This book provides a comprehensive overview of Halal in logistics, supply chain management and the future implications for the Halal industry. It discusses a wide range of Halal logistics practices and theories in Japan, Korea, Spain, Oman and Southeast Asian countries.

The book examines technology applications, regulatory and certification procedure, Halal management system and quality control, and sustainability, as well as challenges for the logistics and Halal supply chain in the pandemic context. The book also looks at how to navigate the complexity of Halal logistics to achieve business sustainability. It uses a multidisciplinary approach to provide insights on the Halal logistics and supply chain study.

This book hopes to fill an existing gap and enrich the literature on Halal logistics and supply chain management specifically in the West, Middle East and regions in Asia. This will be a useful reference to those who would like to learn more about this industry.

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Ismah Osman obtained a PhD in Islamic Banking and Finance from the International Islamic University (2011), an MBA from the University of Keele, UK (1997) and a Human Sciences Degree Programme from the International Islamic University (1994). She joined UiTM in 2000. She has been a lecturer at UiTM for 21 years, and her research interests are Halal management and marketing, Islamic economics and entrepreneurship. She is currently an assistant editor for the *Journal of Islamic Marketing*, an executive editor for the *Malaysian Journal of Consumer and Family Economics*, as well as an Exco member of the Malaysian Consumer and Family Economics Association. She holds a professional certificate of Islamic Financial Planning and an Associate Qualification in Islamic Finance from IBFIM. She is also an HRDF Certified Trainer and a Halal Trainer (certified by HDC). She is an MQA panel member for programme accreditation.

Sharina Osman is a senior lecturer and the Head of Tourism at the Universiti Kuala Lumpur Business School. She earned her PhD in Management at the University of Exeter, UK, and Masters of Human Resource Management and BBA (Marketing) Honours from Universiti Utara Malaysia, Malaysia. Her research interests include identity, image and reputation, organizational culture, human resource development, gastronomic tourism, tourism destination identity and branding, participative tourism development and e-tourism. Dr Osman carries with her an array of experience which ranges from human resources to marketing (image and branding) and tourism. She is also on the Editorial Advisory Board for several journals and has been invited as keynote
or guest speaker for local and international seminars and conferences. Being in an academic and a research environment, coupled with vast hands-on experience in the industry, she helps organizations in competency and capacity-building through training and consultations. She believes in interacting and experiential learning and has conducted many workshops in different sectors, including government and private.

Suzari Abdul Rahim is a senior lecturer in the Graduate School of Business, Universiti Sains Malaysia. He received his PhD in Supply Chain Management from Brunel University of London, UK. His current research interests include Halal logistics and supply chain management, and investigating improvements for the Halal industry and community.

Nor Aida Abdul Rahman is Associate Professor at Universiti Kuala Lumpur, Malaysia and currently serves as a Head of Aviation Management at Universiti Kuala Lumpur, Malaysian Institute of Aviation Technology, in Subang, Selangor, Malaysia. She has worked as internal and external trainer in management, supply chain, Halal logistics and postgraduate research. Her research work has appeared in several reputable academic journals such as *Industrial Marketing Management*, *Journal of Islamic Marketing* and others. She has also published a number of book chapters and refereed conference proceedings, and been part of the editorial team for a book project with Routledge. She is on the working group panel of MS2400 Halal Supply Chain standard and TC10 for Halal Supply Chain Standard (SMIIC). She earned a PhD in Management (Supply Chain Management) from Brunel University, London, UK. She is also an academic advisor in college, a chartered member for the Chartered Institute of Logistics and Transport Malaysia (CILTM), an HRDF Certified Trainer, chairman (Academic Committee) for the Malaysian Association of Transportation, Logistics and Supply Chain Schools (MyATLAS), vice president (research journal) for the Institute for Research in Management and Engineering UK (INRME), JAKIM Halal Certified Trainer, UniKL Halal Professional Board and a member of Academy of Marketing, UK.

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Reasoning, TOPSIS, Risk Matrix, Broda Method, Bowtie, Critical Path Analysis, Evidential Reasoning, Fault Tree Analysis, Event Tree Analysis, Cause and Effect Analysis, SWOT/TOWS Analysis, etc.).

Raja Zuraidah Raja Mohd Rasi is an associate professor of Supply Chain and Operations Management at Universiti Tun Hussein Onn Malaysia. She received her Bachelor of Technology Management, majoring in Manufacturing from the Universiti Teknologi Malaysia; and holds a PhD in Industrial Sciences from Swinburne University of Technology, Melbourne, Australia. Her research interests include sustainable supply chains, sustainability and operations performance.

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Muhammad Zaly Shah obtained a BSc in industrial engineering from Bradley University, Peoria, Illinois, US, and an MSc and PhD in Transportation Planning from Universiti Teknologi Malaysia, Skudai Johor, Malaysia. He worked with a major Japanese manufacturing firm and an international airline before joining academia in 2002. Currently, he is a professor in the field of Transportation Planning at the Faculty of Built Environment and Surveying, Universiti Teknologi Malaysia. He has published extensively, and his articles have appeared in *Safety Science*, *Transport Review*, *Land Use Policy* and *Traffic Injury Prevention*, among others. His current research interests include pedestrian modelling and traffic safety. Muhammad Zaly Shah is a Chartered Fellow of the Chartered Institute of Logistics and Transport. He was the recipient of an Outstanding Teaching Award in 2007 and Outstanding Service Award in 2015. He also sits on the Board of Directors for Johor Public Transport Corporation – a government-linked corporation that regulates public transportation services in the state of Johor, Malaysia.

Mohd Farid Shamsudin is an associate professor of Universiti Kuala Lumpur specializing in marketing research. He has 22 years of experience working in the banking and telecommunication industries. Prior to joining UniKL he was a senior product manager at a large telecommunication company and actively participated in writing and attending conferences.
**Kosei Sugawara** is a coordinator and special officer of a Japanese non-governmental organization (NGO), coordinating many types of collaboration between Malaysia universities and companies. He is currently in Take Co. Ltd, as a director, operating subsidiary company business in Malaysia (Takeexco Malaysia Sdn Bhd) to control Halal-certified products and its sales in Malaysia and other ASEAN countries.

**Narissara Sujchaphong** is a lecturer at Mahasarakham Business School, Mahasarakham University, Thailand. She obtained a PhD in Management from Brunel University, and an MA in Marketing from London Metropolitan University, UK. She has published in internationally refereed journals. She has contributed to several books such as *Asia Branding* and *Branding in Higher Education*. Her research interests span areas of internal branding, university branding, B2B branding and brand-related leadership.

**Mohamed Syazwan Ab Talib** is an assistant professor of Logistics Management at the UBD School of Business and Economics, Universiti Brunei Darussalam. He holds a PhD in Management from Universiti Teknologi Malaysia, an MBA from Universiti Selangor, and a BBA from Universiti Teknologi MARA. He was a senior lecturer in Marketing at Azman Hashim International Business School, Universiti Teknologi Malaysia and formerly a lecturer in Logistics Management at the Faculty of Business and Information Science, UCSI University. His research and teaching focus primarily on logistics and supply chain management, specializing in Halal principles, distribution and standards.

**Mohd Iskandar bin Illyas Tan** is a senior lecturer at Azman Hashim International Business School (AHIBS). He holds a Doctor of Philosophy Degree in Information Science from the Faculty of Computing, Universiti Teknologi Malaysia. Due to his interest in entrepreneurship and frequent involvement in such activities, he co-founded a company called HOLISTICS Lab Sdn Bhd that commercialized QuikHalal, the cloud-based mobile Halal auditing application. HOLISTICS Lab is also a training provider recognized by JAKIM Halal Professional Board. He received various awards including the 2015 Halal Hi-Tech Challenge and received grants from UTM and PlatCOM Venture. In addition, he has been recognized by various agencies in Malaysia and has received support from the Halal Hub Division, JAKIM, Penang Islamic Affairs Department, Penang International Halal Hub, Malaysian Global Innovation and Creativity Center (MaGIC), Malaysian Industry-Government Group for High Technology (MiGHT) and the Ministry of Higher Education, Malaysia to further develop QuikHalal.

**Ramayah Thurasamy** is currently a professor of Technology Management at University Sains Malaysia, a visiting professor at King Saud University, Kingdom of Saudi Arabia, Universiti Malaysia Sarawak, (UNIMAS) and Universiti Teknologi Malaysia (UTM), and an adjunct professor at Sunway University, Multimedia University (MMU) and Universiti Tenaga Nasional (UNITEN), Malaysia. He graduated with a Master’s of Business administration
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**Fathien Azuien Yusriza** graduated from the Malaysian Institute of Aviation Technology (UniKL MIAT), Subang, Malaysia with a Bachelor’s Degree in Aviation Management. She is also a Master’s candidate at UniKL MIAT, where she is furthering her research study on the effectiveness of aviation’s supply chain management operation. Her interest in research relating to aviation’s procurement supply chain began from the day she completed her undergraduate thesis on the effectiveness of inventory management in airline operation. She will complete her Master’s by the end of 2022 and aspires to serve and bring meaningful conversations to the table that will benefit the aviation industry as a whole.

**Haliza Mohd Zahari** is a senior lecturer at the Faculty of Defence Studies and Management, National Defence University of Malaysia (NDUM). Prior to her NDUM secondment in 2018, she served the Royal Malaysian Navy for 25 years as a naval officers. Haliza Zahari holds a PhD in Technology, Operation and Logistics from Universiti Utara Malaysia. Her research interests are defence logistics, humanitarian logistics, supply chain management and logistics and transportation. She has been teaching Logistics and Supply Chain Management courses for undergraduate and Procurement Management for Master’s in Business Administration. Currently she is working on three Ministry of Education grants: Team Leader for Transdisciplinary Research Grant Scheme (TRGS) on Humanitarian Logistics Support Research, Team Leader for Fundamental Research Grant Scheme (FRGS) on Eliminating Old Vehicle Impacts Towards B40 Well-Being Research and as a Team Members in FRGS research on Depression, Anxiety, Stress, Work Life Balance and Emotional Intelligence in Malaysian Armed Forces. She is an active member of the Chartered International of Logistics and Transportation.

**Ruzaidin Mohammed Zain** is a graduate research assistant at the National Defense University of Malaysia (NDUM) where he is pursuing a doctorate in Humanitarian Logistics. Prior to his appointment in NDUM, he served for 13 years as a Naval Officer in the Royal Malaysian Navy. Graduating with a Master’s degree in Project Management from the University of Malaya, he is very interested in the research areas of defence logistics, humanitarian supply chain management and project management. His current research projects are on logistics support coordination in humanitarian aid and disaster relief, as well as studying the impact of old vehicle elimination towards low-income population well-being. He is actively involved in both projects as a research team member.

**Siti Balqis Zulfigar** is a senior lecturer at Bioprocess Technology Industry at the School of Industrial Technology, Universiti Sains Malaysia. As a strong advocate of green technologies, her research interest focuses especially on biocatalysis, enzymatic hydrolysis and unearthing bioactive peptides from
natural resources. She is currently teaching the undergraduate subjects of Enzyme Technology, Safety and Quality of Bioprocess Products and Practical of Downstream Processing at Universiti Sains Malaysia.

Nur Najihah binti Zulkifli was born in Jitra, Kedah and had her secondary education at Maahad Muhammadi Perempuan, Kota Bharu. She currently is in her final year pursuing Bachelor of Science with Honours (Food Biotechnology), in Universiti Sains Islam Malaysia (USIM). She is one of the committee members in the Halal Istihlak (Consumerism) Seminar, Exhibition and Competition (HISEC 2018) organized by Institute of Halal Research and Management, USIM. She also involved with the Activities Committee in the Halal Food Seminar (HAFOS 2019), organized by USIM. She enjoys travelling and has participated in voluntary works internationally through Global Islamic Society Outreach (GISO) to Yogyakarta, Indonesia as a vice-president. Enthusiastic in learning foreign languages, she enrolled in multiple elective classes for Mandarin, Japanese and French language during her study years in USIM. She currently is an intern student at International Institute for Halal Research and Training. Najihah hopes to complete her degree and works as a competent food biotechnologist in the Halal industry or related fields.
Introduction

Nor Aida Abdul Rahman, Azizul Hassan and Hajjah Zawiah Abdul Majid

The Halal industry is seen as a key vehicle for economic growth for many countries, including non-Muslim countries. It stimulates the economy through import-export activities, tourism and travel, and value-added trade, as well as industry and academic research. The Halal industry has expanded from Halal food and beverage to Halal banking, Halal hotels, Halal tourism, Halal retailing, Halal auditing, Halal clothing, Halal cleaning and Halal logistics. Halal logistics is an innovation in the logistics industry where it refers to the Halal management system in maintaining Halal integrity of the Halal product throughout the supply chain, especially focusing on transporting and warehousing activities. The aim of Halal logistics is to maintain the integrity of Halal status products from the point of origin to the point of consumption. It ensures the activities and equipment used in handling Halal products throughout transport and warehouse activities are in accordance with Islamic law or known Shariah principles.

This book is unique in providing a composite overview of Halal in the logistics and supply chain areas by groundbreaking research, application, theoretical, review, conceptual model and experience by practitioners as well as academicians. Expert contributors from research and practice provide relevant discussion on Halal logistics and supply chain issues across the globe. This book is very special as it gathers its contributors from three regions, namely Asia, the Middle East and the West. The contributors are from Spain, the United Kingdom, South Korea, Japan, Oman, Thailand, Brunei and Malaysia.

This not only opens up new areas for future research in the wider context of Asia, the West and the Middle East, but also allows readers to access information regarding Halal logistics and supply chains, current issues and development, future trends, international issues, international trends and the theory and practice of Halal in the logistics sector. This book will be beneficial to those in logistics, supply chain management, the Halal industry, marketing, transportation and warehouses.

This book will be a valuable resource for readers as it provides basic and advanced material that informs the reader about Halal logistics and supply chain management from a wide context, covering the Middle East, Asia and Western countries. This book is a contribution towards the very limited knowledge of Halal logistics and supply chain management in the wider region. The book aims
to accommodate recent developments in the Halal logistics industry, as well as highlighting recent developments and issues including technology application, updates on regulatory and certification procedure, management systems and quality control, as well as challenges caused by the COVID-19 pandemic and the controversial issue of Halal logistics meat cartels. This book carefully addresses and unifies the issues in the Halal logistics industry.

Chapter 1 addresses recent issues and trends of Halal logistics and supply chain management in context of Asia, the West and the Middle East. In this chapter, Hamid and Rahman aim to build a solid background of Halal logistics and supply chain research in these three regions. A number of future research recommendations are also provided.

In Chapter 2, Rahman, Mahroof, Hassan and Sujchaphong provide a brief history of standard development at the local and international level, providing the International Halal Logistics Standard (IHIAS), the Standards and Metrology Institute for Islamic Countries (SMIIC) and the Malaysia Standard (MS) as principal references. The authors also provide a future agenda for researchers in the context of Halal standards.

In Chapter 3, Talib, Ngah and Kurniawati systematically review and discuss their findings on Halal theories used in Halal logistics and supply chain management (HLSCM) research. Theories used in HLSCM research are then categorized into relevant theory groups.

Chapter 4 is a literature review discussion on various theories applied in Halal logistics and supply chain research. This research project by Nee and Mohamad conducts a systematic analysis to assess published Halal logistics and supply chain academic literature in the past decade. This chapter also elaborates on theoretical aspects of future research recommendation.

In Chapter 5, Hamid and Tan determine critical success factors of traceability technology in Halal logistics and supply chain. The goal of this system is to implement a Halal control system by tracking and tracing all product handling and delivery operations. This also enables entire corporate visibility, resulting in improved profits, lower costs and fewer human errors while maintaining the Halal product’s purity from point of origin to point of consumption.

Shamsudin and Majid in Chapter 6 provide an explanation on the critical success factor for traceability in Halal logistics. Integration of technology and traceability in the Halal industry helps the Halal stakeholders evaluate the effectiveness of using specific information technology systems in logistics.

Zahari, Zain and Azhar in Chapter 7 develop a conceptual framework for Halal logistics sustainability. A Halal logistics sustainability framework was developed by adopting technology as monitoring tools for Halal compliance. This framework is crucial and will be used as a guideline by the researchers and the industry in Halal logistics management for effective implementation.

Omar, Sarbani, Osman, Omar and Jaafar in Chapter 8 highlight the Islamic work ethics and controversial issue of the Halal meat cartel case in the Halal meat supply chain. They emphasize that the recent scandal of the meat cartel needs to
be further evaluated, specifically on its issues and challenges, including its impact on the local producers and consumers at large.

Ahmad, Shah and Hamid in Chapter 9 also discuss the Halal meat cartel case, but from a legal perspective. This study provides the Halal legal framework from the regulators’ perspective. Additionally, findings suggest that individual officers must gain relevant knowledge by taking the relevant legal training and education in relation to the investigation and prosecution of any issue related to this Halal logistics controversy.

In Chapter 10, Ahmad, Zulfigar, Farudz and Zulkifli discuss Halal integrity in the supply chain and the Halal integrity effects of the fake Halal meat cartel scandal. This interesting topic highlights the chronology of the event and discusses the multiple implications of this scandal for direct and indirect stakeholders.

In Chapter 11, Ngah, Gabarre and Thurasamy discuss Halal transportation adoption by small and medium-sized enterprises (SMEs) in Malaysia, utilizing a Partial Least Square (PLS) structural equation modelling approach. Their findings show that complexity, cost, and supplier availability are obstacles, while competitive pressure and organizational readiness are facilitators to the acceptance of Halal transportation by Malaysian Halal SMEs.

In Chapter 12, Ustadi and Osman discover interesting challenges in Halal port development. This chapter addresses the question of how port authorities tackle the challenges in this dynamic market environment in terms of the industrial complex, value-added logistics hub and transport hub.

In Chapter 13, Ustadi, Osman and Rasi provide information on Halal logistics and supply chain quality control, using Malaysia as a case study. This chapter highlights a few simple ways of implementing Halal logistics, supply chains and quality control that could enhance the total implementation concept at the least cost to create benefit to all society. The chapter also deals with a few possible implementations and practice aspects to facilitate the Halal logistics approach in daily operations in Malaysian practices.

In Chapter 14, Noh explores the developments of the Halal industry in South Korea, focusing on the pilot project of Halal logistics. This chapter records the key results of major projects for each year in chronological order, including an in-depth survey of the Halal logistics industry in 2017, a survey on Halal product production, distribution and Halal logistics demand in 2018, and the implementation of a Halal logistics pilot project in 2019.

In Chapter 15, Jamaludin and Sugawara explain Halal logistics certification in Japan. Also discussed are the seven Foreign Halal Certification Bodies (FHCBs) certified by JAKIM, with its own Halal Certificates and Halal Logo.

Mayor-Vitoria in Chapter 16 provides information regarding Halal market opportunities and logistics in Spain. The chapter provides an initial overview of the current state of Halal certification in Spain and highlights the opportunities that can be generated in the near future in the logistics field.

In Chapter 17, Rahman and Balushi discuss the developments of Halal certification and opportunities of Halal logistics certification in the Middle East. This
Rahman, Hassan and Majid

study also highlights a dearth of past studies focusing on the Halal logistics issue in the Middle East region.

Chapter 18 by Khairuddin, Yusriz, Rahman, Mohamed, Rahim and Ahmad highlights the effects of the COVID-19 pandemic on Halal logistics and supply chain management research. The chapter discusses the major challenges and possible solutions to sustainability in the Halal industry in the future.
Halal logistics and supply chain management in Asia, the West and the Middle East


The new age of Halal logistics and supply chain standards in Asia, the Middle East and the West


Theories in Halal logistics and supply chain management research


Theories used in Halal logistics studies


Traceability technology in Halal logistics and supply chain


Technology and traceability in Halal logistics


**Halal logistics sustainability**


Exploring the Islamic work ethics and Halal meat supply chain


Exploring the Halal meat cartel case


Halal integrity in the supply chain


Halal transportation adoption among SMEs in Malaysia


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Halal port development


Halal logistics, supply chain and quality control in Malaysia


**Development of the Halal industry in South Korea**


**Halal logistics certification and regulations in Japan**

Halal market opportunities and logistics in Spain


Halal logistics certification


Halal logistics and supply chain management research


Halal integrity in the supply chain

The impacts of the fake Halal meat cartel scandal towards Halal integrity

By Anis Najiha Ahmad, Siti Balqis Zulfigar, Baiduri Zaiyyanna Mohd Farudz, Nur Najihah binti Zulkifli

Book [Halal Logistics and Supply Chain Management](https://www.taylorfrancis.com/books/mono/10.4324/9781003223719/halal-logistics-supply-chain-management?refId=11fb75ac-9fe6-4c2a-9438-034c71ce0d4f&context=ubx)

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ABSTRACT
