

Institut Teknologi Sumatera















INTRODUCTION

Background



Sustainable housing is a critical issue due to environmental degradation and climate change.



Understanding communities' perspectives and motivations is key for improving connections and involvement



Success of sustainability programs depends on local governance, planning, and citizen engagement.



Further investigations are needed into urban communities' perceptions of sustainable housing in vulnerable and congested cities

Literature review

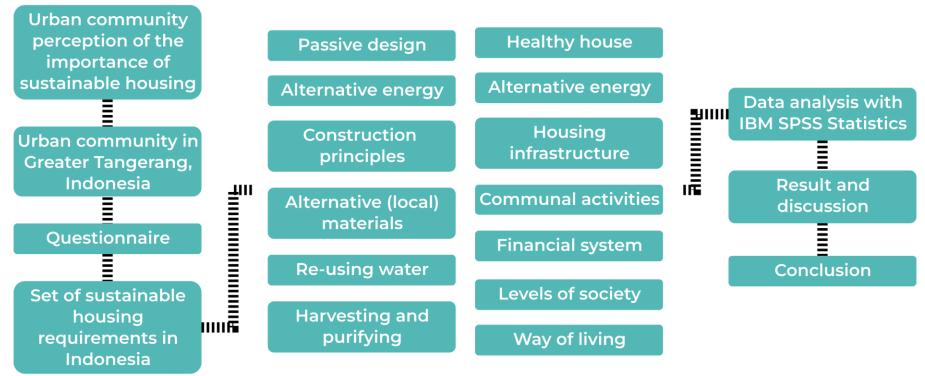
- Sustainable housing, defined broadly as planning for human settlements and urbanization to avoid adverse environmental effects while maximizing social, economic, and environmental benefits, can be applied across diverse contexts [1]
- In Indonesia, sustainable housing is crucial for addressing the challenges of rapid urbanization and ensuring quality housing amidst population growth [2]
- Greater Tangerang is an area that is vulnerable and there is a strong urgency for further research regarding the perception of the urban community regarding the importance of sustainable housing [3]





This research uses a quantitative approach with a descriptive survey method using a questionnaire and IBM SPSS Statistics software as analysis tools. The indicators used use a set of sustainable housing requirements in Indonesia.

Research framework







METHOD

Sampling

Determining the minimum number of samples uses the Slovin formula method [4]:

$$n = \frac{N}{1 + Ne^2}$$

n = sample size

N = population size

e = margin of error

- · Population of Tangerang Regency: 3.477.495 [5]
- Population of Tangerang City: 1.930.556 [6]
- Population of South Tangerang City: 1.354.350 [7]

Total population of Greater Tangerang: 6.762.401

The estimated minimum number of samples required with a 5% error rate for a population of 6,762,401 is approximately 400 samples.

Indicators

Based on an examination of existing conditions, the following is a compilation of sustainable housing prerequisites adapted to the Indonesian context [2]

Aspect of Sustainability	Set of requirements for Indonesian Sustainable Housing	Aplication questions
	Passive design	Application of the use of natural light
Energy	rassive design	Application of a cross ventilation system
Lifeigy	Alternative energy	Applications for using solar panels
	Aiternative energy	Applications for using microhydro energy
	Construction principles	Application of material type selection
Material		Application of material use strategies
Material	Alternative (local)	Application of local material selection
	materials	Application of utilization of nearby resources
	Re-using water	Application of waste water separation systems
Water		Application of waste water treatment systems
water	Harvesting and purifying	Application of a rainwater harvesting system
		Application of a waste water filtration system
Indoor	Haalthy haysa	Application of good spatial planning
environment	Healthy house	Application of a healthy ventilation system
	Housing infrastructure	Application of good transportation networks
Surrounding	Housing infrastructure	Application of a centralized waste processing cen
environment	Communal activities	Application of routine community service
	Communal activities	Application of environmental management traini
	Existing settlements	Application of renovations for uninhabitable hou
Economic		Application of housing subsidies for the poor
Economic	Financial system	Application of joint citizen savings
		Application of citizen financial management
	Lavala of anciety	Application of communal spaces
Social-cultural	Levels of society	Application of social inclusive housing
Social-cultural	Morr of living	Application of traditional architecture
	Way of living	application of cultural expression space

RESULT AND DISCUSSION

Respondents characteristics

%		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Teenager (12-18)	75	18.8	18.8	18.8
	Young adult (19-39)	296	74.0	74.0	92.8
	Adult (40-59	29	7.3	7.3	100.0
	Total	400	100.0	100.0	
	Characteristic	s of respond	ents acco	rding to the ed	lucation
%		Frequency	Frequency Percent Valid Percer		Cumulative Percent
Valid	Junior High School	3	0.8	0.8	0.0
	Senior High School	141	35.3	35.3	36.0
	College	254	63.5	63.5	99.5
	No School	2	0.5	0.5	100.0
	Total	400	100.0	100.0	
%	Characteristics	of responde	ents accor	ding to the oc	Cupation Cumulative Percent
/alid	Student	291	72.8	72.8	
/alid	Student Private employees	291 69	72.8 17.3	72.8 17.3	72.8 90.0
/alid		201		72.0	72.8
/alid	Private employees	69	17.3	17.3	72.8 90.0 91.3
/alid	Private employees Government employees	69	17.3	17.3	72.8 90.0 91.3 94.0
/alid	Private employees Government employees Entrepreneur	69 5 11	17.3 1.3 2.8	17.3 1.3 2.8	72.8 90.0
/alid	Private employees Government employees Entrepreneur Freelancer	69 5 11 8	17.3 1.3 2.8 2.0	17.3 1.3 2.8 2.0	72.8 90.0 91.3 94.0 96.0
/alid	Private employees Government employees Entrepreneur Freelancer Housewife	69 5 11 8	17.3 1.3 2.8 2.0 3.0	17.3 1.3 2.8 2.0 3.0	72.8 90.0 91.3 94.0 96.0 99.0
/alid	Private employees Government employees Entrepreneur Freelancer Housewife Unemployement	69 5 11 8 12	17.3 1.3 2.8 2.0 3.0 0.8	17.3 1.3 2.8 2.0 3.0 0.8	72.8 90.0 91.3 94.0 96.0 99.0
/alid	Private employees Government employees Entrepreneur Freelancer Housewife Unemployement Retired Total	69 5 11 8 12 3 1 400	17.3 1.3 2.8 2.0 3.0 0.8 0.3 100.0	17.3 1.3 2.8 2.0 3.0 0.8 0.3	72.8 90.0 91.3 94.0 96.0 99.0 99.8
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Knowledge level

		Crosstab							Crosstab			_
			Low	owledge level Medium	High					Perception of in (Cas	portance level e 1)	1
haracteristics of	Tourness (12.48)	Court	Low	Medium	High	Total				Moderate	Care	1
spondents according to e age	Total ages (TE-10)	% within Characteristics of	20		- "	7.0	Characteristics of respondents according to	Teenager (12-18)	Count 'S within Characteristics of	P	65	Ξ
e age		respondents according to	26.7%	52.0%	21.3%	100.0%	trespondents according to the age			9.3%		Г
		the age							the age	9.3%	90.7%	1
	Young adult (19-39)	Count	61	143	92	296		Young adult (19-39)	Court	12	284	₽
		% within Characteristics of						roang accenting conj	% within Characteristics of	- 14	201	+
		respondents according to	20.6%	48.3%	31.1%	100.0%			respondents according to	4.1%	95.9%	ı.
		the age							the age			1
	Adult (40-59	Count	7	15	7	29		Adult (40-59	Court	,	28	,—
		% within Characteristics of							% within Characteristics of			т
		respondents according to the age	24.1%	91.7%	24.1%	100.0%			respondents according to the age	3.4%	96.6%	
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otal		Count	88	197	115	400	Total		Count	20	300	4
		% within Characteristics of respondents according to							% within Characteristics of respondents according to	5.0%	95.0%	
		the age	22.0%	49.3%	28.8%	100.0%			the age	5.0%	96.0%	1
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		Crosstab							Crosstab			_
			Ki	rowledge level		$\overline{}$				Perception of in	portance level	т
			Low	Medium	High	Total						1
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e eoucason		respondents according to the education	66.7%	33.3%	0.0%	100.0%	the education		respondents according to	0.0%	100.0%	Ш
									respondents according to the education	0.0%	100.0%	1
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	I	% within Characteristics of					1		% within Characteristics of	,"	130	+
	I	respondents according to the education	27.7%	46.1%	26.2%	100.0%	1	1	respondents according to	7.8%	92.2%	4
						$\overline{}$	1		the education			1
	College	Court Scatter Characteristics of	47	129	78	254	1	College	Count	9	245	T
	I	% within Characteristics of respondents according to					1	I	% within Characteristics of			Т
	I	respondents according to the education	18.5%	50.8%	30.7%	100.0%	1	I	respondents according to the education	3.5%	96.5%	1
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	ne ochost	S within Characteristics of		- 2		- 2	1	No ochoo!	Count % within Characteristics of		- 2	1
	I	respondents according to				l	1	1	respondents according to	0.0%	100.0%	Т
	I	the education	0.0%	100.0%	0.0%	100.0%	1	I	the education	0.0%	100.0%	1
vial .		Court	60	197	115	400	Total		Count	20	380	4
-		W. within Characteristics of	- 60	197	,15	400	1.		% within Characteristics of			t
			22.0%	49.3%	28.8%	100.0%			respondents according to the education	5.0%	95.0%	d.
		the education	22.0%	40.5%	20.0%	100.014			the education			Ш
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		the occupation	22.0%	49.8%	28.2%	100.0%	the employment		respondents according to	4.8%	95.2N	4
	Private employees					$\overline{}$			Eve employment			1
	Private employees	% within Characteristics of	15	28	26	60		Private employees	Court	- 8	- 66	6
		respondents according to	21.7%	40.6%	37.7%	100.0%			% within Characteristics of			т
		the occupation	21.7%	40.6%	37.7%	100.0%			respondents according to the employment	4.3%	95.7%	4
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			0.0%	60.0%	40.0%	100.0%				0.0%	100.0%	١,
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		respondents according to the occupation	9.1%	81.8%	9.1%	100.0%			respondents according to the employment	18.2%	81.8%	4
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	Freelancer	Court	3	- 3	- 2	-		Freelancer	Count			ð
		% within Characteristics of							% within Characteristics of respondents according to			Т
		respondents according to	37.5%	37.5%	25.0%	100.0%			the employment	0.0%	100.0%	4
		the occupation					1	Housewife	Court	_		1
	Housewife	Court	3	7	- 2	12		PLUGENTS	% within Characteristics of	_	- 11	+
	I	% within Characteristics of					1	I	respondents according to	8.3%	91.7%	J.
	I	respondents according to the occupation	25.0%	58.3%	16.7%	100.0%	1	I	the employment	1.5%	91.7%	1
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	Unemployement.	Court	2	1	- 0	3	1	1	% within Characteristics of			+
	I	% within Characteristics of					1	I	respondents according to the employment	0.0%	100.0%	4
	I	respondents according to the occupation	66.7%	33.3%	0.0%	100.0%	1					1
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		Court	0	1	0	,	1	I	% within Characteristics of respondents according to			Ţ
					0.0%	100.0%	1	I	respondents according to the employment	0.0%	100.0%	1
		% within Characteristics of respondents according to	4			100.0%	Total		Court	20	360	1
		% within Characteristics of respondents according to the occupation	0.0%	100.0%	0.0%		1		% within Characteristics of	20	360	1
-		respondents according to the occupation			0.0%	400	1				95.0%	d.
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Perception level (1) Perception level (2)

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 | | Perception of in
(Car | riportanos level
se 2) | | |

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 | | Moderate | (Case 2)
Moderate Care | | |
| Characteristics of | Teenager (12-18)

 | Court | | 67 | | |
| respondents according to
the age |

 | % within Characteristics of
respondents according to
the age | 10.7% | 09.3% | 100 | |
| | Young adult (19-39)

 | Count
% within Characteristics of | 25 | 271 | | |
| |

 | respondents according to
the age | 8.4% | 91.6% | 100 | |
| | A&# (40-99</td><td>Count
% within Characteristics of
respondents according to</td><td>17.2%</td><td>24
82.8%</td><td>100</td></tr><tr><td>(ca)</td><td></td><td>the age</td><td>17.2%</td><td>82.8%</td><td>100</td></tr><tr><td></td><td></td><td>% within Characteristics of
respondents according to
the age</td><td>9.5%</td><td>90.5%</td><td>100</td></tr><tr><td></td><td></td><td>Crosstab</td><td></td><td></td><td></td></tr><tr><td colspan=6>Crosstab Perception of importance level</td></tr><tr><td></td><td colspan=4></td><td></td></tr><tr><td>S
Characteristics of</td><td>Dunky High School</td><td></td><td>(Car
Moderate</td><td>(Care</td><td>Total</td></tr><tr><td>respondents according to</td><td>Junior High School</td><td>Count
% within Characteristics of</td><td>0</td><td>3</td><td></td></tr><tr><td>the education</td><td></td><td>respondents according to
the education</td><td>0.0%</td><td>100.0%</td><td>100</td></tr><tr><td></td><td>Senior High School</td><td>Count
% within Characteristics of</td><td>20</td><td>121</td><td></td></tr><tr><td></td><td></td><td>S within Characteristics of
respondents according to
the education</td><td>14.2%</td><td>85.8%</td><td>100</td></tr><tr><td></td><td>College</td><td>Count
's within Characteristics of</td><td>17</td><td>237</td><td></td></tr><tr><td></td><td></td><td>% within Characteristics of
respondents according to
the education</td><td>6.7%</td><td>93.3%</td><td>100</td></tr><tr><td></td><td>No School</td><td>Count
'5 within Characteristics of</td><td>,</td><td>- 1</td><td></td></tr><tr><td></td><td></td><td>respondents according to
the education</td><td>50.0%</td><td>90.0%</td><td>100</td></tr><tr><td>Total</td><td></td><td>Count
5. within Characteristics of</td><td>38</td><td>362</td><td></td></tr><tr><td></td><td></td><td>respondents according to
the education</td><td>9.5%</td><td>90.5%</td><td>100</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>Crosstab</td><td></td><td>reportance level</td><td>_</td></tr><tr><td></td><td></td><td></td><td>Perception of in
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Knowledge level

- 22.0% low knowledge
- 49.3% medium knowledge
- 28.8% high knowledge

The highest percentage was obtained by medium knowledge [8]

Perception level (1)

- 0.0% ignorant
- 5.0% moderate
- 95.0% care

Perception level (2)

- 0.0% ignorant
- 9.5% moderate
- 90.5% care

The educated group that dominates data collection already has good perceptions and cares about environmental problems [9]





Institut Teknologi Sumatera

Valuation

Item Statistics								
	Mean	Std. Deviation	N					
Definition of sustainable housing	3.51	1,204	400					
Benefits of sustainable housing	3.50	1.222	400					
Goals of sustainable housing	3.50		400					
Passive design (Application of the use of natural light)	5.29	0.788	400					
Alternative energy (Applications for using solar panels)	4.41	1.009	400					
Construction principles for (Application of material type selection)	5.17	0.812	400					
Alternative (local) materials (Application of local material selection)	4.39	0.990	400					
Re-using water (Application of waste water separation systems)	4.84	0.990	400					
Harvesting and purifying (Application of a rainwater harvesting system)	4.27	1.079	400					
Healthy house (Application of good spatial planning)	5.19	0.834	400					
Housing infrastructure (Application of good transportation networks)	5.34	0.835	400					
Communal activities (Application of routine community service)	5.20	0.897	400					
Existing settlements (Application of renovations for uninhabitable houses)	4.83	0.901	400					
Financial system (Application of joint citizen savings)	4.73	0.952	400					
Levels of society (Application of communal spaces)	5.04	0.896	400					
Way of living (Application of traditional architecture)	4.44	1.022	400					
Passive design (Application of a cross ventilation system)	4.99	0.845	400					
Alternative energy (Applications for using microhydro energy)	4.42	0.939	400					
Construction principles (Application of material use strategies)	4.81	0.979	400					
Alternative (local) materials (Application of utilization of nearby resources)	4.16	1.064	400					
Re-using water (Application of waste water treatment systems)	4.77	1.015	400					
Harvesting and purifying (Application of a waste water filtration system)	4.36	1.009	400					
Healthy house (Application of a healthy ventilation system)	5.41	0.723	400					
Housing infrastructure (Application of a centralized waste processing center)	5.24	0.829	400					
Communal activities (Application of environmental management training)	4.99	0.857	400					
Existing settlements (Application of housing subsidies for the poor)	5.04	0.868	400					
Financial system (Application of citizen financial management)	4.70	0.952	400					
Levels of society (Application of social inclusive housing)	4.21	1.098	400					
Way of living (Application of cultural expression space)	4.71	0.967	400					

RESULT AND DISCUSSION

- Knowledge value
- Top 3 value
- Bottom 3 value

The impact on application questions that occupy the top 3 occurs directly while it occurs indirectly in the bottom 3

This phenomenon is part of a psychological concept known as "temporal construal." According to this concept, people tend to process information about time differently depending on how close or far an event is from the current time. In general, people tend to pay more attention to and respond to impacts felt directly than those felt indirectly or in the future. [10]



CONCLUSION

- The basic knowledge of urban communities in Greater Tangerang about sustainable housing is at a medium level. This valuation is lower than their perception of the implementation of sustainable housing indicators. There is still a need to expand information and education regarding sustainable housing development so that urban communities in Greater Tangerang can better implement sustainable housing on a complete awareness basis.
- By pairing two examples of the application of sustainable housing indicators, both still show a percentage above 90% where the urban community, which is dominated by educated groups in Greater Tangerang, already has a perception of interests that care about sustainable housing. Based on these opportunities, it is necessary to carry out a massive movement involving all stakeholders in expanding the application of the sustainable housing concept in Greater Tangerang.
- There is a need for deeper education and outreach regarding the concept of sustainable housing to urban communities in Greater Tangerang. In order to improve the views, mindset and understanding of urban communities regarding the implementation of sustainability which also important to do, but the impact cannot be felt directly.



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