



SUSTAINABLE HOME BASED ENTERPRISE IN KAMPUNG SATE, PONOROGO

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INTRODUCTION

Background

Dwelling is the smallest part of settlement which has function as the interaction space among the people



Commonly in developing countries, many low and middle-income urban household use their dwellings as workplaces



Kampung Sate, Ponorogo is a productive kampung which was built since 1950s and one of the culinary tourist destination in Ponorogo and has evolved from generation to generation



The conflict is happen regarding the economic activities to social and environment aspect



To conduct their economic activities, Kampung Sate, Ponorogo still use traditional equipments to do so



Sustainable development is a concept to develop better place in the future



sustainable development is closely related to economic growth and how to find a way to advance the economy in the long term, without depleting natural capital



as one of the culinary tourism in Ponorogo, need to be adjusted with the sustainable housing concept so that not only will give the sustainable impact to the environment but also to the productive house itself



Research
Question

what is the sustainable home based enterprise in Kampung Sate, Ponorogo?

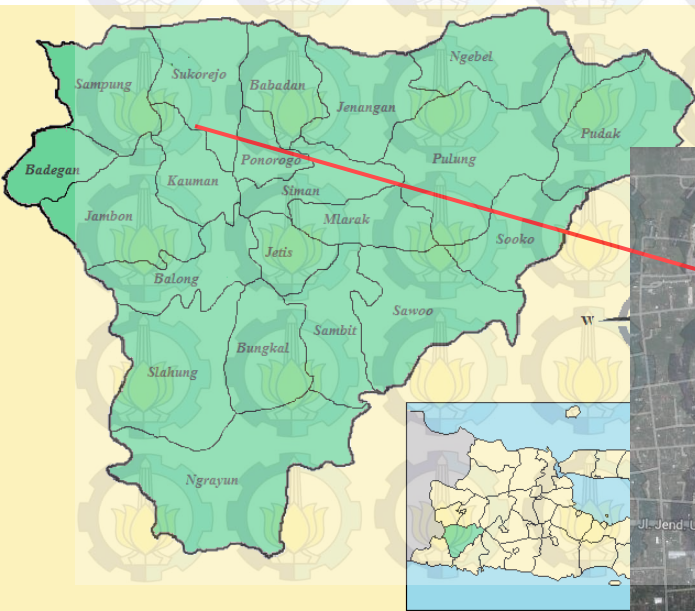
INTRODUCTION

Objectives

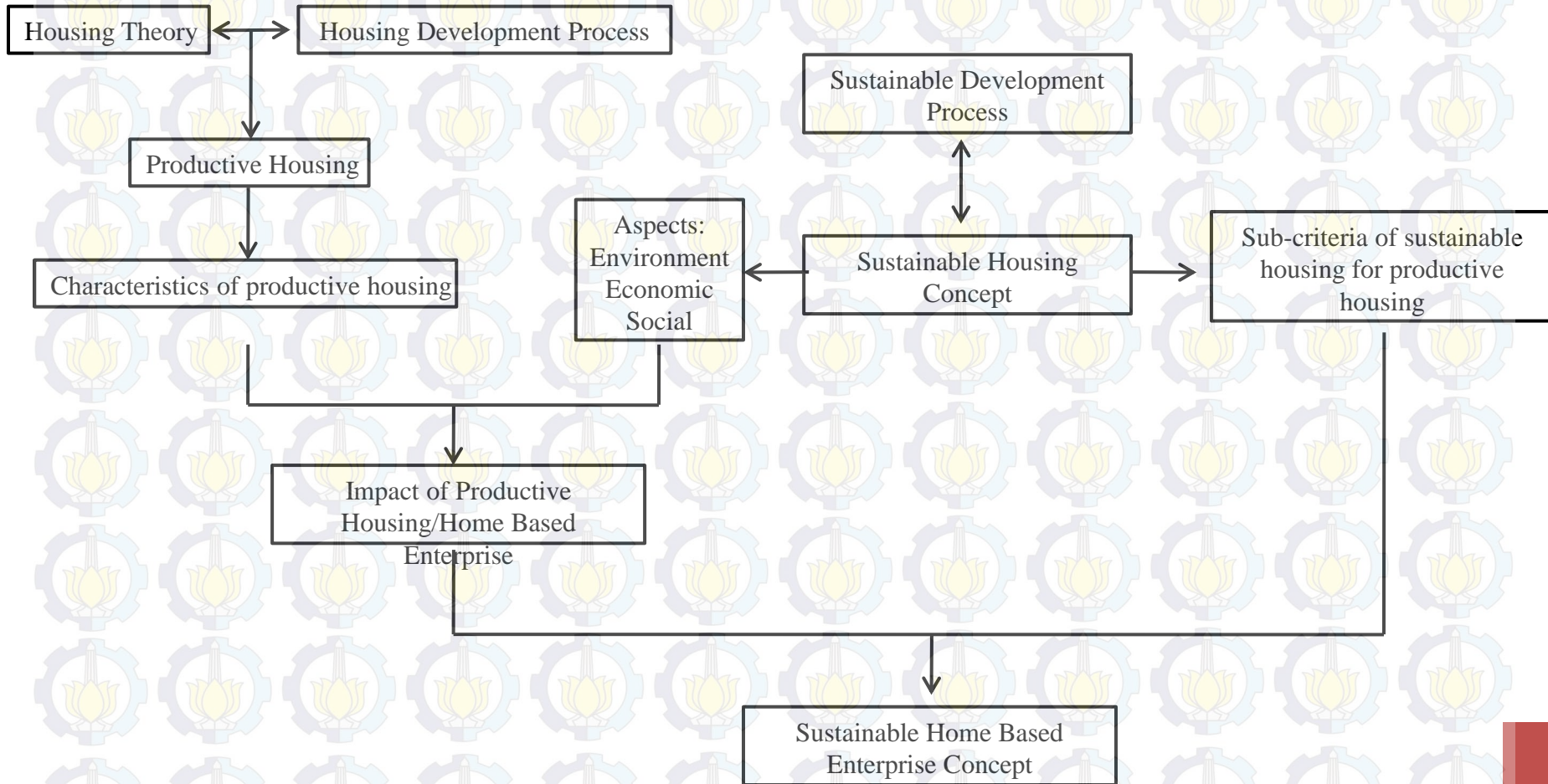
- Analyze the characteristics and impacts of productive housing in Kampung Sate, Ponorogo
- Formulate the criteria to be implemented in sustainable home based enterprise in Kampung Sate Ponorogo
- Determine the sustainable home based enterprise in Kampung Sate, Ponorogo

Location Limitation

Productive housing in Kampung Sate, Lawu Street I, RT 4, RW 5, Nologaten, Ponorogo Regency



SYNTHESIS OF LITERATURE REVIEW



CHARACTERISTICS AND IMPACT OF PRODUCTIVE HOUSING IN KAMPUNG SATE, PONOROGO

Space function

- the unique characteristic of this kampung is production room/baking activities room accessible for the guest/tourist. So that's why the production room has ease of access to front yard or side yard of the house

Use of Work Tools

- the satay maker pay less attention to the hygiene and the cleanness of their production room or kitchen. Indeed the combustion/baking process produces a lot of smoke and dust



Characteristic



Social Culture

- All satay makers are still relatives
- Many neighbors around this kampung work as an employee in productive house
- Lack of understanding and knowledge in how to manage the good enterprise are the biggest problem related to economic aspect in this kampung

Physical Aspect

- People prefer to use groundwater rather than local water company. But, the problem is the groundwater is next to the septic tank
- Production disposal also directly throwing into this channel and sometimes it smells stinky. When the rainy falling, the rain water can't flow in the drainage channels so that run over to the road.

Environment

- the satay maker still have extra money from monthly income for saving. But, the fact is the physical appearances of their houses doesn't show that they are success in economic
- Lack of understanding in managing the income

Involvement Family Member

- 72 people are involved in this enterprise
- The children don't continue their study. They prefer to involved and gain the money rather than having higher education

Environment

- The exhaust system is only from the traditional door, ceiling and ventilation



CHARACTERISTICS AND IMPACT OF PRODUCTIVE HOUSING IN KAMPUNG SATE, PONOROGO

Impact of Productive Housing

Stakeholder
Analysis

Aspect
identification

Analyzing data

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- The enterprise activities obviously produce waste disposal.
- Contaminated water quality to be down and not even meet the standard of quality that can support the survival of living beings.
- Air pollution can occur if the amount or concentration of pollutants (contaminants) in air has exceeded environmental quality standards
- The smog also causes respiratory disease to inhabitant although not in worse condition



- The people surround this kampung employed by satay maker as stick maker, chef assistant and also help in satay process. This economic activity can generate new jobs in this area
- Contribute to municipal gross income → trade and service

- Physical aspect is related to the public service and also infrastructure in Kampung Sate.
- When holiday is coming, the traffic generation can't be ignored in this kampung
- Production disposal also directly throwing into this channel and sometimes it smells stinky. When the rainy falling, the rain water can't flow in the drainage channels so that run

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CRITERIA FOR SUSTAINABLE HOME BASED ENTERPRISE IN KAMPUNG SATE

Delphy Analysis

| Sub-Criteria | Operational Definition |
|---|---|
| Energy efficiency | The use of non hazardous building materials |
| Healthy house building | adequate living space, have good ceiling and ventilation condition |
| Harmony with the climate | Natural lighting, safe from the heat and dust |
| Strong; solid | Construction of brick buildings |
| Safety from damage waste | Noting the impact of pollution caused by doing good waste management |
| Have enough green open space | Increase the greening than as a provider of clean air as well as rain water catchment |
| Economic productivity | Having a healthy environment that allows residents to have high productivity to improve the quality of life |
| Use of technology | Using technology to allow occupants to generate additional revenue from residential environment |
| Social culture | Has the nature of kinship and solidarity |
| Housing infrastructure | Quality How to improve and maintains the infrastructure |
| Facilitate self-supportive financial system | How the inhabitants support their economic condition |

Literature review

| | |
|--------------------|--|
| Clean Water | Clean water is an absolute requirement in a housing. Especially in production, clean water is also a support material |
| Good sanitation | Sanitation associated with waste disposal facilities. In industrial activities, where sanitation is required in the waste stream |
| Good institutional | Support from relevant institutions will encourage the creation of favorable economic climate in industrial activity |

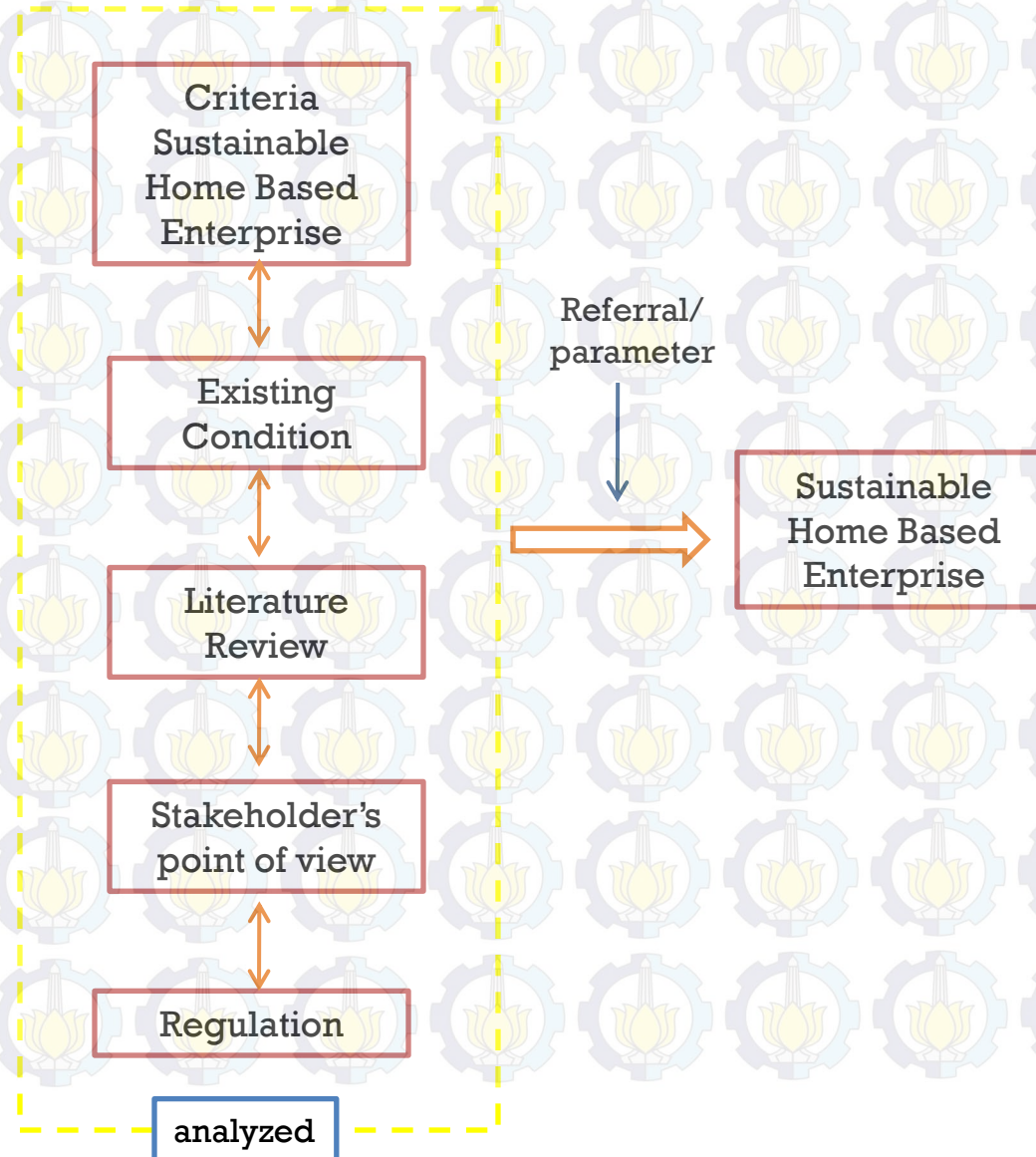
Additional sub-criteria in iteration phase 1

CRITERIA FOR SUSTAINABLE HOME BASED ENTERPRISE IN KAMPUNG SATE

| Sub-Criteria | Criteria | Analysis |
|---|--|---|
| Energy efficiency | Physical housing | A housing is related to the materials used, how to manage the building, the technology used and the condition in it. |
| Healthy house building | | |
| Strong; solid | | |
| Have enough green open space | Harmony with the nature | Environmentally friendly home design is a form of support for environmental friendliness. It should be harmony with the nature, because the exploration of energy use can threaten the lives of future generations. |
| Harmony with the climate | | |
| Safety from damage waste | Supporting facilities and infrastructure | A housing and settlement can't be apart from the supporting facilities and infrastructure. These facilities and infrastructure will support every activities in this area |
| Clean water | | |
| Housing infrastructure | | |
| Good sanitation | | |
| Economic productivity | Financial system | Financial system is related to how to manage and gain economic welfare by using the local wisdom or housing environment itself |
| Facilitate self-supportive financial system | | |
| Use of technology | | |
| Social culture | Social culture | Social culture related to how to improve the quality of life and neighborhood interaction |
| Good institutional | Institutional | Good institutional will support the better economic activities |

SUSTAINABLE HOME BASED ENTERPRISE IN KAMPUNG SATE, PONOROGO

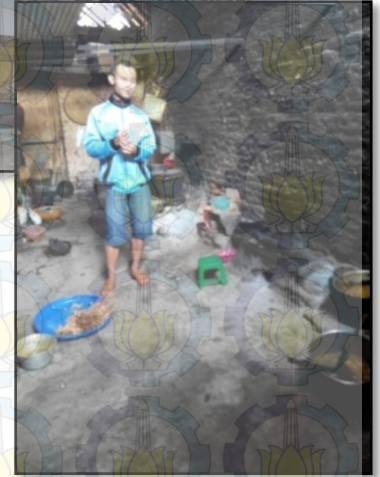
Triangulation Analysis Process



SUSTAINABLE HOME BASED ENTERPRISE IN KAMPUNG SATE, PONOROGO

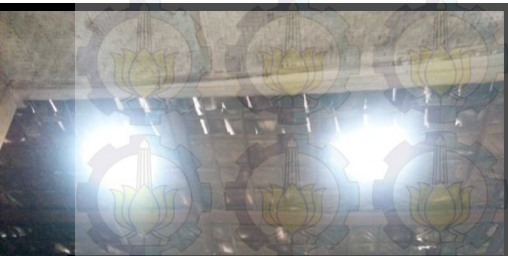
PHYSICAL HOUSING

- Using local materials from surrounding Kampung Sate that are not hazardous and environmentally friendly as an effort to minimize the negative impact of building materials to inhabitants in Kampung Sate
- Optimizing the use of ventilation inside the house in Kampung Sate by increasing the number of vents and openings in accordance with the existing provisions
- Using sturdy construction so that occupants in Kampung Sate can be protected from flood or disaster
- Improving the appearances of building by home improvement periodically as effort to attract the tourist come to Kampung Sate.



HARMONY WITH CLIMATE

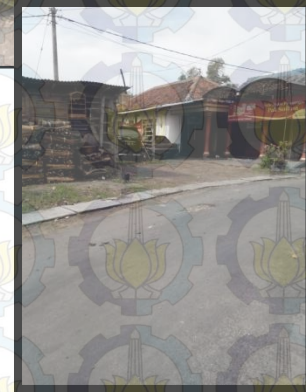
- Optimizing the building which harmony with the climate by augmented the number of vents and openings, especially in production room to minimize the dirty air from combustion
- Using the front yard or side of the home based enterprise as green open spaces



SUSTAINABLE HOME BASED ENTERPRISE IN KAMPUNG SATE, PONOROGO

SUPPORTING FACILITIES- INFRASTRUCTURE

- Optimizing the number of infrastructure and facilities by adjusting the basic requirements of urban settlement in Kampung Sate in order to optimize the tourist destination
- Optimizing drainage and sanitation by cleaning channels regularly in Kampung Sate in order to minimize flooding
- Dilute waste production by increasing the water content of the waste disposed in order to flow the waste disposal and minimize the stinky in Kampung Sate
- Dredging and repairing the drainage and sanitation installation in order to reduce the impact of flooding in Kampung Sate
- Improving the quality of groundwater by draining the septic tank regularly to reduce the leakage of water infiltration into wells
- Optimized the road as the main access in Kampung Sate by preparing off street parking so that the road only for movement of transportation



FINANCIAL SYSTEM

- Optimizing the main financial system for people in conducting home based enterprise by coaching and giving the managerial knowledge in order to maintain and increase the income in Kampung Sate
- Improving the knowledge in how to make creative industries and manage the employers in order to maintain the sustainability of Kampung Sate



SUSTAINABLE HOME BASED ENTERPRISE IN KAMPUNG SATE, PONOROGO

SOCIAL CULTURE

- Improve the ability of the community in Kampung Sate through mentoring and providing skills training and also improve managerial knowledge through education about sustainable economy
- Involving local communities outside the Kampung Sate in enterprise activities to improve economic equality
- Improving housing condition in Kampung Sate by keeping the house and its environment clean especially in production room

INSTITUTIONAL

- Provide mentoring and counseling on a regular basis regarding sustainable environmental management to satay maker
- Prepare a cadre of institutions who is able to provide guidance to home based enterprise actors regarding the economic sustainability in Kampung Sate
- Optimize the institution's role in opening opportunities for capital to ease business in Kampung Sate so that can increase the employment

CONCLUSION AND RECOMMENDATION

CONCLUSION

- This research determines the characteristics of productive housing in Kampung Sate related to 6 aspects. Those are space functions, use of work tools, involvement of family members, environment, physical aspects, social-culture and economic aspects.
- To conduct their economic activities, Kampung Sate gives both positive and negative impact toward environment, physical and social economic aspects. The negative impact have to be solved and the positive impact should be maintain so that this kampung not only good in economic condition but also in other aspects condition.
- The sustainable home based enterprise concepts are the way to solve the negative impact of economic activities in Kampung Sate. The concepts are related to criteria for sustainable home based enterprise such as physical housing, harmony with the climate, financial system, supporting facilities and infrastructure, social condition and good institutional.
- The sustainable home based enterprise for Kampung Sate is the concepts that have to be implemented in order to reach the sustainability, both in economic or environment-socio culture

CONCLUSION AND RECOMMENDATION

RECOMMENDATION

The recommendations that can be conclude from this research as follow:

- To conduct the economic activities in Kampung Sate, inhabitants have to consider the impact to environment, social and economic. So the people not only gain economic prosperity but also achieved environmental health and social comfort as well.
- In creating a sustainable home-based enterprise in Kampung Sate, the concepts that have been formulated should be applied so they can resolve the negative impacts of economic activity and to optimize the positive impact. It is intended to achieve the economic sustainability in Kampung Sate.
- In creating a sustainable built environment requires the cooperation and participation among all elements of the government, the economic activities actors and local communities. So as the impact of sustainability can be enjoyed by all elements.