

Initiation of the Unnes Halal Center Collaborative Development Strategy for Product Development and Halal Product Guarantee Systems

Prabowo Yudo Jayanto^{1*}, Muhamad Nukha Murtadlo², Bintang Satrio³ Wibowo, Fredericho Mego Sundoro³, Risanda Alirastra Budiantoro¹, Suci Afnia¹

¹ Islamic Economics and Finance Study Program, Faculty of Economics and Business, Univeristas Negeri Semarang, Semarang, Indonesia

² Economics Education Study Program, Faculty of Economics and Business, Universitas Negeri Semarang, Semarang, Indonesia

³ Development Economics Study Program, Faculty of Economics and Business, Universitas Negeri Semarang, Semarang, Indonesia

*E-mail: yudho@mail.unnes.ac.id

Abstract. implementation of a mandatory halal regulation according to Law No 33 the year 2014 regarding Halal Product Guarantee. To support this program, The Halal Product Assurance Organizing Body (BPJPH) has encouraged universities to establish Halal Centers since 2019. This research aims to initiate a collaborative development strategy at the Unnes Halal Center to improve product development and halal product guarantee systems in Semarang City using the Analytical Hierarchy Process approach. This research interviewed three experts in 2024. Data analysis is divided into three stages: decomposition, pairwise comparisons, and priority synthesis. The hierarchical structure is comprised of four levels, namely the variables affecting collaboration, the actors involved, the goals, and the cooperation strategy. This collaborative approach involves various stakeholders, including academic institutions, government, industry, and society. Through close collaboration, the Unnes Halal Center strives to develop innovative halal products and strengthen the halal product guarantee system that meets international standards. The research results show that this collaboration has succeeded in increasing the quality and public trust in local halal products and creating positive synergy between the various parties involved. The implications of this strategy are expected to accelerate the development of the halal industry in Semarang City and significantly contribute to the local economy.

Keywords: Halal industry, Halal Products; Unnes Halal Centre.

K. B. Abiprayu and A. B. Setiawan (eds.), *Proceedings of the International conference of Economics Business and Economics Education Science (ICE-BEES-24)*, Advances in Economics, Business and Management Research 298, https://doi.org/10.2991/978-94-6463-522-5_63

1 Introduction

The halal industry is currently a world trend, including in Indonesia. This is important considering that Indonesia is a country with the most significant number of Muslims, which will significantly influence halal consumption. Data from [1] shows that the Muslim population in Indonesia has reached 238.09 million people, or 86.93 percent of the total population. This is in line with [2; 3] which shows that Indonesia is ranked first as a country consuming halal food globally, with total consumption reaching US\$144 billion out of total global halal food consumption, which reached US\$1.17 trillion. Unfortunately, the level of halal consumption in Indonesia is not accompanied by the growth of the halal industry in this country. This can be seen from the minimal exports of Indonesian halal products to other countries [4]. The problem is that the scope of the halal industry market has not been able to penetrate the global market because the quality and halal certification are still relatively low. So, it is appropriate for Indonesia to no longer be a consumer of halal products but also to be involved with the world's most prominent industry players in halal products.

What needs to be emphasized in this case is that there are efforts to improve product quality and service suitability, which can attract consumers and increase customer loyalty. According to [5; 6], product quality is the product's ability to perform its functions, including durability, reliability, accuracy, ease of operation, and other supporting attributes. Meanwhile, product quality shows the expected level of excellence and control of the level of excellence to meet the desires and needs of consumers, meaning that there is conformity with customer expectations [7; 8; 9]. Apart from that, for the Muslim community, having halal certification listed on a product can increase the sense of security for producers and consumers, which means the product is free from non-halal elements and is produced in a halal and ethical manner [10; 11]. Because products that are halal certified have higher competitiveness, they are expected to be able to take up most of the market domestically or globally [12; 13].

Seeing the existing phenomenon, the Unnes Halal Center was initiated to translate Islam as rahmatan lil'alamin, Islam that cools and makes the nation intelligent. The importance of consuming halal products is one of Allah's commandments contained in the Quran:

وَكُلُوْا مِمَّا رَزَقَكُمُ اللَّهُ حَلَّلًا طَيِّبًا ۖ وَاتَّقُوا اللَّهَ الَّذِيِّ أَنْتُمْ بِهِ مُؤْمِنُوْنَ

Meaning: And eat halal and good food from what Allah has provided for you, and fear Allah in whom you believe in Him (QS Al-Maidah; 88)

لَيَاتُهُهَا النَّاسُ كُلُوا مِمَّا فِي الْأَرْضِ حَلَّلًا طَيَّيًّا ۖ وَلَا تَتَبِعُوْا خُطُوٰتِ الشَّيْطُ الَّهُ لَكُمْ عَدُقٌ مُّبِيْنٌ

Meaning: The people eat what is halal and sound from what is on earth, and do not follow the devil's steps because the devil is a natural enemy for you (QS Al-Baqarah; 168).

The Unnes Halal Center can play an active role in helping the government and society by protecting halal products according to what is required in the teachings of the Islamic religion [14; 15] (Universitas Mathla'ul Anwar, 2019). This aligns with

Law No. 33 of 2014 concerning Halal Product Guarantees, which explains that the government and society can establish halal inspection institutions and study centers. In order to optimize the role of the Unnes Halal Center, it is hoped that there will be a cooperative memorandum of understanding between BPJPH, MUI, and LPH [16].

The novelty of this research is to examine and analyze in depth the role of the Unnes Halal Center as a halal product development and product guarantee system in Central Java Province, especially Semarang City. The implementation of the Unnes Halal Center includes four aspects, namely [17; 18]: (1) The field of community service regarding halal products; (2) Fields that carry out research (interdisciplinary) on halal product issues; (3) Areas that educate the public regarding the understanding and implementation of halal products; (4) Coordinating with APKAHI (Association of Indonesian Halal Study Centers) and other partners. This can be optimized through the services that will be provided in the form of:

Table I. Halal Se	rvice Initiation [19; 20]	
Facility	Explanation	
Halal facilitator	Facilitate MSMEs and industry in Semarang City in processing	
	halal certification	
Halal Corner	Providing halal consulting services to MSMEs and industry	
Halal Aware	Providing education and outreach to the general public	
	regarding the importance of "halal is lifestyle"	
Semarang Halal	Initiating a community through social media that contains	
Love	information related to halal in social life	
Research and	Carrying out halal research and publications in journals or other	
Publications	media.	
Laboratory	Initiating laboratory services to support analysis regarding the	
	halalness of a product.	

 Table 1. Halal Service Initiation [19; 20]
 Particular

Faculty of Economics and Business, Universitas Negeri Semarang, as a stakeholder in science and research, certainly supports the collaborative program launched by BPJPH Ministry of Religion through the Sehati Program (Free Halal certification) [21; 22]. With the existence of the Unnes Halal Center, researchers are expected to be able to help implement the Sehati Program evenly and comprehensively for MSMEs in Central Java Province, especially in Semarang City, so that it can improve the economic level and enable MSMEs to be competitive in the global market [16]. Implementing and developing the Unnes Halal Center requires support from work partners to increase its existence. It is hoped that this research will improve the economic level of the community and provide adequate infrastructure to contribute to and play a role in the development of halal products and a halal product guarantee system.

2.1 Research Approach

2

This research uses a quantitative and qualitative approach with an Analytical Hierarchy Process (AHP) analysis. This method is suitable for solving a complex, unstructured situation into several components in a hierarchical order by giving a subjective value about the relative importance of each variable and determining which variable has the highest priority in influencing the outcome of the situation. Where AHP is an approach method that is suitable for handling complex systems related to determining decisions from several alternatives and provides options that can be considered in preparing collaborative strategies for developing halal institutions at the Unnes Halal Center, this AHP method was developed by Thomas L. Saaty in the 1970s, which is expected to be an effective decision-making tool because it can break down complex problems into a hierarchy. This method relies on research results from experts who have advantages in measuring consistency in decision-making.

2.2 Data Types and Sources

The type of data used is primary data that can support studies in formulating collaborative strategies for developing halal institutions for the development of halal products and halal product guarantee systems. The data source for this research was obtained from literature studies through observation and interview techniques with three respondents with regulatory, academic, and practitioner backgrounds who are experienced and understand the research problems.

2.3 Analysis Tools

The steps for making decisions that produce priorities with AHP are as follows [23]: (1) Defining the problem and determining the type of knowledge sought; (2) Arranging a decision hierarchy starting from the top with the goal of the decision from a broad perspective, through the middle level (criteria on which subsequent elements depend) to the lowest level (which is usually a set of alternatives); (3) Create a set of pairwise comparison matrices. Each element above a level is used to compare the element at the level directly below it; (4) Use the priorities obtained from the comparison to weigh priorities at the appropriate level below. Do this for each element. Then, for each element at the level below, add its weighted value and get its overall or global priority. Continue this weighing and adding process until the final priority of alternatives at the lowest level is obtained.

3 Result and Analysis

3.1 AHP Analysis Results

Based on the hierarchy compiled, the first level is an analysis of the various factors considered to determine the factors that influence the development of the Unnes Halal Center collaboration [24; 25]. The calculation continues to carry out the average row value of the priority vector matrix which is the local priority weight value of each factor.

Table 2 Priority Vectors Matrix Factors Considered in Determining Factors That In

 fluence the Development of Unnes Halal Center Collaboration

Factor	(1)	(2)	(3)	Amount	Priority	Rank- ing
(1)	0.613	0.263	0.616	1,493	0.321	1
(2)	0.459	0.421	0.462	1,342	0.301	2
(3)	0.803	0.087	0.203	1,093	0.275	3

Note: (1) Capital; (2) Agency or institution policies; (3) Markets and consumer confidence

The results of the priority vector matrix calculation show that the main factor considered in determining the factors influencing the development of UNNES halal center collaboration is the capital factor with a weight of 0.321 or 32.1 percent. The second factor considered is the agency or institutional policy factor which has a weight of 0.301 or 30.1 percent. Then followed by market factors and consumer confidence of 0.275 or 27.5 percent.

Based on the hierarchy compiled, an analysis of the various factors considered in the effort is then carried out. Determining the actors involved in the UNNES halal center development cooperation strategy [26; 27]. The calculation continues to carry out the average row value of the priority vector matrix which is the local priority weight value of each factor.

 Table 3. Priority Vectors Matrix Factors Considered in Determining Actors That Influence the Development of Unnes Halal Center Collaboration

Fac- tor	(1)	(2)	(3)	(4)	(5)	(6)	(7)	Amount	Pri- ority	Rank- ing
(1)	0.230	0.210	0.210	0.277	0.560	0.237	0.183	1,907	0.063	7
(2)	0.303	0.276	0.276	0.316	0.337	0.235	0.685	2,428	0.141	4
(3)	0.115	0.105	0.105	0.090	0.705	0.102	0.814	2,036	0.108	5
(4)	0.108	0.114	0.151	0.130	0.451	0.175	0.811	1,940	0.092	6
(5)	0.198	0.405	0.301	0.310	0.877	0.952	0.031	3,073	0.195	2
(6)	0.244	0.295	0.258	0.187	0.336	0.251	0.970	2,541	0.160	3
(7)	0.634	0.607	0.657	0.818	0.856	0.449	0.708	4,730	0.241	1

Note: (1) LSP; (2) Consumer; (3) MSMEs; (4) Other Halal Centers; (5) Private companies; (6) Semarang City Government; (7) BPJPH

The results of the priority vector matrix calculation are the main factors to be considered in the effort to determine the actors involved in the UNNES halal center development cooperation strategy is BPJPH with a weight of 0.241 or 24.1 percent. the second actor considered is the Semarang City Government at 0.195 or 195 percent. Then followed by the Semarang City Government which has a weight of 0.160 or 16 percent.

Based on the hierarchy compiled, the next level carried out is an analysis of the various factors considered in the Determining the main objective of developing Unnes Halal Center collaboration [27]. The calculation continues to carry out the average row value of the priority vector matrix which is the local priority weight value of each factor.

Fac- tor	(1)	(2)	(3)	(4)	(5)	(6)	Amount	Priority	Ranking
(1)	0.132	0.135	0.669	0.906	0.947	0.152	2,940	0.195	1
(2)	0.911	0.194	0.699	0.381	0.385	0.304	2,873	0.187	2
(3)	0.231	0.728	0.422	0.199	0.109	0.461	2,151	0.172	4
(4)	0.535	0.797	0.014	0.333	0.077	0.589	2,346	0.178	3
(5)	0.159	0.560	0.058	0.381	0.077	0.427	1,662	0.113	6
(6)	0.049	0.048	0.009	0.746	0.329	0.909	2,090	0.155	5

Table 4. Priority Vectors Matrix Factors Considered in Determining Goals that Influence the Development of Unnes Halal Center Collaboration

Note: (1) Strengthening the function of the halal center; (2) Strengthening interinstitutional performance; (3) Helping MSMEs in accelerating halal certification; (4) Professional certification is related to product halalness; (5) Collaboration with private institutions; (6) Utilization of assistance funds from the government

The results of the priority vector matrix calculation show that the main objective considered in determining the goal of developing the Unnes halal center collaboration is to strengthen the function of the halal center with a weight of 0.195 or 19.5 percent. The second factor considered is strengthening inter-institutional performance which has a weight of 0.187 or 18.7 percent. Then followed by professional certification related to product halalness of 0.178 or 17.8 percent.

3.2 Determining an Appropriate Marketing Model for the Unnes Halal Center to Support Increasing Campus Income.

Several steps in the marketing model are applied: First, marketing is based on basic needs and services—products or services related to essential goods used by the general public. Consumer behavior in meeting their basic needs requires more detailed information regarding whether essential product products are halal-standardized. This is based on faith, especially Muslim consumers who want their consumption patterns for life necessities to be of halal standards. Under these circumstances, the position of the Unnes Halal Center is to absorb opportunities to develop its services by gradually maximizing research on the types of essential goods needed by the community [28].

Through MUI standardization regarding the existence of its institutions, the Unnes Halal Center automatically gains the public's trust, which directly impacts the marketing of its services.

Second, marketing is based on raw material services and related to raw materials, which are the starting materials for forming a finished product. At the halal standard level, it is essential to know whether the product is halal or not. For example, the medicinal raw material (shells) that we all know is dominant; most shells are made based on components found in pigs. It is very contradictory for Muslim consumers to consume it [29]. This has become a long debate and continues continuously. This potential is the primary source of sustainable research development and, along with new findings, will impact institutional marketing services.

The established marketing plan is expected to fulfill the objectives of developing the Unnes Halal Center. Enable institutions to detect internally to understand the value of the impact and results of previous stage marketing decisions [30]. First, encourage companies to review externally to understand the market being targeted and where the competition is in that space. Second, Focus sets future goals and provides appropriate direction for future marketing initiatives. Moreover, the objectives must be understood and supported by all institution components.

With various marketing model channels, the Unnes Halal Center will collaborate with internal units/institutions in business matters. In this realm, the business domain is the manager and organizer of the Business Center. The Unnes Halal Center is a laboratory service focusing on research and development. This business collaboration could become a role model between institutions/units at the Unnes Halal Center. Seeing the broad and profitable potential, this collaboration could be through other parties such as canteens, faculties, and cooperatives that provide food and beverage products. In this case, the halal side of products and materials also invites the Universitas Negeri Semarang community to agree more with the halalness of all aspects. What is more innovative is developing halal, where many female students wear clothes that do not meet halal standards. Through a business approach, it also changes and encourages Islamic brotherhood and student morals. There are various internal and external business potentials related to the existence of the Unnes Halal Center:

No	Potency	Related parties
1	Halal Food	Unnes Halal Center, Faculties at Universitas Negeri
		Semarang, Canteen, Cooperative, Food and beverage provider/distributor.
2	Halal Fashion	Community, Universitas Negeri Semarang Commu- nity
3	Halal Tourism	Regional Government, Central Government, Travel, EO

Table 5. Unnes Halal Center Business Potential [28]

3.3 Meaning and Application of Halal Concepts in Industry

Indonesia has the most significant Muslim majority and the largest Muslim population compared to other countries [31]. Based on this data, in 2020, the population of Indonesia will reach 269,413,457 people, and the number of Indonesian Muslims still dominates at around 237,083,842 people (88%) of the total population of Indonesia [32]. Current global market conditions, based on the needs and preferences of many Muslims throughout the world, have given rise to intense competition in the industrial sector [33]. This creates opportunities for companies to exploit the halal product market, especially in emerging markets. This sector (halal industry) is increasingly attracting the attention of policymakers and entrepreneurs as an industry with increasing growth potential [34; 35].

Data on the population and purchasing power of Muslims throughout the world shows an increase and strengthening of the halal lifestyle trend among them. For the 1.6 billion Muslim population, halal lifestyle has become a new pattern. This is confirmed by the State of the Global Islamic Economy 2017-2018, which reports that current halal business and industry trends continue to show progress, including business in the halal food sector, halal tourism (halal travel), halal media and recreation (halal media and recreation), halal pharmaceuticals and cosmetics (1).

In the past, the halal concept was only a concern for Muslims, but now, the halal concept has become a global concern in all business and industrial sectors [36; 37]. Public attention to halal products shows greater awareness among Muslims about the need for halal products. The increase in Muslim spending on the halal business and industrial sectors will increase due to several main supporting factors, namely the growth of the Islamic economy, demographic growth, business practices, and lifestyles that focus on halal orientation. The application of the halal concept in the industrial sector has become a necessity for Muslim and non-Muslim countries. Globally, the halal industry market segment has proliferated in Muslim and non-Muslim countries.

The halal terminology is identical to Islamic law's teachings [38]. Halāl's meaning has been more often associated with drinks and food. The context of "eat what is halal and good" in this verse has a more general meaning, namely covering all actions and deeds related to human life activities [39]. The meaning of the halal concept in industry refers to compliance with Islamic law, which ensures that products and production processes meet halal standards. In the food, beverage, cosmetics, and pharmaceutical industries, halal means that the product does not contain prohibited ingredients such as pork and alcohol, is processed cleanly and is not contaminated [40]. Implementing the halal concept includes procurement of raw materials originating from halal sources, production processes that prevent cross-contamination with non-halal products, and separate storage and distribution to maintain product halalness. Halal certification is also essential, where products are assessed and approved by authorized institutions to ensure that all aspects of production comply with halal standards. This implementation not only increases Muslim consumer confidence but also expands the market and product competitiveness in the global market.

3.4 Opportunities and Challenges for the Halal industry in Indonesia

The opportunities for the halal industry in Indonesia are tremendous, considering that this country has the largest Muslim population in the world, with more than 230 million potential consumers who are increasingly aware of the importance of halal products. Through regulations and policies that encourage the development of the halal industry, government support strengthens this ecosystem. Apart from the large domestic market, Indonesia also has excellent opportunities to export halal products to the global market, which continues to grow [41]. Sectors such as food and beverages, cosmetics, medicines, and halal fashion show significant growth, driven by increasing consumer demand and awareness. Investments in halal certification, research, and development of innovative products can further strengthen Indonesia's position as the center of the world's halal industry.

The market potential for halal products in Indonesia is enormous, even including the largest in the world. Moreover, the use of halal products in the Indonesian market is increasing. In 2017, the total consumption of halal products in Indonesia was recorded at US\$ 200 billion, or more than 36% of total household consumption. Consumption of halal products will continue to grow with an average growth of 5.3%. In 2025, it is estimated that Indonesia's consumption level of halal products will reach 330.5 billion US dollars [42].

The opportunity to develop the halal industry, which has become a trend in the global community, is an opportunity for the halal industry in Indonesia to become the center of the world's halal industry [43]. The world community has recognized Indonesia as one of the countries that focuses on developing the halal industry. The State of the Global Islamic Economy Report 2020/2021 notes that Indonesia is ranked fourth in the world out of 15 countries in the Top 15 Global Islamic Economy Indicator Score Rank. Ranked second in the fashion sector, fourth in the world in the halal food sector, fifth in the media and recreation sector, and sixth respectively in the Islamic finance, travel, pharmaceutical, and cosmetic sectors [1]

On the other hand, the halal industry in Indonesia generally has two challenges [44; 45]: external and internal. Challenges always exist in the business world and are an inevitable part. However, with an optimistic attitude, intelligence in reading opportunities, and the right solutions, all these challenges and obstacles will be overcome. The desire of business people to get big profits through destructive methods, namely by selling haram products, will cause them to lose trends and customers and ultimately harm themselves. So, providing halal products becomes part of a business need and is no longer an option.

Table 6. Internal and External Challenges of the Unnes Halal Center [31; 46; 47; 48]

Challenge		Explanation
External	Many competing countries	Competing countries emerge from Muslim countries and non-Muslim countries. This will affect the absorption capacity of Indonesian halal products in the global arena, the quality of products and services so that they are able to compete with competing countries so that they do not become a passive country or a country that is only a market and con- sumer of world halal products

Internal	There is no uni- formity of glob- ally agreed halal certification incompatibility of Muslim countries in setting halal product standards lack of halal awareness among Indonesian society	Each country has its own halal certification standards. This conditio one of the things that needs serious attention for Indonesia which is try- ing to develop its halal industry to the world stage. Indonesia can emerge as a pioneer in initiating world halal certification standards. The incompatibility of Muslim countries in the world in setting stand- ards for halal products is a challenge for the Islamic world. This makes countries with a majority of non-Muslims take a big role in producing halal products. In fact, the issue of halal products is a sharia matter so it should be managed by an organization or accreditation body that has expertise and sensitivity to the Islamic faith Halal awareness is closely related to knowledge, understanding and the level of religiosity of the community, so it requires more intense social- ization by related parties, in order to provide understanding and aware- ness of the halal lifestyle for the community, especially in consuming halal products.
	problems of Law Number 33 of 2014 concerning Halal Product Guarantees.	Since Law Number 33 was enacted in 2014, its implementation only came into effect on October 17 2019. Even after it was enacted in 2019, this Law still takes time because halal certification obligations are carried out in stages. This shows how slow the implementation of regulations in the country is, as well as showing the weak implementation of halal certification for the halal industry.

3.5 Unnes Halal Center Development Roadmap

Developing the halal industry in Indonesia, especially in the city of Semarang, requires the contribution of many parties, giving rise to various institutions and policies. With the establishment of the National Committee for Sharia Financial Economics (KNEKS) and the Regional Committee for Sharia Financial Economics (KDEKS), they have shown their contribution in supporting the development of the Indonesian halal industry roadmap, especially in Semarang City. It is necessary to initiate a blueprint for sharia economic and financial development. Apart from that, the birth of this institutional body is regulated in Law No. 33 of 2014 concerning Halal Product Guarantees. The task of this body is to produce regulations that explain Halal Product Guarantees as the legal basis for implementing halal product guarantees, so this law is binding on all business actors in Indonesia.

Table 7. Unnes Halal Center Development Roadmap [49; 50]

Stages	Scope of Semarang City	University Scope
Stage 1: In-	1. Public Education Cam-	1. Formation of a Working
creased	paign:	Team: Forming a working team
Awareness	• Carrying out halal aware-	consisting of halal experts, aca-
and Under-	ness campaigns through local	demics and industry practitioners
standing	media, seminars and work-	to design and develop the Unnes
	shops.	Halal Center.
		2. 🗆 Strategic Planning: Identi-
		fying the vision, mission and

Conduct • outreach in schools, universities and communities about the importance of halal products. 2. Education and Training: Integrate material about • halal in the local education curriculum. Organizing training for • business actors regarding the certification process and halal standards. Stage 2: 1. **Regulatory Development:** Strengthen-• Collaborate with city ing Regulagovernments to implement tions and regulations that support the Infrastruchalal industry. ture Improve coordination between halal certification bodies and local governments to ensure consistent standards. 2. Infrastructure Development: • Building a halal research and development center in Semarang. Increase laboratory capacity and halal testing facilities in the city. Support for MSMEs: 1. • Providing technical and assistance financial to MSMEs to produce halal products. • Providing easier access to certification facilities for local MSMEs. 2. Product Innovation: • Encourage research and development of innovative halal products. • Develop new halal prod-

ucts that have high competitiveness in local and national markets.

long-term goals of the Unnes Halal Center and formulating strategic plans to achieve these goals.

1. Facility Development: Building adequate laboratory facilities and research centers to support halal testing and research activities.

2. Recruitment of Experts: Recruit competent experts in the halal field, including scientists, food experts and halal certification experts.

1. Research and Development: Initiate research programs to generate new knowledge about halal and develop new technologies for the halal industry.

2. Education and Training: Organizing education and training programs for students, business people and the general public regarding halal and halal certification.

3. Halal Certification: Introducing trusted and quality halal certification services to support the food, beverage, cosmetics and pharmaceutical industries in Semarang and its surroundings.

Stage 3: Increased Production and Innovation

Stage 4: Market Ex- pansion and Increased Exports	 Domestic Market Development: Increasing distribution of halal products in the local market of Semarang. Building partnerships with modern and traditional retailers to market halal products. Export Strategy: Targeting the international market with high quality halal products from Semarang. Participating in international exhibitions and promoting Semarang halal products in the global market. 	 Industrial Cooperation: Building partnerships with local industrial players to support the development of halal products and improve the quality of halal certification. Research Collaboration: Col- laborate with other research insti- tutions and universities to con- duct joint research and exchange knowledge in the halal field. International Cooperation: Developing working networks with halal-related international institutions and organizations to support information exchange and technology updates.
Stage 5: Digitaliza- tion and Technology	 Technology Integration: Using technology to increase the efficiency of production and distribution of halal products. Developing a digital platform for certification and tracking of halal products. E-Commerce: Increasing the presence of Semarang halal products on e-commerce platforms. Utilizing blockchain technology to ensure transparency and consumer trust in halal products. 	 Halal Industry Promotion: Carrying out promotional cam- paigns to increase public aware- ness about the importance of halal products and the existence of the Unnes Halal Center as a center of halal excellence. Policy Advocacy: Influ- encing government policies and related institutions to create a regulatory environment that sup- ports the growth of the halal in- dustry in Semarang and its sur- roundings.
Stage 6: Monitoring and Evalua- tion	 Periodic Monitoring: Conduct regular audits and evaluations of halal producers and products in Semarang. Develop an effective monitoring system to en- sure compliance with halal standards. Strategy Adjustment: 	1.Performance Monitoring: Con- duct regular evaluations of the Un- nes Halal Center's performance in achieving its goals and ensure that all activities run according to plan. 2.Strategy Adjustment: Adapting strategies and work plans based on evaluation results to ensure suita- bility to developments in the halal industry and community needs.

Make strategy adjustments based on evaluation results and feedback from industry players and consumers.
Identifying new opportunities and emerging challenges to continue improving the halal industry in Semarang.

3.6 Post-Law Certification Number 33 of 2014 concerning Halal Product Guarantees

Halal Product Guarantee must be implemented in Indonesia to provide security, comfort, safety, and availability of halal products to all Indonesian people, especially Muslims [51]. The existence of certification will also increase added value for companies in selling and producing their products by Article 3 of the JPH Law. With the Halal Product Guarantee Law (UU JPH), it is hoped that all products imported or circulating in Indonesia will have a halal certificate [52]. The issuance of the JPH Law brought changes, especially regarding the institutions administering halal certification. BPJPH collaborates with several institutions, such as ministries, LPH, and MUI, to realize the JPH Law. BPJPH collaborates with the Halal Inspection Institute (LPH) to conduct product audits. Meanwhile, in determining the fatwa, BPJPH collaborates with the MUI by issuing a decision to determine halal products through a halal fatwa trial [53]. The differences in these certifications are more fully explained in the table below:

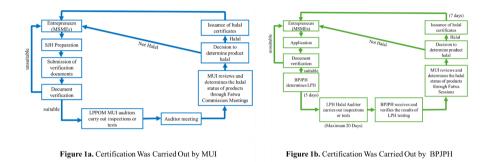
Before the JPH Law	After the JPH Law
Certification is voluntary	Certification is mandatory
The Indonesian Ulema Council (MUI) is	BPJPH is the main institution authorized
the institution with authority in the halal	in the halal certification process
certification process	
Certification is carried out by non-gov-	Certification is carried out by govern-
ernmental organizations or non-govern-	ment institutions under the Ministry of
mental organizations	Religion
LPPOM MUI is an institution that carries	The Halal Inspection Institute (LPH) is
out audits or inspections of halal prod-	the institution that carries out the audit
ucts	
The certificate is valid for two years.	The certificate is valid for 4 years. Has
Does not yet have strong legal legitimacy	strong legal certainty. There are criminal
	sanctions and fines for business actors
	who do not maintain the health of prod-
	ucts that have been certified halal.

Table 8. Differences in Pre-Post Certification Law no. 33 of 2014

Short certification flow: business actor \rightarrow LPPOM MUI \rightarrow MUI

The certification process is longer: business actor \rightarrow BPJPH \rightarrow LPH \rightarrow BPJPH \rightarrow MUI

Initially certification was carried out by MUI through LPPOM MUI (Figure 1a). After the formation of BPJPH, the certification flow underwent slight changes (Figure 1b) [43]



The LPPOM MUI certification flow is as follows: (1) Business actors prepare all complete documents; (2) Verify documents by LPPOM MUI; (3) Conduct audits carried out by LPPOM MUI auditors; (4) MUI reviews and determines product halal; (4) Issuance of halal certificates. The explanation of the image above is as follows: (1) Business actors make an application for certification and attach the required documents; (2) BPJPH will verify the attached required documents; (3) Conduct product audits and inspections carried out by LPH; (4) Submit the results of the inspection of the MUI to issue a fatwa; (5) Issue a halal certificate if it has passed the audit.

3.7 Urgency of Development of the UNNES Halal Center

The Unnes Halal Center is a center of excellence established by Universitas Negeri Semarang (UNNES), focusing on developing halal science, certification, product innovation, and education. As an institution committed to supporting the growth of the halal industry, the Unnes Halal Center offers various services and programs designed to meet the needs of the industry and society. The following is a general description of the Unnes Halal Center [28]: (1) Research and Development Center: Unnes Halal Center provides laboratory facilities and research centers equipped with sophisticated equipment to carry out testing, research, and development of halal products; (2) Halal Certification Services: As a recognized and trusted institution, the Unnes Halal Center offers halal certification services for food, beverage, cosmetics, and pharmaceutical products. This helps manufacturers ensure that their products meet strict halal standards; (3) Education and Training Programs: Unnes Halal Center organizes education and training programs for students, business people, and the general public on various aspects of the halal industry, including halal principles, certification processes, product innovation, and halal management; (4) Industrial Partnerships and Work Networks: Unnes Halal Center establishes partnerships with industry players, government and other related institutions to expand work networks and support the growth of the halal industry as a whole; (5) Public Education Campaign: To increase public awareness about the importance of halal products, the Unnes Halal Center is also active in carrying out public education campaigns through seminars, workshops and other outreach activities.

The development of the UNNES Halal Center has significant urgency in the context of developing the halal industry in Semarang and its surroundings. First of all, Indonesia, as the country with the largest Muslim population in the world, places the need for halal products as a top priority. In this context, the UNNES Halal Center becomes very important as an institution capable of developing halal-related science, technology, and services [54]. The presence of the UNNES Halal Center supports the food and beverage industry and the cosmetics, pharmaceutical, and other industries, which are increasingly paying attention to the need for halal certification to increase the competitiveness of their products in domestic and international markets. Apart from that, the UNNES Halal Center also plays a vital role in providing education and training about halal principles to the public, business people, and students, which will increase awareness and understanding of the importance of halal products. Thus, the development of the UNNES Halal Center is an urgency that cannot be ignored in supporting the growth of the halal industry, improving community welfare, and strengthening Semarang's position as a competitive halal industry center.

Analysis of the problem solving approach begins by analyzing the potential for developing halal products that have not been managed optimally [55]. So the Faculty of Economics and Business, Universitas Negeri Semarang initiated the formation of the Unnes Halal Center as an effort to develop halal products and a halal product guarantee system through socialization, mentoring, apprenticeship, research and development of halal products. Optimizing the performance of the Unnes Halal Center can be realized by collaborating through a memorandum of understanding with the Halal Product Guarantee Organizing Agency under the Ministry of Religion; Halal Inspection Institutions established by universities, Islamic foundations or associations and the Indonesian Ulema Council as well as other parties involved in developing halal products [9]. This was done by the Faculty of Economics and Business to respond to the great opportunity of the global market in the halal industry. So the hope is that halal products and industries in Central Java Province, especially Semrang City, will guarantee the quality of their halal products so they can compete in the global market. Apart from that, it is hoped that the Unnes Halal Center will be able to provide an understanding of the importance of halal certification in developing halal products, guiding MSMEs in Central Java Province, especially Semarang City, so that they can play an active role in the competition in the halal industry so that they can improve their economic level.

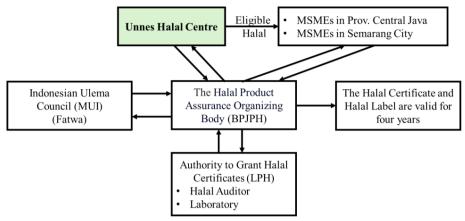


Figure 2. Design of the MSME Halal Certification Model

4 Conclusion

Capital and agency policies influence the Unnes Halal Center's collaboration with other institutions. The primary collaboration strategy is the use of government assistance funds. Halal centers can collaborate with various ministries or institutions in terms of their role as companions and coaches for MSMEs in implementing the Halal Guarantee System, such as with the Ministry of Religion, Department of Manpower, Cooperatives & UMKM, Bank Indonesia, Bank Jateng, Department of Industry and Trade, and Banks Sharia Indonesia. The intended development of cooperation can be in the form of cooperation to facilitate halal certification for MSMEs, education, and provision regarding halal certification. Apart from that, the Halal Center can also collaborate with private companies supporting halal obligations in Indonesia. This research only involved food and beverage MSMEs in Semarang City and several experts from the government and universities. Further studies could involve MSMEs in the medicine and cosmetics sector outside Semarang City.

5 References

- 1. The State of Global Islamic Economy. State of the Global Islamic Economy Report: Thriving in Uncertainty. Abu Dhabi: DinarStandard; 2020.
- Kementerian Perindustrian Republik Indonesia. Produk Halal RI Belum Mendominasi. [Internet]. 2009 [cited 2024 Jul 28]. Available from https://kemenperin.go.id/artikel/1830/Produk-HalalRI-Belum-Mendominasi
- Bank Indonesia. Indonesia Halal Lifestyle Center, DinarStandar. Indonesia Halal Markets Report 2021/2022. Jakarta: Bank Indonesia; 2021.
- 4. Tjiptono F, Chandra G. Service, Quality & Satisfaction (3th ed.). Jakarta: ANDI; 2011.
- 5. Kotler P, Gary A. Marketing Management (14th ed.). Boston: Pearson Education; 2013.

P. Y. Jayanto et al.

- Tripayana S, Pramono J. Product Quality, Service and Customer Loyalty Where Satisfaction is an Intervening Variable in Tourism Start Up UKM Kombuchi Brewing Co, Bali. Journal of Economics, Management, Accounting and Taxation. 2023; 2(2): 78-95. https://doi.org/10.24167/jemap.v2i2.2266
- 7. Mardiwati K. Why Is A Product Important And Why Is It Important For A Product To Be Certified For Halal Certification. Jakarta: Al Azhar Halal Center; 2020.
- 8. Hanzaee KH, Ramezani MR. Intention To Halal Products In The World Markets. Interdisciplinary Journal of Research in Business. 2011; 5(1):1-7
- 9. Muhtar A, Butt MM. Intention To Choose Halal Products: The Role Of Religiosity. Journal of Islamic Marketing. 2012; 3(2): 108-20. https://doi.org/10.1108/17590831211232519
- Masruroh N. The Competitiveness of Indonesian Halal Food Exports in Global Market Competition Industry. Economica. 2020; 11 (1): 40-65. https://doi.org./10.21580/economica.2020.11.1.3709
- Bohari AM, Hi CW, Fuad N. 2013. An Analysis On The Competitiveness Of Halal Food Industry In Malaysia: An Approach Of SWOT And ICT Strategy. GEOGRAFIA Online: Malaysia Journal of Society and Space. 2013; 9 (1): 1-11.
- Indonesia Sharia Economic Festival. Seeing the Potential of the Global Halal Industry. [Internet]. 2023 [cited 2024 Aug 01]. Available from https://isef.co.id/cat-article/seeing-thepotential-of-the-global-halal-industry/
- Arsil P, Wicaksono R, Hidayat HH, Novitasari D. (2022). Halal Institution Development Cooperation Strategy: Implementation at the Halal Center. Scientific Journal of Islamic Economics, 2022; 8 (01): 590-8. https://doi.org/10.29040/jiei.v8i1.3794
- Khoeron M. BPJPH: Fatwa Penetapan Kehalalan Produk, Kewenangan MUI. [Internet]. 2023 [cited 2024 Aug 01]. Available from https://kemenag.go.id/pers-rilis/bpjph-fatwapenetapan-kehalalan-produk-kewenangan-mui-8ap2st
- 15. Universitas Mathla'ul Anwar. Proposal Bantuan Sosial Provinsi Banten Tahun 2019. Banten: Pusat Kajian Produk Halal Universitas Mathla'ul Anwar; 2019.
- Sukoso. Badan Penyelenggara Jaminan Produk Halal (BPJPH) Kementerian Agama. 2023 [cited 2024 Aug 01]. Available from https://bikinpabrik.id/wp-content/uploads/2019/03/Persentasi-LPH-dan-Halal-Center-Kepala-BPJPH.pdf
- Adirestuty F, Refsanjani MA, Monoarfa H, Hardiansyah K. Prioritas Strategi Pengembangan Industri Halal di Kabupaten Tasikmalaya: Pendekatan Analytical Hierarchy Process. Jurnal Edukasi (Ekonomi, Pendidikan dan Akuntansi), 2023; 11 (1): 89-97. http://dx.doi.org/10.25157/je.v11i1.10664
- Barnett JM. Intermediaries Revisited: Is Efficient Certification Consistent with Profit Maximization?". The Journal of Corporation Law, 2012; 37(3): 465-502.
- Prabowo, S., Rahman, AAR, Sammah, AA. Revealing factors hindering halal certification in East Kalimantan Indonesia. Journal of Islamic Marketing. 2015; 6 (2): 268-291. https://doi.org/10.1108/JIMA-05-2014-0040
- Badan Penyelenggara Jaminan Produk Halal Kementerian Agama RI. Revisi Rencana Strategi Bisnis Badan Penyelenggara Jaminan Produk Halal Tahun 2020-2024. Jakarta: Kementerian Agama RI; 2019.
- Malahayati EN, Faizah NA. Sosialisasi Program Sertifikasi Halal Gratis (SEHATI) Skema Self-Declair bagi Pelaku Usaha Mikro Kecil Menengah (UMKM) di Desa Ringinrejo. Jurnal Inovasi Pengabdian dan Pemberdayaan Masyarakat. 2023, 3 (1): 427-34. https://doi.org/10.54082/jippm.102
- Fitri ZE, Mardiah. Kajian Sertifikasi Halal Gratis (Sehati) Dengan Skema Self Declare Pada Umkm Dapur Mimi. Jurnal Pangan Halal. 2023; 5 (1): 6-15. https://doi.org/10.30997/jiph.v5i1.9996

- 23. Supriyadi A, Rustandi A, Komarlina DH, Ardiani GT. Analytical Hierarchy Process (AHP) Teknik Penentuan Strategi Daya Saing Kerajinan Bordir. Perbit Deepublish (CV Budi Utama); 2018.
- Rachman A, Sangare B. Synergy And Collaboration Between Government And Private Institutions In Building Halal Ecosystems In Indonesia. Jurnal Ilmiah Islam Futura. 2023; 23 (2): 82-90. http://dx.doi.org/10.22373/jiif.v23i2.17507
- 25. Borzooei M, Asgari M. Establishing a Global Halal Hub: In-Depth Interviews. International Journal of Academic Research in Business and Social Sciences. 2013; 3 (10): 169-181.
- Ibrahim H, Kamaruddin R, Shabudin A. Halal Development System: The Institutional Framework, Issues And Challenges For Halal Logistics. IEEE Symposium on Business, Engineering and Industrial Applications (ISBEIA). 2021: 97-102. https://doi.org/10.1109/ISBEIA19564.2012
- 27. Saharuddin D, Ahmad R. Indonesia's Halal Industry Development Strategy: The Road Map Towards The Global Halal Industry Center. The 3rd International Research conference on Business and Economics (The 3rd IRCBE). 2020: 53-70.
- Hidayat R, Zulham, Ramadi B. Development Strategy For Halal Center In University: A Technical Recommendation. Human falah: Jurnal Ekonomi dan Bisnis Islam. 2024; 11 (1): 17-35.
- Rum M, Zuhriyah A. Halal Industry in Madura: Development Model and Strategy. Dinar: Jurnal Ekonomi dan Keuangan Islam. 2023; 10 (1): 1-12. https://doi.org/10.21107/dinar.v8i2.9954
- Syalawaty D, Rifli DF, Saputra A, Utami W, Tanti T, Deliza D, Syafitri R, Widiyanto. The Relevance of Establishing a Halal Study Center at State Islamic University. Journal of Quality Assurance in Islamic Education (JQAIE), 2021; 1(1), 33–40. https://doi.org/10.47945/jqaie.v1i1.395
- 31. Satriana ED, Faridah HD. Wisata Halal: Perkembangan, Peluang, Dan Tantangan. Journal of Halal Product and Research (JHPR). 2018. 01 (02): 33-43.
- Zamani-Farahani H, Henderson JC. Islamic tourism and managing tourism development in Islamic societies: the cases of Iran and Saudi Arabia. International Journal of Tourism Research. 2009; 12 (1): 78-89. https://doi.org/10.1002/jtr.741
- 33. Organisation of the Islamic Conference. Framework for Development and Cooperation in the Domain of Tourism between OIC Member States 2008–2018. [Internet]. 2008 [cited 2024 Aug 02]. Available from https://www.oic-oci.org/docdown/?docID=2983&refID=1101
- 34. Evans A, Syed S. From Niche to Mainstream: Halal Goes Global. Geneva: In International Trade Centre; 2015.
- 35. Ahmed MJ, Akbaba A. Halal tourism: Definitional, Conceptual And Practical Ambiguities. Journal of Tourism Research Institute. 2020; 1 (2): 13-30.
- Elias EM, Othman SN, Yaacob NA, Saifudin AM. A Study of Halal Awareness and Knowledge Among Entrepreneur Undergraduates. International Journal Supply Chain Management. 2016; 5 (03): 147-152.
- 37. Oppermann M, Chon KS. Tourism in Developing Countries. London: Thomson; 1997.
- Riaz MN, Chaudry MM. Handbook of Halal Food Production. Boca Raton: CRC Press; 2019.
- Riaz S, Ghayyas M. A Shariah Perspective Study on the Concept of Halal Food. Journal Of Social Sciences Review. 2023; 3 (1) 86-92. https://di.org/10.54183/jssr.v3i1.77
- 40. Nordin M. Halāl linguistic meaning understanding among Non-Muslim in Malaysia. Journal of Islamic and Contemporary Issues. 2021; 6(2): 698-705.

P. Y. Jayanto et al.

- 41. Razali R, Syahputra A, Ulfah AK. Industri Halal di Aceh: Strategi dan Perkembangan. *Jurnal Al-Qardh*. 2021; 6(1), 17–29. https://doi.org/10.23971/jaq.v6i1.2733.
- Silalahi, SAF, Fachrurazi F, Fahham, AM. Factors Influencing Intention To Adopt Halal Practices: Case Study Of Indonesian Small And Medium Enterprises. *Journal of Islamic Marketing*. 2021; 13 (6): 109-120
- Adinugraha H, Andrean R, Ikhrom WA, Setyani RAG, Sibyani H, Mukarromah F, Fauzi UH, Ifiandri A, Masruroh I, Safitri A, Ikhlas S. *Development of the Halal Industry in Indonesia*. Pekalongan: Scientist Publishing; 2022
- 44. Fathoni MA, Syahputri TH. Potret Industri Halal Indonesia: Peluang dan Tantangan. *Jurnal Ilmiah Ekonomi Islam.* 2020; 6(3), 428. https://doi.org/10.29040/ jiei.v6i3.1146
- 45. KusnadiY. Industri Halal di Indonesia: Potensi dan Tantangan. PT RajaGrafindo Persada; 2018.
- Samsul S, Muslimin S, Jafar W. Peluang dan Tantangan Industri Halal Indonesia Menuju Pusat Industri Halal Dunia. *Al-Azhar Journal of Islamic Economics*. 2022; 4(1), 12–24. https://doi.org/10.37146/ajie.v4i1.135
- 47. Yulia L. Halal Products Industry Development Strategy Strategi Pengembangan Industri Produk Halal. *Jurnal Bisnis Islam.* 2015; 8(1), 121–162.
- Herianti, Siradjuddin, Efendi A. Industri Halal Fashion dari Perspektif dan Perkembangannya di Indonesia. *Indonesia Journal of Halal*. 2023; 6(2):56-64. https://doi.org/10.14710/halal.v6i2.19249
- 49. Komite Nasional Ekonomi dan Keuangan Syariah. *Master Plan Industri Halal Indonesia* 2023-2029. Jakarta: Komite Nasional Ekonomi dan Keuangan Syariah; 2020.
- Rachman MA, Syamsuddin. Halal Industry in Indonesia: The Role of Sharia Financial Institutions in Driving Industrial and Halal Ecosystem. *Allqtishad: Jurnal Ilmu Ekonomi Syariah*, 2019; 11 (1): 35-58.
- 51. Faridah HD. Halal Certification In Indonesia; History, Development, And Implementation. *Journal Of Halal Product And Research*. 2019; 2 (2): 68-78.
- Anzellyta T, Fittria A. The Effectiveness Of The Halal Product Guarantee Law On Business Awareness In Registration Of Halal Certification In Indonesia. *Walisongo Law Review*. 2022; 4 (1): 98-120
- 53. Muslimin JM. Halal Product Guarantee in Indonesia: Regulation and Social Inclusion. *Shirkah Journal of Economics and Business*. 2019; 4 (1): 102-121. https://doi.org/10.22515/shirkah.v4i1.259
- Marnita. Directions for the Development of the Halal Ecosystem in Public Policy: A Study of Islamic Law and Legislation in Indonesia. *Al-Ishlah: Jurnal Ilmiah Hukum*. 2024; 27 (2): 156-177. https://doi.org/10.56087/aijih.v27i2.477
- 55. Sukoso Wiryawan A, Kusnadi J, Sucipto. *Ekosistem Industri Halal*. Jakarta: Departemen Ekonomi dan Keuangan Syariah Bank Indonesia; 2020.

Open Access This chapter is licensed under the terms of the Creative Commons Attribution-NonCommercial 4.0 International License (http://creativecommons.org/licenses/by-nc/4.0/), which permits any noncommercial use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons license and indicate if changes were made.

The images or other third party material in this chapter are included in the chapter's Creative Commons license, unless indicated otherwise in a credit line to the material. If material is not included in the chapter's Creative Commons license and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder.

$\overline{()}$	•	\$
\sim	BY	NC