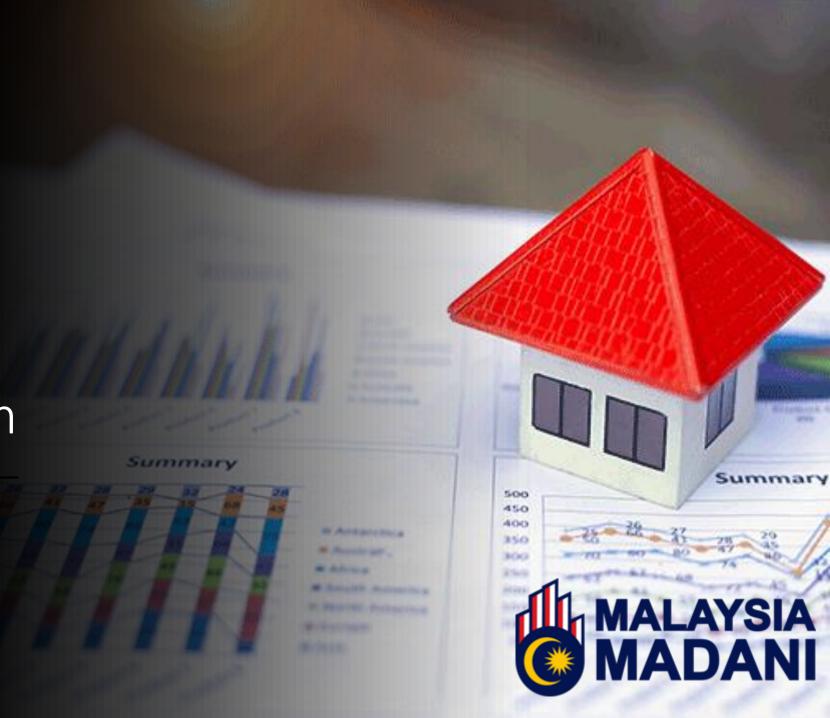
Analysing
Potential
Development via
NAPIC's
Data Visualisation

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Foreword

Data can be used to improve everything in real estate.

Analytics can enhance data presentation and visualisation.

With data driven strategies, it can be used to:

- i. monitor development approval (local authority),
- i. increase profit (developers & investors), and
- iii. reduce wastage of resources (environment).



Foreword

NAPIC's has taken a footstep in the era of BDA with Data Visualisation; to nurture data driven decision making in real estate.

This presentation is a prototype of a new JPPH product for PRISM 2.0-BDA module.

Focus on the earliest stage of feasibility study; deciding which market to explore (buying real estate).

NAPIC and DOSM data will be used.

Analysing Number of Household (Population)



Data from Department of Statistics Malaysia (DOSM)

Analysing District with Increasing Numbers of Household (population growth)

Table 1.9: Percentage of households by household group, strata and administrative district, Selangor, 2019 and 2022

Daerah pentadbiran	2019					2022								Difference		
Administrative district	Tertinggi 20%	Pertengahan 40%	Tere	endah 40%	Ter	tinggi 20%	Per	tengahan 40%	Te	rendah 40%	Те	rtinggi 20%	Pertengahan 40%		6 Terendah 40%	
	Top 20%	Middle 40%	Б	Bottom 40%		Top 20%		Middle 40%		Bottom 40%		Top 20%		Middle 40%	L	Bottom 40%
SELANGOR																
Bilangan isi rumah ('000)	324.6	649.2		649.3		355.0		709.9		710.0		30.4		60.7		60.7
Number of household ('000)																
Jumlah/Total	100.0	100.0		100.0		100.0		100.0		100.0		0.0		0.0		0.0
Bandar/Urban	97.1	95.4		92.4		97.6		96.8		94.0		0.5		1.4		1.6
Luar bandar/Rural	2.9	4.6		7.6		2.4		3.2		6.0		(0.5	Household	(1.4)	Household	(1.6)
Administrative district													No. ('000)		No. ('000)	
Gombak	13.5	43.8 11.8	76.6	11.4	74.0	16.9	60.0	10.8	76.7	10.9	77.4	3.4	16.2	(1.0)	0.1	(0.5)
Klang	12.0	39.0 14.8	96.1	15.3	99.3	9.6	34.1	12.7	90.2	19.0	134.9	(2.4)	(4.9)	(2.1)	(5.9)	3.7
Kuala Langat	2.2	7.1 3.6	23.4	4.4	28.6	3.7	13.1	5.6	39.8	4.3	30.5	1.5	6.0	2.0	16.4	(0.1)
Kuala Selangor	2.3	7.5 2.5	16.2	5.2	33.8	2.4	8.5	3.1	22.0	5.5	39.1	0.1	1.1	0.6	5.8	0.3
Petaling	46.7	151.6 32.4	210.3	34.4	223.4	37.0	131.4	29.0	205.9	35.6	252.9	(9.7)	(20.2)	(3.4)	(4.5)	1.2
Sabak Bernam	0.6	1.9 1.0	6.5	2.8	18.2	0.5	1.8	0.8	5.7	2.8	19.9	(0.1)	(0.2)	(0.2)	(0.8)	0.0
Sepang	4.9	15.9 5.1	33.1	3.5	22.7	6.5	23 1	8.4	50.0	26	18.5	1.6	7.2	3.3	26.5	(0.9)
Ulu Langat	16.3	52.9 25.8	167.5	18.1	117.5	21.2	75.3	<u> 26.8</u>					22.4	1.0	22.8	(3.4)
Ulu Selangor	1.5	4.9 3.0	19.5	4.9	31.8	2.2	7.8							(0.2)	0.4	(0.3)

Note:

Petaling & Klang has the highest number of household, but the growth is actually –ve.

District with positive growth and highest number of household(hh):

1. Ulu Langat: + 32,100 hh

2. Sepang: + 29,500 hh

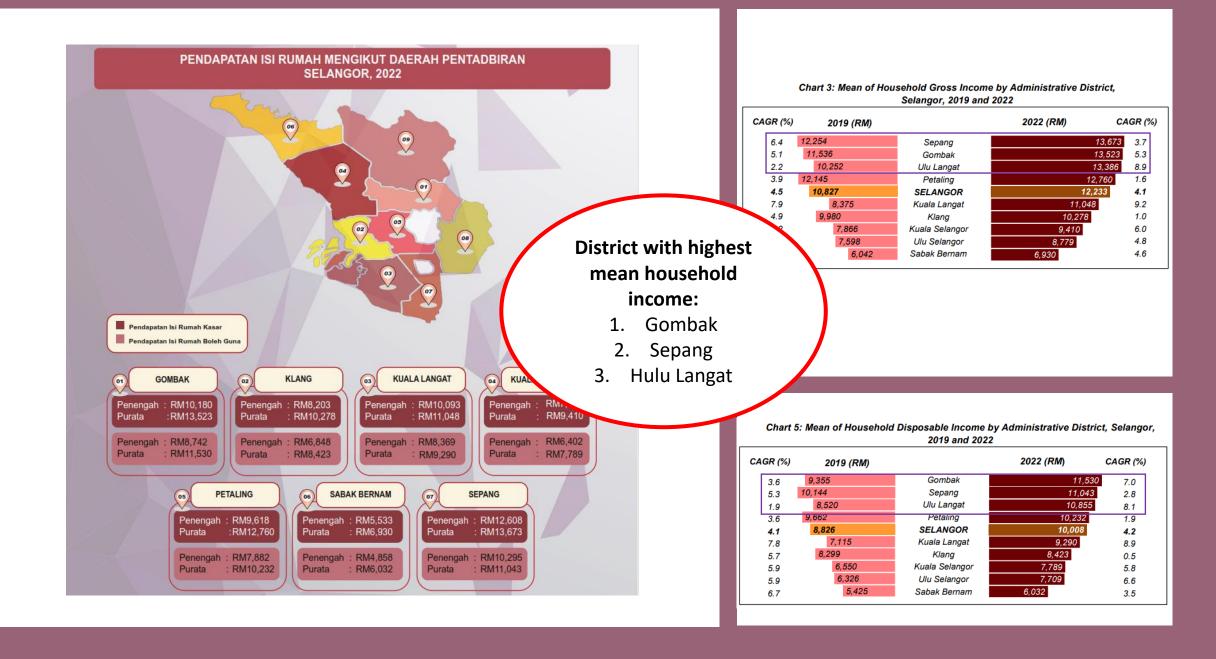
3. Kuala Langat: + 24,300 hh

Source: https://newss.statistics.gov.my/newss-portalx/ep/epDownloadContentSearch.seam?cid=39562

Analysing Household Income



Data from Department of Statistics Malaysia (DOSM)



Percentage of households and household number by monthly household disposable income class and administrative district, Selangor, 2022

				Administrative district							
Disposable	e incon	ne class	Gom		Kuala L		Sepa		Ulu La		
RM)		Household Percentage	Household Number	Household Percentage	Household Number	Household Percentage	Household Number	Household Percentage	Household Number		
1,999	and be	elow	0.6	1.4	0.0	0.0	0.0	-	0.2	Distric	ct with higher
2,000	-	2,999	3.8	8.0	1.0	0.9	0.1	0.1	1.4		me bracket:
3,000	-	3,999	7.4	15.9	6.5	5.4	2.9	2.9	4.8		Sepang
4,000	-	4,999	7.5	15.9	10.0	8.4	4.3	4.3	7.8	2. 3.	Ulu Langat Gombak
5,000	-	5,999	9.3	19.9	10.7	8.9	1.2	4.2	7.1	3.	Goillbak
6,000	-	6,999	7.6	16.3	8.2	6.8	5.6	5.7	7.0	25.8	
7,000	-	7,999	8.6	18.4	10.8	9.0	5.7	5.8	8.7	32.2	
8,000	-	8,999	6.9	14.8	9.0	7.5	10.0	10.1	10.3	38.1	
9,000	-	9,999	6.8	14.6	9.3	7.7	14.1	14.3	11.8	43.8	
10,000	-	10,999	5.7	12.1	8.0	6.7	12.9	13.0	10.1	37.3	
11,000	-	11,999	4.6	9.8	5.0	4.1	10.0	10.1	6.3	23.2	
12,000	_	12,999	3.9	8.3	6.4	5.4	8.5	8.6	4.9	18.0	
13,000	-	13,999	3.4	7.4	2.8	2.3	6.2	6.3	3.1	11.5	
14,000	-	14,999	3.2	6.8	2.2	1.9	2.0	2.0	2.6	9.5	
15,000 and above		20.7	44.3	10.0	8.3	13.6	13.7	14.0	51.8		
-	Total		100.0	214.1	100.0	83.4	100.0	101.2	100.0	369.9	

Analysing
Development
Hotspot



PUBLICATION

SERVICES



Data Visualisation

DATA REQUEST

CLASSIC PORTAL

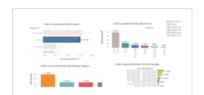
DOWNLOAD



Click here to view guideline video

ABOUT NAPIC

Property Status



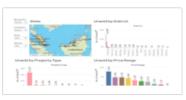
Analytics View New Launches



Analytics View Unit Sold Within 9 Months



Analytics View Unit Sold Within 3 Months



Commercial Property Market Status Analytics

https://napic2.jpph.gov.my/en/data-visualization

SUNDAY, 17 SEP 2023



Analytics View Unit Sold Within 6 Months



Commercial Property Market Status Table by District



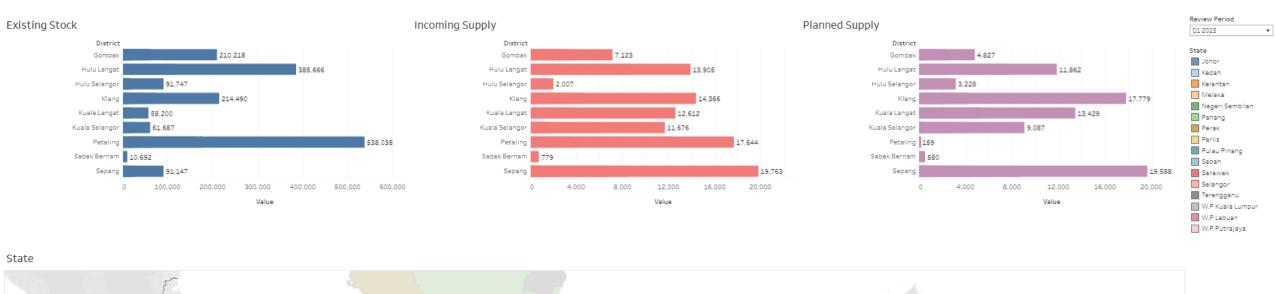


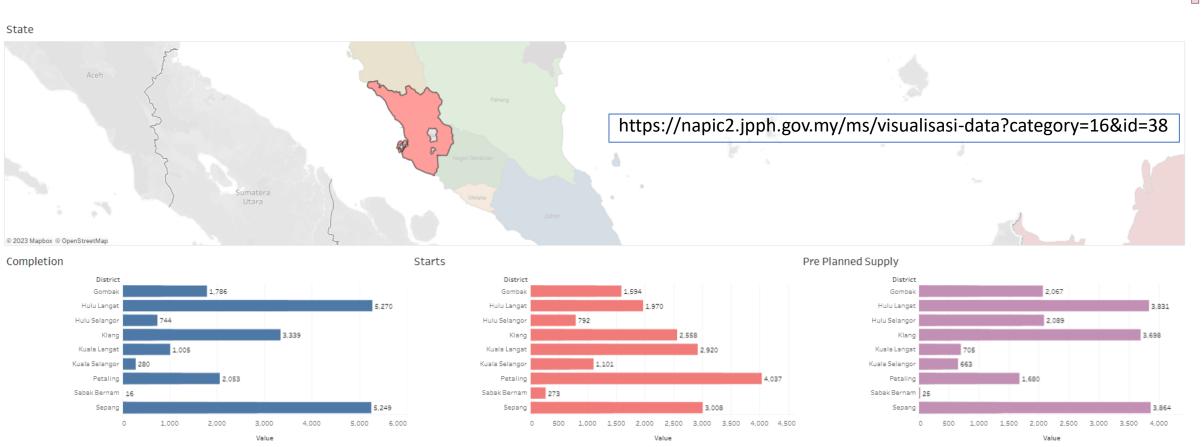




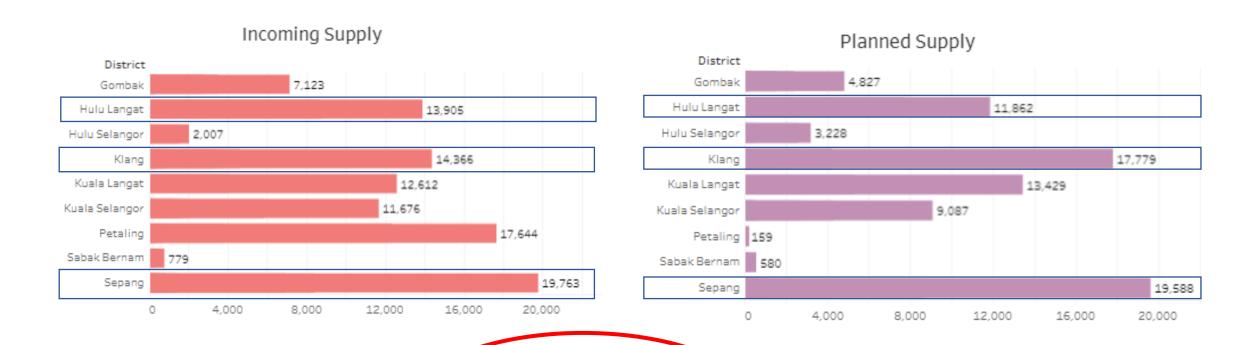


Property Stock Report





Future Supply



Future Development Hotspot:

1. Sepang: 39,351 units

2. Klang: 32,145

3. Hulu Langat: 25,767

Determining Potential Market



Demography Score Matrix

District with positive growth and highest number of household(hh):

1. Ulu Langat: + 32,100 hh

2. Sepang: + 29,500 hh

3. Kuala Langat: + 24,300 hh

Future Development Hotspot:

1. Sepang: 39,351

units

2. Klang: 32,145

3. Hulu Langat: 25,767

District with higher income bracket:

- 1. Sepang
- 2. Ulu Langat
- 3. Gombak

District with highest mean household income:

- 1. Gombak
- 2. Sepang
- 3. Hulu Langat

No.	Criteria	HULU LANGAT	SEPANG	KUALA LANGAT	GOMBAK
1.	Positive growth population	1	2	3	4
2.	High income bracket	2	1	4	3
3.	High mean household income	3	2	4	1
4.	Development hotspot	2	1	3	4
	Total Score	8	6	14	12

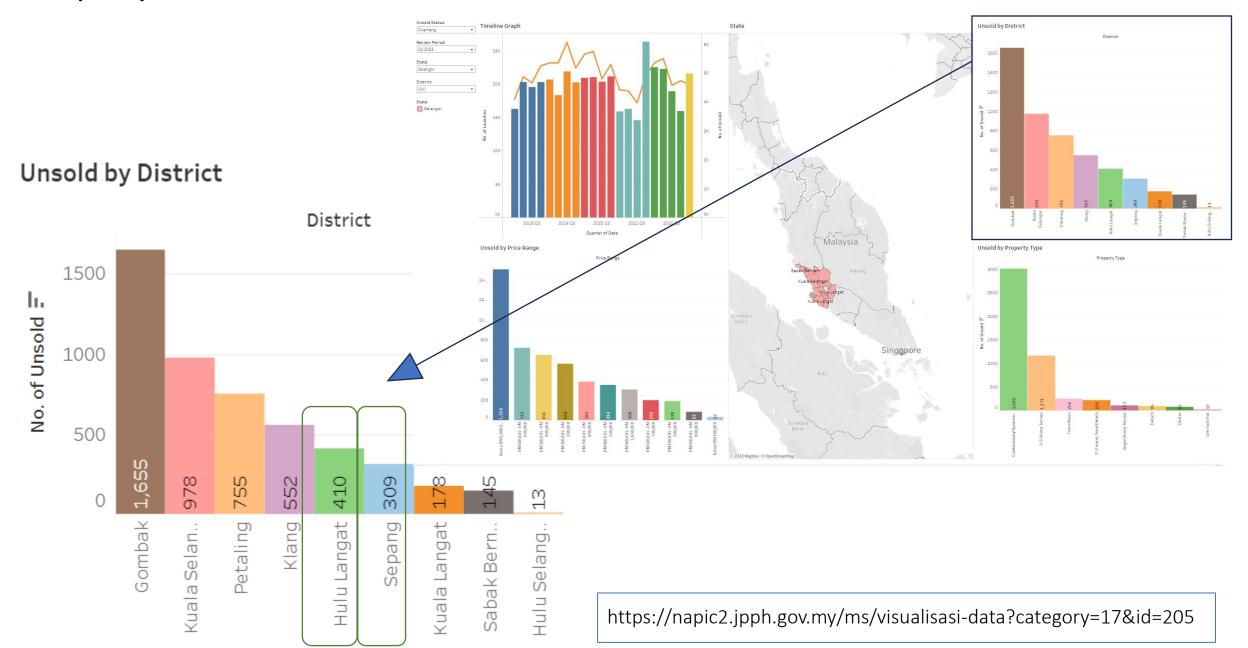
Note:

With lowest score, Sepang and Ulu Langat will be considered as a high potential area.

Measuring Overhang Severity



Property Sales Performance – Unsold Sales Status



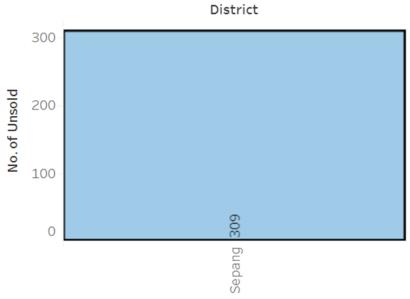
Potential Development



Timeline Graph



Unsold by District



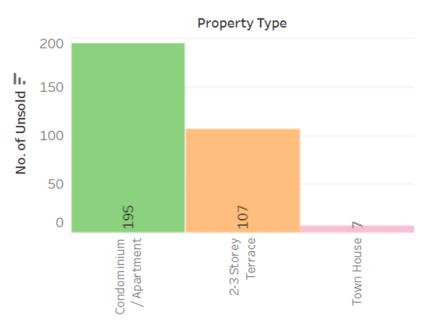
Sepang

 Number of overhang in the downtrend. Good absorption and less competition. Moderate excessive unsold units:

Unsold by Price Range



Unsold by Property Type

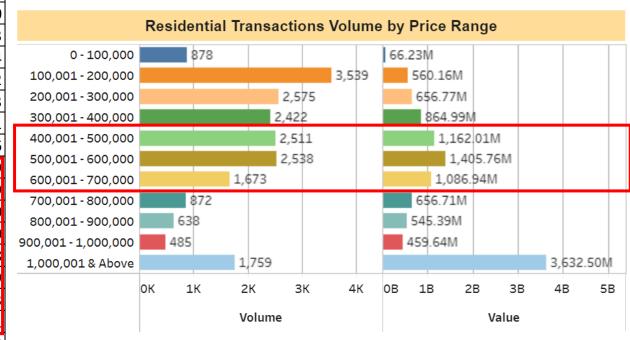


Avoid:

- RM900k & above.
- Condominium/Apartment
 & 2-3 storey terrace.



Disposable income class				Triple	In	come	Sepang			
				Housing /	٩ff	ordablity	Household	Household		
(1	RM	1)		(1	RIV	1)	Percentage	Number '000		
								101.17		
1,999 and be	lo	W		0		71,964.00	0	0.00		
2,000	_	2,999		72,000.00	_	107,964.00	0.13	0.13		
3,000	_	3,999		108,000.00	_	143,964.00	2.91	2.94		
4,000	_	4,999		144,000.00	_	179,964.00	4.27	4.32		
5,000	_	5,999		180,000.00	_	215,964.00	4.18	4.23		
6,000	_	6,999		216,000.00	_	251,964.00	5.64	5.71		
7,000	_	7,999		252,000.00	_	287,964.00	5.69	5.76		
8,000	-	8,999		288,000.00	-	323,964.00	9.97	10.09		
9,000	-	9,999		324,000.00		359,964.00	14.13	14.29		
10,000	-	10,999		360,000.00		395,964.00	12.85	13.00		
11,000	-	11,999		396,000.00		431,964.00	9.98	10.10		
12,000	1	12,999		432,000.00	_	467,964.00	8.48	8.58		
13,000	-	13,999		468,000.00	_	503,964.00	6.22	6.29		
14,000	_	14,999		504,000.00	_	539,964.00	2.01	2.03		
15,000		and above		540,000.00	_	above	13.55	13.71		
Total							100	101.18		



Verdict:

Based on the analysis from both DOSM and NAPIC data, Sepang was deemed as a district with the highest potential. Referring to the disposable income class and previous history of demand record, condominium, 2-storey terrace, and 2 storet semi-d priced between RM 400k – RM700k was highly sought after. Via Data visualisation and BDA, this simple analysis done in minutes.





Terima Kasih

Conclusions

- 1. Data Visualisation and BDA certainly helped valuers, property investors and researchers in giving more accurate, timely information.
- 2. NAPIC will take advantage of the newly announced Central Database Hub (PADU) to provide a more comprehensive BDA & AI module in PRISM 2.0.

3. Imagine:

- The AI assistant can provide zoning, no. of units allowed, parking requirements, maximum building height, and plot ratio, helping uncover a property's true potential (HBU).
- With ChatGPT, marketing too will become more direct to the potential buyer based on their profile.