

UTLIZATION OF PET GARDEN

in Hong Kong:

Situation, Benefits and Improvement

KEY WORDS

pet garden; companion animal; benefit perception.

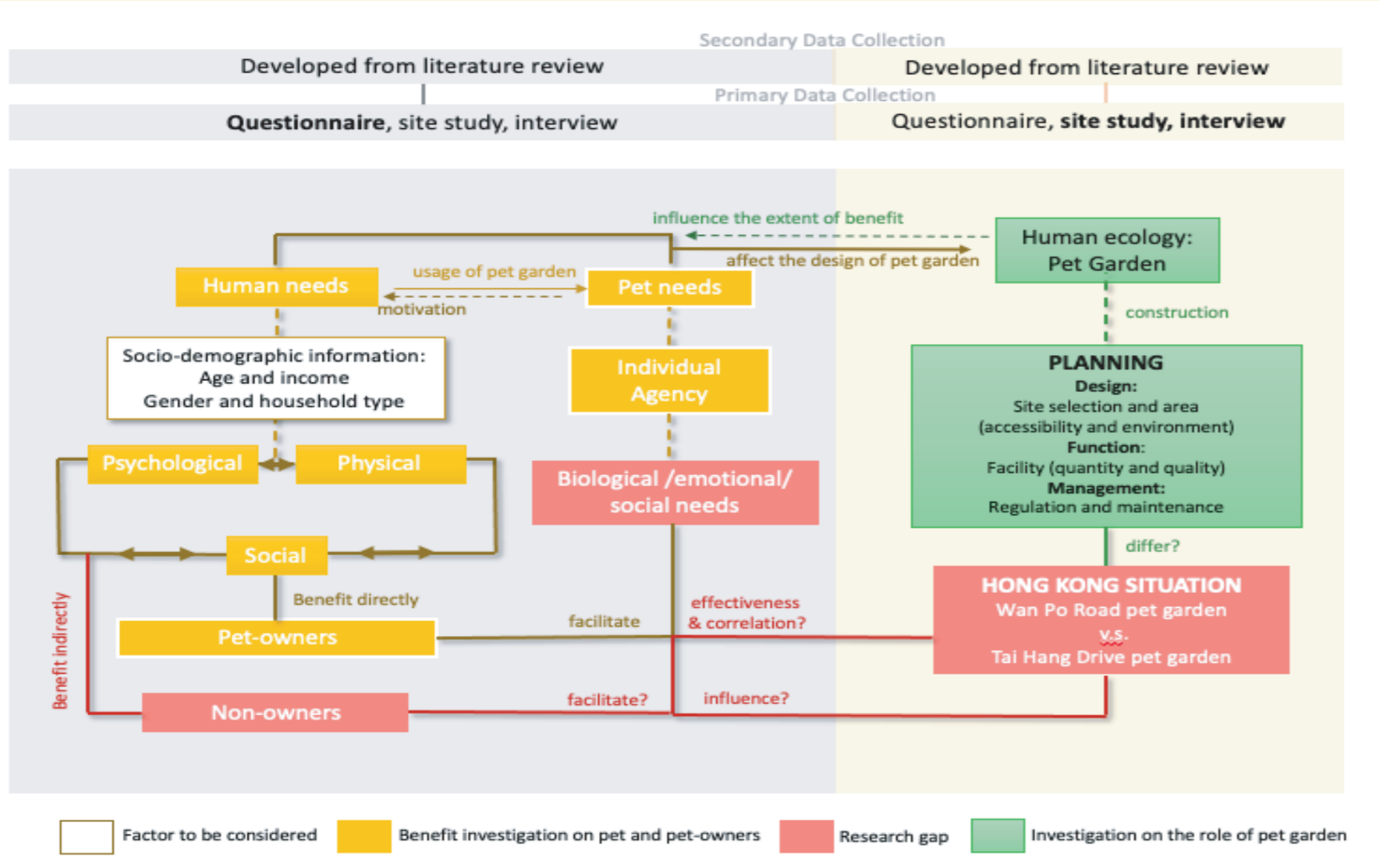
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GRMD 4002 Final Year Thesis II
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RESEARCH OBJECTIVE

- a) to evaluate the design, function and management of pet garden
- b) to assess whether it could satisfy pet demand
- c) to assess the satisfaction level of dog owners and non-dog owners
- d) to discover the variation of contentment level by socio-demographic factors
- e) to offer suggestions to government on pet garden operation, in order to build a human-pet interactive society

FINALIZED CONCEPTUAL FRAMEWORK



Focus on human demand, pet demand and how pet garden fulfill their needs.

- a) **Human demand:** the demand of pet-owners and non-owners in social, psychological and physical aspects.
- b) **Pet demand:** derived from *The Hierarchy of Dog Needs* invented by Michael (2015), including biological, emotional and social needs for investigation.
- c) **pet garden:** explore its functionality according to design, function and management
- d) **socio- demographic factors:** discover whether the level of contentment would vary by age and income.
- e) **comparison:** discover whether there is discrepancy between pet gardens in HOng Kong.

TERMINOLOGY

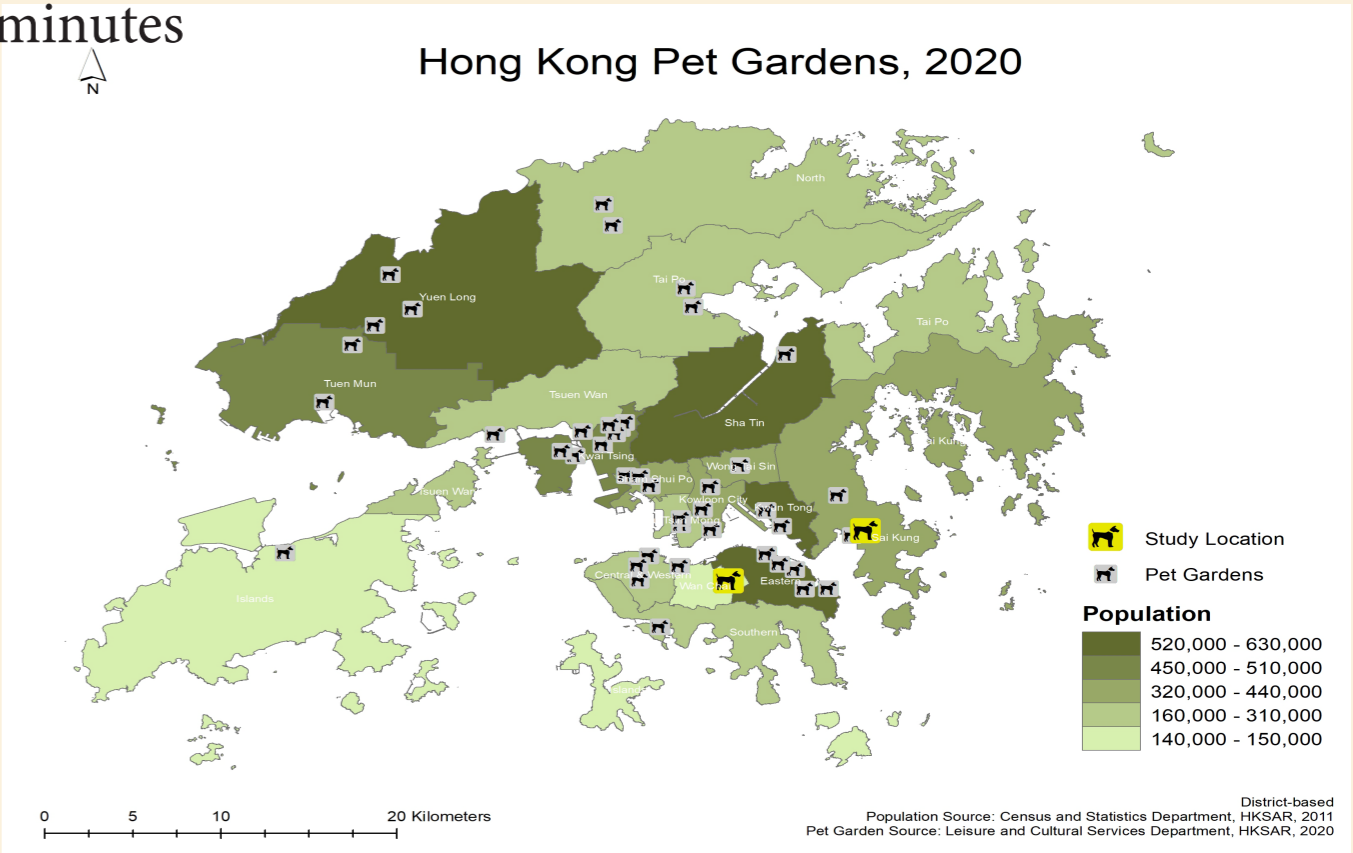


- a) **pet garden:** refers to a place where the dogs are able to conduct physical activities accompanying with dog owners (Glasser, 2013)
- b) **human demand:** social bond and neighborhood relationship; psychological maturity, relaxation and stress reduction; physical exercise and health
- c) **pet demand:** biological conditions (food, shelter...); love and care; social interaction with human and other pets.
- d) **human and pet relationship:** Human-pet Attachment; Biophilia Hypothesis.



STUDY AREA

- a) **Wan Po Road Pet Garden:** the largrst pet garden in Sai Kung district, Hong Kong.
Basic information:
accessibility by walking: 23 minutes
accessibility by bus: 13 minutes
parking lot available
4000 square meters



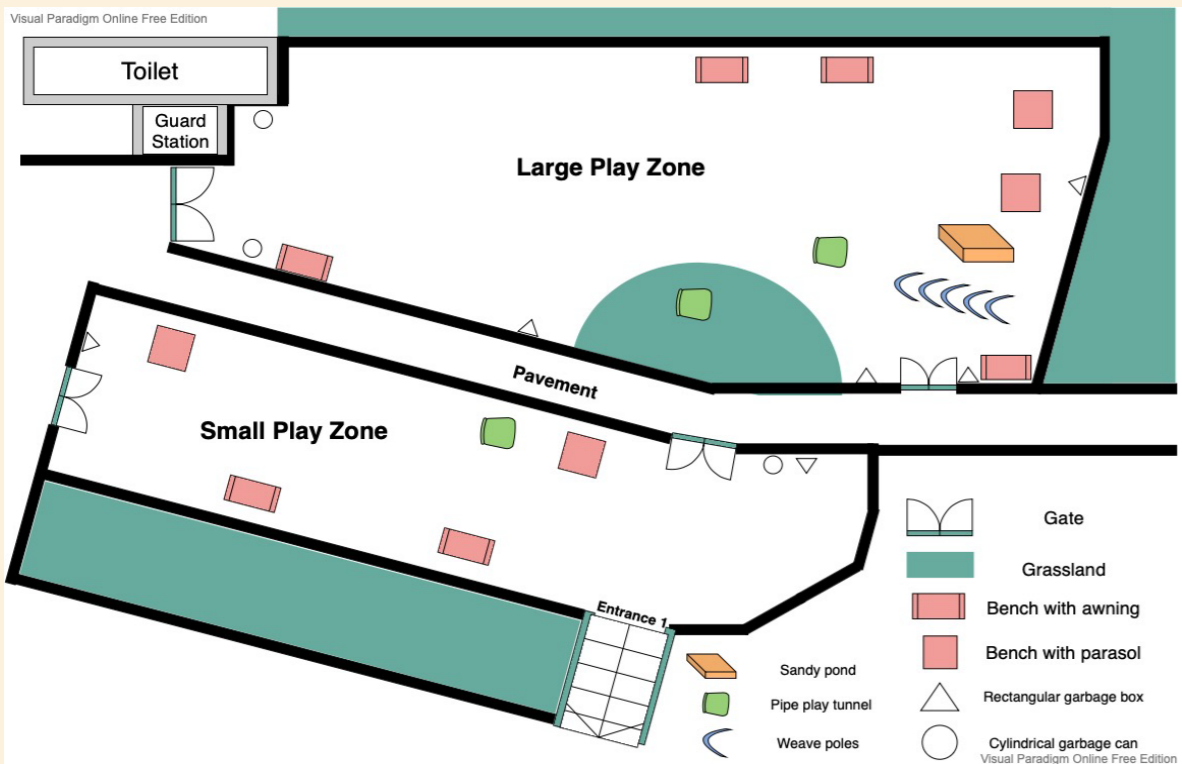
- b) **Tai Hang Drive Pet Garden:** the smallest pet garden in Wan Chai district, Hong Kong.
Basic information:
accessibility by walking: 32 minutes
accessibility by minibus: 17 minutes
no parking lot
96 square meters

45 GARDENS

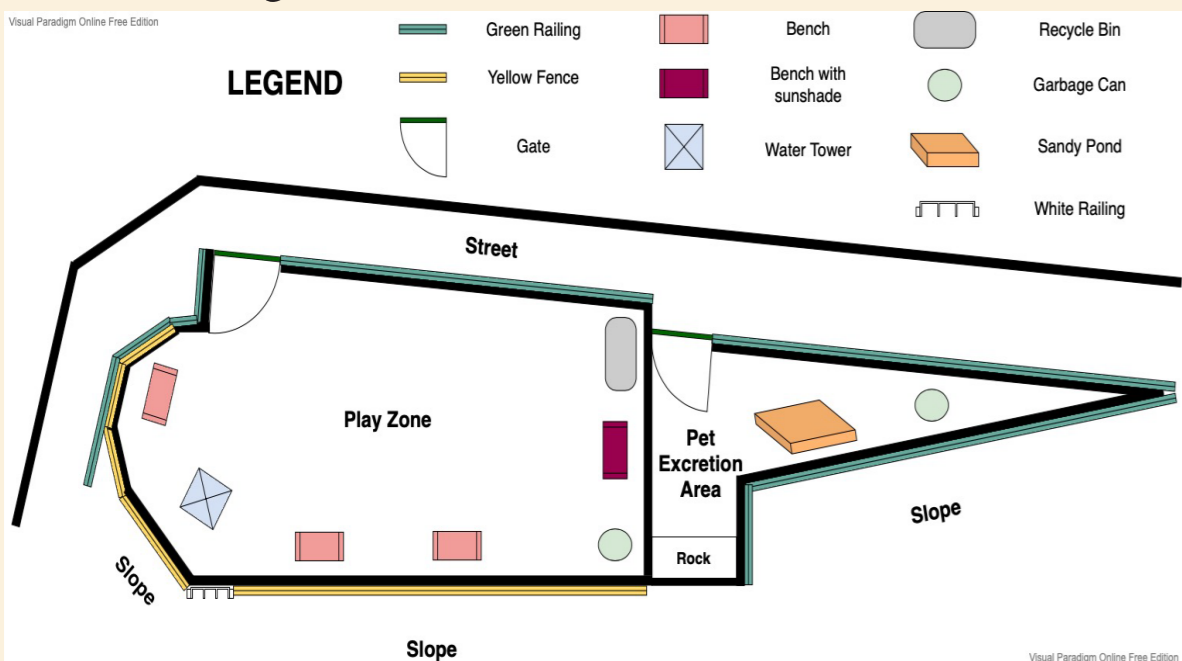
221,100 DOGS

MAPPING OF PET GARDENS

a) Wan Po Road Pet Garden:



b) Tai Hang Drive Pet Garden:



mapping items: design & facility
(gate, surfacing, fence, bench, waste bin, amusement rides, water supply)

QUANTITATIVE ANALYSIS (QUESTIONNAIRE)



a) contentment of non-owners:

Section ^{a2}	Mean ^{a3}	Standard Deviation ^{a3}
Role of Pet Garden ^{a3}	Social benefit ^{a3}	3.96 ^{a3}
	Physical benefit ^{a3}	3.60 ^{a3}
	Psychological benefit ^{a3}	3.93 ^{a3}
	Overall contentment ^{a3}	4.21 ^{a3}

b) contentment of pet-owners:

	Wan Po Road Pet Garden ^{a2}		Tai Hang Drive Pet Garden ^{a2}	
	AVR ^{a3}	SD ^{a3}	AVR ^{a3}	SD ^{a3}
Benefit ^{a3}				
Pet benefit ^{a3}	4.71 ^{a3}	0.296 ^{a3}	4.83 ^{a3}	0.228 ^{a3}
Human benefit ^{a3}	4.54 ^{a3}	0.334 ^{a3}	4.39 ^{a3}	0.398 ^{a3}
Role of pet garden ^{a3}				
Design ^{a3}	4.31 ^{a3}	0.631 ^{a3}	2.77 ^{a3}	1.308 ^{a3}
Function ^{a3}	4.35 ^{a3}	0.575 ^{a3}	3.00 ^{a3}	1.092 ^{a3}
Management ^{a3}	4.83 ^{a3}	0.256 ^{a3}	4.41 ^{a3}	0.691 ^{a3}
Overall contentment ^{a3}	4.70 ^{a3}	0.495 ^{a3}	2.88 ^{a3}	1.464 ^{a3}

Method:

- 1st- **descriptive statistic** of survey results (mean and standard deviation provided).
 - 2nd- **Pearson's r** to explore the correlation between variables, that is, human benefit, pet benefit, pet garden design, function, managment and overall contentment. **Age and income effect** were also computed.
 - 3rd- **ANOVA test** to investigate the differences between study sites.
- Combining with site study & interview result for evaluation.

c) differences between pet gardens:

	Sum of squares ^{a2}	df ^{a3}	Mean square ^{a3}	F ^{a3}	Significance ^{a3}
Pet benefit ^{a3}	Between pet garden ^{a3}	0.404 ^{a3}	1 ^{a3}	0.404 ^{a3}	5.619 ^{a3}
	Within pet garden ^{a3}	8.337 ^{a3}	116 ^{a3}	0.072 ^{a3}	^{a3}
	Sum ^{a3}	8.741 ^{a3}	117 ^{a3}	^{a3}	^{a3}
Human benefit ^{a3}	Between pet garden ^{a3}	0.656 ^{a3}	1 ^{a3}	0.656 ^{a3}	4.964 ^{a3}
	Within pet garden ^{a3}	15.333 ^{a3}	116 ^{a3}	0.132 ^{a3}	^{a3}
	Sum ^{a3}	15.989 ^{a3}	117 ^{a3}	^{a3}	^{a3}
Design ^{a3}	Between pet garden ^{a3}	68.670 ^{a3}	1 ^{a3}	68.670 ^{a3}	70.391 ^{a3}
	Within pet garden ^{a3}	113.165 ^{a3}	116 ^{a3}	0.976 ^{a3}	^{a3}
	Sum ^{a3}	181.835 ^{a3}	117 ^{a3}	^{a3}	^{a3}
Function ^{a3}	Between pet garden ^{a3}	52.808 ^{a3}	1 ^{a3}	52.808 ^{a3}	74.424 ^{a3}
	Within pet garden ^{a3}	82.308 ^{a3}	116 ^{a3}	0.710 ^{a3}	^{a3}
	Sum ^{a3}	135.117 ^{a3}	117 ^{a3}	^{a3}	^{a3}
Management ^{a3}	Between pet garden ^{a3}	5.152 ^{a3}	1 ^{a3}	5.152 ^{a3}	20.862 ^{a3}
	Within pet garden ^{a3}	28.648 ^{a3}	116 ^{a3}	0.247 ^{a3}	^{a3}
	Sum ^{a3}	33.801 ^{a3}	117 ^{a3}	^{a3}	^{a3}
Overall ^{a3}	Between pet garden ^{a3}	95.533 ^{a3}	1 ^{a3}	95.533 ^{a3}	88.479 ^{a3}
	Within pet garden ^{a3}	125.247 ^{a3}	116 ^{a3}	1.080 ^{a3}	^{a3}
	Sum ^{a3}	220.780 ^{a3}	117 ^{a3}	^{a3}	^{a3}

Results:

- 1st- **Hong Kong pet gardens could benefit citizens and pets** certainly, and the contentment of pet-owners towards Wan Po Road Pet Garden was better than the other.
 - 2nd- **human benefit was associated with pet benefit**; human can obtain benefit from pet garden planning, but would be reduced in substandard planning. **Age and income** were not discovered to be significantly correlated with contentment level.
 - 3rd- no matter in benefits received or the functionality of pet garden, **there was great disparity between two study sites**, which expose the inconsistent planning across districts and demonstrate the importance of standard guidelines.
- Ideal: large and safe space; high accessibility; adequate facility.**

two-tailed
95%

<0.001
significantly
different

>0.001
moderately
different