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### *Tree Planting To Encourage Ecotourism Concept on Penyengat Island*

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**Abstract:** Penyengat Island is an island that has historical and religious tourism destinations. Penyengat Island is an island surrounded by sea and has quite a large population. Ecotourism is part of tourist attractions that utilize the potential of local natural resources, and are developed with environmentally friendly innovation and technology. This activity aims to provide benefits that can be felt directly and indirectly. The stages carried out in tree planting activities consist of socializing the need for a greening movement, preparing tree planting locations and carrying out mangrove seedling planting activities. With tree planting activities, many benefits can be obtained, such as a greener environment, keeping the air clean, protecting the coast from erosion and strong wave attacks, helping to reduce the risk of flooding in coastal areas and planting mangrove trees can prevent abrasion.

## INTRODUCTION

One of the efforts of regional economic development is to utilize local resources optimally. Utilization of local resources can be done by developing tourism with the concept of ecotourism. The concept of ecotourism includes conservation efforts, local economic empowerment and encouraging higher awareness of cultural differences. This is what underlies the difference between the concept of ecotourism and the conventional tourism concept that already exists. (Widiyanto et al., 2019)

Penyengat Island is one of the islands located in Riau Islands Province. The island has an area of 2 square km with a distance of 2 km from downtown Tanjungpinang which can be reached using a pompong boat with a distance of about 15 minutes. Penyengat Island is an island that holds a lot of interesting history. According to local stories, penyengat island comes from the story of a sailor who was stung by a bee while taking water on this island so it was called penyengat island. On Penyengat Island there are various historical tourism destinations and religious tourism that can be visited. A mosque that is the pride of local residents can be used for worship and for religious tourism.

Ecotourism is part of a tourist attraction that utilizes the potential of local natural resources, and is developed with innovation and environmentally friendly technology. The aim is to expand knowledge, recreational experiences, and diverse tours that suit the sustainability

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of the surrounding environment. <sup>1</sup> Through the development of ecotourism that highlights local culture in using land, we can increase the income of local communities while preserving land resources, as well as maintaining local culture and technology (indigenous knowledge) which are generally in accordance with natural environmental conditions (Nurwiyoto et al., 2023).

Penyengat Island is an island surrounded by the ocean and has quite a lot of inhabitants. Therefore, the effort that must be made is to move greening or planting trees. As for planted plants such as mangroves. Mangroves are one of the resources in coastal areas that have potential and can be utilized directly or indirectly.

Mangroves have an important role in supporting ecosystems, physical environments and biota environments. Physically, mangroves also act as wave breaks, windbreaks, wind control, sediment traps, and saltwater intrusion barriers, while their role in the biota environment is as a hiding place, a breeding place for various kinds of aquatic biota. In addition, mangroves are also considered as a contributor of nutrients that are useful for the fertility of the surrounding waters. (Shah, 2020).

The action of planting mangrove trees on Penyengat Island is an action taken to reduce and prevent abrasion that might occur. In addition, the action of planting mangrove trees is carried out with the aim of realizing community concern for the surrounding environment.

## **METHOD**

As an island that has the status of an island that has tourism potential. So it actually requires touch and movement to do greening or planting trees simultaneously. This mangrove tree planting activity will be carried out on October 20, 2023 on Penyengat Island. The material used in this activity is mangrove seedlings (*Rhizophora mucronata*).

## **RESULT**

In the activities carried out by the academic community of STIE Pembangunan Tanjungpinang, Universitas Persada Indonesia, Universitas Pembinaan Masyarakat Indonesia, Universitas Sebelas Maret, ITS Khatulistiwa, STISIPOL Raja Haji, and University Technology Malaysia along with the people of Pulau Penyengat in this case, carried out several stages:

### **First Stage: Socialization on the need for a greening movement**

Conducting socialization about the need for a greening movement that discusses the importance of planting trees and the benefits obtained from planting trees.

### **Second Stage: Tree Planting Movement**

The tree planting movement was carried out in the first stage of preparing a tree planting site, where the

tree planting point was focused on the seaside in front of the Penyengat Island traditional hall. After the location and mangrove seedlings are prepared, the second stage is to carry out mangrove seedling planting activities. Tree planting activities were carried out by the academic community from STIE Pembangunan Tanjungpinang, Universitas Persada Indonesia, Universitas Pembinaan Masyarakat Indonesia, Universitas Sebelas Maret, ITS Khatulistiwa, STISIPOL Raja Haji, and University Technology Malaysia.



Figure 1. Mangrove tree planting by STIE Pembangunan Tanjungpinang



Figure 2. Mangrove tree planting by Universiti Teknologi Malaysia



Figure 3. Mangrove tree planting by Universitas Persada Indonesia



Figure 4. Mangrove tree planting by Universitas Pembinaan Masyarakat Indonesia



Figure 5. Mangrove tree planting by the College of Social Sciences dan Ilmu Politik Raja Ali Haji Tanjungpinang



Figure 6. Mangrove tree planting by the Faculty of Economics and Business, Sebelas Maret University



Figure 7. Mangrove tree planting by Winaya Mukti University

With this tree planting activity, there are many benefits obtained such as a greener environment, keeping the air clean because the more trees planted, the more oxygen will be produced. Indeed, the benefits cannot be felt directly, but a few years in the future when the tree has grown big. In addition, planting mangrove trees can protect the coast from erosion and strong wave attacks, mangrove trees can help absorb water and slow the flow of tides, thus helping to reduce the risk of flooding in coastal areas and planting mangrove trees can prevent abrasion

## DISCUSSION

In the activities carried out by the academic community of STIE Pembangunan Tanjungpinang with the academic community from University Technology Malaysia and the

people of Penyengat Island did several things, namely socialization about the need for a greening movement and a tree planting movement. This activity was attended by a group of lecturers and students of STIE Pembangunan Tanjungpinang and Universiti Teknologi Malaysia (UTM) on Friday, October 20, 2023. This activity also involved several other campuses in planting mangrove trees located in front of the Indra Sakti Traditional Hall. With this tree planting activity, there are many benefits obtained such as a greener environment, keeping the air clean because the more trees planted, the more oxygen will be produced.

## **CONCLUSION**

Mangrove tree planting activities on Penyengat Island are activities carried out to keep the surrounding environment greener and the air remains clean because the more trees planted, the more oxygen will be produced. In addition, planting mangrove trees can protect the coast from erosion and strong wave attacks, reduce the risk of flooding in coastal areas and planting mangrove trees can prevent abrasion.

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