The impact of Indonesia's decentralized education on vocational skills and economic improvement of students

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The impact of Indonesia's decentralized education on vocational skills and economic improvement of students

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ABSTRACT
This research aims to evaluate the impact of education decentralization through the local curriculum in improving senior secondary school students' vocational and economic skills. This research uses a mixed methods approach with a sequential exploratory design. This design applied a qualitative approach followed by a quantitative approach. Data collection with the qualitative approach used in-depth interviews, while the quantitative approach used questionnaires and documentation of practical exam results. The participants in the qualitative approach were the vice principal and the traditional cookery subject teacher. The sample in the quantitative approach was students who took traditional cookery subjects. Qualitative data analysis used the Miles and Huberman formula, namely data display, data reduction, and conclusions, while quantitative data analysis used descriptive quantitative and MANOVA. The results showed that the impact of decentralization through the local content curriculum on improving students' vocational and economic skills was in the "good" category. The impact of decentralizing education through the local curriculum can reduce the dropout rate of poor students. MANOVA results showed no difference in the impact of the local curriculum on vocational skills across the six schools. However, there is a significant difference in the impact of the local curriculum on students' economic improvement in the six schools.

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INTRODUCTION

Changes in the education system through decentralized education policies have an impact on schools in general. This policy is part of the central government's attention to the province to improve the economy, culture, and tourism. The government hand over the education management to the provincial government to preserve the culture and grow the economy. The result of this policy is the creation of economic improvement through the development of regional culture whose subject and object are the school. Schools that run curriculum changes are required to innovate in implementing the curriculum developed provincial government (Macdonald, 2003; Mukminin et al., 2019). In addition, the transformation of the education system through a decentralized policy commissioned local governments to develop regional-level curricula. The objective of this policy is for local governments to improve their regions and the economy of the regional culture. The government conducts needs assessments as a basis for developing the curriculum. But so far, there has been no effort to evaluate the impact of decentralized education through local curricula on the development of vocational skills and student economics.

The curriculum development should recognize the concepts, fundamental principles, characteristics and approaches used to consider. This step requires defining the expected learning outcomes, learning strategies, and adequate facilities to achieve satisfactory student learning outcomes (Abate et al., 2003; Ruhyana & Aeni, 2019). Curriculum development begins with a needs assessment. The local government should consider the needs assessment importance to determine instructional material at schools (Grier, 2005; Raksanakorn et al., 2020). Needs assessment is essential to develop a contextual curriculum, and it is necessary to design the curriculum based on the needs (Bosher & Smalkoski, 2002). The evaluation will identify student needs, describe the resources of the target situation, and conduct a specific effort as the basis for curriculum development (Kaya, 2021). The needs assessment can be organized by conducting in-depth interviews on subjects who will implement the curriculum. The results of the needs analysis provide a contextual understanding of the curriculum (Rutakumwa et al., 2020).

Needs assessment is conducted in every region in Indonesia to develop a local curriculum. In particular, the Riau province government analyzed potential areas that could be improved through education and implemented in the classroom or the laboratory. This policy is challenging to be done by schools because schools need to be creative and innovative in implementing the local curriculum. Schools are assigned to prepare facilities and infrastructure to implement the curriculum. Curriculum development and changes impact increasing support levels to improve school quality (Hallinger & Heck, 2011). Implementing the curriculum requires the support of all elements (Ransford et al., 2009). Achieving efficiency in curriculum development and implementation needs maximum help (Austenfeld, 2009). Supporting the curriculum can provide convenience for the teachers in the curriculum implementation and make them responsible for learning success (Burstein et al., 2014). Identifying support for curriculum implementation significantly impacts success in education (Johnston et al., 2007; Spreen & Knapczyk, 2017).

The development of the local curriculum is designed in such a way that the region is able to maintain its culture and uniqueness of the region through education. The local curriculum is designed as a control curriculum that can assist the national curriculum in realizing the national vision of the region (Mølstad, 2015). The local curriculum can raise the awareness of parents, students, and teachers in maintaining existing cultural values (Dube & Tsotetsi, 2019). The local curriculum is the most effective way of managing or preserving the cultural values of a region. In addition, the most important objective is that local curricula help local governments realize the regional vision by strengthening students' knowledge of their own culture (Prastiwi, 2013) in the form of vocational and economic skills of students. Many studies have been conducted on vocational skills and local culture, such as Andrian et al. (2018), Hadi et al. (2019), Seaman and Cannella-Malone (2016), and many more. However, research has not yet measured the real impact of vocational skills on economic improvement.

In particular, the province of Riau utilizes the policy of decentralized education with the development of a local curriculum, which is designed with attention to the superiority of the area and implemented in the learning process. One of them is developing local content in the form of
traditional cuisine into the curriculum. Traditional cuisine is reinforced in schools to enhance vocational skills and knowledge of local culture and improve students' economics through entrepreneurial activities undertaken in schools. Based on this policy, evaluating the impact of implementing education decentralization through the local curriculum on vocational skills and students' economic development is necessary.

Related Work

Decentralisation of education through local curriculum development

Decentralization is the transfer of power from the center to the regions. Decentralization of education is usually a manifestation of political and administrative decentralization (Meemar, 2018). Decentralization in education profoundly affects social life and nation-building (du Plessis, 2020; Sri Rezeki et al., 2021). Schools act as isolated social and cultural institutions in a centralized or deconcentrated system. They only run everything the central government sets (Luengo et al., 2005). In addition, decentralization has shifted responsibility for carrying out adequate educational tasks without being matched by the provision of comparable labor resources (Geo-JaJa, 2006). Local government authorities have the independent power to make policy on their educational expertise and the development of local education (Jeong et al., 2017).

Cunningham (2002) suggests that the personnel assigned to manage education are the local government within the education authority. Meanwhile, according to Yazdi (2013), transforming centralized systems into decentralized ones does not necessarily mean that education and curriculum quality will automatically increase or that the curriculum planning system will be efficient due to decentralization. In addition, decentralization improves centralized management structures and practices often used in education, allowing teachers to increase their authority in curriculum and teaching (Rahman, 2019).

Implementing decentralization, indicating an increase in institutional autonomy, such as provisions that increase the percentage of institutional-controlled curricula from 40 to 70%, gives the flexibility to develop new curricula (Hartley et al., 2016). School autonomy does not only mean giving more school decision-making power, but it requires recognition of the primary role of parents and all social actors associated with the school through various forms of participation in the management of educational activities, whether in the form of direct management or parental involvement and stakeholders in management school. The reasons for the decentralization of education are very suitable for the condition of Indonesia, namely: (1) redistribution of political power, (2) improvement of education quality, and (3) improvement of innovation in order to satisfy the expectations of all citizens (Paletta, 2014).

The objectives of the decentralization education process are improving the efficiency and performance of educational institutions at the central and regional levels and the school level, democratization of the education system, ensuring transparency and access to education, improving the relevance of educational services to all children and students; stimulating innovation, professional responsibility, and accountability (Diem et al., 2018; Panagoret et al., 2014). Decentralized education provides more autonomy to schools for curricular drafting. It enables content-curricular diversity. Some schools may choose not to teach the required subjects. Other schools may choose to change the time allocations of the course or rearrange the syllabus and the content of school subjects by considering the students' abilities (Benavot & Resh, 2003).

The Role of Vocational Skills Development in Economic Improvement

Studies related to the role of education in economic development have been widely adopted, and it is agreed that education contributes more to economic growth than investment in other areas (Becker et al., 2017; Psacharopoulos, 1997). Also, training and development of vocational skills are some of the most critical components in improving the quality of human resources through education. In the context of technological capacity in society, economic development and technological progress are only achievable with the general status of technical and vocational competence embodied in its workforce. According to Becker et al. (2017) and Mincer (1974), vocational and skill development have been considered major human resource factors. An Individual requires lifetime earnings for
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these factors and finds indirectly the positive benefits. Additionally, according to Booth et al. (1996), professional training and skills development enable humans to be more productive and increase their incomes, aiding economic expansion.

The study conducted by the Directorate of Vocational High School Development in Indonesia Joesoef et al. (2016) concluded that there is a definite relationship between the ratio of vocational high school students and gross regional domestic product (GRDP). A province with a low vocational-student ratio will likely have a small GRDP value. The findings, on the other hand, indicated a definite relationship between the vocational students ratio and the economic growth rate. If the province has a low vocational-student ratio, it tends to have a small proportion of economic growth. In other words, vocational skills have a significant direct impact on the labor market and then on regional economic growth.

In line with this, the The Asian Development Bank (ADB) (2009) reported that the higher the state income level, the higher the proportion of students enrolled in vocational education institutions (TVET). Conversely, according to Amjad et al. (2005), skills development and vocational training affect national products and competitiveness. He concluded that an educated and skilled workforce helps countries in the labor-intensive economy transform into intensive skills. Skills development and vocational training affect national products and competitiveness. He concluded that an educated and skilled workforce helps countries transform labor-intensive economies into intensive skills.

The higher the GDP per capita, the higher the Technical/Vocational Registration (PTVE) percentage. Where PTVE is "the number of students enrolled in technical/vocational programs at a certain level of education as a percentage of students enrolled in all (technical/vocational and general) programs at that level (UNESCO Institute for Statistics (UIS), 2006). Yana et al. (2021) states that education and training that are technical, vocational, and democratic can encourage socio-economic prosperity and progress in rural areas. He even noted that primary education should efficiently provide technical knowledge to rural youth. It concludes that vocational education development and training can be encouraged to improve the economy and labor productivity (Esmond & Atkins, 2020; Igberaharha, 2021; Kurosaki & Khan, 2006; Mankiw et al., 1992; Solow, 1956).

Evaluation

Several definitions of evaluation imply a systematic process to assess whether a program is working as expected. Evaluation is the determination of the value of an object that includes obtaining information used to assess the outcomes of a program (Adom et al., 2020; Worthen & Sanders, 1973). According to Miller et al. (2013), evaluation is a systematic process of collecting, analyzing, and interpreting data from measurement and assessment processes to determine the extent to which students have achieved learning objectives. Evaluation is a process for describing, obtaining, and providing information to assess decision alternatives (Mehrens & Lehmann, 1978). Evaluation is a process that requires support from all elements. In education, evaluation involves students, teachers, principals, communities, education offices, and even ministers of education (Hood & Hopson, 2008). These definitions of the evaluation indicate that evaluating a program in the educational, economic, social, political, and cultural spheres requires support from the parties involved. In other words, with the help of these parties, evaluation activities will be smooth and easy to complete.

The results of evaluation activities will illustrate the shortcomings and strengths of the implemented learning education program so that the existence of these shortcomings and strengths can help schools consider what to do next. Learning methods, student satisfaction in learning, and student learning outcomes need to be evaluated (Zedda et al., 2017). Evaluation activities can determine how successful an education program is and serve as a recommendation for program improvement and the success of program providers (Spaulding, 2013). Evaluation can be a component to criticize and improve the education process (Lindahl & Beach, 2013).
RESEARCH METHOD

This research is a mixed-methods evaluation study with an Exploratory Sequential Design (Creswell & Clark, 2011). The research first started with qualitative research with a Phenomenological approach and was further explored with quantitative analysis with survey and ex post facto methods. The evaluation research with a mixed research approach provided comprehensive research findings. This research combines quantitative and qualitative methods to obtain complete or comprehensive data to obtain correct conclusions about the effect of the local content curriculum in improving vocational skills and the economic improvement of students. To clarify the steps in this research, it is necessary to develop a hypothesis for quantitative research. Can the local curriculum improve vocational skills and improve students' economy?

Sample and Sampling Technique

Qualitative research with a phenomenological approach used four principals, eight deputy principals, and eight vocational skills teachers. The survey and ex post facto research used a sample of secondary school students in Riau Province. The qualitative research sample used a purposive technique where the research sought participants who thoroughly understood the implementation of vocational skills learning in the curriculum. The quantitative research sample technique also used purposive sampling, which took all eligible students in high schools to be respondents, namely students who implemented the local content curriculum directly in the area. In this research, six schools were used as respondents, namely SHS 1 = 156 students, SHS 2 = 68 students, SHS 3 = 66 students, SHS 4 = 127 students, SHS 5 = 38 students, SHS 6 = 110 students.

Instrument

A qualitative research instrument with a phenomenology approach is an interview guide. Researchers conducted in-depth interviews with participants who deeply understood the vocational skills in the local curriculum. Instruments tools used in quantitative research are questionnaires and checklists. The questionnaire consisted of 23 items, with 14 items for information about students' vocational skills and nine items for information about students' economic improvement after following the local curriculum. The checklist was used to observe the increase in students' vocational skills and economic improvement over two months. Ten items are for observing vocational abilities, and eight items are for economic improvement.

Research Procedure

This research was conducted in two stages. The first phase interviewed six principals, vice principals, and vocational teachers with 24 participants. This interview activity described in-depth information about implementing the local curriculum through vocational subjects. The second step was to conduct observations using a checklist to see how the local curriculum can improve vocational skills and economic improvement. Observations were conducted for two months to see if there was an increase in vocational skills and economic improvement from the beginning of the student's participation until they successfully mastered the local curriculum. The third step was distributing questionnaires to all students who followed the local curriculum through vocational subjects with 565 respondents. The third step distributed the questionnaires to obtain information on the evaluation categories and compare the best schools implementing the local curriculum.

Data Analysis

Qualitative data were analyzed using Miles and Huberman's (1994) phenomenological technique. Data analysis was conducted through three steps, namely display, data reduction, and conclusion drawing. Quantitative data results were analyzed using descriptive analysis and MANOVA. The quantitative research described the evaluation categories and compared the vocational skills and economic improvement of students from the six schools according to the location determined in this research.
Validity and Reliability of Instrument

Two evaluation experts, one measurement expert, and eight educational practitioners validated this study’s 23 questionnaire items and 19 checklists. The results of expert validation of the questionnaires and checklists were analyzed using Aiken's Formula. Analysis of the questionnaire resulted in 21 valid items (twelve vocational skills improvement variables and nine student economic improvement items). The checklist analysis resulted in 8 valid vocational skills items and seven economic improvement items. It was concluded that the items were validated and appropriate for the study. One hundred eighty students were tested with the questionnaire for further validation to obtain empirical data. The empirical tests were analyzed using confirmatory factor analysis. The results showed that the questionnaires and checklists distributed had loading factor values > 0.5 or were considered valid. The reliability of quantitative instruments was analyzed using Cronbach's Alpha. From the analysis, the coefficient values were 0.958 and 0.873, so it was concluded that the instruments developed were reliable and could be used to collect data in the field.

FINDINGS AND DISCUSSION

Findings

Qualitative Descriptive

The in-depth interviews with the vice-principal of the curriculum section implied that SHS had implemented the local curriculum maximally. The local school curriculum had a maximum positive impact on students' vocational skills and economic improvement. Regarding vocational skills, the local curriculum positively affected the ability to obtain vocational qualifications. Students who learned to cook traditional cuisine could practice directly and could improve vocational skills facilitated there. The interview with one of the teachers is suggested as follows.

"The local curriculum that applies traditional cuisine learning can improve vocational skills. The local curriculum that prioritizes the practice activities of the theory can train students how to cook properly so that it can be useful when students have completed their study".

Vocational skills in the form of practical learning could create creative and efficient students. With the science of vocational skills acquired in schools, students could utilize them at home or a particular moment. Practical education could improve technical skills and contribute to students developing job skills. Students who took part in the weekly practice of learning could improve the students' vocational skills. Students could create tasty and varied dishes. One of the teachers stated: "The students' ability is getting better from week to week. The traditional cuisine is good to eat. They are always looking for a new cuisine that can be practiced for the next lesson so that the types of cuisine cooked by students vary".

Regarding economic improvements, local curricula developed by local governments positively impacted students' financial development. The learning activities of vocational skills of traditional cuisine produced saleable products and became a source of student economy. The interview with the conventional cuisine teacher suggests the following:

"The students produced traditional cuisine, and they sold it to get much profit. Students were happy because they got much money from the sale. They shared the profits with other students and saved some money for further practice."

The students directly marketed the traditional cuisine in three ways product marketing. They sold it in person, markets, and bazaars (see Table 1). The interviews with the teachers were suggested as follows.

"In-person sales are done by directly meeting students, teachers, and staff to offer products. Sales in the market put the products in the market or the school canteen. Schools work closely with the canteen to market student products from traditional cuisine practice learning. Selling in bazaars is done by making bazaars at schools, events created by schools, local governments, and celebrations. Schools make bazaars on specific occasions, such as national holidays, school..."
anniversaries, and religious holidays. The school asked the local government for a bazaar or exhibition schedule”.

Table 1. Successful Opportunities in Product Marketing

<table>
<thead>
<tr>
<th>How Marketing System</th>
<th>SHS1</th>
<th>SHS2</th>
<th>SHS3</th>
<th>SHS4</th>
<th>SHS5</th>
<th>SHS6</th>
<th>Ranking of Successful Marketing Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Face to Face</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>4</td>
</tr>
<tr>
<td>Canteen/Restaurant</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>3</td>
</tr>
<tr>
<td>Bazaar at School or Other Place</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>2</td>
</tr>
<tr>
<td>Government Expo</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>1</td>
</tr>
</tbody>
</table>

The best product marketing is through direct sales (face to face) to students, teachers, and school staff, as the vice principal story says:

"The products in traditional dishes are sold directly to students, teachers, and school staff with great benefits. Students directly offer sales products to students, teachers, and staff when breaking learning time. They are happy to buy traditional cuisine from students so that the product can be quickly sold”.

Marketing of the second-ranked product is by selling or putting the product into the school canteen. The products sold through the school canteen cannot directly gain profit as it has to wait for the canteen to close in the afternoon like what the teachers say;

"Selling through the canteen takes a long time with a small profit because there is a lot of traditional and modern cuisine in the cafeteria. Also, the canteen will deduct 10% of the profit earned from the sale. The canteen cannot market student products like pace to pace sales, because they also sell other food products. Not all students come to the canteen to buy food because they have brought food from homemade by their parents ".

The third marketing is through the bazaar. Marketing of products through the bazaar tends to be weaker than face-to-face and sales through the canteen. The monthly bazaar minimizes the frequency of purchases or sales. Traditional cuisine teachers stated:

"Marketing of products through bazaars by schools every month or at a particular moment is not as good as through face to face and through the canteen, because the time to market old products and when there is a bazaar can only sell the product for 3-5 hours”.

Practical learning of traditional cuisine, marketing it, and managing it well can reduce the number of students who drop out of school. One teacher stated:

"Learning of traditional cuisine practices should be developed and managed well, as this learning contributes to students' achievement and money, especially with poor backgrounds. Poor students can use the money from product marketing to pay for tuition and other needs ".

Based on the explanation above, the local curriculum significantly contributes to improving students' vocational skills and improving the economy of poor students. Students' vocational skills make students dare to be entrepreneurs to help the family economy. The skills possessed through the local curriculum provide enormous benefits for developing student character so that students can maximize the local curriculum by opening up entrepreneurial opportunities at local and national events. Through the local curriculum, students maximize their free time and entrepreneurial abilities by selling in markets and places where many people do activities.

Quantitative Descriptive

Descriptive quantitative describes the mean, standard deviation, and evaluation results of local curriculum impact on improving vocational skills and student economics based on data obtained in the field. The descriptive results are converted into the proposed conversion table in Table 2 (Mardapi, 2015).
Table 2. Conversion Table of Evaluation Results

<table>
<thead>
<tr>
<th>Range Vocational Skill Evaluation</th>
<th>Range Economic Improvement Evaluation</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 46</td>
<td>&gt; 23</td>
<td>Very Good</td>
</tr>
<tr>
<td>34 - 46</td>
<td>18 - 23</td>
<td>Good</td>
</tr>
<tr>
<td>26 - 34</td>
<td>13 - 18</td>
<td>Not Good</td>
</tr>
<tr>
<td>&gt; 25</td>
<td>&gt; 13</td>
<td>Very Not Good</td>
</tr>
</tbody>
</table>

Table 3. The Result of Descriptive Statistics and evaluation of Skill Vocational and Economy Improvement

<table>
<thead>
<tr>
<th>Variable</th>
<th>School</th>
<th>Mean</th>
<th>Std. Deviation</th>
<th>N</th>
<th>Evaluation Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skill</td>
<td>Senior High School 1</td>
<td>33.8397</td>
<td>8.42155</td>
<td>156</td>
<td>Good</td>
</tr>
<tr>
<td></td>
<td>Senior High School 2</td>
<td>35.2941</td>
<td>9.40793</td>
<td>68</td>
<td>Good</td>
</tr>
<tr>
<td></td>
<td>Senior High School 3</td>
<td>34.6364</td>
<td>8.42457</td>
<td>66</td>
<td>Good</td>
</tr>
<tr>
<td></td>
<td>Senior High School 4</td>
<td>34.3465</td>
<td>8.06460</td>
<td>127</td>
<td>Good</td>
</tr>
<tr>
<td></td>
<td>Senior High School 5</td>
<td>34.5263</td>
<td>8.55740</td>
<td>38</td>
<td>Good</td>
</tr>
<tr>
<td></td>
<td>Senior High School 6</td>
<td>34.7364</td>
<td>8.32227</td>
<td>110</td>
<td>Good</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>34.4425</td>
<td>8.43303</td>
<td>565</td>
<td>Good</td>
</tr>
<tr>
<td>Economy</td>
<td>Senior High School 1</td>
<td>20.8718</td>
<td>1.99262</td>
<td>156</td>
<td>Good</td>
</tr>
<tr>
<td></td>
<td>Senior High School 2</td>
<td>17.5882</td>
<td>2.55819</td>
<td>68</td>
<td>Not Good</td>
</tr>
<tr>
<td></td>
<td>Senior High School 3</td>
<td>14.1667</td>
<td>2.08720</td>
<td>66</td>
<td>Not Good</td>
</tr>
<tr>
<td></td>
<td>Senior High School 4</td>
<td>17.8031</td>
<td>3.05515</td>
<td>127</td>
<td>Not Good</td>
</tr>
<tr>
<td></td>
<td>Senior High School 5</td>
<td>13.5526</td>
<td>1.91293</td>
<td>38</td>
<td>Not Good</td>
</tr>
<tr>
<td></td>
<td>Senior High School 6</td>
<td>24.4909</td>
<td>1.40605</td>
<td>110</td>
<td>Very Good</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>19.2159</td>
<td>4.14448</td>
<td>565</td>
<td>Good</td>
</tr>
</tbody>
</table>

Table 3 describes the mean and standard deviations of the data obtained in the field. The average variable of vocational skills from 6 schools suggests no difference, i.e., the average difference in schools with maximum and minimum scores is only 1.4544. Besides that, the average variable economic improvement varies significantly between six schools, i.e., between the highest and the lowest of 10.9383.

In the evaluation, the category column implies the impact of decentralized education through the local curriculum on improving vocational skills and student economics. In general, the evaluation results indicate that variables of vocational skills are "good." All schools (SHS 1, SHS 2, SHS 3, SHS 4, SHS 5, and SHS 6) are in the "good" category. On student economic variables, the impact of decentralized education through the local curriculum on improving students' economics is in the "good" category. The results of the evaluation from each school show that SHS 1 is in the "good" category, SHS 2, SHS 3, SHS4, and SHS 5 are not in the "good" category, and SHS 6 is in the "very good" category. Multivariate Analysis of Variance Analysis (MANOVA) in Table 4, Table 5, and Table 6 indicates the significant differences in evaluations from six schools regarding improving vocational and student financial skills.

Results of Multivariate Analysis of Varian (MANOVA)

The MANOVA analysis demonstrates the impact of decentralized education through the local curriculum in improving students' vocational skills and the economy overall and partially. Table 4 and Table 5 show the results of the analysis. Table 4 shows that the local curriculum can improve students' economic and vocational skills, as evidenced by the significant value of 0.00 obtained from Pillai's Trace, Wilks' Lambda, Hotelling's Trace, and Roy's Big Root from the Multivariate Tests Table. Schools that implemented the local content curriculum indicated a positive impact on improving students' economic and vocational skills.
Table 4. Multivariate Analysis of the Impact of Local Curriculum on Vocational Skills and Economy

<table>
<thead>
<tr>
<th>Effect</th>
<th>Value</th>
<th>F</th>
<th>Hypothesis df</th>
<th>Error df</th>
<th>Sig.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept Pillai's Trace</td>
<td>0.984</td>
<td>1.769E4</td>
<td>2.000</td>
<td>558.000</td>
<td>.000</td>
</tr>
<tr>
<td>Wilks' Lambda</td>
<td>0.016</td>
<td>1.769E4</td>
<td>2.000</td>
<td>558.000</td>
<td>.000</td>
</tr>
<tr>
<td>Hotelling's Trace</td>
<td>0.6392</td>
<td>1.769E4</td>
<td>2.000</td>
<td>558.000</td>
<td>.000</td>
</tr>
<tr>
<td>Roy's Largest Root</td>
<td>0.6392</td>
<td>1.769E4</td>
<td>2.000</td>
<td>558.000</td>
<td>.000</td>
</tr>
<tr>
<td>School Pillai's Trace</td>
<td>0.708</td>
<td>61.212</td>
<td>10.000</td>
<td>1.118E3</td>
<td>.000</td>
</tr>
<tr>
<td>Wilks' Lambda</td>
<td>0.294</td>
<td>94.069</td>
<td>10.000</td>
<td>1.116E3</td>
<td>.000</td>
</tr>
<tr>
<td>Hotelling's Trace</td>
<td>2.389</td>
<td>133.089</td>
<td>10.000</td>
<td>1.114E3</td>
<td>.000</td>
</tr>
<tr>
<td>Roy's Largest Root</td>
<td>2.386</td>
<td>2.668E2</td>
<td>5.000</td>
<td>559.000</td>
<td>.000</td>
</tr>
</tbody>
</table>

Partially Impact

Table 5 illustrates the impact of the local curriculum in improving students' vocational and economic skills. In the school row, the dependent variable and the significant columns are obtained partially on the impact of the local curriculum on students. The effect of decentralizing education through the local curriculum on students' vocational skills is the same. The local curriculum positively impacts students from the six schools studied. The significant column shows a value of Sig. > 0.05. In other words, the six schools that implemented the local curriculum are the same.

Table 5. Tests of Between-Subjects Effects

<table>
<thead>
<tr>
<th>Source</th>
<th>Dependent Variable</th>
<th>Type III Sum of Squares</th>
<th>df</th>
<th>Mean Square</th>
<th>F</th>
<th>Sig.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corrected Model</td>
<td>Skill</td>
<td>119.412</td>
<td>5</td>
<td>23.882</td>
<td>.334</td>
<td>.893</td>
</tr>
<tr>
<td></td>
<td>Economic</td>
<td>6823.619</td>
<td>5</td>
<td>1364.724</td>
<td>266.365</td>
<td>.000</td>
</tr>
<tr>
<td>Intercept</td>
<td>Skill</td>
<td>540629.561</td>
<td>1</td>
<td>540629.561</td>
<td>7.557E3</td>
<td>.000</td>
</tr>
<tr>
<td></td>
<td>Economic</td>
<td>147915.991</td>
<td>1</td>
<td>147915.991</td>
<td>2.887E4</td>
<td>.000</td>
</tr>
<tr>
<td>School</td>
<td>Skill</td>
<td>119.412</td>
<td>5</td>
<td>23.882</td>
<td>.334</td>
<td>.893</td>
</tr>
<tr>
<td></td>
<td>Economic</td>
<td>6823.619</td>
<td>5</td>
<td>1364.724</td>
<td>266.365</td>
<td>.000</td>
</tr>
<tr>
<td>Error</td>
<td>Skill</td>
<td>39989.968</td>
<td>559</td>
<td>71.538</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Economic</td>
<td>2864.038</td>
<td>559</td>
<td>5.124</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>Skill</td>
<td>710360.000</td>
<td>565</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Economic</td>
<td>218315.000</td>
<td>565</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corrected Total</td>
<td>Skill</td>
<td>40109.381</td>
<td>564</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Economic</td>
<td>9687.657</td>
<td>564</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The impact of the local content curriculum on students' economic improvement is significant. There are differences in the impact of the local content curriculum on improving students' economy in each school that implemented the local content curriculum. In other words, not all schools can improve students' economies with the decentralization policy through the implementation of the local curriculum. Table 6 shows the difference in the impact of decentralization through the local curriculum in improving students' economies.

Post Hoc Impact of Decentralized Education through Local Curriculum

Table 6 illustrates the impact of decentralizing education through the local curriculum in six senior secondary schools (SHS 1, SHS 2, SHS 3, SHS 4, SHS 5, and SHS 6). Based on the post hoc table in Table 6, the local curriculum positively impacts students' economic growth. There are differences in economic growth obtained from the analysis results using MANOVA statistics. There
is a significant difference between SHS 1 and SHS 2, SHS 3, SHS 4, SHS 5, and SHS 6. There is a substantial difference between SHS 2 and SHS 3, SHS 5, and SHS 6, but no difference with SHS 4. There is a substantial difference between SHS 3, SHS 4, and SHS 6, but no difference with SHS 5. There is a significant difference between SHS 4 and SHS 6. The order of students' economic improvement from the highest is SHS 6, SHS 1, SHS 4, SHS 2, SHS 3, and SHS 5.

### Table 6. Multiple Comparisons

<table>
<thead>
<tr>
<th>Dependent Variable</th>
<th>(I) School</th>
<th>(J) School</th>
<th>Mean Difference (I-J)</th>
<th>Std. Error</th>
<th>Sig.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economic Improvement</td>
<td>SHS 1</td>
<td>SHS 2</td>
<td>3.2836*</td>
<td>.32892</td>
<td>.000</td>
</tr>
<tr>
<td></td>
<td>SHS 3</td>
<td>SHS 2</td>
<td>6.7051*</td>
<td>.33237</td>
<td>.000</td>
</tr>
<tr>
<td></td>
<td>SHS 4</td>
<td>SHS 2</td>
<td>3.0686*</td>
<td>.27053</td>
<td>.000</td>
</tr>
<tr>
<td></td>
<td>SHS 5</td>
<td>SHS 2</td>
<td>7.3192*</td>
<td>.40948</td>
<td>.000</td>
</tr>
<tr>
<td></td>
<td>SHS 6</td>
<td>SHS 2</td>
<td>-3.6191*</td>
<td>.28182</td>
<td>.000</td>
</tr>
<tr>
<td></td>
<td>SHS 3</td>
<td>SHS 2</td>
<td>3.4216*</td>
<td>.39112</td>
<td>.000</td>
</tr>
<tr>
<td></td>
<td>SHS 4</td>
<td>SHS 2</td>
<td>-2.149</td>
<td>.34013</td>
<td>.528</td>
</tr>
<tr>
<td></td>
<td>SHS 5</td>
<td>SHS 2</td>
<td>4.0356*</td>
<td>.45845</td>
<td>.000</td>
</tr>
<tr>
<td></td>
<td>SHS 6</td>
<td>SHS 2</td>
<td>-6.9027*</td>
<td>.34917</td>
<td>.000</td>
</tr>
<tr>
<td></td>
<td>SHS 3</td>
<td>SHS 4</td>
<td>3.6365*</td>
<td>.34347</td>
<td>.000</td>
</tr>
<tr>
<td></td>
<td>SHS 5</td>
<td>SHS 4</td>
<td>.6140</td>
<td>.46093</td>
<td>.183</td>
</tr>
<tr>
<td></td>
<td>SHS 6</td>
<td>SHS 4</td>
<td>-10.3242*</td>
<td>.35243</td>
<td>.000</td>
</tr>
<tr>
<td></td>
<td>SHS 3</td>
<td>SHS 5</td>
<td>4.2505*</td>
<td>.41853</td>
<td>.000</td>
</tr>
<tr>
<td></td>
<td>SHS 6</td>
<td>SHS 5</td>
<td>-6.6878*</td>
<td>.29482</td>
<td>.000</td>
</tr>
<tr>
<td></td>
<td>SHS 4</td>
<td>SHS 6</td>
<td>-10.9383*</td>
<td>.42592</td>
<td>.000</td>
</tr>
</tbody>
</table>

### Discussion

In general, the impact of decentralized education through the local curriculum on improving vocational skills and improving student economics in both categories. Implementing the regional curriculum by applying practical learning can develop students' vocational skills. Employable work or practical activities can increase vocational skills (Blundell et al., 1999; Hadi et al., 2019). This finding is in line with the findings of Wicht et al. (2019) that the interaction between education, skills, and job criteria is pivotal. This result ties well with previous studies wherein vocational education provides practical skills for the labor force (Hambali, 2019; Lavrijsen & Nicaise, 2017; S. Rezeki et al., 2020).

Vocational activities increase vocational skills and can improve poor students' economics. Vocational programs implemented through the local curriculum helped the poor students, as vocational programs of traditional cuisine can improve the economy and reduce the number of students dropping out of school. The results of student traditional cuisine products can be an effective means of economic improvement for students. This fact shows that education is not just about spending money but also about making money. According to Booth et al. (1996), professional training and skill development enable humans to be more productive and increase their incomes, which aids economic expansion.

The evaluation results generally indicate a "good" category in Table 3. These results illustrate the positive impact of decentralization of education through the local curriculum in improving students' vocational skills and economics. The local curriculum developed by providing traditional cuisine training can improve students' vocational skills and economics. These findings go beyond previous reports, showing that enhancing vocational skills such as self-development efforts is an effective way to improve the economy because it improves vocational skills and the economy (Joo, 2018; Khilji et al., 2012). A similar conclusion was reached by Loyalka et al. (2015), who found that a program embodied in training to enhance vocational skills is the best way to promote economic growth. This aligns with the finding that education training is the most significant argument to bring or achieve rapidly changing or desired development in a State's economic, political, sociological, and human resources (Lawal, 2014).
CONCLUSION

The findings conclude that decentralizing education through the local curriculum can improve vocational skills and student economics. Traditional cuisine learning implemented in the local curriculum can develop students' vocational skills, as this learning provides a large portion of traditional cuisine practice learning rather than theoretical learning. Many traditional cuisine practices enable students to improve their vocational skills and increase their economics because students sell products and earn big profits.

Students sold the product face to face, at the school's bazaar or elsewhere, and at the government's exhibitions. The economic success rate of SHS6 is categorized as very good because SHS 6 implements all product marketing systems from face-to-face activities, face-to-face canteen, school bazaar and elsewhere, and bazaars from the government. The profits gained are enormous and positively impact the student's economic improvement. The three marketing methods of SHS 1, SHS 2, SHS 3, and SHS 4 are the canteen, school bazaar, and the government bazaar. SHS 5 applied a two-way marketing method. They are the school bazaar or another one, and the government bazaar. The profits of SHS 2, SHS 3, SHS 4, SHS 5 are smaller than SHS 6.

Quantitatively, there is no significant difference in the impact of decentralized education through the local curriculum on vocational student skills based on the six schools sampled for this research. However, there is a significant difference in the impact of decentralized education through the local curriculum on improving student economics. Based on the results of descriptive statistics, SHS6 has the highest value. In other words, SHS 6 achieved the highest increase in student economics among other schools because they sold the product with four marketing systems. SHS 5 achieved the lowest economic growth because this school only sold products through two out of four marketing systems. It implied that SHS, which applied the utmost marketing, gained the most profits.

REFERENCES


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