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Function and Hierarchy of Settlement in Regional Development Corridor Malaysia: A Case Study of South-East Pahang Development Authority (DARA)

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Abstract

Frontier area development through rural development is one of strategy in the regional development corridors (RDC) that was formulated by the government. In line with the New Economic Policy (NEP) strategy, the development of RDC such as South-East Pahang Development Authority (DARA) in 1971 was focused on improving the living standards and productivity of the rural population through the process of modernizing rural and remote areas. The existence of DARA indirectly catalysed the development of new townships which drove the urbanization process in the South-East Pahang region. However, the dissolution of DARA in 2000 was occurred due to the successful in the development of DARA in South-East Pahang region. Nonetheless, a question emerges whether these new townships are fulfilling to the settlement's function and hierarchy performances today that was planned in early setup of DARA. Hence, this paper aims to evaluate the settlement's function of the township development in the DARA in Malaysia as a case study of RDC based on the level of readiness public and basic facilities in a settlement area with using 4 settlement services indicator such as function, economy, public / social facilities and convenience infrastructure and utility. The methodology used is a qualitative method using a case study method on the 11-existing settlement centers located in the DARA area. The findings highlighted that the settlement's function of these settlement centers have undergone significant changes from the main goal of its establishment with today's functions and performances due to the factor of population decline and shrinkage of economic opportunity. Therefore, immediate measures are required by the relevance government agencies to ensure the existence of these settlement centers in the future as well as to ensure that the settlement area meets the needs of the population equipped with adequate facilities for socio-economic activities.

Keywords: frontier area development; regional development corridors; rural areas; settlement centre

1. Introduction

The construction of new cities in South-East Pahang has begun in the 1972s involving settlements development and provision of urban infrastructure facilities as one of initiatives under the Regional Development Corridor (RDC) known as South-East Pahang Development Authority (DARA) (Walton, 1976; Yusoff et al., 2021). Based on the DARA Master Plan, there are 36 towns designed to be built until 1990, but after taking into account the current situation in the South-East Pahang area there are only 30 cities proposed to be developed. Today, there are 17 remaining settlements were existed that was developed DARA (Administration Division, 1993). This settlement area was developed by the DARA since 1975 over 45 years of development that has undergone a variety of changes that begins with the opening of new settlements through the frontier development approach by opening forestry areas to the new settlements

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with socio-economic activities especially on agricultural activities such as oil palm plantation, logging and iron mining (Asnarulhadi, 1997; Ngah, 2011; Rompin District Council, 2010).

In 2000, the Malaysia government decided to dissolve DARA through DARA Act 569 (dissolve) 1997 and was handed over the DARA's administration responsibility to the private sector namely Teras Dara Konsortium (TDK) with the support from Pahang state government and local government. The main factor leading to the decision to dissolve and privatize DARA is due to the Malaysia government discovered that the basic roles of development especially in terms of reopening up the frontier and improving the well-being development of the people in DARA's area have been successfully implemented. However, this decision was impacted hugely to the new privatisation administration on the ability and level of readiness in terms of finance and manpower to develop the area and take over the functions of DARA.

Over more than 20 years of dissolution, DARA area is not seen as it is from the original master plan's vision in providing a conducive living for the peoples. Some of the issues have been identified that include changes in current development patterns from original concepts and strategies, instability of key economic activities, population rates decline and settlement hierarchy status (Ngah, 2011; Walton, 1976; Yusoff et al., 2021b). Thus, this paper aims to evaluate the settlement's function of the township development in the DARA in Malaysia as a case study of RDC and is to see the level of achievement of small towns in influencing rural areas that have experienced changes in development patterns based on the provision of public and basic facilities in a settlement area.

2. Literature Review

2.1. Background of Regional Development Corridor (RDC) in Malaysia

The establishment of the Regional Development Corridor (RDC) is a government-planned development strategy to accelerate the development of backward regions towards achieving the balance of development between territories (Ngah, 2011; South-East Pahang Development Authority, 1997). Regional development is divided into two approaches, namely, the development of forest resource (frontier) and in-situ development (Higgins & Savoie, 2017). The establishment of the RDA is a government planned development strategy to accelerate the development of backward regions towards achieving the balance of development between territories.

Several RDA have been established to implement development strategies in major areas with natural resources such as virgin forests in less developing areas in Peninsular Malaysia such as southeast Pahang, southeast Johor, southern Kelantan, and in central Terengganu. The plan is intensified through certain bodies that are still active today such as the South-East Johor Regional Development Authority (KEJORA), the Central Terengganu Regional Development Authority (KETENGAH), the South Kelantan Regional Development Authority (KESEDAR), Kedah Regional Development Authority (KEDA) and the Penang Regional Development Authority (PERDA) which has always played a role in the development of regional development in Malaysia (Ngah, 2011).

2.2. South-East Pahang Development Authority (DARA)

The South-East Pahang Development Authority (DARA) was established under Act 68, the South-East Pahang Development Authority Act 1972 (Administration Division, 1993; Briefing Report, 1986; Mat, 1983). DARA was established to lead the integrated development strategy through the opening approach of the forest, exploiting resources, providing a network of connection and development centers of growth and cities complete and modern city. The DARA region covers four districts namely Rompin, Pekan, Bera and Maran. Official dissolution of virginity was implemented on November 1, 2000 under the South-East Pahang Development Authority Act 1997.

After the dissolution, the Ministry of Rural Development (KPLB) was given the role of developing a DARA area by pursuing existing activities and programs (South-East Pahang Development Authority, 1997). The new settlement area (city) is located in the administrative area of Pahang Tenggara Region which covers an area of 1,002,197 hectares. The Map of Pahang Tenggara Region which houses 17 settlement centers called 'cities' comprises of 3 level of settlement hierarchy namely Main Settlement Centre (PPU), Rural Settlement Centre (PPD), and Small Settlement Centre (PPK) that equipped with basic facilities and services to residents (Figure 1).

In examining the functions of settlements within the regional development area, the understanding of the foundation and definition of the region must first be understood, which refers to the definition of 'regional development' (Alden & Awang, 1985) territory can be defined as a group of areas developed continuously within the regional development area with Unexplained sources such as timber sources, iron seeds, gold and so on to carry out economic activities centrally in a major settlement area. The development of regional areas includes a large area located in the interior based on the principles of the region, which is to balance urban and rural development, which is a uniformity of development that was developed during the British administration from racial classification based on economy activities to a comprehensive physical development approach which focuses on socio-economic development (Rustiadi, 2018). Thus, the development of settlements within the regional development area is one of the ways to accelerate the overall development process involving rural areas in Malaysia (Rashid et al., 2019; Razali & Rashid, 2021).



Figure 1. Regional Plan for DARA Source: Administration Division, 1993

3. Research Method

This study was conducted in order to identify the aspects that affect the level of the hierarchy of rural settlements that affect the function of the settlement. Therefore, the function of settlement in the DARA is based on four (4) settlement services indicators such as function, economy, public/social facilities and convenience infrastructure and utility (Ministry of Urban Wellbeing Housing and Local Government, 2016). This study implements a qualitative method using primary data through a case study method by conducting a fieldwork and inventory audits of the settlement facilities and services schedule in determining the hierarchy and functions of settlements from previous and current related reports on DARA (Table 1).

Table 1: Method of Study for Settlement's Function in the DARA

Objective	Method of Data Collection	Method and Output of Analysis								
To evaluate the settlement's function of the township development in the DARA	Conduct fieldwork and inventory audits of the settlement facilities and services schedule in determining the hierarchy and functions of settlements	Sampling A Qualitative data analysis (Settlement function								

A fieldwork and inventory audit of settlement facility and service were conducted in determining the hierarchy and function of a settlement. The elements that play a role in determining the level and functionality of a settlement based on several facility indicators were based on four (4) settlement services such as function (administration), economy (business, industry, financial services), public/social facilities (education, health, recreation/culture/heritage, synagogue, security, rescuer, postal service) and convenience infrastructure and utility (sewerage services, road network, drainage system, solid waste, electricity, water, telecommunications, transportation services, terminal transportation) (Krimi et al., 2010; Latip & Yusoff, 2019; Ministry of Urban Wellbeing Housing and Local Government, 2016)

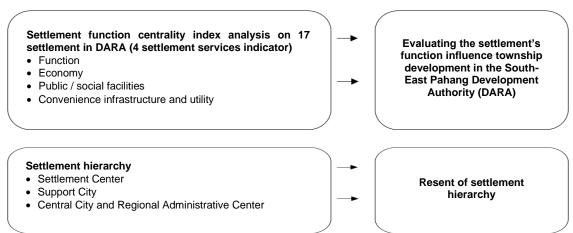


Figure 2. An Evaluation Framework of the Settlement's Function in the DARA

The level of functionality of a settlement is influenced by the municipal facilities component which consists of the availability of basic facilities and public facilities in a settlement area which affects the socioeconomic level of the rural community and the hierarchy of the settlement (Figure 2). The indicators evaluated consist of functionality, economy, facilities and infrastructure and utilities that are interrelated between facilities and levels of functionality and settlement hierarchy (Rashid et al., 2019; Rashid, Sulaiman et al., 2020). Today, there are 17 remaining settlements developed by DARA which located in 4 (four) districts, namely Pekan, Muadzam Shah, Rompin and Bera. Bandar Muadzam Shah was selected as a Central City and Regional Administrative Center with the support of the surrounding Settlement Centers (Table 2).

Table 2: Settlements Hierarchy of the DARA's Settlements

District	No.	Settlement (City)	Original Proposal of The Settlement Hierarchy	Recent Status of Settlement Hierarchy
	1.	Chini	Support City	Small Settlement Centre (PPK)
Pekan	2.	Paloh Hinai	Settlement Center	Rural Settlement Centre (PPD)
	3.	Kota Perdana	Settlement Center	Rural Settlement Centre (PPD)
	4.	Bukit Ibam	Settlement Center	Rural Settlement Centre (PPD)
	5.	Muadzam Shah	Central City and Regional Administrative Center	Main Settlement Centre (PPU)
	6.	Kota Bahagia	Settlement Center	Rural Settlement Centre (PPD)
	7.	Kota Shahbandar	Settlement Center	Rural Settlement Centre (PPD)
	8.	Melati	Settlement Center	Rural Settlement Centre (PPD)
Muadzam Shah	9.	Pekoti Timur	Settlement Center	Rural Settlement Centre (PPD)
	10.	Chenderawasih	Settlement Center	Rural Settlement Centre (PPD)
	11.	Perwira Jaya	Support City	Rural Settlement Centre (PPD)
	12.	Perantau Damai	Settlement Center	Rural Settlement Centre (PPD)
	13.	Chanis (Bandar 21)	Settlement Center	Rural Settlement Centre (PPD)
	14.	Bandar Tun Razak	Support City	Small Settlement Centre (PPK)
	15.	Selancar	Settlement Center	Rural Settlement Centre (PPD)
Rompin	16.	Seladang (Selendang)	Settlement Center	Rural Settlement Centre (PPD)
Bera	17.	Bandar Bera	Settlement Center	Small Settlement Centre (PPK)

Source: Administration Division, 1993; Rompin District Council, 2010; Briefing Report, 1986

4. Result and Discussion

Highlighted in table 3 that the existing development of DARA urban areas involving 17 towns is classified in the settlement hierarchy of Rural Settlement Centre (PPD) and Small Settlement Centers (PPK) referring to the Rompin District Local Plan 2002-2015. This indicates that the settlement status is not clear in line with the existing physical development following the administrative transition from the Regional Development Authority which is DARA to the relevant government agency especially rural development agencies after the dissolution of DARA.

Table 3: Settlement Function Centrality Index Analysis of the DARA's City

		Settlement (City)																
No	Function's Components	Chini	Paloh Hinai	Bukit Ibam	Kota Perdana	Muadzam Shah	Melati	Kota Bahagia	Kota Shahbandar	Pekoti Timur	Chenderawasih	Perwira Jaya	Perantau Damai	Chanis (Bandar 21)	Bandar Tun Razak	Selancar	Seladang (Selendang)	Bandar Bera
1	Primary School	3	1	1	1	5	-	1	-	-	1	1	1	1	4	1	-	4
2	High School	1	1	-	-	1	-	-	-	-	-	-	-	-	1	1	-	1
3	Police Station	1	1	1	-	1	1	1	1	-	1	-	-	-	1	-	-	1
4	Post Office	1	1	1	1	1	-	1	-	-	-	1	1	-	1	-	-	1
5	Health Clinic	1 HC	1 VC	1 HC	1 VC	1 H	-	1 VC	-	-	1 HC	1 HC	1 HC	1 HC	1 HC	1 VC	; -	1 HC
6	Public Hall	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-
7	Telephone	1	-	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-
8	Highway Stop	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
9	Mosque	-	-	1	-	1	-	1	-	1	-	1	-	-	4	1	-	4
10	Surau	4	1	-	1	1	1	1	-	-	1	1	1	1	1	-	-	4
11	Fire Station	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
12	Playing Field	1	1	1	1	1	-	1	-	-	1	1	-	-	1	-	-	1
13	Tourism Centre	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Local Government Office	1	-	-	-	1	-	-	-	-	-	1	-	-	1	-	-	1

Notes: VC= Village Clinic, HC= Health Clinic, H= Hospital

Therefore, the main issue that occurred in the settlement area in the Muadzam Sub-District as a result of DARA has caused the existing settlements to be not well managed due to the planning to open residential lots, businesses, etc. are not fully developed / sold. in line with the planning of the DARA urban development master plan which resulted in incomplete urban development status being fully developed as well as incomplete planning for the provision of basic and public facilities indirectly resulted in some underdeveloped and poorly maintained public facilities. Therefore, the focus of this study is to evaluate the level of achievement of the function of small towns in the development of rural areas in the Muadzam Shah which involves the remnant urban areas of the DARA which is the agency responsible for opening and developing rural areas to new settlement areas from 1970 until the closure / dissolution of the provincial development board by 2000. Indirectly, the level of the settlement hierarchy has not changed and improved based on the Function Centrality Index Analysis that has been carried out on the facilities provided in the settlement area.

5. Conclusion

The regional development approach is one of the mechanisms to accelerate rural development especially for the poor families to live in a newly built cities equipped with various facilities, environment quality, economic and social opportunities that will help settlers and their families to make the transition to a safer, more rewarding and diverse one (Razali & Rashid, 2021b; Yusoff et al., 2021a). Therefore, it can be concluded that the provision of basic and public facilities affects the level of functionality of a rural settlement area in determining the level of settlement hierarchy which affects the increase in population in a settlement. These data can be used by stakeholders such as government agencies in the maintenance and future planning of the provision of facilities in the settlement area in line with current needs. The importance of this study is also to modernize the rural sector, i.e., increase the area of new lands to be developed, develop community facilities, foundations and infrastructure in rural areas as well as assist related agencies in regulating the cities of DARA's legacy to be developed in line with urban development.

It can be seen that 17 'urban' settlements in the DARA administrative area are well planned with the provision of all basic and public facilities as well as the provision of socio-economic resources to the residents in a settlement in developing the functionality of the settlement as time progresses. In general, this study focuses on the achievement of the function of small towns in the development of rural areas in DARA based on the DARA development plan as a systematically planned city with various facilities for the living standards improvement of the people. The socio-economic aspect is one of the supports for a sustainable urban centre development to focus on inclusive development between urban filling and community development in particular (Rashid et al., 2019a; Rashid et al., 2020; Yusof & Kalirajan, 2020).

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