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Strengthening Local Potential for Sustainable Economic Development in Bengkulu City

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Abstract. Number of poor population in Bengkulu City is the highest among other regencies in Bengkulu Province. Development in Bengkulu City looks forward internally, but not changing the image as lagging region in Indonesia. Although the Human Development Index (HDI) of Bengkulu City is the highest in Bengkulu Province and more than the national average, it has not been beneficial for the Bengkulu City progress. Research objectives are: (1) to know the leading sector in Bengkulu City, (2) to know the chain of regional economic issues of Bengkulu City, and (3) to formulate a strategy of sustainable economic development in Bengkulu City. Method which is used in this research is literature study and descriptive analysis towards calculation results of location quotient (LQ), specialization index (SI), Theil entropy index (TEI), shift-share analysis, and Klassen typology based on gross domestic product (GDP) data. The results show that the most leading sector in Bengkulu City is company service, with LQ of 2.97 (2011); 3.02 (2012); and 2.96 (2013). The regional economic issues in Bengkulu City can not be separated by disparity of the leading sector, unspecialized of the leading sector, low competitiveness and lagged of the leading sector, coupled with increasing of poor population, not optimalized of HDI utilization, and low function of regional development key. Development strategy in Bengkulu City formulated through local potential empowerment, such as developing company service sector, increasing the company setor service competitiveness, and creating generative city relations.

1. Introduction

Bengkulu City is the capital of Bengkulu Province, Indonesia. Bengkulu City had a high Human Development Index (HDI) (Graph 1) compared to the average in the province and country [1]. Based on [2], infrastructure development in Bengkulu City has exceeded targets, but Bengkulu Province included a quite poor in western part of Indonesia [3] and the poorest in Sumatra Island [4]. The number of poor population, according to BPS year 2010-2015 showed it tends to has increased (Graph 2), especially in Bengkulu City [5]. Development in the city has not given positive impact yet to the province.

Regional development should pay attention to three keys [6], i.e.: (1) intraregion factor, reflected in the regional potential, (2) interregion factor, reflected by the geographical position against the wider or national scope, and (3) supra region factor, related to law, legal, or bureaucratic. One of the problems arising in the regional development is about regional economic development strategy so that scale of

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priority is required. The priority sector in regional development is the leading sector [7]. Strengthening and expanding of the leading sector in each region is strategic answer towards economic and social problems lagged region [8].





Source: [5] (processed)

It is important to solve the Bengkulu Province issues, started by regional development of the provincial capital or Bengkulu City. Research objectives are: (1) to know the leading sector in Bengkulu City, (2) to know the chain of regional economic issues of Bengkulu City, and (3) to formulate a strategy of sustainable economic development in Bengkulu City.



2. Methodology

The research method whisch is used in this research is literature study. Regional economics, the chain of regional economic issues, and the strategy formulation of sustainable economic development of Bengkulu City were descriptively analyzed through calculation of location quotient (LQ), specialization index (SI), entropy Theil index (TI), shift-share analysis, and Klassen typology based on gross domestic product (GDP) data of Bengkulu City and Bengkulu Province.

LQ is calculated with the formula (i). GDPir is sectoral GDRP in the city, TGDPr is total GDP in the province, GDPin is sectoral GDP in the city, and TGDPn is total GDP in the province.

$$LQ = \frac{GDPir/TGDPr}{GDPin/TGDPn}$$
(i)

SI is calculated with the formula (ii). SI is specialization index in region 1 (city) and 2 (province), Ei1 is sectoral GDP in region 1, E1 is total GDP in region 1, Ei2 is sectoral GDP in region 2, and E2 is total GDP in region 2.

$$SI = \sum_{i=1}^{n} \left| \left(\frac{Ei1}{E1} \right) - \left(\frac{Ei2}{E2} \right) \right|$$
(ii)

TI is calculated with the formula (iii). Yi is GDP per capita of the city, Y is GDP per capita of the province, Xi is number of city population, and X is number of province population (Table 1).

$$TI = \sum_{i=1}^{N} \frac{Y_i}{Y} x \log[(\frac{Y_i}{Y})/(\frac{X_i}{X})]$$
(iii)

Table 1. Data for Calculating GDP per Capita								
Year	Total GDP of Total GDP of Xi X Yi							
	Bengkulu City	Bengkulu Province						
2011	9,657,223.1	30,295,100	313,324	1,742,080	30,822	17,390		
2012	10,327,320.5	32,363,000	326,219	1,783,725	31,658	18,143		
2013	10,956,459.1	34,326,400	334,529	1,814,357	32,752	18,919		
C	01 [10] [11] [10] [12]							

Source: [9], [10], [11], [12], [13] and [14]

Shift-share analysis is calculated based on regional share (regional growth component, Nj), sectoral growth (proportional shifts, Pj), and the growth of regional competitiveness (differential shift, Dj) as outlined in Table 2.

	Table 2. Calculation of Shift-Share Analysis						
Yijo	Micro region sectoral GDP of year x	Gj	Yjt-Yjo				
Yijt	Micro region sectoral GDP of year (x+1)	Gj	Nj+Pj+Dj				
Yjo	Micro region total GDP of year x	Nj	(Yjo(Yt/Yo))-Yjo				
Yjt	Micro region total GDP of year (x+1)	(P+D)j	Yjt-((Yt/Yo)(Yjo))				
Yio	Macro region sectoral GDP of year x	(P+D)j	Gj-Nj				
Yit	Macro region sectoral GDP of year (x+1)	Pj	((Yit/Yio)-(Yt/Yo))Yijo				
Yo	Macro region total GDP of year x	Dj	((Yij-(Yit/Yio)Yijo)				
Yt	Macro region total GDP of year (x+1)	Dj	(P+D)ij-Pj				
		Gij	Yijt-Yijo				
		(P+D)ij	Yijt-(Yt/Yo)Yijo				

Source: Sjafrizal, 2012 after [15]

Klassen typology (Table 3) compares the sector growth rate of the city (ri) to the province (r) and the sector contribution of the city (si) to the province (s).



IOP Conf. Series: Earth and Environmental Science 338 (2019) 012011 doi:10.1088/1755-1315/338/1/012011

Table 3. Classification of Sector Potentialat City					
	Growth Rate (r)	ri > r	ri < r		
Contribution (s)					
si >	s	rapidly developed progressive	depressed progressive		
si < :	s	potential rapidly developing	Relatively lagged		
Source: [15]					

3. Result and Discussions

Measuring of economic resources or potential in Bengkulu City is done by calculation based on GDP (Table 4 and Table 5). LQ value equal to or greater than 1 is the leading sectors, generally in Bengkulu City is tertiary or services sector. Company service has the highest LQ, i.e. 2.98 (2011); 3.02 (2012); and 2.96 (2013). The leading sectors are expected to meet the demand from other regions from the city, stimulate to add income, and become the main driver in the regional economy.

Table 4. GDP of Bengkulu City and Bengkulu Province according t	o Business Field on the basis of Constant Prices
2010 (million rupiah)	

Business Field	Bengkulu City			Bengkulu Province			
Dubinebb 1 ieru	2011	2012	2013	2011	2012	2013	
Agricultura Forestry	077 084 4	1 007 621 6	1 034 104 6	0 734 700	10 272 000	10 687 200	
Fisheries	977,084.4	1,007,021.0	1,034,104.0	9,734,700	10,272,900	10,087,200	
Mining and excavation	19,480.4	20,461.9	20,707.4	1,245,600	1,330,700	1,357,900	
Processing industry	377,217.0	400,572.6	422,609.9	1,841,500	1,989,900	2,137,700	
Procurement electricity	8,046.4	8,724.6	9,336.8	23,300	25,600	27,300	
and gas	24 720 6	25 752 0	25.050.0	01.000	82.000	82 800	
water supply, waste	34,720.6	35,/53.9	35,850.0	81,900	83,000	83,800	
recycling							
Construction	445,074.7	484,152.3	499,682.1	1,332,200	1,451,000	1,521,000	
Wholesale and retail	1,908,210.1	2,056,926.7	2,185,574.6	4,191,400	4,479,700	4,840,500	
trade; car and							
motorcycle repairs	1 526 110 6	1 626 627 1	1 741 274 1	2 212 600	2 467 200	2 620 200	
warehousing	1,550,440.0	1,050,057.4	1,/41,2/4.1	2,312,000	2,407,500	2,030,200	
Provision of	152,527.2	164,061.3	177,115.8	413,600	446,700	481,600	
accommodation and							
drinking	701 552 0	960 611 6	026 977 6	1 212 000	1 201 000	1 411 200	
	791,332.9	800,011.0	920,877.0	1,212,000	1,301,900	1,411,200	
Financial service and	470,992.2	535,181.2	574,697.8	1,000,800	1,133,700	1,214,000	
insurance							
Real estate	521,295.5	585,089.2	632,358.5	1,291,800	1,408,600	1,517,800	
Company Service	598,470.4	657,217.0	697,112.1	632,000	682,900	738,800	
Government	681,316.8	695,958.4	750,129.4	2,511,800	2,664,700	2,882,500	
administration, defense,							
and mandatory social							
Education Service	821,783.8	845,692.9	901,816.2	1,829,700	1,946,500	2,079,200	
Health services and	209,744.9	224,343.1	235,878.6	425,600	455,200	484,300	
social activities							
Other services	103,265.2	108,314.9	111,333.7	214,700	222,900	231,500	
Total	9,657,223.1	10,327,320.5	10,956,459.1	30,295,100	32,363,000	34,326,400	

Source: [9], [10], [11], [16], [12], [13], [14], and [17] (processed)

All sectors in Bengkulu City are not specialized because value index tends to be close to 0, while a specialized sector has value index approaching or equal to 1. Company service sector which is the highest LQ has the SI of 0.0411 (2011), 0.0425 (2012), and 0.0421 (2015). Low of SI of all sectors in



IOP Conf. Series: Earth and Environmental Science 338 (2019) 012011 doi:10.108

Bengkulu City pointed out that the leading sectors based on LQ has not become development concentrations yet and not as a major tool in increasing regional economic growth. Bengkulu City is still lagging or has not been able to compete with other cities in Indonesia.

	Table 5. LQ and SI in Bengkulu City							
Business Field			LQ				SI	
	2011	2012	2013	note	2011	2012	2013	note
Agriculture, Forestry,	0.3149	0.3074	0.3032	not leading	0.2202	0.2199	0.2170	not specialized
Fisheries								
Mining and excavation	0.0491	0.0482	0.0478	not leading	0.0391	0.0391	0.0377	not specialized
Processing industry	0.6426	0.6308	0.6194	not leading	0.0217	0.0227	0.0237	not specialized
Procurement	1.0833	1.0680	1.0715	leading	0.0001	0.0001	0.0001	not specialized
electricity and gas								
Water supply, waste	1.3299	1.3499	1.3403	leading	0.0009	0.0009	0.0008	not specialized
management, waste,								
and recycling								
Construction	1.0481	1.0456	1.0293	leading	0.0021	0.0020	0.0013	not specialized
Wholesale and retail	1.4282	1.4389	1.4146	leading	0.0592	0.0608	0.0585	not specialized
trade; car and								
motorcycle repairs								
Transportation and	2.0842	2.0787	2.0741	leading	0.0828	0.0822	0.0823	not specialized
warehousing								
Provision of	1.1569	1.1509	1.1522	leading	0.0021	0.0021	0.0021	not specialized
accommodation and								
drinking								
Information and	2.0488	2.0715	2.0577	leading	0.0420	0.0431	0.0435	not specialized
communication								
Financial service and	1.4763	1.4793	1.4831	leading	0.0157	0.0168	0.0171	not specialized
insurance								
Real estate	1.2659	1.3017	1.3053	leading	0.0113	0.0131	0.0135	not specialized
Company Service	2.9706	3.0159	2.9562	leading	0.0411	0.0425	0.0421	not specialized
Government	0.8509	0.8185	0.8153	not leading	0.0124	0.0149	0.0155	not specialized
administration,								
defense, and								
mandatory social								
security	1 4000	1 2 4 1 5	1.0500		0.0045	0.0015	0.0015	
Education Service	1.4090	1.3615	1.3589	leading	0.0247	0.0217	0.0217	not specialized
Health services and	1.5460	1.5444	1.5259	leading	0.0077	0.0077	0.0074	not specialized
social activities	1 5000	1 5000	1 50/5	1 1.	0.0026	0.0026	0.0024	
Other services	1.5088	1.5228	1.5067	leading	0.0036	0.0036	0.0034	not specialized

Source: [9], [10], [11], [16], [12], [13], [14], and [17] (processed)

TI (Table 6) of total sectors are 1.761 (2011), 1.709 (2012), and 1.684 (2013). TI year 2011-2013 overall sector declined, means decreasing of disparity or inequality in Bengkulu City. Based on TI calculation, the greatest inequalities occur on the most leading sector (company service). The company service sector TI is 7.721 (2011), 7.678 (2012), and 7.386 (2013). The leading sectors are driving the regional economy, but causing inequality in the region. High inequality of company service sector demonstrates the absence of systematic management of the company service.

Table 7 shows Klassen Typology of Bengkulu City. Half of all sectors in Bengkulu City is included in category of advanced but pressured. Company service sector has higher contribution in the city than in the province but lower growth rate in the city than in the province.

Table 6. Entropy Theil Index in Bengkulu City					
Business Field	2011	2012	2013		
Agriculture, Forestry, Fisheries	0.274	0.251	0.238		
Mining and excavation	-0.027	-0.028	-0.029		
Processing industry	0.913	0.858	0.820		
Procurement electricity and gas	1.975	1.879	1.860		



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IOP Conf. Series: Earth and Environmental Science 338 (2019) 012011 doi:10

doi:10.1088/1755-1315/338/1/012011

Table 6. (Continued)					
Business Field	2011	2012	2013		
Construction	1.884	1.823	1.755		
Business Field	2011	2012	2013		
Water supply, waste management, waste, and	2.634	2.614	2.552		
recycling					
Wholesale and retail trade; car and motorcycle	2.907	2.856	2.751		
repairs					
Transportation and warehousing	4.849	4.706	4.630		
Provision of accommodation and drinking	2.167	2.090	2.063		
Information and communication	4.739	4.684	4.581		
Financial service and insurance	3.043	2.967	2.937		
Real estate	2.459	2.485	2.459		
Company Service	7.721	7.678	7.386		
Government administration, defense, and	1.393	1.275	1.248		
mandatory social security					
Education Service	2.853	2.645	2.601		
Health services and social activities	3.241	3.148	3.054		
Other services	3.135	3.088	3.001		

Source: [9], [10], [11], [16], [12], [13], [14], and [17] (processed)

Table 7	Klassen	Typolo	ov of Ber	ngkulu	City
raule /.	Klassell	I ypolog	gy UI DUI	ignuiu	City

Business Field	Bengku (2011-	ılu City -2013)	Bengkulu Province (2011-2013)		Bengkulu Province (2011-2013)		Category
	ri (%)	si (%)	r (%)	s (%)			
Agriculture, Forestry,	2.8765	9.757	4.7781	31.602	relatively underdeveloped		
Fisheries							
Mining and excavation	3.1012	0.195	4.4106	4.029	relatively underdeveloped		
Processing industry	5.8459	3.880	7.7426	6.158	relatively underdeveloped		
Procurement electricity and	7.7205	0.084	8.2439	0.078	advanced but pressured		
gas							
Water supply, waste	1.6134	0.342	1.1533	0.256	advanced and fast-growing		
management, waste, and recycling							
Construction	5.9572	4.583	6.8513	4.415	advanced but pressured		
Wholesale and retail trade; car	7.0212	19.860	7.4646	13.977	advanced but pressured		
and motorcycle repairs							
Transportation and	6.4574	15.901	6.6459	7.649	advanced but pressured		
warehousing	- - - - - - - - - -	1 500	- 000	1 20 5			
and drinking	7.7594	1.599	/.90/8	1.385	advanced but pressured		
Information and	8.2110	8.336	7.9053	4.059	advanced and fast-growing		
communication	10 4620	5 072	10 1276	2 127	advanced and fact growing		
Financial service and insurance	10.4020	5.075	0.15/0	5.427	advanced and fast growing		
Compony Somioo	7 0270	5.597	0.3931 0.1107	4.546	advanced and last-glowing		
Company Service	1.9270	0.283	0.1197	2.121	advanced but pressured		
defense and mandatory social	4.9283	0.944	1.1233	0.340	relatively underdeveloped		
security							
Education Service	4.7563	8.361	6.6002	6.049	advanced but pressured		
Health services and social	6.0470	2.162	6.6735	1.408	advanced but pressured		
activities			-		1		
Other services	3.8332	1.041	3.8388	0.690	advanced but pressured		
Source: [9] [10] [11] [16] [12] [13] [14] and [17] (processed)							

Source: [9], [10], [11], [16], [12], [13], [14], and [17] (processed)

Shift share analysis results in Table 8 show that the company service as seen from the components of the regional economic growth (Nj) is positive (Nj > 0) so that the company could be a sector which can specialize with faster growth in Bengkulu Province. Sectoral growth (Pj) has positive value (Pj > $(P_j = P_j)$)



0), so the company can grow faster and are able to specialize. The growth of regional competitiveness (Dj) is negative (Dj < 0), so that the company service sector has a weakness of low competitiveness compared to other regions. Bengkulu City will always be a city which can not compete with other cities if this condition remains exist.

Ta	Table 8. Shift-Share Components and Calculations of Company Service in Bengkulu CIty							
	Component	2011-2012 (thousand rupiah)	2012-2013 (thousand rupiah)					
	Gj	670,097,400	629,138,600					
	Gj	670,097,400	629,138,600					
	Nj	659,188,174	626,538,364					
	(P+D)j	10,909,226	2,600,236					
	(P+D)j	10,909,226	2,600,236					
	Pj	7,348,864	13,925,600					
	Dj	10,547,006	-13,902,572					
	Dj	10,547,006	-13,902,572					
	Gij	58,746,600	39,895,100					
	(P+D)ij	17,895,870	23,028					

Source: [9], [10], [11], [16], [12], [13], [14], and [17] (processed)

Company service based on LQ analysis included the mostleading sector. Although it is not specialized and has a huge disparity, shift-share analysis (Table 8) shows that the company service is growing progressively with low competitiveness. Low competitiveness shows that competitive advantage which belonged to the company service is low, though comparative advantages is high. Low competitiveness is caused by GDP growth rate of the company service in the city is slightly lower than in the province, although the contribution in the city is greater than in the province.

The relationship beteen Bengkulu City and it's hinterland is presented in Figure 1. The city seemed to be separated from the surrounding region [7]. Regencies in Bengkulu Province can be easily leaks or pulled to other provinces, including the resource within them. Bengkulu Province has the shape of an elongated region (long and narrow shape) so it is difficult to develop a land transportation, while sea transportation (Indian Ocean) is less functional. The shape of region such as elongated complicates the relation of transportation and communication so it inhibit the growth of the region [18].

Bengkulu city geographically—intraregion factor—is coastal area and lowlands, supported by a new small regency (Central Bengkulu). Bengkulu City is also supported by some rather large regencies, but tend to pulled to neighbor provinces. For example, Mukomuko can be pulled to West Sumatra and Jambi; North Bengkulu may be pulled to Jambi; Rejang Lebong, Lebong, Kepahiang, South Bengkulu, and Seluma can be pulled to South Sumatra; and Kaur can be pulled to Lampung. It is the issue of the regional development key—interregion, caused by the easy accesibility and better marketing from the regencies to neighbor provinces than in the capital of Bengkulu Province. The main road of Sumatra Island crosses the regencies close to border province border or neighbor province, not to the Bengkulu City. This condition let the Bengkulu City tends to grow in less profitable direction.

Development strategy in Bengkulu City formulated through empowerment of local potential, i.e.: (1) developing company service sector, (2) increasing the company sector service competitiveness, and (3) creating generative city relations.

The regional development key—intraregion—will work better through the development of company service sector in Bengkulu City. The city can still be stable if it obtains input or support from the hinterland or surrounding regencies. This is supported by the document of Rencana Pola Ruang (Spatial Planning of the Region) year 2012-2032 [19] that Bengkulu City is not optimally geared to agricultural areas, but directed to industries and services. Company service sector is advanced but pressured (Table 7), so it has to be supported by an advanced and fast-growing sector, such as the information and communication sector. Cities in the future developing world will be the cyber city. Cyber city is a city concept of information technology-based city [20], so the information and communication sector can support the company sector and develop other sectors.



The competitiveness of company service sector can be increased with an increase in quality value, i.e. optimization of high HDI through labor experts in the field of employment, particularly in the company service sector. An alternative to increase the competitiveness of the company service sector is increasing investment to the company service sector.



Figure 1. Location of Bengkulu City, Bengkulu Province, and Sumatera Island

The generative city relation can be realized through improving managerial capability in city development, harmonizing economic and physical aspect. Managerial capability in city development is based on the law and regional development planning, in order to enable the function of regional development key—supra region. Physical development is directed to regional connectivity system for improvement of the provincial transportation system, in order to facilitate the exchange of goods and services. The enclave relationship which is not profitable to the city will be transformed into a generative relationship. Sustainable development then can be realized. The regional development key—interregion—then can function well.

4. Conclusion and Recommendation

The most leading sector in Bengkulu City is company service. The regional economic issues in Bengkulu City can not be separated by disparity of the leading sector, not specialized leading sector, low competitive and depressed progressive of leading sector, coupled with the increasing poor population, not optimized utilization of HDI yet, and weak function of the regional development key. Development strategy in Bengkulu City formulated through empowerment of local potential, i.e.developingcompany



IOP Conf. Series: Earth and Environmental Science **338** (2019) 012011 doi:10.1088/1755-1315/338/1/012011

service sector, increasing the company setor service competitiveness, andcreating generative city relations.

Acknowledgments

The authors would like to thank the Department of Environmental Geography, Faculty of Geography, Universitas Gadjah Mada which has facilitated the research activities through excellent research grants.

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