# A Strategy to Increase the Competitiveness of Leading Industries

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### A Strategy to Increase the Competitiveness of Leading Industries in Central Java Province to Face ASEAN Economics Community 2015

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#### 1 ABSTRACT

The competitiveness of industry in the Central Java Province need to increased in view of the implementation of the ASEAN Economics Community (AEC) is getting closer. The purpose of this research are identifying leading industry in Central Java Province, knowing condition of leading industry competitiveness, and formulating strategy to improve that industry's competitiveness to face AEC 2015. Results of this research shows that leading industry in Central Java Province are beverage, tobacco processing, textile, apparel, wood, printing, furniture and other processing industry. Textile, apparel, wood, printing, and furniture industry has competitiveness, both at national and ASEAN. The strategy formulated among others S-O strategies that optimize the use of local raw materials and the appropriate technologies, W-O strategies that improve production efficiency, S-T strategy is to improve the quality of products and ensure the supply of raw materials continuously and W-T strategy is provide incentives to industry are increasing the proportion of local raw materials.

Keywords: ASEAN Economics Community, Competitiveness, Leading Industry JEL Classifications: R11, R50, R58

#### **1. INTRODUCTION**

Economics globalization require each countries to have a high competitiveness to compete with other countries. To improve global competitiveness, several countries in a region establishs a domestic economic integration. Arifin (2008) said, an agreement of integration are needed to achieve a larger market access and boost the economics growth to arise the prosperity of countries member.

According to the statement above, a countries in south east asia agreed to implement ASEAN Economics Community (AEC) in the end of 2015. AEC 2016 are expected to bring a new hopes and obstacles to Indonesia (Djaafara, 2012).

In the othe side, AEC offers a larger market access, incentive for increasing production scale and efficiency, and raising works opportunities. However, many peoples worried about the low level of Indonesian competitiveness index compare to other countries. Nowadays, AEC has been implemented. However, according to World Economic Forum (2014) and United Nations Industrial Development Organization (2010), Indonesia still under competitive comparing to ASEAN countries. Regionally, Central Java provinces has a highly potential industry scale. This indicated by domestic gross domestic product manufacturing of industry sector who placed on third rank in Java Island base on BPS measurement.

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Industry potential in Central Java Provinces supported by the increasing amount of factory during 2009-2013. However, the increasing of quantity did not followed with the performance of industrial sector. That is indicated by the the number of industrial growth that tend to decrease during that period base on Central Statistic Bureau (2008). Indonesia Federal Reserves (2008) states that regional economics performance will affecting local competitiveness. Industries is a leading sectors. That

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is prove to the nett export of Central Java Provinces who placed on the last rank in Java Island.

Djaafara (2012) state that AEC will beneficial if local industry could compete 3 ith another ASEAN countries, moreover if the target is a regional market. Therefore, it is important to create a strategies to increase the competitiveness of industry sector in Central Java Provinces. And also, it could provide an alternativesolutions to improve the competitiveness for Central Java local industries to face AEC in the beginning of 2016. Finally, the beneficial of AEC implementation will affected by all of the economic actors.

A 6 prding to the research problems, this research aims to identified a types of manufacturing industries that become a leading 3 dustries in Central Java Provinces. This research also purpose to formulate a strategy to increase the competitiveness of industry sectors. The research result are expected to conduct a strategies who can be implemented to improve the competitiveness.

#### 2. LITERATURE REVIEW

## 2.1. The Theory of Growth Pole and the Growth Centre

Perroux and Boudeville defined that the growth pole as the industrial group which can drive the economic growth of a country since the industries have the strong forward and backward linkages with the superior industry. They said that the industry group tend to choose the centralized location in the big cities which is supported by the strong hinterland 12. The growth pole, the city centre and the development axis are the main type of concentration pole (Vinuela-Jimenez et al., 2010).

Perroux (1970) said that the economic growth would not appear in various areas in the same time. The growth only happens in several places which is calles the growth center. The theory of the growth centre is in the development process, there will be a leading industry which can be the main driver of regional economic development. Since the linkage among industries is tight so the development of the leading industry will affect the development of other industries which have the close relationship with it.

The theory of growth pole also states that the centralized industry in a region will accelerate the economic growth. The centralized industries will makes the different consumption pattern among regions. Therefore, the industry development in a region will affect the development of other regions.

This theory also states that the economy is the combination of active industrial system (leading industry) and passive industry (the industry which depends on the leading industry or the growth pole). The developed and active region will actively affect the passive regions.

The growth pole will make the trickling down and polarization effects on an economic growth. These effects were found by Hirschman (1958). He argued that the disimilarity potential of natural resources among regions will make the each region grow

heterogenity. To grow faster, a country needs to choose one or more economic growth centres which have the strongest potencies.

If the strong regions grow up, it will influence the weak regions. This growth spread will affect positively (trickling down effect), i.e., the strong development and give more jobs/employment in weak regions. Then, the weak region can produce the complementry product of the strong region's products. Whereas; the negative effect (polarization effect) happens if the production activities in the strong region are competitive with the same product produced in the weak region, which actually needs the guidance.

#### 2.2. Economics Base Theory

The theory states that economic growth in a region depends on its ability to export the goods or services. North (1975) in Temenggung (1999) argued that the regional economic growth in long-term depends on its export industry. The main power of regional growth is the demand of produced and exported good and services. The demand from the outside will affect the using of capital, labour and technology to produce the export commodity. So, it will create the economic backward or forward linkages.

Hoover (1984) stated that the growth of several base sectors could decide the comprehensive regional economic growth, whereas; the non-base sectors only became the consequences of regional development. The base sectors commodities which are exported will give the regional income and increase the consumption and investment. The increasing income does not only make the demand increase on the base sectors but also demand increase on non-base sectors which consequently push the non-base sectors investment. The using of economic base theory on this study is intended to identify the development sectors either on base or non-base sectors in a region.

#### **3. DATA AND ESTIMATION TECHNIQUE**

#### 3.1. Data

The data compilation method in this research is a literature review. This method used to compile a secondary data such quantitative and qualitative information. This research also set an interview session to guess the external and internal factors that affecting towards leading industries in Central Java Province.

#### 3.2. Estimation Technique

One of the analysis method is location quotient and shift share. These analysis needs to decide the leading industries. Then, revealed comparative advantage (RCA) analysis that used to know the competitiveness each industries for facing AEC. And finally, strengths, weaknesses opportunities, threat (SWOT) analysis will complete this research to arrange an strategies to increase the competitiveness of industry sector in AEC era.

#### 4. EMPIRICAL RESULT

#### 4.1. SWOT Anyalisis

Rangkuti (2009) states that SWOT analysis is an identification of various factors systematically. This analysis base on the strategy to optimize strengths and opportunities. And in the same time it tries

to minimize weaknesses and threats. This analysis needs SWOT matrix and these matrix could provide four strategy possibilities. The Figure 1 tells the SWOT matrix regarding to the research.

#### 4.2. Result

An industries will become a leading sectors if it have a competitive and comparative advantages. If the static location quotient and dynamic locationa quotient >1, it means that sector has a comparative advantages. While competitive advantages had showed with  $C_{ii}$  that is worth positive.

Figure 1: Strengths, weaknesses opportunities, threat matrix

	······································	,
IFAS	STRENGTHS (S)	WEAKNESS (W)
	Decide the	Decide the
EFAS	strength of	weaknesses of
	internal factors	3 ernal factors
7PPORTUNITIES (O)	STRATEGY S-O	STRATEGY W-O
Decide 5-10	Create a	Create a strategies
opportunities factors	strategies using	to minimize
	the strengths	weaknesses and
	to utilize the	to utilize an
	(13) ortunities	opportunities
THREATS (T)	STRATEGY S-T	3 RATEGY W-T
Decide 5-10	Create a	Create a strategy
opportunities factors	strategies using	to minimize
	the strengths to	weaknesses and
	overcome the	avoid threats
	threats	

According to the analysis in Table 1, it concluded that the leading sector in Central Java Province is a beverages, tobacco manufacturing, textile, clothing, wood, printing, furniture and others manufacturing. Kusumantoro (2009) states the most active of industry activities in Central Java is food and beverages, textile, wood and chemical. In addition, the local government also classify textile industry and furniture as a claim sectors in Central Java Provinces in accordance with the industrial ministry rules No. 146/M-IND/PER/12/2012.

#### 4.3. The Analysis of Leading Industry in Central Java Province to Face AEC 2016

The competitiveness of leading industry in Central Java Provinces could be seen base on the competitiveness in national and ASEAN level. In addition to compete with other provinces in Indonesia, the leading industries in Central Java also compete with similar industries from ASEAN countries in AEC 2016.

Figure 2 explains the beverages industry has a competitiveness in the national level. It shows with the RCA averages point that more than 1. The competitiveness also became stronger that characterized by RCA index who tend to increase. However, in the ASEAN level, the industry could not compete because the RCA point is <1. The competitiveness in the ASEAN level also tend to decrease slightly due to the downward of RCA point.

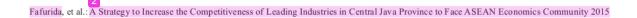
Tobacco industry does not has a competitiveness in national and ASEAN level because the RCA averages is <1 in accordance to the Figure 3. However, the competitiveness tend to increase sharply in national and ASEAN level, due to the RCA index that tend to arise.

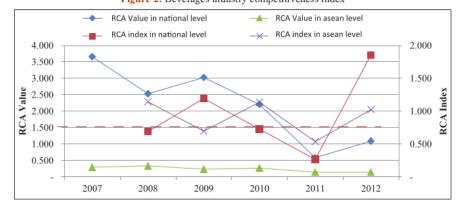
Source: Rangkuti (2009)

## Table 1: The comparation between location quotient and shift share analysis of industry in Central Java Provinces from2007 to 2012

Code KBLI	Type of industry	Average of SLQ	DLQ	C <sub>ii</sub>	Criteria
10	Food industry	0.699	0.570	-1,612,706,195,560	Not superior
11	Beverages industry	1.476	1.252	48,339,645,032	Superior
12	Tobacco manufacturing industry	5.214	1.085	861,012,633,923	Superior
13	Textile industry	3.552	1.233	954,075,888,316	Superior
14	Clothing industry	1.797	1.079	142,367,610,862	Superior
15	Leather and socks industry	0.226	1.126	23,514,069,328	Not superior
16	Wood industry	2.556	2.390	851,809,413,283	Superior
17	Paper industry	0.325	0.947	4,758,585,279	Not superior
18	Printing industry	1.199	2.273	175,420,225,254	Superior
19	Coal and oil industry	0.217	0.155	-29,388,215,168	Not superior
20	Chemical industry	0.280	0.459	-584,586,753,612	Not superior
21	Pharmacy industry	0.920	1.117	71,018,065,177	Not superior
22	Rubber and plactic industry	0.569	0.953	28,650,993,708	Not superior
23	Mining exclude metal industry	0.821	1.215	152,274,097,833	Not superior
24	Basic metal industry	0.365	0.952	7,180,029,181	Not superior
25	Metal exclude machine industry	0.261	1.313	60,497,673,295	Not superior
26	Computer, electronics and optic	0.239	1.196	31,216,170,154	Not superior
27	Electrical equipment industry	0.104	0.636	-44,213,397,956	Not superior
28	Machine and equipment industry	0.555	0.190	-265,582,967,243	Not superior
29	Motoric vehicle industry	0.158	2.588	115,455,434,768	Not superior
30	Others vehicle industry	0.194	1.135	26,611,500,080	Not superior
31	Furniture industry	3.063	1.126	95,391,705,941	Superior
32	Others manufacture industry	1.090	2.511	138,858,428,280	Superior
33	Machine setting and reparation services	0.791	0.504	-28,409,718,930	Not superior

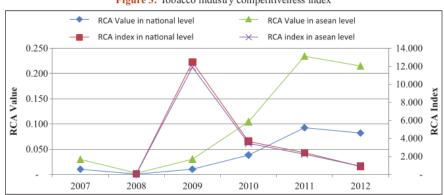
Source: Central Statistic Bureau of Central Java and Indonesia (2007-2012), data processed. SLQ: Static location quotient, DLQ: Dynamic locationa quotient





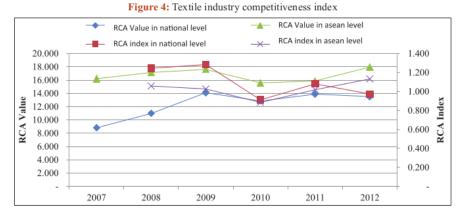


Source: Central Java Central Statistic Bureau (2007-2012) and UN Comtrade Database, the data processed by researcher





Source: Central Java Central Statistic Bureau (2007-2012) and UN Comtrade Database, the data processed by researcher

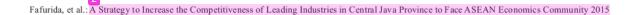


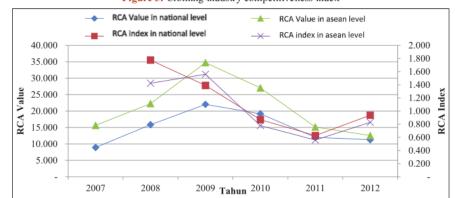
Source: Central Java Central Statistic Bureau (2007-2012) and UN Comtrade Database, the data processed by researcher

Base on the Figure 4, a textile industry in Central Java has a competitiveness in national level, even in ASEAN level. Therefore, in ASEAN the competitiveness tend to increase because the strengthen of RCA index. However, the competitiveness has nationally decreasing.

Then the Figure 5 explains the clothing industry performance in Central Java. Actually, clothing industry has a competitiveness nationally and in ASEAN level due to the RCA point that more than 1. Unfortunately, the competitiveness has slightly decreasing. That condition shows by the RCA index that often decrease in the last 4 years.

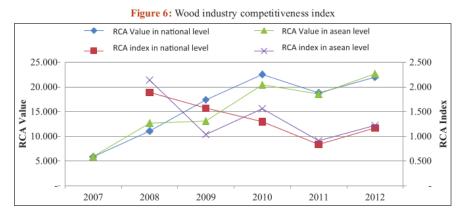
The competitiveness of wood industry had a same condition with clothing industry. It shows at Figure 6. Actually, wood industry has a competitiveness nationally and in ASEAN level due to the RCA



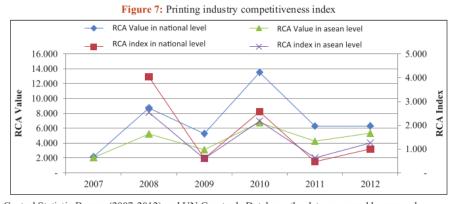




Source: Central Java Central Statistic Bureau (2007-2012) and UN Comtrade Database, the data processed by researcher



Source: Central Java Central Statistic Bureau (2007-2012) and UN Comtrade Database, the data processed by researcher



Source: Central Java Central Statistic Bureau (2007-2012) and UN Comtrade Database, the data processed by researcher

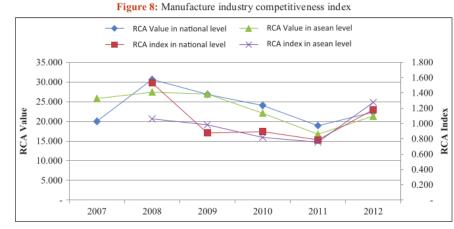
point that more than 1. However, the competitiveness has slightly decreasing. That condition shows by the downward of RCA index.

According to the Figure 7, Printing industry competitiveness had a same condition with clothing and wood industry. These industry has a competitiveness nationally and in ASEAN level due to the RCA point that more than 1. However, the competitiveness has slightly decreasing. That condition shows by the downward of RCA index. Furniture industry is a one of the biggest industry in Central Java Provinces. The data shows in Figure 8 above. These industry has a competitiveness nationally and at ASEAN level. It shows with the RCA point that more than 1. In ASEAN, the competitiveness are strengthen cause the RCA index are increasing. However, the different condition just happen nationally. The competitiveness index of furniture industry decreased slightly.

#### 4.4. The Analysis of Strategy to Increase the Leding

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Source: Central Java Central Statistic Bureau (2007-2012) and UN Comtrade Database, the data processed by researcher

Figure 9: The analysis of strategy matrix to increase the leding industry competitiveness in Central Java Provinces to Face ASEAN Economics

Community 2016

11	Community 2016	
Internal factors	Strengths (S)	Weakness (W)
External factors		
	<ol> <li>Supporting from financial institution towards production sectors</li> <li>Already improve the infrastructure facility</li> <li>The product has guaranteed by Indonesian national standard</li> <li>One stop services.</li> <li>Good economics climate</li> <li>An opportunity for a brand new industries to enter the market</li> <li>A large number of raw material but have not been maximize</li> <li>Government incentive towards textile industries to upgrade the technology</li> <li>Human capital training program</li> <li>Certified to legalize the wood as a raw material</li> <li>Have the biggest wood industries</li> </ol>	0.00
6	11. Have the biggest wood industries	12. Low quality of human resources
Opportunities (O)	Strategi S-O	Strategi W-O
<ol> <li>Large of market potential</li> <li>No tariff obstacles</li> <li>Online export services</li> <li>Laboratory references for food and beverages in Asean level</li> <li>Involved at the fair in region and overseas to promote local product</li> <li>A prohibition of raw wood export</li> <li>In several part of industries already operating a high technology</li> <li>A big potential of wood as a raw material</li> <li>A new central park of industry had been established</li> <li>A leve 10 will a natural gas station to fulfil the electricity</li> </ol>	<ol> <li>Guaranteeing all of food ad beverages laboratory test in Asean level</li> <li>Improve the quality of one window sevices to increase the brand new industry</li> <li>Utilize online media to boost import</li> <li>Promotion strategy</li> <li>Control the stock at warehouse</li> <li>Make a cooperation and agreement between industries with human resources supplier</li> <li>Optimizing wood materials to make a creative handycraft</li> <li>Implement the applied technology</li> </ol>	<ol> <li>Repair the port infrastructure</li> <li>Cut the supply chain to optimizing the distribution line</li> <li>Improve the production efficiency</li> <li>Launch a consistent regulation to make sure the market certainly</li> <li>Improve education quality to boost the human resources ability</li> </ol>
Threats (T)	Strategy S-T	Strategy W-T
<ol> <li>A large numbers of competitor</li> <li>A better quality product of competitor countries</li> <li>The competitors price is cheaper due to not rely on raw materials import</li> <li>The logistic cost for competitors is cheaper</li> <li>The quality standard of import purpose country is higher</li> <li>The damaged forest issues due to deforestation</li> <li>More competency of Asean labour than local</li> <li>A stigma from international market that Indonesian wood industry uses illegal wood as a raw material</li> <li>Local people prefer to consump an import product</li> </ol>	<ol> <li>Increase the product quality</li> <li>Make a research and development to maximize agriculture commodity as a good quality of raw material.</li> <li>Improve a partmership between farmers and industries</li> <li>Product diversification</li> <li>Upgrade the machines</li> <li>Guaranteeing the SVLA implementation to boost the wood industry</li> <li>Socialization towards society to use a local product</li> <li>Make it sure the raw material supply</li> </ol>	<ol> <li>Maps the logistic needs</li> <li>Learnt the the others country to downgrade the logistic price</li> <li>Gives an incentive to the import substitution industries</li> <li>Gives an incentives to the industry that uses local raw materials</li> <li>Gives an incentives to the industry that implement research and development</li> <li>Train the employers to increase their productivity</li> </ol>

Source: Interview and literature studies, the data processed by researcher

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## Industry Competitiveness in Central Java Provinces to Face AEC 2016

A strategy to increase the leading sectors industry to face AEC arranged by internal and external findings that obtained from the **3**-carch. The strategies formulated in SWOT matrix that combined the internal and external factors.

Base on the SWOT matrix in the Figure 9 above. There is a four of possibilities strategies that possibly implemented to increase the competitiveness of leading industry in Central Java. The strategies has choosen in accordance with the condition of each industries.

#### **5. CONCLUSION**

According to the research, a leading Industries in Central Java provinces is beverages, tobacco, textile, clothing, wood, printing, furniture and others manufacturing industries. A textile, clothing, wood, printing and furniture have a competitiveness in ASEAN level. Beverages industry has a competitiveness in national level. However, its industry does not compete in ASEAN level. While tobacco industry does not compete in national and ASEAN level. The competitiveness level of almost leading industries are decrease slightly.

The strategy formulation such S-O strategy i.e., optimizing local raw materials and applied technology. W-O strategy i.e. increase the production efficiency and improve the education quality. S-T i.e., increase the product quality and make sure the supply of raw materials. And W-T strategies i.e., maps the logistic facilities and increase the local material proportion.

Regarding to the research result, there are several recommendation i.e., (1) focuss on the development of leading industries. However, non-leading industries should be improved, (2) maintain the leading industries performances that already has a competitiveness in the other side, the government should support the less competitiveness industries to has a competitiveness in the future, (3) improve the quality product, and (4) use an update data for the next research and use more complex data analysis for the better quality of research.

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