Strategy of Halal Certifications Using the Strategic Assumption Surfacing and Testing (SAST) (Case Study at Riau Indonesia)

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Abstract
The high number of Muslim consumers and a large number of Micro-Small and Medium Enterprises in Indonesia should be in line with the increase in the number of halal-certified products. Thus, it is necessary to formulate the right strategy to increase the number of Halal certifications in Indonesia. The purpose of this study is to provide strategic recommendations to policymakers in increasing the number of halal certificates in Indonesia. The Strategic Assumption Surfacing and Testing (SAST) method were adopted in this study through focus group discussions and interviews with selected experts covering 1 academician, 2 Halal practitioners, and 2 business actors. This study found that there were 20 strategic assumptions formulated to increase the number of halal certifications in Indonesia. The results of the SAST method cluster the strategic assumptions into 4 quadrants. There are 10 items that assume the strategy is at a high level of importance and certainty in quadrant 1 and is a priority to be implemented. Then, the research has limitations in the form of determining the priority of the assumptions that will be applied. Further research is suggested to carry out weighing and ranking in the selection of the best strategic assumptions by policymakers.

Keywords
Halal Product, Certification, SAST, Micro-Small, and Medium Enterprises, Indonesia.
1. Introduction

Indonesia is a country with the largest Muslim population in the world. Due to this situation, Indonesia has the potential to be a market for many halal products. The development of the number of micro, small and medium enterprises (MSMEs) in Indonesia tends to increase until in 2019 there are 65.465.497 business units (Minister of Cooperatives and Small and Medium Enterprises of the Republic of Indonesia 2021). The high number of business actors in Indonesia and a large number of Muslim consumers make guaranteeing halal products a focus of attention for policymakers. The gross domestic product (GDP) of a nation can be raised through micro, small, and medium-sized businesses, which can also overcome employment problems for the community (Adrian 2019). Muslims are required to use or consume a halal product. Interestingly, the demand for halal products increased significantly throughout the year, not just among Muslims but also among non-Muslims (Najmaei et al. 2017). This is a result of people becoming more aware of the benefits of consuming halal products. However, the number of these commercial entities does not correspond to the number of goods that have received halal certification.

Additionally, this is against the intent of Law No. 33 of 2014, which mandates that all goods sold and distributed in Indonesia must be halal-certified. According to data from the BPJPH in Indonesia, many business actors will have requested halal certification (Kamsari 2020). MSMEs’ ability to execute halal certification is influenced by some issues (Anwari and Hati 2020; Giyanti and Indriastiningsih, 2019; Lestari et al. 2021; Puspaningtyas 2021). The variables that affect MSMEs undertaking halal certification are listed in Table 1. By conducting FGDs and open interviews with some experts, academics, and business players, this indicator was obtained based on prior research literature investigations. To address the issues in this study, qualitative descriptive research must be conducted while formulating strategic assumptions for boosting halal certification in Indonesia.

Table 1. Factors influencing MSMEs in halal certification

<table>
<thead>
<tr>
<th>No</th>
<th>Author</th>
<th>Indicator</th>
<th>Keyword</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>(Lestari et al., 2021)</td>
<td>Difficult licensing bureaucracy</td>
<td>Licensing (IUMK, IUI, P-IRT, Marketing authorization)</td>
<td>A1</td>
</tr>
<tr>
<td>2</td>
<td>(Lestari et al., 2021)</td>
<td>Limited financial resources</td>
<td>Start-up fund, Certification fee, Budget allocation</td>
<td>A2</td>
</tr>
<tr>
<td>3</td>
<td>(Lestari et al., 2021)</td>
<td>Uncertainly</td>
<td>Complicated, Time-waste, Mileage</td>
<td>A3</td>
</tr>
<tr>
<td>4</td>
<td>(Lestari et al., 2021)</td>
<td>Lack of information</td>
<td>UUJPH knowledge, counseling, Certification procedure, Law awareness</td>
<td>A4</td>
</tr>
<tr>
<td>5</td>
<td>(Lestari et al., 2021)</td>
<td>Overconfident</td>
<td>Religion, Mindset, Awareness</td>
<td>A5</td>
</tr>
<tr>
<td>6</td>
<td>(Lestari et al., 2021)</td>
<td>Short-term validity</td>
<td>Time period</td>
<td>A6</td>
</tr>
<tr>
<td>7</td>
<td>(Lestari et al., 2021; Noordin et al., 2009)</td>
<td>Issuance of Halal Certification</td>
<td>Waiting time</td>
<td>A7</td>
</tr>
<tr>
<td>8</td>
<td>(Lestari et al., 2021; Noordin et al., 2009)</td>
<td>Bad service</td>
<td>Lack of direction, Guidance</td>
<td>A8</td>
</tr>
<tr>
<td>9</td>
<td>(Lestari et al., 2021)</td>
<td>Low level of education</td>
<td>Qualified, self-management</td>
<td>A9</td>
</tr>
<tr>
<td>10</td>
<td>(Lestari et al., 2021; Noordin et al., 2009)</td>
<td>Lack of enforcement</td>
<td>Government agencies (BPOM, LPPOM, BPJPH)</td>
<td>A10</td>
</tr>
<tr>
<td>11</td>
<td>(Lestari et al., 2021)</td>
<td>Consistency</td>
<td>Types of products, SOP</td>
<td>A11</td>
</tr>
<tr>
<td>12</td>
<td>(Lestari et al., 2021)</td>
<td>Customer awareness</td>
<td>Safe and hygienic products</td>
<td>A12</td>
</tr>
<tr>
<td>13</td>
<td>(Lestari et al., 2021)</td>
<td>Business reputation</td>
<td>Customer trust and satisfaction, Branding, Prestige, Responsibilities</td>
<td>A13</td>
</tr>
<tr>
<td>14</td>
<td>(Lestari et al., 2021)</td>
<td>Religious belief</td>
<td>Islamic law</td>
<td>A14</td>
</tr>
<tr>
<td>15</td>
<td>(Lestari et al., 2021)</td>
<td>Role Halal Certification</td>
<td>Stamp of halal, Certainty of halal status, Value proposition</td>
<td>A15</td>
</tr>
<tr>
<td>16</td>
<td>(Lestari et al., 2021)</td>
<td>Increase income</td>
<td>Customer buying interest</td>
<td>A16</td>
</tr>
<tr>
<td>17</td>
<td>(Lestari et al., 2021)</td>
<td>Governmental policy</td>
<td>UU No. 33 of 2014, mandatory</td>
<td>A17</td>
</tr>
<tr>
<td>18</td>
<td>(Lestari et al., 2021)</td>
<td>Islamic business concept</td>
<td>Faith, Halalan thayyiban</td>
<td>A18</td>
</tr>
</tbody>
</table>
1.1 Objectives
This study was carried out in a city where there is a wide variety of culinary in Indonesia. The focus of the study is Micro-Small and Medium Enterprises that produce halal-certified food and beverages. This study intends to improve the number of halal certifications in Indonesia by offering strategic assumptions for policymakers or halal assurance organizations by taking into account a variety of elements that affect Micro-Small and Medium Enterprises in conducting halal certification.

2. Literature Review
Allowing consumers to consume a product is referred to as halal in Islamic studies. Halal meals can be consumed by Muslims and customers worldwide because they adhere to Islamic law regarding the use of raw materials, added materials, and production techniques. The determination of halal and haram has been contained in Islamic concepts. There are institutions with the competence to inspect and test a product to ensure and guarantee the halalness of a product. If the product being examined doesn't contain raw materials or other non-halal components, this institution will issue a halal certificate to business actors. Halal certification is a series of product inspection processes from an agency appointed by the Indonesian government and has passed a written fatwa issued by the Indonesian Ulema Council which states the halalness of a product following Islamic law. In Indonesia, halal certificates serve as documentation for acquiring licenses from recognized government organizations, especially LPPOM MUI and BPJPH, to include halal labels on product packaging (Faridah 2019). The first step in the halal certification procedure is the company's application for the submission of halal certification to BPJPH. A legitimate corporation with a government-issued business license is required for applicants seeking halal certification. Complete files and supporting data are submitted to BPJPH for review and determination of the amount of the certification fee. After the applicant pays the certificate processing fee, an audit schedule will be given. The audit is carried out by a halal inspection agency appointed by BPJPH. The results of the audit are submitted to the MUI Fatwa Commission to be discussed in the Commission session, and then the legal fatwa is given. The results of the MUI Fatwa Commission
are submitted to BPJPH for the process of issuing halal certificates for business actors (Akim et al. 2019; Yakub and Zein 2022).

By evaluating the level of Important and certainty of an assumption in assuring the success of the goals to be reached, the Strategic Assumption Surfacing and Testing (SAST) approach can be used to determine what strategic assumptions must be taken into account (Wiguna et al. 2020). To visualize the relative importance and degree of certainty of each assumption, the SAST findings are presented on a four-quadrant graph. The rating is based on several criteria and expert judgment. The significance and confidence of an assumption are given in Figure 1. A study state that the SAST method is applied to generate and test strategic assumptions which are ideal conditions or requirements that must be met by a system. The limitation of the SAST method is the difficulty of respondents in expressing assumptions in solving problems. This is the initial problem that often arises when identifying problems in a system. Thus, the SAST approach is the first step in solving the system modeling. Many implementations of this method are used to integrate with analytical modeling and structural approaches. Obviously, This approach has been used to help policymakers to formulate strategies for improving a system (Daulay 2020; Zlatanovic 2016).

3. Methods

To address the issues at hand, this study used a qualitative descriptive technique. A qualitative approach can help create solutions that are suitable and quantifiable (Rashid et al. 2019). Focus group discussions (FGD) and open interviews with professionals, academics, and business actors yielded the strategy assumptions. The FGD and interviews were conducted to record and collect key premises concerning the strategy to increase the number of halal certifications. Finding the crucial assumptions that support plans, programs, or strategies is made much easier with this technique. The presence, affordability, reputation, and experience of five experts in their field were among the criteria used to select the experts who answered the SAST questionnaire. Choosing experts who are knowledgeable on the subject uses purpose sampling (Campbell et al. 2020). Using a Liker scale of 1–7 (from Unimportant/Uncertain 1 to the important/Certain 7), 5 chosen experts will respond to questions in a questionnaire that includes a list of assumptions. To express their opinion, attitude, or feeling regarding a specific problem, respondents might select a scale. A chart or diagram representing the ranking results will be created. The results of the assessment of 5 experts are taken from the value that appears the most or is also called the mode (the value that often comes out of each assumption that has been answered at the level of importance and level of certainty), with the level of importance as the axis X and the degree of certainty as to the Y-axis. Then the final result of the SAST analysis is the acquisition of a SAST quadrant graph and an assumption rating chart.

4. Data Collection

FGDs and interviews with experts in respective domains were used to gather the data. An overview of the responder profiles is provided in Table 2. One academic, two auditors, and two business actors made up the responders. The findings of FGDs and conversations with subject-matter experts who are knowledgeable in their domains led to the
assumption of a plan to expand the number of halal certifications. The discussion's findings revealed 20 strategic hypotheses, which would be coded to make it simpler for academics to explain or depict in a graph. A strategic premise that is mapped through variables about MSMEs in carrying out halal certification is shown in Table 3. Following that, pairwise comparisons are conducted between the items under the presumption that solutions to the issues at hand have been discovered. The level of relevance and certainty of each assumption can then be determined by examining the mode value of each respondent's assessment.

Table 2. Profile Respondent

<table>
<thead>
<tr>
<th>No</th>
<th>Respondent</th>
<th>Profile</th>
<th>Experience (year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Respondent A</td>
<td>Researcher on Chemistry Department. She also is a national halal auditor in Indonesia</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>Respondent B</td>
<td>Auditor Halal in LPPOM MUI Indonesia</td>
<td>16</td>
</tr>
<tr>
<td>3</td>
<td>Respondent C</td>
<td>Auditor Halal in Public Sector Indonesia</td>
<td>11</td>
</tr>
<tr>
<td>4</td>
<td>Respondent D</td>
<td>Business Owner Frozen food</td>
<td>2</td>
</tr>
<tr>
<td>5</td>
<td>Respondent E</td>
<td>Business Owner Dessert Box</td>
<td>2</td>
</tr>
</tbody>
</table>

Table 3. Strategy Assumptions for Increasing the Number of Halal Certifications in Indonesia

<table>
<thead>
<tr>
<th>Code</th>
<th>Assumption</th>
<th>Indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Develop trained human resources in the field of halal products by conducting halal training at all levels and levels of society.</td>
<td>A14, A4, A8, A9, A25, A35</td>
</tr>
<tr>
<td>A2</td>
<td>Activating communication, information, and education campaigns in the sphere of halal products with all segments of society to increase the number of people who are aware of halal.</td>
<td>A4, A5, A12, A14, A22, A23, A35</td>
</tr>
<tr>
<td>A3</td>
<td>Build a Halal Center as a halal product research and development center to advance science and technology in the development of halal products.</td>
<td>A24, A4, A9, A5, A8, A12, A32, A35</td>
</tr>
<tr>
<td>A4</td>
<td>a system coordinates between providers of halal raw materials and business actors to assure the availability of halal raw materials,</td>
<td>A11, A25, A27, A29, A32, A33</td>
</tr>
<tr>
<td>A5</td>
<td>The government plays a role in strengthening the role of the halal community so that it can attract producers and consumers to develop the halal product industry.</td>
<td>A1, A4, A9, A12, A35</td>
</tr>
<tr>
<td>A6</td>
<td>Simplify the process of making prerequisite documents (IUMK, IUI, P-IRT permits) for halal certification by implementing them online.</td>
<td>A1, A29</td>
</tr>
<tr>
<td>A7</td>
<td>Business actors apply the 50 20 30 rule (50% needs, 20% saving, 30% wants) financial storage system to register halal certification</td>
<td>A2, A8, A9, A23, A25, A34</td>
</tr>
<tr>
<td>A8</td>
<td>Increase programs and support from both the government and private companies through CSR funds to help finance business actors' halal certification.</td>
<td>A2, A20, A29, A34</td>
</tr>
<tr>
<td>A9</td>
<td>The Halal Inspection Agency (LPH) helps direct the parties facilitating the financing so that they are not misdirected.</td>
<td>A20, A29, A17, A34</td>
</tr>
<tr>
<td>A10</td>
<td>The Halal Inspection Agency (LPH) provides alternative solutions for raw materials whose halal legality is still unclear.</td>
<td>A13, A5, A15, A19, A20, A33, A32</td>
</tr>
<tr>
<td>A11</td>
<td>Affirming and promoting mandatory (mandatory) halal certification by the government by implementing a punishment system for business actors who do not carry out halal certification.</td>
<td>A8, A10, A17, A29, A35</td>
</tr>
<tr>
<td>A12</td>
<td>Implementing PP 39 of 2021 regarding the regulation of the validity period of halal certification being four years</td>
<td>A3, A4, A6, A7</td>
</tr>
<tr>
<td>A13</td>
<td>The Halal Inspection Agency (LPH) provides guidance and assistance to business actors related to halal products</td>
<td>A4, A8, A12, A14, A22, A29, A33, A35</td>
</tr>
<tr>
<td>A14</td>
<td>Accelerate the process of issuing halal certification by not exceeding the specified time limit.</td>
<td>A6, A7</td>
</tr>
<tr>
<td>A15</td>
<td>Cross-subsidies should be implemented to make it easier for MSMEs to pay for halal certification.</td>
<td>A2, A17, A29, A34</td>
</tr>
</tbody>
</table>
5. Results and Discussion

Determinations of the level of importance and certainty of each assumption were done by finding the mode value of each respondent's assessment of the assumptions contained in the graphing. Details of the very important, the very certain, the very unimportant, and the very uncertain are divided into four quadrants. Ten strategic assumptions, including A2, A3, A4, A8, A9, A13, A15, A17, and A20, have a level of importance and a level of certainty of seven (7:7) or are in quadrant 1, according to the results of the overall assessment of respondents. This indicates that the strategy assumption is the ideal condition or absolute prerequisite to increasing the number of halal certifications.

Then, the strategic assumptions A6 and A16 have a level of importance 7 and a level of certainty 6 (7:6), assumptions A11 at coordinates (7:5), at the level of importance and certainty (6:6), there are 4 assumptions including A1, A5, A10, and A18, assumption A12 has an assessment of (5:6) and the rest of the overall assumptions are at the level of importance and certainty of (5:7). The locations of the 20 assumptions in each quadrant are shown in Figure 2.

![Graph of strategy assumptions for increasing the number of halal certification](image)

The key priority that needs to be carried out to accomplish the goals of the research is the assumption of a strategy with a value of (7:7). The activation of communication, information, and education efforts in the area of halal products with all societal segments in order to increase the number of people who are aware of halal is one of the ten assumptions of the selected strategy; establishing a Halal Center as a hub for halal product research and development...
to advance science and technology; establishing a system that coordinates between halal raw material providers and commercial players to assure the availability of halal raw materials; increasing programs and support from both the government and private companies through CSR funds to help finance the halal certification of business actors; The Halal Inspection Agency (LPH) helps direct the parties facilitating the financing so that they are not misdirected; Halal Inspection Agency (LPH) provides guidance and assistance to business actors related to halal products; performing cross subsidies to facilitate MSMEs in making payments for halal certification; Making regulations that are clear and easy to understand for business actors in conducting halal certification; The existence of traceability (traceability) and transparency in a halal product and can be accessed by all people; and creating a trading network of domestic and foreign halal products through halal certification, such as establishing international cooperation in the halal product business.

Following this are strategic assumptions with levels of importance (7) and certainty (6). Then, there is level of importance (7) and certainty (6), which is in quadrant 1 and is the second priority assumption of the proposal following the levels of importance and certainty (7:7). The two strategic presumptions mentioned at level of importance (7) and certainty (6) are to make halal certification one of the requirements in circulating products both inside and outside of the country and to simplify the process of making prerequisite documents (IUMK, IUI, P-IRT permits) for that certification by implementing online. Determining halal certification as a requirement for items to be distributed both domestically and internationally will become a requirement and offer value to halal certification providers. On the other hand, the validity period of halal certification is 4 years, and it is not an assumption of the right strategy. A study argues that the validity period of halal certification for business actors is not a major concern because consumer confidence in business units that have received certification tends to maintain their services (Sahir et al. 2021).

6. Conclusion
The Strategic Assumption Surfacing and Testing (SAST) method in this study has succeeded in classifying strategic assumptions for increasing halal certification in Indonesia. There is a distribution of 20 strategic assumptions in 4 quadrants of this method. Thus, policymakers can consider strategies for increasing halal certification in accordance with factors of importance and certainty. Besides, the main strategy assumptions in this study were selected as many as 10 assumptions. Thus, this research is limited in determining the priority of the assumptions to be applied. Further research is recommended to conduct weighting and ranking for the selection of the best strategic assumptions that will be recommended to policy makers in increasing the number of halal certifications in Indonesia.

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**Biographies**

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