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Ecological Impacts and Socio-Legal Infrastructure as an Approach to Environmental Management in Ex-Mining Land Reclamation

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Mining, along with plantations, is one of the main economic backbones of the Indonesian provinces of Kalimantan. The main concern of extractive economics is deforestation and environmental damage that threatens natural sustainability. Most of the previous research focused on the issue of environmental sustainability in the industrial context and regional spatial planning. To fill this void, this study originally aims to analyze how local wisdom is useful in managing ex-mining reclamation practices. This research was conducted in Margahayu, Kutai Kertanegara, East Kalimantan Province. The method used in this research is empirical legal research by adopting a data-based approach. The results show that ex-mining reclamation in Margahayu aims to restore the land use according to its function and is beneficial for agriculture and small-scale plantations. The findings underline that the participation of local communities is very useful in restoring the function of the ex-mining land, due to their interest in rehabilitating spatial planning and ecological supports that are useful for their livelihoods. In this context, this finding requires inclusion of local interest-based participation as an important social infrastructure in reforestation and mine land reclamation in Kalimantan. © 2022 WITPress. All rights reserved.

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environmental management; ex-mining land reclamation; local participation; social infrastructure; spatial planning

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Ecological Impacts and Socio-Legal Infrastructure as an Approach to Environmental Management in Ex-Mining Land Reclamation



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ABSTRACT

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Mining, along with plantations, is one of the main economic backbones of the Indonesian provinces of Kalimantan. The main concern of extractive economics is deforestation and environmental damage that threatens natural sustainability. Most of the previous research focused on the issue of environmental sustainability in the industrial context and regional spatial planning. To fill this void, this study originally aims to analyze how local wisdom is useful in managing ex-mining reclamation practices. This research was conducted in Margahayu, Kutai Kertanegara, East Kalimantan Province. The method used in this research is empirical legal research by adopting a data-based approach. The results show that ex-mining reclamation in Margahayu aims to restore the land use according to its function and is beneficial for agriculture and small-scale plantations. The findings underline that the participation of local communities is very useful in restoring the function of the ex-mining land, due to their interest in rehabilitating spatial planning and ecological supports that are useful for their livelihoods. In this context, this finding requires inclusion of local interest-based participation as an important social infrastructure in reforestation and mine land reclamation in Kalimantan.

1. INTRODUCTION

Indonesia is a country rich in minerals and mining including gold, silver, copper, oil and natural gas, coal, and others. As specified by the Constitution, the mineral extraction and production in Indonesia are controlled by the state [1, 2]. Law No. 4 of 2009 defined mining as part or all of the stages of activities in the context of research, management and exploitation of minerals or coal which include general investigation, exploration, feasibility studies, construction, mining, processing and refining, transportation and sales, as well as ex-mining activities. For some mining-rich provinces in Indonesia, such as those in Kalimantan and Papua, extractive industries have played a very contributing role to their regional economies. For example, one of the largest gold producers in the world, Freeport-McMoran (PTFI) contributes to 0.78 percent of Indonesia's Gross Domestic Product. At the local level, this contribution skyrocketed to 34 percent of Papua's GRDP and 67.7 percent of Mimika Regency's GRDP. This shows that the economic structure of mining-rich areas in Indonesia is extremely dependent on extractive industries.

Another example of this structure is the Province of East Kalimantan. Thanks to mining and plantations, several districts in this region are among the richest districts in Indonesia. In its economic structure, the mining sector accounts for 42.94 percent of the Gross Regional Domestic Product. In the first quarter of 2020, East Kalimantan's GRDP from this sector was IDR 72.4 trillion at current prices, and IDR 64 trillion in the second quarter. From a social perspective, this extractive economy also contributes to environmental damage, social inequality and corrupt practices between local

bureaucrats and businessmen.

Furthermore, the land use and spatial planning posture in East Kalimantan shows that the land use permit covers an area of 13.83 million hectares, which consists of three main sectors, namely forestry with an area of 5,619 million hectares, coal mining covering an area of 5,137 million hectares, and oil palm plantations covering an area of 3,095 million hectares (Table 1).

Although economically the mining sector has been regarded as a source of prosperity and one of the main sources of state income for many years, environmental damage and drastic changes in the socio-economic environment of the communities around mining areas have become serious concerns [3]. Previous studies have examined heavy metal pollution on the farms of communities around the mines, which influence people's perceptions of the benefits of this industry for the local economy in their area [4, 5].

Furthermore, the mining law in Indonesia requires that land reclamation be carried out by corporations to restore land functions [6]. For example, Law No. 3 of 2020 has regulated the obligation of mining corporations to carry out ex-mining reclamation with a success rate of 100 percent, and provide sanctions for permit holders who do not carry out reclamation. Reclamation activities are the final stage of mining activities that can restore land to its original state, even better than the conditions before mining [7]. Reclamation activities include restoration of ex-mining land to improve ecologically disturbed land and preparing ex-mining land whose ecology has been repaired for further use [8]. Furthermore, it is to improve the ex-mining land so that its condition is safe, stable and not easily eroded so that it can be reused. However, the



Personal Value Orientation, Expectation Confirmation and Choice Behavior: A Perspective of Sustainable Higher Vocational Development

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ABSTRACT

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The sustainable development of higher vocational colleges meets the demand for technical skills talents in the market, and is also a great positive factor for the quality improvement of China's manufacturing industry. As the main force in the technical skill talent market, higher vocational college students are also the most important group in need of attention and support in the education system. Based on the real situation of sustainable higher vocational in China, the SEM equation structure model is used to study the relationship among choice behaviors of the students, the economic value orientation, social value orientation, independent choice ability, expectation and perceived value. The results of this research can put forward some enlightenment and suggestions for the development of higher vocational colleges. The empirical research results are of great practical significance and academic value, which can provide theoretical reference and basis for the future strategic decision-making of higher vocational education and government departments.

1. INTRODUCTION

Into the 21st century, with the rapid expansion of higher education, the number of college graduates increases year by year, but in addition to bringing greater employment pressure, it is difficult to completely solve the problem of shortage of supply and demand for a large number of highly skilled personnel from the root [1]. Due to the adjustment of economic structure and the optimization and upgrading of industrial structure, the structure of talent demand in China has also undergone profound changes in the new era, which objectively requires China to accelerate the development of higher vocational education and train high-skilled talents [2]. Higher vocational colleges take the training of high-level technical and skilled personnel as their own responsibility, and the development of vocational education has been highly valued by the state, and various favorable policies for the development of vocational education, including the National Vocational Education Reform Implementation Plan, have been issued successively. The rapid expansion of the scale of higher vocational education has prompted higher vocational colleges to gradually move to the central position and undertake the important task of enrollment expansion [3, 4].

In the past five years, the number of students enrolled in higher vocational colleges has increased by 52.8%, while the number of high school graduates has decreased by 4.3%. Higher vocational colleges are facing not only the pressure of reducing the number of students, but also the pressure of competing for students among the same industry. How to enhance the attractiveness of higher vocational colleges and increase the probability of students choosing higher vocational colleges has become an urgent problem to be solved. Although China has introduced many policies to strengthen higher vocational education, it has not really played the role of higher

vocational education itself, and the vocational education undertaken by higher vocational colleges is far from meeting the current needs of society. As a result, Chinese higher vocational colleges and universities have become the "low-level schools" in the society and have become less attractive to outstanding students and talents, and their development is very slow [3, 5].

As a key element for enterprises to participate in the market competition, the cultivation of technically skilled talents has become the focus of attention of academia and various fields of society, and a stable and high quality of students choosing to attend higher education institutions is the key to promote the sustainable and healthy development of higher education institutions [6, 7]. Therefore, under the dual background of declining student source and continuous expansion of enrollment plan, students' choice behavior towards higher vocational institutions has gradually become the basic problem faced by most of higher vocational institutions. For higher vocational institutions, how to make more and better students choose to study in our university under the background of student source crisis has become a problem that cannot be avoided and urgently solved when higher vocational institutions gain competitive advantages.

2. LITERATURE REVIEW

2.1 Economic value orientation

The core competitiveness of traditional universities lies in knowledge creation, rather than providing students with a large number of available resources. Most teachers are more concerned about knowledge creation than the quality of education. Quality inputs include students, faculty, and school