

Managing Knowledge in Tourism Industry: A Nonaka's SECI Model

K.G.T Jayasekera, Albattat Ahmad, S. M. Ferdous Azam

Graduate School of Management, Post Graduate Centre, Management and Science University, University Drive, Off Persiaran Olahraga, Section 13, 40100, Selangor, Malaysia.

Email address: 072019070013@pgc.msu.edu.my; dr.battat@msu.edu.my; drferdous@msu.edu.my

Abstract— With the uncertainty in the environment, most sectors have experienced the significance of knowledge creation and sharing during the COVID-19 pandemic. Tourism is one of the most affected sectors during the pandemic, searching for knowledge creation and sharing to cater to tourism business dynamics. Nonaka's SECI model has been used for creating and sharing knowledge since its introduced in 1995. The Japanese concept of the shared commonplace, known as "ba", is crucial for this spiral process of SECI. The "ba" could play a significant role in Socialization and Externalization in the SECI model. This study aims to explore the adoption of the SECI model for knowledge creation and sharing, in the recent past study, exclusively in tourism-related studies. Therefore, fifty empirical studies in the last ten years were used for this study. SECI model has contributed to transferring intangible knowledge into valuable knowledge assets in the tourism industry in various countries by promoting and sustaining it in the tourism business. The study found that previous studies have hardly discussed the importance of the "ba" concept.

Keywords— SECI Model, Knowledge Management, 'ba' Concept, Tacit Knowledge, Tourism, Hospitality Industry, Knowledge Sharing.

I. INTRODUCTION

The global impact of the worldwide tourism industry due to the COVID-19 pandemic indicated uncertainty in the business environment [12],[23] by hard-hitting the industry risking 100 million direct tourism jobs [56]. Figure 1 illustrates the catastrophic damage caused by the COVID-19 pandemic to the global tourism industry by locking down international tourists by 74% in 2020.

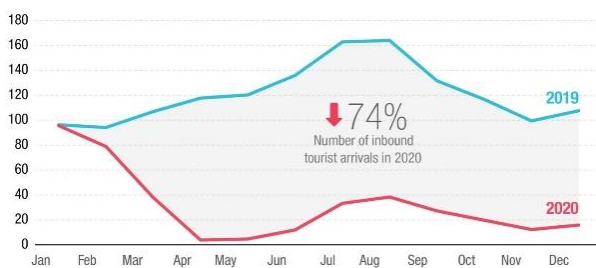


Figure 1. International tourist arrivals (in thousands)

Source (UNCTAD, 2021)

Global tourism has been damaged significantly by the COVID-19 pandemic by sudden, unforecastable, determinantal changes beyond the control of the tourism industry [57]; however, some studies show that by enhancing innovative capabilities, firms could recover the impact during and post the COVID-19 pandemic crisis [15], [24].

Innovative services and products are the key ingredients to use in a rapidly changing business environment [32]. Knowledge is dynamic and gives different meanings in different contexts [42]. In the 20th century, knowledge management became a hot topic in management [17] because knowledge has become an essential strategic tool for organizations to achieve competitive advantage in a rapidly changing business environment [38]. Tourism is one of the business sectors based on innovative products and services [12], [47], [6]. Knowledge creation, sharing, and acquisition in tourism are complicated and sometimes unorganised [32]. Knowledge management is crucial in tourism because it produces innovation in the tourism industry [60].

The knowledge can create innovative products or services that meet the competitive expectations of the Customers [21]. The ability to exploit customer knowledge [30] and employees' tacit knowledge could create innovative products or services [24],[44],[6],[40]. Tacit knowledge is the crucial ingredient that makes innovative products and services [48]. Tacit knowledge is hard to capture and convert as explicit; hence tacit remains in individual experience and non-tangibly (beliefs, cultural values, perspective etc.) because knowledge generation occurs in different tourism sectors [4], [39].

Knowledge Management can be a strategic tool for the tourism industry to compete with rivals and emerging markets [24],[38] As Michele Polanyi expressed, we do not know how to say all we know [46]; therefore, managing knowledge is essential in any industry. Businesses should not drive only by analysing the past ("much like driving a car using only the rear-view mirror"); in the rapidly changing and uncertain environment, organisations must dynamically assess their business environment and trigger knowledge-creation operations that align with their future [57],[28].

Knowledge Creating and Sharing

The new knowledge will be created during the transformation of Tacit to Explicit Knowledge [59], [41]. Explicit knowledge can be shared between individuals through manuals (physical or digital) or specifications. Tacit Knowledge is gained through experience, emotions, performance, ethics etc. [6],[40]. Collecting tacit and explicit knowledge success depends on knowledge management [53].

Knowledge needs to be organised as a strategic tool used at the right time and place unless knowledge remains a silent intangible asset [19],[40]. The epistemology process of converting Tacit to Explicit knowledge and ontological

dimension for creating and sharing knowledge throughout the different organisation ontological layers were introduced by [39]. Knowledge creation is to generate new knowledge for the future by ontologically and epistemologically view of humanity [28]. The Japanese “ba” concept is a shared place that persistently and dynamically moves to create, share or utilise knowledge in the physical or virtual place [41],[40]. Many studies have highlighted that tourism is one of the sectors that is becoming increasingly knowledge-intensive and how the tourism sector can benefit by acquiring internal and external knowledge [24].

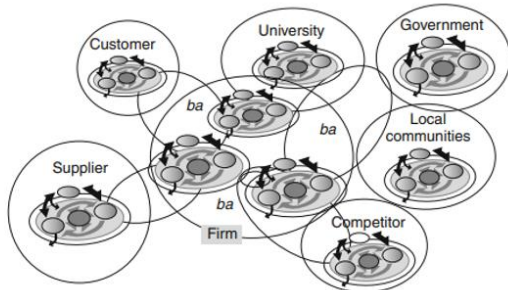


Figure 2. Organization as the organic configuration of Ba: the knowledge ecosystem

Source: Nonaka et al., 2008

The shared commonplace or “ba” are the places where it creates interaction among people, the knowledge that creates is from the relationships of the employees, clients, suppliers, local communities, rivals, government etc., at its respective ecosystem [41]. This commonplace or “ba” can be physical, virtual or mental; these three places are embedded with knowledge in common where that can be accessed by the experience of individuals or from the experience of other individuals [10], [5],[43],[40]. The “ba” is where the spiral process of knowledge occurs through networking between people, relationships, and the surrounding context when something occurs [10]. A “ba” is not limited to the organization; “ba” can create across the organisation’s boundaries by forming a joint venture with key suppliers or alliances with rivals and building communicative relationships with clients, local communities, universities, or critical stakeholders, as shown in figure 2 [41].

The knowledge conversion process is the creation and utilization communicating explicit and tacit knowledge [22],[39]. Four modes of the spiral model of SECI (Socialization, Externalization, Combination, Internalization) for knowledge creation were introduced by Nonaka and Takeuchi in 1995 for converting tacit knowledge to explicit knowledge, and its spiral process of converting knowledge between both types to create new knowledge [41],[39]. SECI process will trigger the dynamic interaction between tacit and outside information [49]. The spiral process of the SECI model creates new knowledge and further expands through the interaction between tacit and explicit [20],[41],[39]. In 1998, Nonaka and Konno defined four types of “ba”: Originating, Interacting, Cyber, and Exercising are associated with the SECI spiral process.

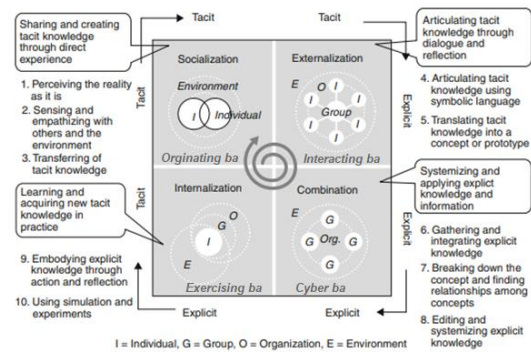


Figure 3. The knowledge-creating process with the four characteristics of ba Source: (Nonaka et al., 2008; Nonaka & Konno, 1998; Nonaka & Takeuchi,1995)

The SECI model spiral process begins with socialization at the personal level and gradually moves to the group level with externalization, and after the combination in the organization again, its moves to the personal level by internalization [42]. The SECI model can create knowledge in the organisation using these modes for continuous conversation between tacit and explicit knowledge under the “ba” concept that facilitates communication through these four modes [2]; [42]. This model emphasises the significance of the “ba” that represents the knowledge perspective and promotes the right environment within the firm [14].

Socialization

[39] introduced socialisation as the first mode of their SECI model. Tacit knowledge is not easy to acquire, and the organisation needs formal and informal social interaction by creating space to share experiences in the same environment or time [41]. During the socialisation process, by interacting or actively participating with individuals or members, individual tacit knowledge will be passed as a shared experience to the group or individual(s) as new tacit knowledge [24],[47],[41],[39]. The socialization process begins with mutual and close interaction with the Tacit knowledge holder and the knowledge seeker most of the time, and it happens outside the world (“ba”) [24],[39].

Externalization

During this process, tacit knowledge is articulated by dialogues and reflection that need to create explicit knowledge using language, models, images and other modes of expression to share with groups [41],[39]. Externalization creates a learning environment within the organisation for transfusing collected knowledge more effectively to others when collected knowledge even remains tacit [47],[39]. Externalization could be considered a research and development team that tries to understand the stakeholders in the organisation of their tacitly realised expertise or the form of their product concept at forming new products or services [49],[41].

Combination

The process that combines, edits or further processes or breakdown up to the concept levels, the knowledge collected from within or outside the organisation and disseminated new,

more complex and systematic explicit knowledge throughout the organization is called the Combination process [27],[58],[41],[39]. The combination process can be enriched by the technology where technology allows the large crowd to access the information concurrently online such as through social media, to collect conversations, comments feedback from clients or other stakeholders [47],[49],[41].

Internalization

It is hard to create explicit knowledge by reading a book, and one needs to practice or experience the knowledge that is grasped in its context. During the internalization process, explicit knowledge actualizes across activities, reflection, and rehearsal to internalize the explicit knowledge and enhance the tacit knowledge [41],[39]. With transferring explicit knowledge into tacit knowledge, knowledge will be internalized and formalized, and a standard course of action; therefore, teams or individuals or trainees should be given adequate time to possess basic knowledge and then enrich their knowledge with confidence to perform their job [47],[49].

II. METHODOLOGY

The literature review is the method used for this study. It used Google Scholar with the keywords of SECI Model, Knowledge Management, ‘ba’ Concept, Tacit Knowledge, Tourism, Hospitality Industry and Knowledge Sharing. Further, a search with keywords is carried out individually and combinations of the keywords. The published articles related directly and indirectly to the tourism industry in the last ten years that discussed adopting the SECI model were screened. Further, articles not in the English language were omitted.

Empirical Studies

In this study, fifty empirical studies were chosen that adopted fully or partially of SEIC model. Accordingly, among the fifty studies, different authors used the SECI model adaptation in the tourism industry in 24 countries within the last ten years, as illustrated in Table 1. Most contributing studies are from Indonesia, and six were conducted during the last ten years in Thailand. Four studies have been conducted in Malaysia and three studies in Indonesia. Most of the studies were carried out in 2019 (Table 2).

Table 2 indicates that most of the studies were carried out in 2019, and declining in the studies indicated in 2020. However, there are substantial studies carried out in 2021 and 2022. Moreover, the distribution of the studies in Table 2 highlighted that thirteen studies were based on the Hotel sector, and eleven were based on the tourism sector. However, [8],[52] have conducted about adopting the SECI model for cultural tourism. There are two studies carried out based on tourists; accordingly, [16] conducted a study based on an ontology-based knowledge Management system by adopting the SECI model for knowledge creation and another study conducted to find the Embedded knowledge of Halal that reside in Muslim tourist in Japan by [60]. Further, among the fifty items, at least one study was carried out using the SECI model in Marine tourism [23], Sport Tourism [58], Health Tourism [29], Beer

Tourism [6], Wine Tourism [59], Health Tourism (Lestari & Salim, 2019).

TABLE 1: Number of Empirical Studies based on Country wise

| Country | No of Studies |
|--------------------|---------------|
| Indonesia | 7 |
| Thailand | 6 |
| Malaysia | 4 |
| Greece | 3 |
| Sri Lanka | 3 |
| Nepal | 2 |
| Spain | 2 |
| New Zealand | 2 |
| China | 2 |
| Brazil | 2 |
| Turkey | 2 |
| Japan | 2 |
| Australia | 2 |
| Jordan | 1 |
| Portugal | 1 |
| Ghana | 1 |
| Ghana | 1 |
| Slovakia | 1 |
| Nigeria | 1 |
| Columbia | 1 |
| Norway | 1 |
| Iran | 1 |
| Poland | 1 |
| Kenya | 1 |
| Grand Total | 50 |

Only nine out of fifty studies discussed the “ba” concept for SECI model adaptation (Table 3). [6] conducted a study on beer tourism by gathering the feedback of the consumers/customers using SECI model socialization using the “ba” concept to select the production of styles of beers. The “ba” concept has highlighted the SECI model for studying the contribution of fishermen to tourism [10]. The role of the SECI model and the “ba” concept has been emphasized in the event services in the tourism sector [14].

The Originating “ba” that plays a critical role in the use of the SECI model for knowledge-creating and facilitating the common shared place (“ba”) has been identified as an effective way of socialisation where the tacit knowledge will acquire in the tacit form in this phase, either through traditional communication method or technology-based communication or a mix of that could be taken place [44], [6]. Likewise, interacting “ba” create a shared common place in the externalization process where the “ba” facilitates very crucial knowledge to be gathered explicitly from stakeholders and customers ([10],[6].

III. CONCLUSION

The recent impact of the COVID pandemic has alerted most business sectors to focus on knowledge-based products and services to compete in the uncertain environment in business. Tourism is one of the rapidly changing industries that affect business environmental uncertainty. Therefore, as most studies discussed, this industry model depends on knowledge since it is a dynamic business. As highlighted in studies, knowledge can create innovative products and services necessary for the tourism industry. The knowledge can be used to promote

tourism in public and private sectors as direct or indirect contributions to the tourism industry. There has been significant adoption of the SECI model in the tourism industry before the COVID pandemic, and it has been further adopted during and

after the pandemic. The SECI model has been used in tourism sectors since it was introduced in 1995, and still, it is accepted in the tourism industry.

TABLE 2: List of Empirical Studies

| Nos | Year | Country | Focused on | Model/ Concept | Source |
|-----|------|-------------|-------------------------------------|----------------|--------|
| 1 | 2022 | Brazil | Fishermen’s contribution to Tourism | SECI, Ba | [10] |
| 2 | 2022 | Ghana | Restaurant Industry | SECI | [27] |
| 3 | 2022 | China | Rural tourism actors | SECI | [32] |
| 4 | 2022 | New Zealand | Wine Tourism | SECI | [59] |
| 5 | 2022 | Greece | Tourism Sector | SECI | [61] |
| 6 | 2022 | Greece | Tourism Sector | SECI, Ba | [11] |
| 7 | 2022 | Indonesia | Cultural Tourism | SECI | [8] |
| 8 | 2022 | China | Hotel Sector | SECI | [48] |
| 9 | 2021 | Thailand | Hotel sector | SECI | [47] |
| 10 | 2021 | Indonesia | Educational Tourism | SECI | [12] |
| 11 | 2021 | Indonesia | Marine Tourism | SECI | [23] |
| 12 | 2021 | Turkey | Hotel Sector | SECI | [24] |
| 13 | 2021 | Poland | Event Services | SECI, Ba | [14] |
| 14 | 2021 | Iran | Tourism Sector | SECI | [21] |
| 15 | 2021 | Slovakia | Cultural Tourism | SECI | [52] |
| 16 | 2021 | Japan | Hotel Sector | SECI | [37] |
| 17 | 2020 | Malaysia | Small Hotels sector | SECI | [30] |
| 18 | 2020 | Indonesia | Cultural Tourism | SECI | [51] |
| 19 | 2020 | Thailand | Tourists | SECI | [16] |
| 20 | 2020 | Kenya | Tourism Sector | SECI, Ba | [44] |
| 21 | 2020 | Columbia | Tourism Sector | SECI, Ba | [20] |
| 22 | 2019 | Sri Lanka | Hotel Sector | SECI | [26] |
| 23 | 2019 | Jordan | Hotel Sector | SECI | [63] |
| 24 | 2019 | Malaysia | Tourist Resorts | SECI | [31] |
| 25 | 2019 | Greece | Hotel sector | SECI | [11] |
| 26 | 2019 | Nepal | Tourism Sector | SECI | [33] |
| 27 | 2019 | Brazil | Tourism Sector | SECI | [50] |
| 28 | 2019 | Ghana | Tourism Sector | SECI, Ba | [2] |
| 29 | 2019 | Nepal | Tourism Sector | SECI | [64] |
| 30 | 2019 | Indonesia | Tourism Village | SECI | [65] |
| 31 | 2019 | Indonesia | Health Tourism | SECI | [29] |
| 32 | 2018 | Malaysia | Hotel Sector | SECI | [49] |
| 33 | 2018 | Thailand | Nature-based Tourism | SECI | [53] |
| 34 | 2018 | Portugal | Hotel Sector | SECI | [19] |
| 35 | 2017 | Australia | Beer Tourism | SECI, Ba | [6] |
| 36 | 2017 | Australia | Travel Forum Threads | SECI | [18] |
| 37 | 2017 | Japan | Tourists | SECI, Ba | [60] |
| 38 | 2017 | Thailand | Tourism Sector | SECI | [25] |
| 39 | 2017 | Malaysia | Family-Owned Hotels | SECI | [36] |
| 40 | 2017 | Indonesia | Restaurants and Cafe | SECI | [66] |
| 41 | 2016 | Spain | Hotel Sector | SECI | [7] |
| 42 | 2016 | Thailand | Online Travel Agencies | SECI | [9] |
| 43 | 2016 | Sri Lanka | Hotel Sector | SECI | [1] |
| 44 | 2015 | Thailand | Community-Based Tourism | SECI | [54] |
| 45 | 2015 | Sri Lanka | Hotel Sector | SECI | [45] |
| 46 | 2015 | Spain | Tourism Sector | SECI | [34] |
| 47 | 2015 | Nigeria | Hotel Sector | SECI | [3] |
| 48 | 2014 | Turkey | Hotel Chain | SECI | [62] |
| 49 | 2014 | New Zealand | Sport Tourism | SECI | [58] |
| 50 | 2012 | Norway | Small Tourism Operators | SECI, Ba | [13] |

TABLE 3: Number of Studies that used the “Ba” Concept with SECI

| Models | No of Studies |
|------------------------|---------------|
| SECI | 41 |
| SECI with “ba” concept | 9 |
| Total | 50 |

Various studies found that knowledge of cultures, communities and maritime can be exposed to promote tourism. The SECI model has created new business opportunities in the tourism

industry by creating innovative services and products. Most studies have identified tourism as one of the sectors based on tacit knowledge and the importance of tacit knowledge for promoting tourism. The SECI model spiral process was not fully discussed based on the common-shared place used to create and share knowledge, except few studies identified the importance of the “ba” concept. This Japanese philosophy of the “ba” concept is a practising method in Japan for knowledge

management. Future studies should focus on how this concept can be used to ease the effects of the SECI model.

ACKNOWLEDGEMENT

Highly appreciate Prof. Dr Albattat Ahmad of the Graduate School of Management, Post Graduate Centre, Management and Science University Malaysia, for his support and guidance on the publication of this paper.

REFERENCES

[1] Aashik, H. A. M., & Senaratne, S. S. (2016). Greening Environment, Eco Innovations & Entrepreneurship. In *Incorporating Tacit Knowledge In Performance Measurement System In A Sri Lankan Hotel* (pp. 259–272). Colombo, Sri Lanka; Ceylon Institute of Builders.

[2] Agyemang, B. K., Ngulube, P., & Dube, L. (2019). Utilising knowledge management methods to manage beads-making indigenous knowledge among the Krobo communities in Ghana. *SA Journal of Information Management*, 21(1), 2–9. <https://doi.org/10.4102/sajim.v21i1.1008>

[3] Agbim, K. C., & Idris, A. J. (2015). Competitive Advantage Through Knowledge Dissemination: An Empirical Analysis Of Hotels In Makurdi Metropolis, Benue State, Nigeria. *European Journal of Business and Innovation Research*, 3(1), 22–35.

[4] Aksa, F. I. (2020). Wisdom of indigenous and tacit knowledge for disaster risk reduction. *Indonesian Journal of Geography*, 52(3), 418. <https://doi.org/10.22146/ijg.47321>

[5] Al-Mansour, J., & Obembe, D. (2021). Analysing the communication process between middle and top managers through the concept of 'ba'. *Electronic Journal of Knowledge Management*, 19(3). <https://doi.org/10.34190/ejkm.19.3.2550>

[6] Alonso, A. D., & Alexander, N. (2017). Craft beer tourism development “down under”: Perspectives of two stakeholder groups. *Tourism Planning & Development*, 14(4), 567–584. <https://doi.org/10.1080/21568316.2017.1303541>

[7] Alonso-Almeida, M. del, Celemin-Pedroche, M. de, Rubio-Andrada, L., & Rodríguez-Antón, J. M. (2016). Human and other critical factors in organisational learning in the hotel industry: A contingency approach. *Tourism & Management Studies*, 12(1), 97–106. <https://doi.org/10.18089/tms.2016.12110>

[8] Amelia, M., Septiningrum, L., & Rumanti, A. A. (2022). Perancangan Alat Ukur potensi Wisata Budaya Pada Kabupaten Rembang Menggunakan metode Seci Dan Ahp. *Jurnal METRIS*, 23(01), 28–34. <https://doi.org/10.25170/metris.v23i01.3574>

[9] Ariya, P., Chakpitak, N., & Surepong, P. (2016). The effect of implementing knowledge management system in supplier selection content to improve learning performance of Online Travel Agencies staff. *International Education Studies*, 9(3), 148–166. <https://doi.org/10.5539/ies.v9n3p148>

[10] Arns, E. M., & Strauhs, F. do. (2022). Knowledge construction in the community of fishing women in the region of Guaraqueçaba – PR. *Liinc Em Revista*, 18(1), 1–23. <https://doi.org/10.18617/liinc.v18i1.5876>

[11] Avdimiotis, S. (2019). Emotional intelligence and tacit knowledge management in hospitality. *Journal of Tourism, Heritage & Services Marketing*, 5(2), 3–10.

[12] Bare, R. R., Mukmin, A., Kesuma, A. I., Akib, H., & Yahyaddin, M. (2021). Development of Edu-Tourism based for Local Competencies. *Ilkogretim Online - Elementary Education Online*, 20(5), 6299–6307.

[13] Bertella, G. (2012). *A study about knowledge and learning in small-scale tourism in rural and peripheral areas* (thesis). UiT The Arctic University of Norway.

[14] Borodako, K., Berbeka, J., & Rudnicki, M. (2021). Technology used in Knowledge Management by Global Professional Event Services. *Journal of Global Information Management*, 29(1), 145–163. <https://doi.org/10.4018/jgim.2021010108>

[15] Breier, M., Kallmuenzer, A., Clauss, T., Gast, J., Kraus, S., & Tiberius, V. (2021). The role of Business Model Innovation in the hospitality industry during the COVID-19 crisis. *International Journal of Hospitality Management*, 92, 102723. <https://doi.org/10.1016/j.ijhm.2020.102723>

[16] Charoenporn, P. (2020). Ontology-based Knowledge Management System with a Case Study on The East-West Economic Corridor. *Journal of Information Science and Technology*, 10(1), 98–113.

[17] Drucker, P. F. (1957). *Landmarks of Tomorrow*. Harper & Brothers.

[18] Edwards, D., Cheng, M., Wong, I. K. A., Zhang, J., & Wu, Q. (2017). Ambassadors of knowledge sharing. *International Journal of Contemporary Hospitality Management*, 29(2), 690–708. <https://doi.org/10.1108/ijchm-10-2015-0607>

[19] Ferreira, J., Mueller, J., & Papa, A. (2018). Strategic knowledge management: Theory, practice and future challenges. *Journal of Knowledge Management*, 24(2), 121–126. <https://doi.org/10.1108/jkm-07-2018-0461>

[20] Frias-Navarro, R., & Montoya-Restrepo, L. A. (2020). Understanding knowledge creation processes among rural communities in post-conflict settings in Colombia. *Knowledge Management & E-Learning: An International Journal*, 231–255. <https://doi.org/10.34105/j.kmel.2020.12.012>

[21] Ghaderi, Z., Patterson, I., Puad Mat Som, A., & Behboodi, Z. (2021). 14 Tourism Supply Chain Knowledge Management in the pandemic era. *Organizational Learning in Tourism and Hospitality Crisis Management*, 219–234. <https://doi.org/10.1515/9783110679120-014>

[22] Hitt, M. A., Amit, R., Lucrier, C. E., & Nixon, R. D. (2002). *Creating value: Winners in the New Business Environment*. Blackwell Pub.

[23] Islahuddin, I., Akib, H., Eppang, B. M., Salim, M. A., & Darmayasa, D. (2021). Reconstruction of the actor collaboration model in the development of marine tourism destinations in the new normal local economy. *Linguistics and Culture Review*, 5(S2), 1505–1520. <https://doi.org/10.21744/lingcure.v5ns2.2013>

[24] Işık, C., Aydın, E., Dogru, T., Rehman, A., Alvarado, R., Ahmad, M., & Irfan, M. (2021). The nexus between team culture, innovative work behaviour and tacit knowledge sharing: Theory and evidence. *Sustainability*, 13(8), 4333. <https://doi.org/10.3390/su13084333>

[25] Jedeejit, P., Nuankaew, P., & Nuankaew, W. (2017). Development Knowledge Management Pattern for Entrepreneurship in Upper-Northern Thailand Wellness Tourism. In *2017 14th International Conference on Electrical Engineering/Electronics, computer, Telecommunications and Information Technology (ECTI-CON)* (pp. 393–395). Unspecified.

[26] Kaldeen, M. (2019). Assessment of Knowledge Management Readiness in Hotel Sector in Sri Lanka: Modeling Enablers and Process of Knowledge Management. *Test Engineering & Management*, 81, 2681–2689.

[27] Kankam-Kwarteng, C., Osei, F., Asante-Gyabaah, G., & Ferkah, K. A. (2022). Mediation role of service innovation in the effects of knowledge creation on marketing performance of Restaurant. *Technium Social Sciences Journal*, 27, 620–638. <https://doi.org/10.47577/tssj.v27i1.5338>

[28] Konno, N., Nonaka, I., & Ogilvy, J. (2014). The mind of the scenario thinker. *World Futures*, 70(1), 44–51. <https://doi.org/10.1080/02604027.2014.875723>

[29] Lestari, S., & Salim, T. A. (2019). Revitalizing the Library for the Nation. In *Ethno Medicine and Medicinal Plants Research of Bali Aga Ethnic Group in Bali Province as an Indigenous Knowledge Preservation Effort* (pp. 116–125). Malacca, Malaysia; University of Malaya.

[30] Li Sa, M. L., Choon-Yin, S., Chai, Y. K., & Aik Joo, J. H. (2020). Knowledge creation process, customer orientation and firm performance: Evidence from small hotels in Malaysia. *Asia Pacific Management Review*, 25(2), 65–74. <https://doi.org/10.1016/j.apmr.2019.07.002>

[31] Liow, M. L., Yeow, K. C., Sam, C.-Y., & Heng, J. A. (2019). The influence of Brand Orientation and knowledge creation on organisational performance of Malaysian Tourist Resorts. *Asian Academy of Management Journal*, 24(1), 175–204. <https://doi.org/10.21315/aamj2019.24.1.8>

[32] Liu, S., Zhu, M., & Zhang, Y. (2022). Using Social Network Analysis to study Knowledge Transfer in Rural Destination: A Case Study of Nangang, China. *Forest Chemicals Review*, 1476–1500.

[33] Maharjan, P. (2019). Trust for knowledge creation in Nepalese hospitality industry. *PYC Nepal Journal of Management*, 12(1), 37–44. <https://doi.org/10.3126/pycnjm.v12i1.30584>

[34] Martínez-Martínez, A., Cegarra-Navarro, J.-G., & García-Pérez, A. (2015). Environmental knowledge management: A long-term enabler of tourism development. *Tourism Management*, 50, 281–291. <https://doi.org/10.1016/j.tourman.2015.03.006>

[35] McCartney, G., Ung, C. O., & Pinto, J. F. (2022). Living with covid-19 and sustaining a tourism recovery—adopting a front-line collaborative response between the tourism industry and Community Pharmacists. *Tourism and Hospitality*, 3(1), 47–68. <https://doi.org/10.3390/tourhosp3010004>

- [36] Mohamad, D. (2017). Utilising Personal Knowledge Management to overcome Knowledge Transfer challenges faced by family owned hotels in Malaysia. *International Hospitality and Tourism Student Journal*, 9(4), 521–532.
- [37] Murase, Y. (2021). An Research Framework of Tacit Knowledge Transfer and Educational Practice in Global Hotel Chains. *Management Review: An International Journal*, 16(1), 4–22.
- [38] Nezakati, H., Amidi, A., Jusoh, Y. Y., Moghadas, S., Aziz, Y. A., & Sohrabinezhadalemi, R. (2015). Review of social media potential on knowledge sharing and collaboration in tourism industry. *Procedia - Social and Behavioral Sciences*, 172, 120–125. <https://doi.org/10.1016/j.sbspro.2015.01.344>
- [39] Nonaka, I., & Takeuchi, H. (1995). *The knowledge-creating company*. Oxford: Oxford University Press.
- [40] Nonaka, I., & Konno, N. (1998). The concept of “ba”: Building a Foundation for Knowledge Creation. *California Management Review*, 40(3), 40–54. <https://doi.org/10.2307/41165942>
- [41] Nonaka, I., Toyama, R., & Hirata, T. (2008). *Managing Flow A Process Theory of the Knowledge-Based Firm*. Palgrave Macmillan.
- [42] Nonaka, I., Toyama, R., & Konno, N. (2000). Seci, BA and leadership: A unified model of dynamic knowledge creation. *Managing Industrial Knowledge: Creation, Transfer and Utilization*, 14–43. <https://doi.org/10.4135/9781446217573.n2>
- [43] Nonaka, I., von Krogh, G., & Voelpel, S. (2006). Organizational knowledge creation theory: Evolutionary paths and future advances. *Organization Studies*, 27(8), 1179–1208. <https://doi.org/10.1177/0170840606066312>
- [44] Odunga, E. W., Kieti, D., & Too, J. K. (2020). Effect of knowledge creation by tourism stakeholders on destination competitiveness, Baringo County, Kenya. *The International Journal of Business & Management*, 8(3). <https://doi.org/10.24940/theijbm/2020/v8/i3/bm2003-033>
- [45] Perera, M. D. S., & Perera, T. (2015). Innovation in SMEs in the Tourism Industry. *Sri Lankan Journal of Management*, 20(1), 92–122.
- [46] Polyani, M. (1966). *Tacit dimension* (1st ed.). Doubleday & Company, Inc.
- [47] Prompreing, K., & Hu, C. (2021). Knowledge Management in Hospitality industry in terms of Entrepreneur Goal Orientation. *Review of Integrative Business and Economics Research*, 10(3), 18–38.
- [48] Rao, Y., Fang, M., & Liu, C. (2022). Understanding the FLE-based organizational knowledge creation process in hospitality firms. *Tourism Management*, 94, 104660. <https://doi.org/10.1016/j.tourman.2022.104660>
- [49] Sa, M. L., & Chai, Y. K. (2018). Managerial orientations and business performance in small and medium tourism accommodation businesses (smtabs): A resource advantage-knowledge creation approach. *The International Journal of Entrepreneurship and Innovation*, 21(1), 17–37. <https://doi.org/10.1177/1465750318809517>
- [50] Sacramento, P. M., & Teixeira, R. M. (2019). Innovation and Entrepreneur Learning in the Tourism Sector: Cross-Case Analysis in Small and Medium Enterprises in the city of Aracaju, Sergipe. *Revista Brasileira De Pesquisa Em Turismo*, 13(3), 121–139.
- [51] Surajaya, I. K. (2020). Omotenashi and Tri Hita Karana in Perspectives of Ethic, Culture and History. *International Journal of Innovative Science and Research Technology*, 5(1), 359–366.
- [52] Tajtáková, M., & Olejárová, M. (2021). Creative cities and knowledge management approach to culture-based urban regeneration in Slovakia: A model. *Communications - Scientific Letters of the University of Zilina*, 23(4), 35–37. <https://doi.org/10.26552/com.c.2021.4.g25-g37>
- [53] Thanakasem, N., Samanasena, P., Pansawang, C., Charoensit, J., & Amornwithawat, P. (2018). Guidelines for management of Kew Mae Pan and Pha Mon Nature Trail, Doi Inthanon National Park, Chiang Mai Province, Northern Thailand. *Journal of Thai Interdisciplinary Research*, 13(3), 22–29.
- [54] Tungseng, T., Madhyamapurush, W., & Sreesoompong, P. (2015). Knowledge Management Model for Community Based Tourism of Satun Community Based Tourism Network, Thailand. In *1st International Conference on Ethnic in Asia "Life, Power and Ethnicity"* (pp. 164–184).
- [55] UNCTAD. (2021, June 30). *Global economy could lose over \$4 trillion due to covid-19 impact on tourism*. Global economy could lose over \$4 trillion due to COVID-19 impact on tourism. Retrieved December 11, 2022, from <https://unctad.org/news/global-economy-could-lose-over-4-trillion-due-covid-19-impact-tourism>
- [56] UNWTO. (2022). *World Tourism Organization*. Impact Assessment of The Covid-19 Outbreak on International Tourism. Retrieved December 11, 2022, from <https://www.unwto.org/impact-assessment-of-the-covid-19-outbreak-on-international-tourism#:~:text=International%20tourism%20continued%20to%20show,the%20same%20period%20of%202021>.
- [57] Vainauskienė, V., & Vaitkienė, R. (2022). Challenges to the learning organization in the context of covid-19 pandemic uncertainty: Creativity – based response. *Creativity Studies*, 15(2), 332–347. <https://doi.org/10.3846/cs.2022.15109>
- [58] Werner, K., Dickson, G., & Hyde, K. F. (2015). Learning and knowledge transfer processes in a mega-events context: The case of the 2011 rugby world cup. *Tourism Management*, 48, 174–187. <https://doi.org/10.1016/j.tourman.2014.11.003>
- [59] Woodfield, P. J., & Husted, K. (2022). Sharing knowledge across generations and its impact on Innovation. *Wine Business Journal*, 5(1), 2–16. <https://doi.org/10.26813/001c.31022>
- [60] Yasuda, S. (2017). Managing halal knowledge in Japan: Developing knowledge platforms for halal tourism in Japan. *Asian Journal of Tourism Research*, 2(2), 65–83. <https://doi.org/10.12982/ajtr.2017.0010>
- [61] Ziegler, M. G. (2022). Web 2.0 and knowledge sharing. A literature review. *AI, Computer Science and Robotics Technology*, 2022, 1–14. <https://doi.org/10.5772/acrt.03>
- [62] Zorlu, O., & Baytok, A. (2014). The Role of Transformational Leader on Knowledge Sharing Practices: A Study about International Hotel Chains. *European Journal of Business and Management*, 6(7), 46–61.
- [63] Hawamdeh, N. A., & Al-edenat, M. (2019). Determinants of barriers to knowledge sharing in the Jordanian hospitality industry. *International Business Research*, 12(7), 121–132. <https://doi.org/10.5539/ibr.v12n7p121>
- [64] Maharjan, P. (2020). Knowledge management enablers for knowledge creation externalisation in Nepalese hospitality industry. *Nepalese Journal of Hospitality and Tourism Management*, 1(1), 1–12. <https://doi.org/10.3126/njhtm.v1i1.44399>
- [65] Nihayati, & Susetyo-Salim, T. A. (2019). Revitalizing the Library for the Nation. In *Preservation of Indigenous Knowledge Activities: A Case Study on “Jamu Gendong” Kiringan Village, Yogyakarta, Indonesia* (pp. 256–266). Malacca, Malaysia; University of Malaya.
- [66] Utami, T. L. W., Indarti, N., Sitalaksm, S. i., & Makodian, N. (2017). The Effect of Knowledge Sources on Innovation Capabilities Among Restaurants and Café Businesses In Indonesia. *Journal of Indonesian Economy and Business*, 32(1), 33–50.