
Platform

Flood
Management
System

Smart &
Sustainable
Building



Vision

Seberang Perai Resilient, Inclusive, Green,
Competitive and Technology Driven
Smart City



Mision

To provide urban service, development
planning and infrastructure efficiently,
effectively and responsive to the needs of
the community in Seberang Perai





Corporate Value

We work collaboratively across organization and communities to improve outcome, value for money and services



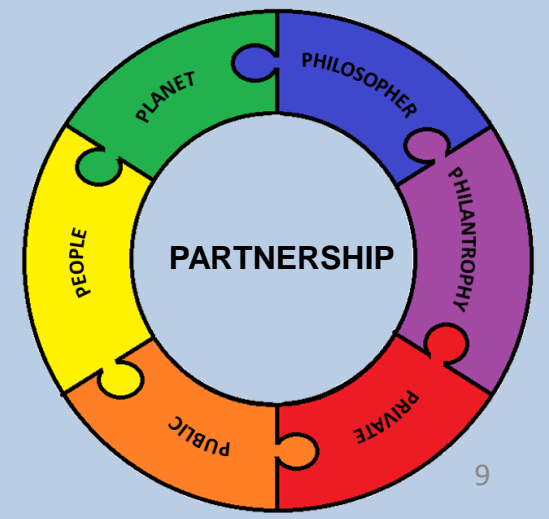
Guiding Principles

"City for all"

- *Improve governance and inclusiveness*
- *Accessibility and mobility*
- *No one should be excluded*
- *Gender responsive and participatory budgeting*
- *Universal Design*



7Ps INCLUSIVE PARTNERSHIP MODEL





STRATEGIC PLANNING

SDGs VALUES

PEACE



PEOPLE



PROSPERITY



PLANET



PARTNERSHIP



17 GOALS

169 TARGETS

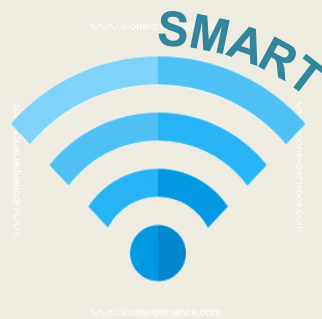
230 INDICATORS



SUSTAINABLE DEVELOPMENT GOALS



← ENABLER



KEY RESULT AREA :



STRATEGIC PRIORITIES :



SP01

Safe Environment



SP03

Healthy Lifestyle



SP05

Application Of New Technology



SP07

Strengthening Culture And Heritage



SP09

Community Involvement



SP02

High Quality Facilities And Infrastructures



SP04

Green Development And Clean Environment



SP06

Competitive Urban Economy



SP08

Resilient And Liveable City



SP10

Inclusive And Impartial Urban Development

SEBERANG PERAI LOW CARBON CITY DEFINITION



LOW CARBON CITY

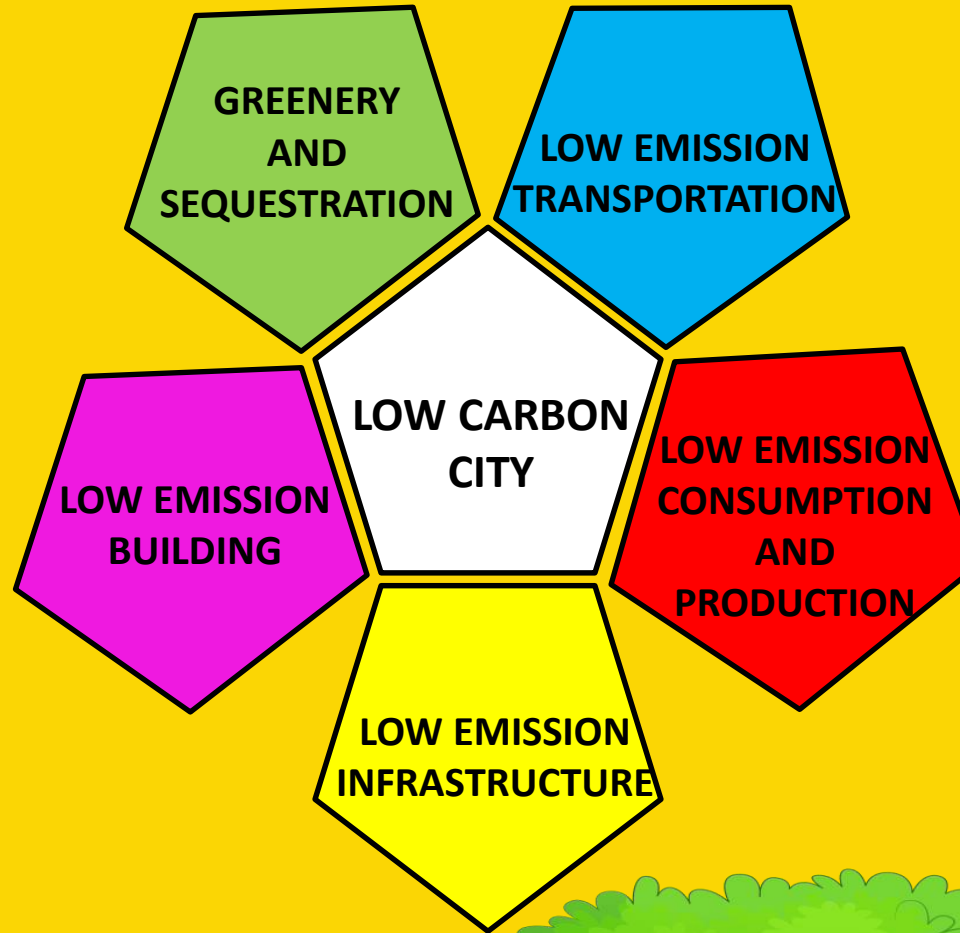
“Low Carbon City is a city that are able to provide urban development within the city limit without compromising the needs of its people and at the same time are able to control the green house gases emission level below global average”

Dato' Sr. Hj Rozali Mohamud,
Mayor of Seberang Perai

SEBERANG PERAI LOW CARBON CITY "GREENPRINT"



**LOW
CARBON
CITY**



SEBERANG PERAI LOW CARBON CITY “GREENPRINT”

AWARENESS

**GREEN
ECONOMY**

ENABLER

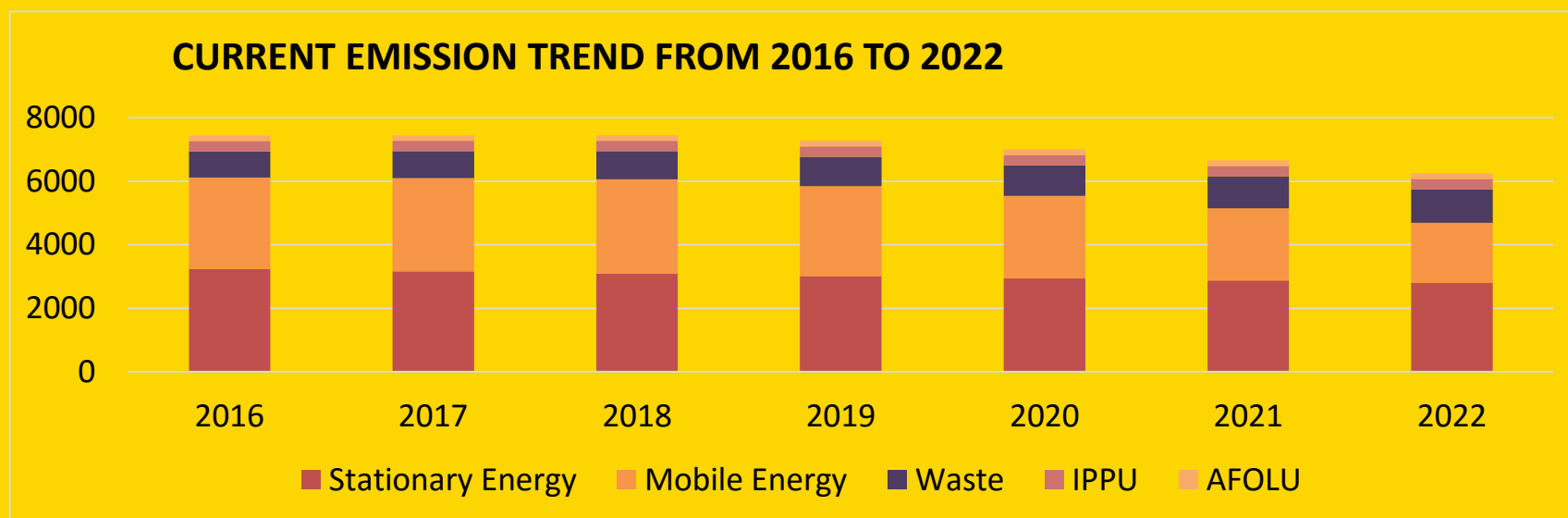
PARTNERSHIPS

**SMART
APPLICATION**

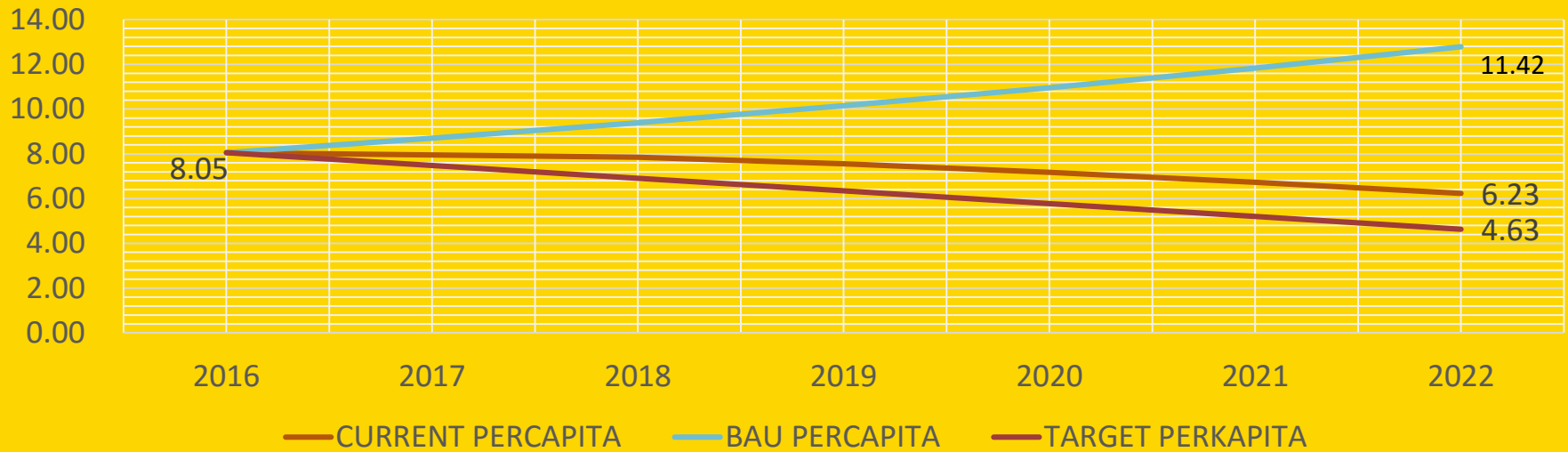
“SEBERANG PERAI ASPIRING CITY OF TOMORROW”

CURRENT EMISSION TREND FROM 2016 TO 2022

	2016	2017	2018	2019	2020	2021	2022
Stationary Energy	3234.07	3157.93	3083.58	3010.98	2940.09	2870.87	2803.28
Mobile Energy	2887.87	2943.28	2982.61	2835.79	2597.34	2276.06	1883.56
Waste	815.85	847.18	886.2	925.17	966.01	1008.83	1053.71
IPPU	324.43	325.27	325.72	326.08	327.82	329.62	331.47
AFOLU	171.94	172.69	173.09	173.52	174.38	175.28	176.21
Population ('000)	923.13	936.16	949.4	962.82	976.44	990.25	1004.25
CURRENT EMISSION	7434.91	7445.51	7449.51	7271.54	7005.64	6660.66	6248.23
CURRENT PERCAPITA	8.05	7.95	7.85	7.56	7.18	6.73	6.23



COMPARISON BETWEEN BAU, CURRENT AND TARGET PERCAPITA EMISSION TREND FROM 2016 TO 2022



	2016	2017	2018	2019	2020	2021	2022
CURRENT PERCAPITA	8.05	7.95	7.85	7.56	7.18	6.73	6.23
BAU PERCAPITA	8.05	8.54	9.05	9.59	10.17	10.78	11.42
TARGET PERKAPITA	8.05	7.48	6.91	6.34	5.77	5.20	4.63

OBJECTIVES

- **GREEN** - Increase the quality of life for the people of Seberang Perai by improving the quality of environment of Seberang Perai
- **RESILIENT** - Increase the resilience level of Seberang Perai through DRR initiatives
- **INCLUSIVE** - Improve the mobility, connectivity and accessibility of Seberang Perai through transparent and inclusive governance
- **COMPETITIVE** - Enhancing Local Economic Development (LED) by leveraging into new industries

TARGETS / GOALS

- **SHORT TERM (2018 - 2020) :**

Disseminating informations and awareness on Low Emissions development and formulating Guidelines for development, baseline study, monitoring, measurement and verification processes.

- **MID TERM (2018 - 2022) :**

The target set by Seberang Perai City managers is to reduce 50% percapita emission from 8 tonnes CO₂eq in 2016 to 4 tonnes CO₂eq in 2022

- **LONG TERM (2018 - 2030) :**

The target set by Seberang Perai City managers is to reduce percapita emission further in order to achieve Carbon Neutral by 2030

LOW CARBON CITY STRATEGY

STRATEGI 1 : LOW EMISSION TRANSPORTATION

- Public Transportation
- Cycling
- Low Emission Vehicle(Hybird, Electric etc.)

STRATEGI 2 : LOW EMISSION BUILDING

- Renewable Energy
- New Development : CI Fast Track
- Existing Building : Incentives
- Energy Efficient Appliances
(Energy reduction)

STRATEGY 3: LOW EMISSION INFRASTRUCTURES

- Street Lighting – LED
- Roadside Table
- Interlocking Bricks (C&D Waste)
- Cycle friendly
- RE Dependent Public infrastructures

STRATEGY 4: LOW EMISSION PRODUCTIONS AND CONSUMPTIONS

- 50% Waste Reduction
- 70% Recycling Rate

STRATEGY 5: GREENERY AND SEQUESTRATIONS

- * City in a Garden Concept
- * Forest and Mangrove Preservation



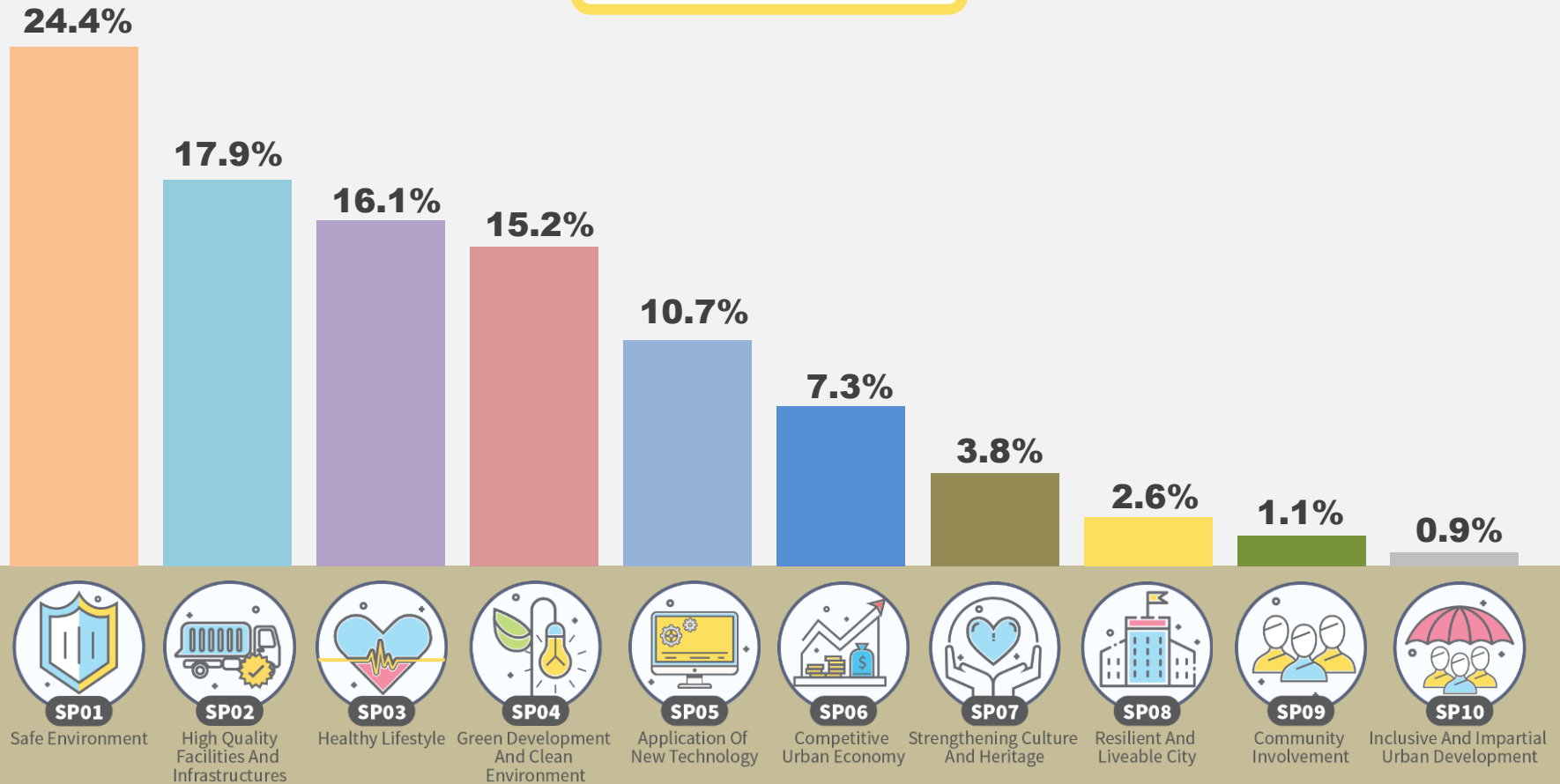
Respondents priority level of MPSP services

Seberang Perai Strategic Plan 2018 - 2022



Respondents priority level of MPSP services

YEAR: 2019



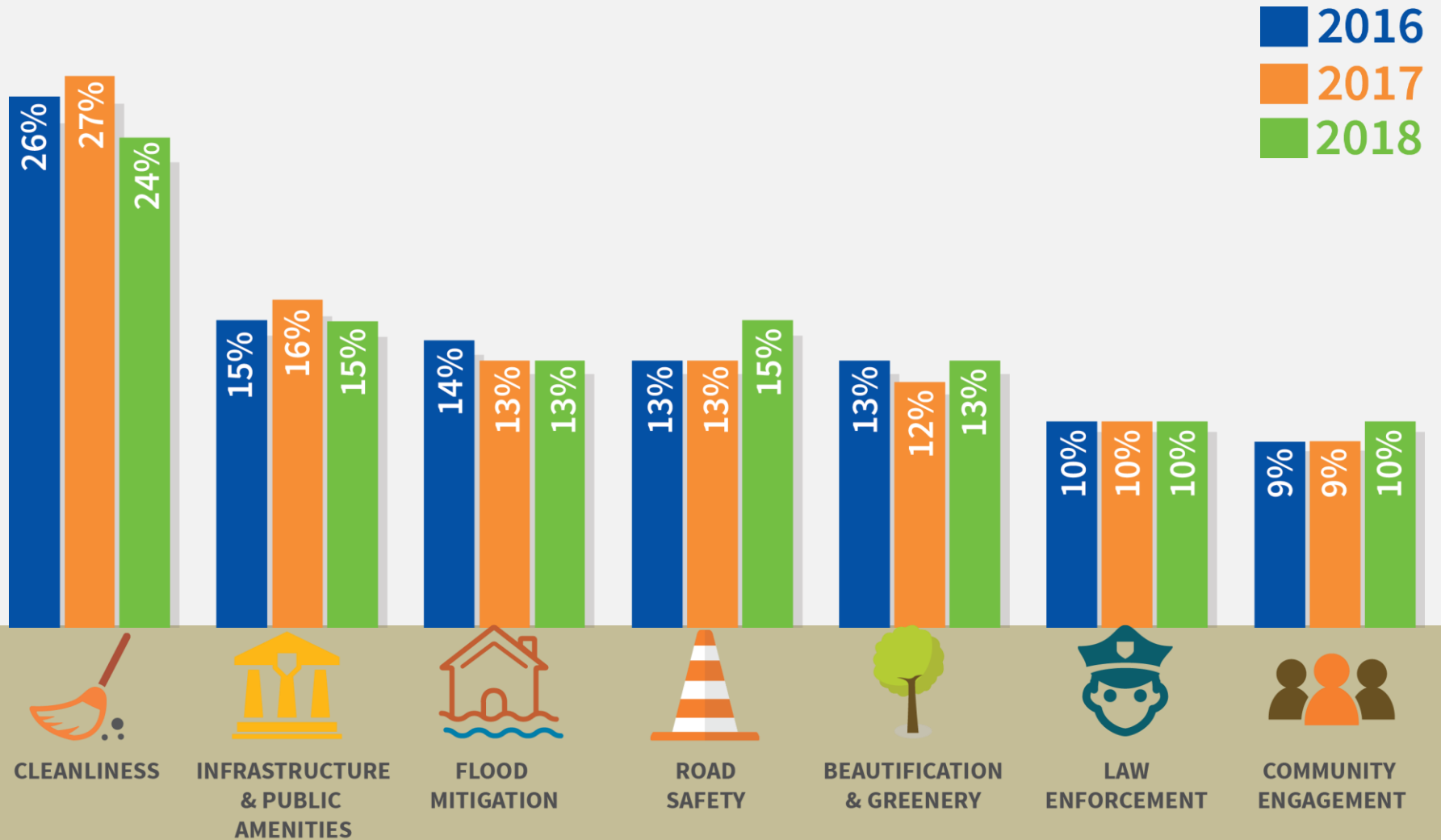
Townhall Session

Dialogue Budget



Dialogue Budget

Respondents priority level of MPSP services



Collabration Software Slido as Q&A platform

 **Majlis Perbandaran Seberang Perai** was live...
Published by Teradek [?] · 17 April · 🌐

Program Integriti Bersama Peniaga
"Saya Peniaga Berintegriti"
Majlis Perbandaran Seberang Perai
Panel ... See more



Upcycle Park



UPCYCLE PARK



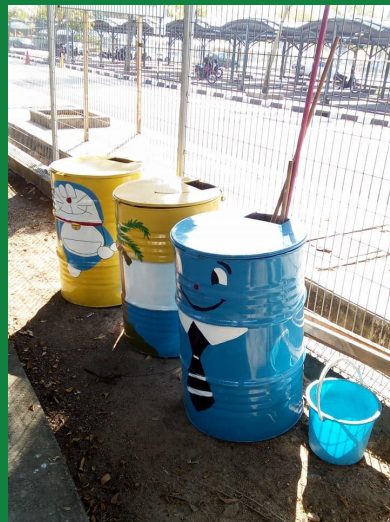
UPCYCLE PARK



UPCYCLE PARK



Seberang Perai Smart Consumption Model



Eco City Batu Kawan



EcoCity BATU KAWAN

"Apart from physically greening Batu Kawan, it is also important to look at introducing sustainable green and eco-friendly practices in the area.

"We hope Batu Kawan can become a model for other townships to eventually adopt an Eco-town concept that promotes a healthy living environment,"

- Chief Minister Lim Guan Eng



**Neighbourhood
Concept**



**Zero
Renovation**



Safe City



**Affordable
Homes**



Accessibility



**Solid Waste
Management**



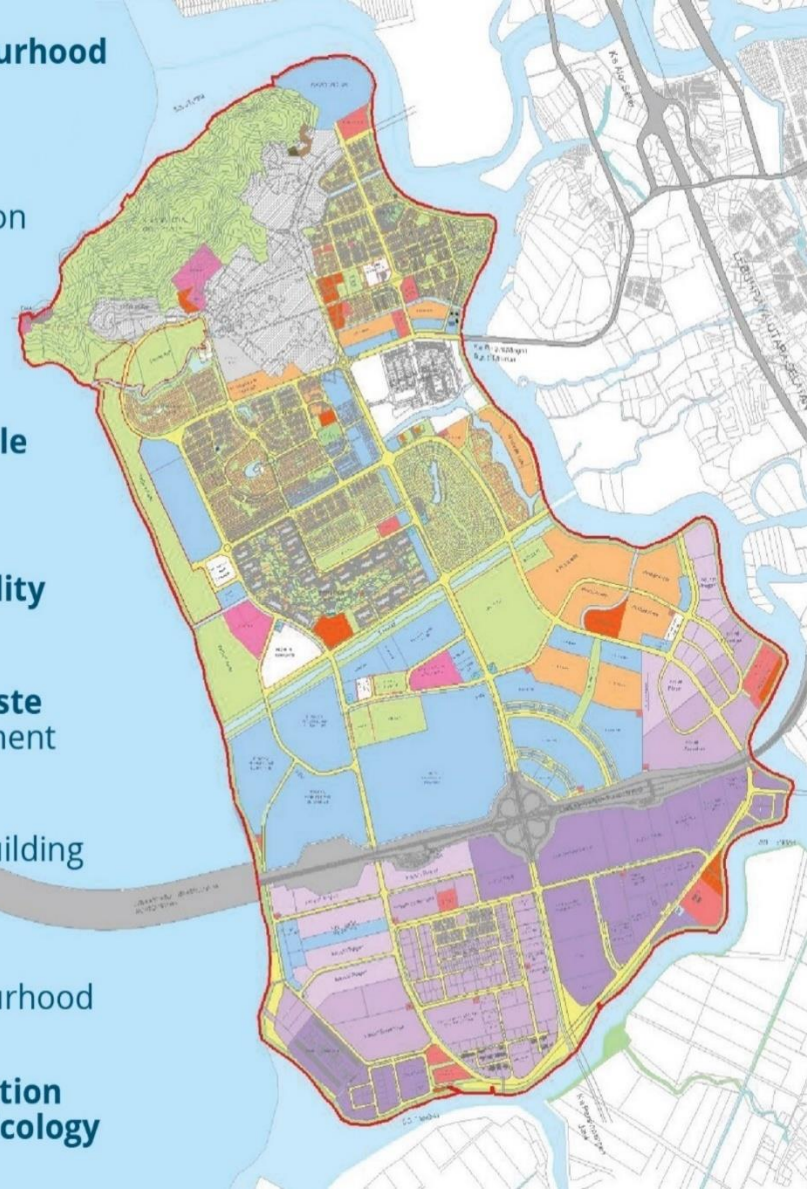
Green Building



**Green
Neighbourhood**



**Preservation
Existing Ecology**



Thank You

#myseberangperai

**MAJLIS PERBANDARAN
SEBERANG PERAI**
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