

# The Use of GIS Application In Identifying Youth Recreational Area in Subang Jaya, Selangor

Rosilawati Zainol  
Syra Lawrance Maidin

# Content of Presentation

- Youth
- Youth and Recreational Area
- Subang Jaya, Selangor
- Population and Recreational Area
- Planning Guidelines
- Recreational Carrying Capacity in Subang Jaya

# Youth

- Valuable asset to all nations of the world
- Age group
  - 15 – 24 years old
  - Target group in this study – 15 – 19 years old
- Often subjected to act of delinquencies
- Could be due to
  - Ample leisure time
  - Lack of parental guidance and attention
  - Peer group influence
  - Lack of religious knowledge

# Youth

- Should be given avenues to exert their excess energy
- Recreational activities – not only to fill up their leisure time but also to be fit mentally and physically

# Youth and Recreational Area

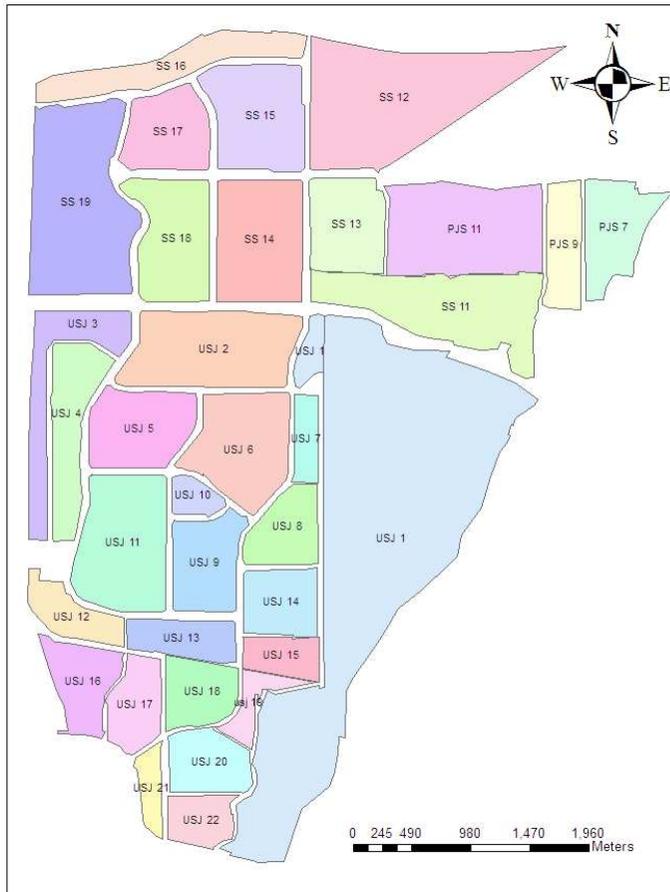
- Recreational activities can take place
  - Outdoor
  - Indoor
- Recreational parks
  - Accessibility to Recreational Areas
  - Safety

# Geographic Information Systems

- Widely known and used in spatial analyses in various disciplines



# Subang Jaya, Selangor

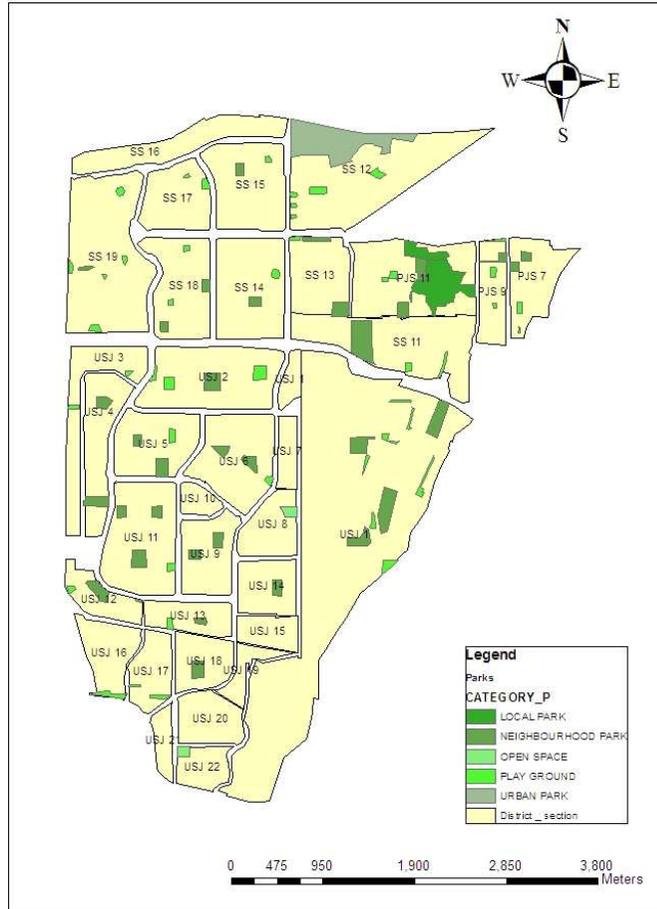


- SS<sub>12</sub> – SS<sub>18</sub>
  - 5.83km<sup>2</sup>
- USJ<sub>1</sub> – USJ<sub>21</sub>
  - 10.12km<sup>2</sup>
- Population
  - 132,334
  - 10 – 14 yrs
    - 10,629
  - 15 – 19 yrs
    - 10,409

# Planning Guidelines

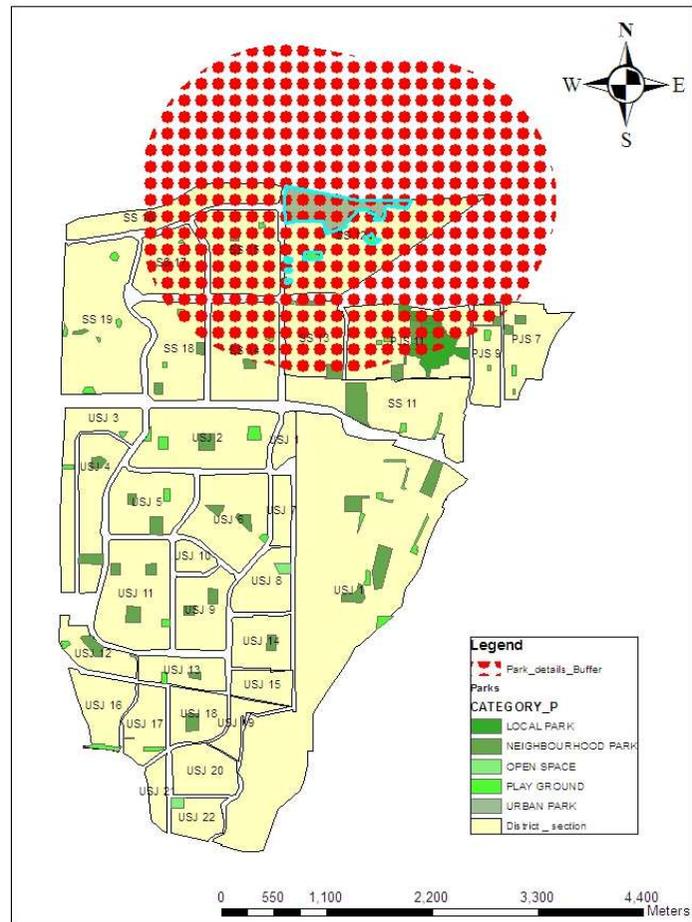
Type of Park	Size (hectares)	Number of Population	Service Area
National park	Unlimited	Unlimited	Throughout the country
State park	100 (≥250 acres)	Throughout a township	Within 1 hour travelling time
Urban park	40 – 100 (100 – 250 acres)	50,000	Within 5 km buffer
Local park	8 – 40 (20 – 100 acres)	12,000	Within 3 km buffer
Neighbourhood park	1.2 (3 acres)	3,000	Within 1.5 km buffer
Playground	0.6 (1.5 acres)	1,000	Within 1 km buffer
Play lot	0.2 (0.5 acres)	300	Within 0.5 km buffer

# Recreational Parks

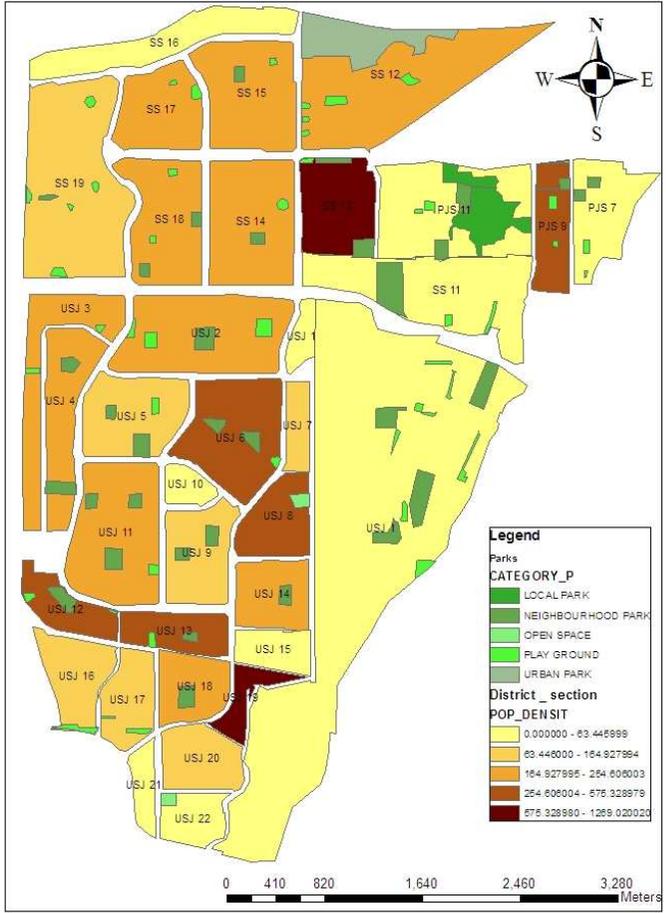


- Play Lot – 42
- Playground – 25
- Neighborhood Park – 4
- Local Park – 1
- Sports Complex - 1

# Simple Buffer Analysis



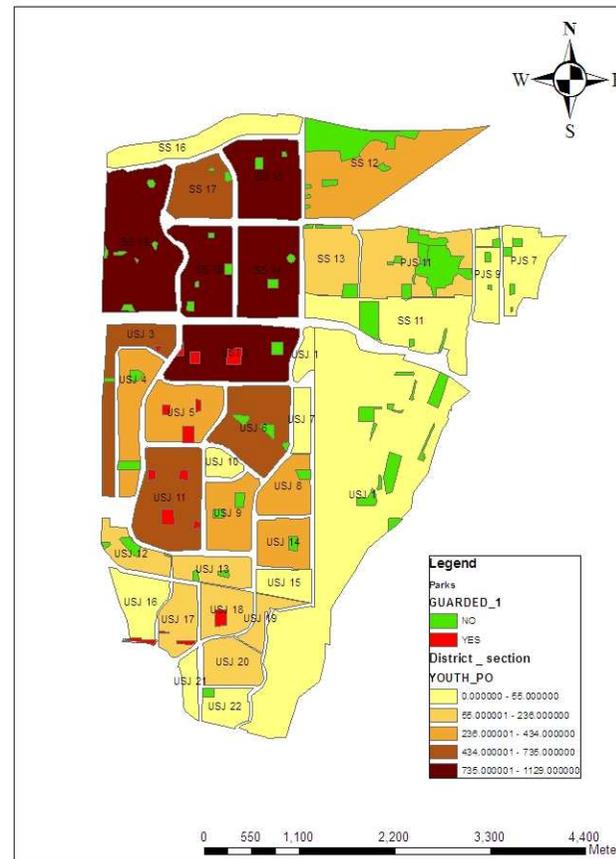
# Distribution of Parks



# Recreational Areas for SS12 – SS19

Section	Park Category	Park Area Coverage (acres)	Carrying capacity	Total Population within section	Total Population within buffer zone	Within Capacity	Gated and Guarded	Access to Public	Easily accessible to youth
Subang Ria Park in SS12	Local park	41.81	12,000	3,620	9,100	Yes	No	Yes	No
SS13	Playground	5.51	1,000	1,884	8,999	No	No	Yes	Yes
SS14	Neighbourhood park	93.43	3,000	7,115	7,115	No	No	Yes	Yes
SS15	Neighbourhood park	55.35	3,000	5,202	5,202	No	No	Yes	Yes
SS16	NA	NA	NA	278	NA	NA	No	Yes	Yes
SS17	Neighbourhood park	64.45	3,000	5,073	5,073	No	No	Yes	Yes
SS18	Neighbourhood park	90.86	3,000	7,298	7,298	No	No	Yes	Yes
SS19	Neighbourhood park	NA	3,000	12,352	NA	NA	No	Yes	Yes

# Distribution of Parks within and Outside Guarded and Gated Community



# Analysis of Recreational Areas for USJ1 – USJ10

Section	Park Category	Park Area Coverage (acres)	Carrying capacity	Total Population within section	Total Population within buffer zone	Within Capacity	Gated and Guarded	Access to Public	Easily accessible to youth
USJ1	Play lot	127.29	300	445	445	Yes	No	Yes	Yes
USJ2	Neighbourhood park	109.71	3,000	11,304	11,304	No	Yes partially	Partial	Yes
USJ3	Neighbourhood park	116.49	3,000	8,607	14,395	No	Yes partially	Partial	Yes
USJ4	Neighbourhood park	68.49	3,000	5,788	18,303	No	No	Yes	Yes
USJ5	Neighbourhood park	77.09	3,000	3,908	3,908	No	Yes	No	Yes
USJ6	Neighbourhood park	88.43	3,000	12,374	12,374	No	No	Yes	Yes
USJ7	Play lot	12.08	300	498	498	No	No	Yes	Yes
USJ8	Neighbourhood park	24.16	3,000	5,625	9,865	No	No	Yes	Yes
USJ9	Neighbourhood park	66.03	3,000	4,240	4,240	No	No	Yes	Yes
USJ10	NA	NA	NA	614	NA	NA	No	Yes	Yes

# Analysis of Recreational Areas for USJ11

## – USJ20

USJ11	Neighbourhood park	130.98	3,000	11,693	17,481	No	Yes	No	Yes
USJ12	Neighbourhood park	30.02	3,000	4,073	12,680	No	No	Yes	Yes
USJ13	Neighbourhood park	28.56	3,000	3,967	8,040	No	No	Yes	Yes
USJ14	Neighbourhood park	60.66	3,000	5,607	5,607	No	No	Yes	Yes
USJ15	NA	22.58	NA	NA	NA	NA	NA	NA	NA
USJ16	Playground	44.32	1,000	1,570	5,652	No	Yes	No	Yes
USJ17	Playground	35.33	1,000	1,752	4,082	No	Yes	No	Yes
USJ18	Playground	29.80	1,000	2,330	2,330	No	Yes	No	Yes
USJ19	Neighbourhood park	8.25	3,000	4,236	4,236	No	No	Yes	Yes
USJ20	Playground	40.29	1,000	2,689	2,689	No	No	Yes	Yes

# Conclusion

- Recreational areas are insufficient
- Sports complex is not easily accessible
- Unsafe
- Methods of recreational areas allocation should be modified

# Thank You

[rosilawatizai@um.edu.my](mailto:rosilawatizai@um.edu.my)