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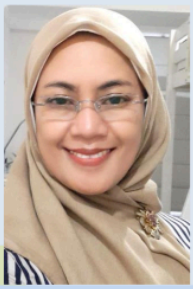

Topic: The Dynamic System Based on The Disaster Resilient Village (Destana) for Flood Resilience and Environmental Quality in The Coastal

presented in

The 10th International Conference on Community Development (ICCD-10) 2024

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Abstract

Floods in big cities start from the failure of handling at the rural scale. The involvement of The Deka-helic is needed, especially Disaster Resilient Villages (DESTANA). The most important thing is to develop The Dynamic System model for flood resilience and environmental quality in real time. System Dynamics is very appropriate for creating policy direction solutions. The validation process of previous research results from primary data, surveys and interviews. Results of the Dynamic System Model; controlled community assistance, reduction of built-up land by 0.15. Drainage regulations 0.40, drainage infrastructure 0.28, drainage performance increased by 0.42 resulting in a decrease in built-up land, the performance of Disaster Resilient Villages (DESTANA) increased by 0.45, and community participation increased by 0.3. Reducing flooding by 0.58, and improving environmental quality by 0.35. Flood resilience and environmental quality can be said to have been realized in the 4th year.

Keywords: System Dynamics, Flood, Environmental Quality, Disaster Resilient Village

Introduction

Image of East Binta Flood Height Location, 2023

Image of Flood Hazard Map Results for East Bintan, 2023

Results and Discussion

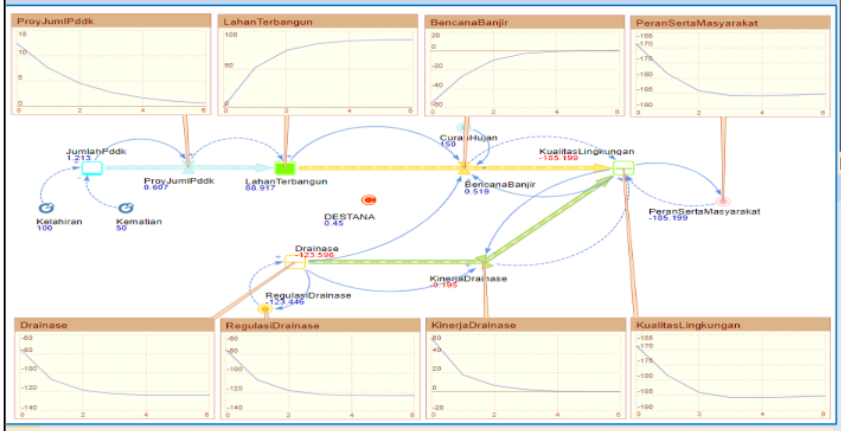

Image of Model Results before DESTANA as intervention

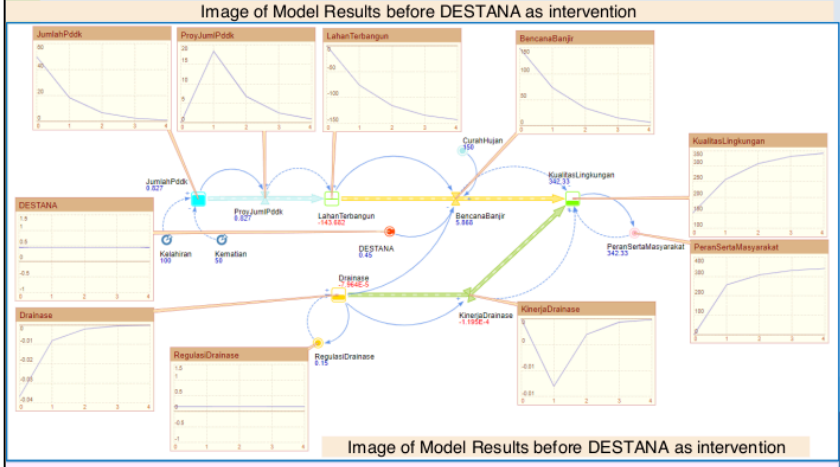

Image of Model Results before DESTANA as intervention

Methods and Materials

Image of Research Procedures

Conclusions

Population stabilization, built-up land management for water catchment areas. Disaster Resilient Village (DESTANA) is the main intervention in flood reduction. Drainage regulation and community participation through direct intervention to improve environmental quality have just entered their 4th year, mandatory regulation refinement in the 5th year to ensure sustainability. This model aims to realize service policies for environmental quality resilience such as Noveltis.

Referensi

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2. The pattern of Water Resources Resilience in Coastal Areas Centered on Balance in Society 5.0 ISBN : 9786236658802 (**Nalarsih, 2021**).
3. GIS As a Tool in Hydrometeorological Disaster Mitigation Policy in Society 5.0 ISBN : 9786238091188 (**Nalarsih, 2022**)

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