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| RESEARCH ARTICLE

Increasing Regional Economic Value from Coastal Reclamation Development

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ABSTRACT

This study aims to understand changes in spatial structure and spatial patterns in the coastal area in the Makassar urban system due to land use conversion. This study uses a qualitative approach by collecting data through observation, visual analysis, literature study, interviews, and documentation. The results of the study show that changes in spatial use in the Center Point of Indonesia area have led to the marginalization of local communities. Intensive land conversion has changed the work system of local communities, replacing them with the urban industrial community work system. The orientation of the development of the Center Point of Indonesia area is to create business opportunities for people engaged in the informal sector, tourism, transportation, and other service sectors, as well as create a friendly and modern environmental area. Overall, this beach reclamation has a positive impact on the environment that is sustainable and provides business opportunities and increased income for the community.

KEYWORDS

Beach Reclamation; Development Impact; Sustainability; Socio-Economy

ARTICLE INFORMATION

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1. Introduction

Developing country cities are characterized by very rapid population growth due to large numbers of residents migrating from villages to cities. This causes excessive urbanization as these cities are made centers of growth. In the process, not only produce products for individual needs but also for collective needs [Todaro, 2011; Davey, 2023]. The process is characterized by changes in land use, where space is allocated for settlements, industry, services, and commerce, with a focus on developing centers of economic growth and integration of metropolitan urban systems. [Firman, 2004; Volgmann, 2022]. The development of the emerging economic pole is resulting in social change in the local urban community. This change occurs both in the pattern of social relations and economic relations between communities due to changes in the use of space and the presence of agents of change in the suburbs [Briassoulis, 2020; Fashae, 2022]. Land use in the form of reclamation in Indonesia has been running dynamically in various locations, facing various responses, both rejection and support. The issue of reclamation not only focuses on changes in environmental and ecological conditions but also involves various benefits resulting from these activities [Priasto, 2021; Camila, 2020].

Makassar City, which is the capital of South Sulawesi Province, is also referred to as the gateway to East Indonesia. This caused the city's rapid growth to start in its coastal area, with the vision of becoming a world city. In order to realize this vision, the construction of equipment and support infrastructure has been carried out to accommodate the different activities of the population. Makassar City's population growth is very rapid, reaching 1.3% per year, and it has currently reached around 1.4 million people and increases every year, causing the need for limited land to be increasingly urgent in urban areas. The need for land is increasingly urgent in

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urban areas due to an increase in population, which continues to increase every year. In the last 10 years, Makassar City has experienced major physical development. Development policies are in line with the efforts of policymakers to make Makassar City the largest city in eastern Indonesia and a world city. One of the most striking projects in the coastal reclamation area is the Center Point of Indonesia (CPI) mega project.

The Center Point of Indonesia development project is not only related to the transformation of space use and the formation of activity systems and regional structures but also causes changes in the spatial structure of urban areas in general. The expansion of the city is reflected in the increase in population and economic growth due to the development of various activities in the suburbs. [9]; [10]. The growth of the urban core area occurred through a deployment that focused on urban coastal areas. This causes a change in the use of space. Therefore, the development direction of big cities and metropolitan areas must be managed in an integrated, convenient, and efficient regional system. In addition, development sustainability must also be considered in this process. [Kowalczyk, 2019; Yao, 2022; Mallick, 2023]. Direct observable effects are population growth, urbanization, and unequal land use rights between migrants and local communities, as well as the formation of social structures on the periphery. sea [Barnett, 2014; Marmin, 2022]. Accelerated development in the Center Point region of Indonesia, leading to land-use transitions characterized by increased economic productivity, starting with the construction of large-scale residential, commercial and service centers large, encouraging the creation of regions as creative and cultural hubs that reflect the vitality of various economic and social opportunities and patterns of distribution of flows of goods and services [Inoguchi, 2023; Singh, 2016; Song, 2021]. The increase in development activities and economic productivity leads to differences in benefits between communities, the level of trust between communities, as well as changes in economic and social aspects. Social interaction patterns, social adaptation and social mobility in response to environmental change. [Umanailo, 2019; Ahmad, 2022].

The Center Point of the Indonesian area, which is the object of research, is the coastal area that is determined and developed as a center of economic activity in the Spatial Plan. This is an administrative area adjacent to Makassar City, Takalar Regency, and Gowa Regency. Previously, the Center Point of Indonesia area, which included the Mariso sub-district, was dominated by local communities with the main focus on the fisheries sector. Based on the data obtained, it shows that the population in the Mariso sub-district before the construction of coastal reclamation in 2012 was 56,524 people. Furthermore, after the construction of the reclamation area in the period 2018 until now, there has been an increase of 59,292 people or a growth of 2,768 people. This figure illustrates that for 10 years, the Center Point area of Indonesia has undergone suburbanization due to the inflow of investment capital into the development of large-scale residential areas and some socio-economic functions built by developers. The acceleration of development of the Center Point area of Indonesia, very rapid and revolutionary, has been shown to have the effect of reducing coastal land area, reducing environmental quality, and changing economic activities, economic, social structures, social systems and cultural patterns in local communities.

2. Method

This research was conducted in the coastal area of Makassar City, whose administrative area is focused on Mariso Subdistrict, Panambungan Village, which is one of the villages that has most felt the impact of the Center Point of Indonesia development. The selection of research locations was based on several considerations, namely: (a) changes in urban space use, quite high intensity and mainly towards large-scale cluster development and economic and commercial activities; (b) the dominance of spatial reproduction by capitalism disproportionate influence on land use rights between immigrants and local communities, (c) changes in land use characterized by urbanization and urban revitalization leading to differences on benefits between communities in response to stimuli of environmental change, and (d) spatial articulation of capitalism and inequality in the mastery of spatial reproduction causes social change and rationalization of actions between communities.

In this study, a qualitative approach was used to reveal changes in land use and their impact on the socioeconomic conditions of local communities in the Center Point area of Indonesia., obtained through observation of social situations, with three main factors observed, namely, locations, actors and activities. From these data, an interpretation of the meaning of the process that took place in the field was then carried out [Khoa, 2023]. The meaning of the developing reality is then substantively connected with theory. Therefore, the qualitative approach in this study is used to interpret the social situation. that develops based on the phenomena that develop in the Center Point area of Indonesia.

3. Results and Discussion

One of the 14 districts located in Makassar City, Mariso District, is also included in the 7 districts in Makassar City that are bordered by the beach. The area of Mariso District is very small, only 1.04% of the total area of the city of Makassar, which is about 1.82 square kilometers. The population is about 59,292 souls. The acceleration of development in the Center Point area of Indonesia is quite powerful and very complex, characterized by a diversity of ethnic groups and development towards new growth poles in the urban system. Three things are related to the development dynamics of the region: First, the spatial physics aspect is characterized by changes in spatial use leading to a decrease in environmental quality, inequality in land tenure, and differentiation

of jobs between communities. Second, from an economic aspect, it is characterized by the existence of centers of economic growth causing suburbanization, gentrification, and an increase in development investment flows. Third, the socio-cultural aspect is indicated by differences in interests between communities and has a tendency towards fragmentation in local community life, marked by the strengthening of capitalist community groups in controlling land in the Center Point area of Indonesia. These three aspects illustrate that the existence of capitalism in the development of the Center Point of Indonesia through penetration, invasion, and domination, as well as support for capital and investment flows, has an impact on land tenure inequality and job differentiation between communities towards a dualistic economic system.

The factors driving the rapid development in Center Point of Indonesia are characterized by the existence of urban performance characteristics, including shopping malls, large-scale settlements, services, offices and some other urban functions. The existence of this activity is supported by the construction of a road corridor to the Central region of Indonesia that works to connect the city of Makassar with the districts of Takalar and Gowa and thus encourages very strong interaction between cities. Interactions between regions and cities are reflected in the current state of means of transport and the flow of people, goods, services and traffic nodes when a traffic axis exists, which will lead to concentric distortion because traffic routes are associated with high mobility. [Nyamai, 2023]. The direct observable effect is an increase in traffic volume, marked by the presence of spatial functions along main roads and mainly shopping malls. Field reality shows that the focal point of regional development is characterized by the presence of commercial functions dominated by the capitalist mode of production, which coexist with the pre-capitalist mode of production but are interdependent in terms of management form and characteristics of production economic activity. This means that in the context of regional development, Indonesia's focal point suggests the existence of a capitalist power that coexists with the tendency of capitalist modes of production to dominate control of reproduction urban space and shows the difference between the social forms and work systems of capitalist society on the one hand and the work systems of pre-capitalist societies on the other [Wu, 2022].

3.1 Changes in Space Utilization in the Center Point Area of Indonesia

Space use change due to land use change in Center Point of Indonesia is basically caused by the emergence of saturation points in the city center and population pressure factors, which continue to increase over time. The transformation of land use function and change of space use is a process of infiltration of urban elements into the environment; the coastal areas of cities and areas that are in the direction of widening are transitional or transitional areas that are undergoing intensive changes, causing integration of urban systems [Tavares, 2012]. Suburbanization and gentrification of the Center Point of Indonesia and the integration of urban systems have resulted in high demand for land for development activities. The facts found in the field indicate that the existence of centers of commercial activity and the construction of large-scale settlements built by developers with a sufficiently large area caused the accumulation in the Center Point area of Indonesia.

Table 1. Utilization of Space in the Center Point of Indonesia Year 2012-2022

No	Space Utilizatio	on The year 2012		The year 2022			
		·-	Width	Percentage	Width	Percentage	Information
			(Ha)	(%)	(Ha)	(%)	
1	Settlement		23,23	14,77	66,31	42,17	Increase
2	Offices and Services		2,53	1,61	27,23	17,32	Increase
3	Trading		-	-	15,34	9,75	Increase
4	Social		1,48	0,95	8,05	5,12	Increase
5	Education		3,28	2,09	7,02	4,47	Increase
6	Tour		5,23	3,32	12,25	7,79	Increase
7	Green Line		-	-	7,82	4,97	Increase
8	Fishing land		93, 10	59,21	-	=	Decrease
9	Others (Empty land)	•	28,38	18,05	13,21	8,41	Decrease
		Total	157,23	100.00	157,23	100.00	

Source: Primary Data Processed Results

The trend of development in the Center Point of Indonesia area (table 1) illustrates that the dominant drivers of space use are oriented towards the development of human settlements, commerce, and certain functions of urban activity, further emphasizing that inequality Equal control over spatial reproduction leads to differences in economic benefits between communities and differences in jobs within local communities. The development of the Indonesian Regional Center Point is a combination of concentric and linear models. The polarization of economic activity tends to develop towards new urban areas, which then affects the development of spatial structure and hierarchy of service centers through the process of regulation landscape adjustment of

urban areas. Therefore, the existence of economic activity centers in the Center Point area of Indonesia through the construction of the main road will have the effect of connecting Makassar urban area, Gowa district and Takalar district. This fact shows that the existence of main roads has a positive relationship with the process of urban agglomeration and reduction and has a direct effect on urban areas. The development of settlements in the Center Point area of Indonesia due to the development of various activities, population mobility and the development of private housing models, as well as forms of The new causes of increasing urban agglomeration, have had a variety of effects.; (a) environmental impacts, (b) transportation impacts, (c) land prices, (d) changes in urban form, and (e) social changes [Hanief, 2023; Bedini, 2016]. As such, urbanized coastal areas tend to perform a variety of functions and play a major role in providing environmental resources and services to surrounding municipalities. The land data found illustrate that land-use conversion, spatial change-of-use, and increased population mobility will increase in intensity and continue to be consistent with the development stages development of Indonesia's Center Point, which has a direct impact on the surrounding urban areas.

This fact shows that the changes in space use according to the stages of implementing new urban development have positively contributed to the reduction of agricultural land area and the shift of agricultural labor to public urban areas. Karma. Note how the coastal areas of these areas can provide key services arising from their economic, social, and environmental functions to meet the needs of urban-based communities' consumption [Antognelli, 2017]. Changes in spatial use, which were initially dominant on the coast and then developed into the urban industry, illustrate that the existence of the Center Point of Indonesia area as a new economic growth pole in urban areas in the Mariso sub-district has a direct impact on the existence of the surrounding urban areas.

Table 2. Characteristics of Changes in Space Utilization in the Center Point Area of Indonesia

No	Change Parameter Space Utilization		Value (%)	Standard (%)	Information	
1	Transfer of Land Use	Fisheries Land	25	66-100	Decrease	
	Functions	Decrease in Fishery Productivity	30	66-100	Decrease	
		Land Value	70	66-100	Increase	
2	Space Structure	Service Center System	70	66-100	Increase	
		Formation of Service Center Hierarchy	70	66-100	Increase	
3	Patterns and Functions	Trading	80	66-100	Increase	
	of Space	Services	70	66-100	Increase	
		Education	70	66-100	Increase	
		Health	80	66-100	Increase	
		Industry	85	66-100	Increase	
		Settlements	90	66-100	Increase	
		Green Open Space/Tourism	70	66-100	Increase	
4	Population Activity	Economic System	80	66-100	Increase	
	Patterns	Social System	70	66-100	Increase	
7	Dualistic Economic	• Formal	75	66-100	Increase	
	System	Non- Formal	70	66-100	Increase	
8	Social Structure	Social Stratification	70	66-100	Increase	
		Social Status	70	66-100	Increase	
		 Social Class 	70	66-100	Increase	
9	Cultural Patterns	Value system	45	66-100	Decrease	
		 Social Norms 	60	66-100	Decrease	

Source: Primary Data Processed Results, 2023

It was found that the standard limitation factors and technical aspects in the spatial plan influenced the respondent's views on deviations in the use of space. As many as 85.00% of respondents stated that this factor had an effect, 15.00% considered it less influential, and 0.0% considered it had no effect. Thus, it can be concluded that the limitations of standards and technical aspects

have a significant influence on the occurrence of deviations in the use of space in the research location. Therefore, it is advisable to immediately develop standards and technical aspects to minimize irregularities in the use of space in the research location.

The existence of capitalist-dominated economic and commercial functions and the spatial articulation of communities against stimuli of environmental change go hand in hand with the dialectic of modernity and rationalize the actions of local communities. Observed field events suggest that the development of Indonesia's Center Point in its dynamism is characterized by coexistence between capitalist modes of production and money production modes of capitalism, which is characterized by capitalism's dominance of space and control of land. This means that the allocation of space and land in the Center Point area of Indonesia is largely determined by capital and income capacity. These conditions, aside from changing the spatial structure and spatial patterns physically, also show differences in the typology and pattern of inter-community relations, both economically and socially, between immigrants and local communities. Typological differentiating factors for the observed activities, namely: first, the existence of two types of modes of production in the domination of spatial reproduction economically, which coexist but have no connection with one another either in terms of management or in terms of ownership and the patterns of social relations that are built also tend to be in a different direction. Second, the ongoing economic transactions show differences in the economic strata of society based on activity patterns and capital ownership, representing the capitalist mode of production on the one hand and the pre-capitalist mode of production on the other. The fact observed in the field shows that there is a huge difference in production methods between migrants and local communities, causing a difference in housing ownership, and this process shows the existence of migrants. The existence of marginal spaces that are mainly inhabited by the local community tends to develop into urban slums coexisting with the existence of luxury and very luxurious residential areas in which immigrants live.

The transformation of land use function and change of space use in the Center Point area of Indonesia, driven by the existence of a capitalist economy in control of spatial reproduction, ultimately jointly encourage changes in aspects of the social life of local communities. Explanations may be submitted in relation to (Table 2), namely: First, changes in the use of space lead to changes in the livelihood orientation of local communities. Second, capitalist land tenure leads to the development of a dual economic system driven by socioeconomic disparities, and third, an increase in economic productivity in the new urban area leads to lifestyle changes in community groups due to the transformation of new areas' values. Consequences arise as a result of the process, namely (1) income inequality, (2) changes in land ownership by local communities leading to changes in social relations patterns and group bonds, and (3) changes in cultural values capital inherited by the community is undervalued. These social changes occur in tandem with the microscopic spatial articulation of the local community. The shift of production mode from subsistence agriculture to industrial capitalist production is offset by technology. That is, technology causes social change in the sense that something that was not possible in the past becomes possible with the help of technology that changes patterns of interaction in society and causes various problems for society [Van Veldhoven, 2022].

The specialization of the very diverse and complex orientation of community activities in the Center Point area of Indonesia causes income inequality and its tendency towards marginalization, community poverty, and socio-economic segregation in urban communities. The emergence of community poverty is not only due to urban infiltration, lack of access to economic resources and increasing control of land by developing capitalists. This situation is characterized by conflicting desires, which, due to a loss of trust at the community level, leads to a weakening of interpersonal relationships within community groups. The assimilation of the local community and the migrants (migrants), and most of the local people try to find informal jobs to improve their welfare. Spatial reconstruction is a capable process and relies on the action of agents [González-Méndez, 2021]. The shift in traditional values due to increased individualism has affected the weak social relationships and the social capital that has been maintained in the social system of the local communities. That is to say, changes in the means of production towards spatial reproduction and representation of space in the Center Point area of Indonesia, bridged by the presence of capitalism, cause different interests among individuals and groups within the local community. The role of technology is seen as central to changing everything. This process then creates conflicts between structural rules and aspirations at the individual and community levels. Changing the mode of production leads to a change in interaction patterns and ultimately changes the social structure and cultural pattern of the local community through the transformation of the modern values and work system of the society urban industry association. In the ensuing process, changes in the mode of production actively contribute to the birth of a new social status with all its openness. The construction of new settlements and the economic activity currently predominating in the Center Point area of Indonesia, as well as the development of capitalism, are positively correlated with the distribution of status based on the education, income, and career orientation that can be achieved by the local community and has an impact on the inconsistency of statutes and the coexistence of modes of production in local communities.

3.2. The Impact of Developing the Center Point Area in Indonesia

Changes in social formation in the Indonesian central point have been assessed and are significant, from their origins as a single homogenous social formation to the formation of a pre-capitalist society meaning and the formation of a capitalist society. As a result, the social interaction and social adjustment between the local community and the immigrant population have changed in

the Center Point area of Indonesia. In local communication, internal social changes lead to the refinement of economic classes and changes in cultural patterns, with the transition from traditional agrarianism to industrial urbanization. Karma. Social change that occurs causing changes in social interaction and social adaptation as well as consequences of changes in local communities, is a phenomenon in the Center Point area of Indonesia, supported by development policies, thereby encouraging the expansion of capitalism through the processes of land infiltration, conquest, and occupation. The fact that capitalism's expansion by entering the pre-capitalist space reflects the dominance of mastery over the reproduction of the space by capitalism has the effect of defrauding the margins of local communities. The marginalization of local communities due to changes in space use is caused by factors of differences in skills and capacities, as well as differences in rights and access. The use of resources and social forms coexist.

The justification for the marginalization of local communities is assessed on the basis of indicators: poverty, alienation, vulnerability, and inability to control spatial reproduction and access to new spatial functions in the Center Point area of Indonesia. The fact is that changes in use play a decisive role, starting with changes in land ownership status, and conversion of land use from primarily agricultural to primarily agricultural functions commercial is weak. That means the coexistence of two types of social forms and the dominance of spatial reproduction mastery on the one hand through capitalist social forms and spatial articulation in the suboptimal functioning pre-capitalist society led to the marginalization of local communities. Therefore, changes in the use of space that occur very quickly and are revolutionary will lead to changes in the social structure, social processes and cultural patterns of the local community. In this study, the development impact findings from the Center Point area of Indonesia reflect the lives of local communities that have experienced change and fragmentation.

In local communities in Indonesia's Center Point region, societal development has resulted in new social formations, including the sharpening of economic stratification from simple stratification to obvious strata. The distinction between fully ascribed status and attained status is based on the efforts made and the accomplishments that can be made, as well as on the knowledge and skills held, and it results in the satisfaction of basic necessities. Local community social systems are evolving in favor of an open social system. Changes in social values and norms from completely social values and norms were born in the tradition of traditional fishing life and then changed to the value system and norms of urban industrial society.

3.3. Sustainability of Development of the Center Point Area of Indonesia

The coastal reclamation area in the Mariso sub-district in the Center Point of Indonesia area is evaluated based on three main indicators for assessing sustainable development. These indicators cover coastal resources, buildings, and infrastructure. Land use in this reclamation area is focused on coastal resources, such as green open space, availability of space for water conservation, and per capita land coverage. To improve environmental quality, it is important to pay attention to and increase the availability of Green Open Space (RTH), especially in urban areas, given its significant benefits. Indicators of coastal resources show that 30% of the reclamation area of the planned green open space coverage index of 30%, which consists of parks, green belts, and fields. This is following the requirements of the Spatial Planning law to achieve sustainability.

Regarding building indicators, less than 10% of built-up land (covered with cement) indicates that this area can be sustainable because most of the land is undeveloped. Although there is a tendency for the conversion of land use from built to intensive built, this can be controlled to maintain sustainability. Data from infrastructure, such as the road network, public transport, and distance from major transport routes, is calculated to evaluate its sustainability. The results of the analysis show that this area has an adequate road network and sufficient public transportation facilities and is about 2,100 meters from the main transportation route.

The tendency of the development of the Center Point of Indonesia towards increasing economic productivity has a direct relationship to the weak control over the use of space. Spatial integration as a driving force for economic development has a positive association with the creation of market areas and media for changing people's behavior towards consumption. To deal with urban problems, the direction of handling urban development is oriented toward the concept of sustainable physical, economic, and sociocultural development. The concept of sustainable development as a handling solution in Makassar City allows for the implementation of residential environmental rejuvenation that is oriented towards (a) Environmental improvement, more towards strengthening government/public investment capacity as a single factor in urban development, (b) Progressive rejuvenation by utilizing the use of funds from the private sector. This means that the single factor is the large private sector, and a development agenda needs to be formulated to handle Makassar City.

Environmental rejuvenation policy, namely, (i) involving community participation in development, (ii) developing social capital to change people's behavior in controlling environmental pollution, and (iii) strengthening government institutions through program planning that is oriented towards pro-poor and marginal communities. Therefore, the approach to managing urban growth sustainably in the future is focused on a number of fundamental ideas, including (1) physical environmental sustainability through efforts to improve settlement infrastructure by facilitating development by self-help through a collaborative pattern between the

government of Makassar City and large private parties, (2) enhancing community economic firms' production through entrepreneurship education, venture capital assistance, and market access, and (3) strengthening community institutional capacity and government capacity in handling social problems, social conflicts, and guarantees for living for community groups and oriented towards the principles of social justice and inclusiveness for all levels of society.

4. Conclusion

The results of this study have the potential to become an important tool for planning a decision-making system supported by geo-spatial technology for managing coastal urban areas, especially in the Center Point Area of Indonesia. This research focuses on assessing the environmental impact of the reclamation area. Reclamation has a variety of economic benefits, including (1) creating jobs through investment, (2) increasing the economic welfare of the community through an investment multiplier effect, (3) increasing local revenue, and (4) encouraging the development of the tourism sector.

Sustainable development in the reclamation area can be achieved by taking into account three determining factors, namely (1) coastal resource indicators, (2) building indicators, and (3) infrastructure indicators. However, in this study, the focus is only given to the physical and economic aspects of the reclamation area, while the social aspects as part of sustainable development can be explored by other researchers. Sustainable development in the reclamation area can be achieved by taking into account three determining factors, namely (1) coastal resource indicators, (2) building indicators, and (3) infrastructure indicators. However, in this study, the focus is only given to the physical and economic aspects of the reclamation area, while the social aspects as part of sustainable development can be explored by other researchers.

The coastal reclamation area has communities living nearby, so a strategy is needed to ensure that all communities can feel the benefits of development. To improve the economy of fishing communities in Mariso District as a response to the building of Indonesia's Center Point in Makassar City, a strategy that can be implemented is to utilize the total fisherman population by forming fishing community empowerment institutions. This institution will help protect the surrounding environment and utilize existing infrastructure to improve the economy through economic and tourism businesses in coastal areas.

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