

The Influence of Digital Technologies on Foreign Market Entry and International Expansion Strategies of Multinational Enterprises: An Indian Perspective

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Abstract— The rapid development of digital technologies has begun to transform the internationalization strategies of multinational enterprises (MNEs). By 2018, technologies such as cloud computing, big-data analytics, enterprise resource planning, e-commerce, mobile technologies, automation, the Internet of Things (IoT), digital platforms and Industry 4.0 were increasingly influencing how enterprises identified foreign-market opportunities, selected entry modes and coordinated international operations. This paper examines the influence of digital technologies on foreign-market entry and international expansion strategies, with particular reference to Indian multinational enterprises. The study adopts a descriptive and analytical research design based on secondary data and existing literature. The analysis suggests that digital technologies reduce information and communication costs, improve access to foreign customers, strengthen global coordination and enable firms to internationalize with greater speed and flexibility. Indian enterprises, particularly in information technology and knowledge-intensive industries, demonstrate how digital capabilities can compensate for certain resource and geographical disadvantages faced by firms originating from emerging economies. The paper concludes that digital capabilities were becoming an increasingly significant firm-specific advantage in determining international expansion by 2018.

Keywords: Digital Technologies, Foreign Market Entry, Internationalization, Multinational Enterprises, India, Digitalization, Industry 4.0, International Business.

1. Introduction

Internationalization has traditionally required enterprises to make substantial commitments of financial, physical and managerial resources in foreign markets. Firms generally expanded internationally through exports, licensing, strategic alliances, joint ventures, acquisitions or wholly owned foreign subsidiaries. Decisions concerning these entry modes

were influenced by factors such as market knowledge, transaction costs, geographical distance, institutional conditions and the availability of firm-specific resources.

The rapid development of digital technologies began to change this environment considerably during the decade preceding 2018. Internet connectivity, cloud computing, mobile technologies, big-data analytics, e-commerce, enterprise information systems and digital communication platforms enabled enterprises to acquire information about foreign markets more efficiently and coordinate business activities across national boundaries.

For Indian multinational enterprises, these developments were particularly significant. Indian firms were expanding beyond the domestic market while simultaneously developing technological and managerial capabilities. Information-technology companies represented the clearest example. By fiscal 2018, Infosys described itself as providing consulting, technology, outsourcing and next-generation digital services to clients in more than 45 countries; only 3.2% of its revenue came from India, compared with 60.4% from North America and 23.7% from Europe.

This paper therefore investigates the influence of digital technologies on the foreign-market entry and international expansion strategies of multinational enterprises, with special emphasis on the Indian business environment as it existed around 2018.

2. Objectives of the Study

The principal objective is to examine how digital technologies influence the internationalization of multinational enterprises. Specifically, the study seeks to examine the role of digital technologies in foreign-market identification and entry; determine their influence on the speed and geographical scope of international expansion; examine how they reduce information and coordination barriers; analyze their contribution to international supply-chain and subsidiary management; and study these

developments with particular reference to Indian multinational enterprises.

3. Research Questions and Hypotheses

The study addresses three principal questions: How do digital technologies influence foreign-market entry decisions of multinational enterprises? Do digital capabilities enable firms to expand internationally more rapidly? How important are digital technologies to the internationalization of Indian multinational enterprises?

The following hypotheses are proposed:

H1: Adoption of digital technologies has a positive relationship with the foreign-market expansion of multinational enterprises.

H2: Greater digital capability reduces information and coordination barriers associated with foreign-market entry.

H3: Digital technologies positively influence the speed and geographical scope of international expansion.

H4: Digital capabilities provide Indian MNEs with important firm-specific advantages in international markets.

4. Review of Literature

Traditional internationalization theories provide the theoretical foundation for understanding foreign-market expansion. The Uppsala model developed by Johanson and Vahlne emphasizes gradual international expansion based on the accumulation of foreign-market knowledge. Firms generally begin with relatively low-commitment modes and increase their commitment as knowledge and experience develop.

Dunning's eclectic paradigm explains international activity through ownership, location and internalization advantages. From this perspective, digital technologies can contribute to ownership advantages through technological knowledge, proprietary information systems, organizational processes and digital capabilities.

By the period around 2017–2018, international-business researchers were increasingly considering how Industry 4.0 technologies could affect global value chains and the organization of multinational enterprises. Digital technologies potentially reduced the importance of certain traditional geographical constraints while simultaneously increasing the strategic importance of connectivity, technological infrastructure and knowledge.

The digital environment did not eliminate conventional internationalization mechanisms. Exports, foreign direct investment, acquisitions and subsidiaries continued to be important. Instead, digital technologies increasingly

complemented these mechanisms by reducing information costs and improving international coordination.

5. Research Methodology

The study adopts a descriptive and analytical research design based primarily on secondary information. Sources include academic research papers, corporate reports, international-business literature and publications available up to 2018.

The Indian context is examined through the experiences of multinational enterprises operating in technology, manufacturing and other internationally oriented sectors. Particular attention is given to information-technology companies because they provide an important illustration of digitally enabled internationalization.

The major variables considered are the **level of digital technology adoption, foreign-market entry strategy, speed of international expansion, geographical market coverage and international coordination capability.**

6. Digital Technologies and Foreign-Market Entry

Digital technologies influence foreign-market entry primarily by reducing information asymmetry. Before entering a foreign market, enterprises require information concerning customer preferences, competitors, regulations, potential business partners and market conditions. Internet-based research, digital databases and analytical technologies allow firms to obtain and process such information more efficiently.

Digital communication also makes it possible to establish relationships with foreign customers, distributors and strategic partners before committing substantial physical resources to a particular country. This allows MNEs to evaluate market potential before choosing between exporting, alliances, joint ventures, acquisitions or wholly owned subsidiaries.

E-commerce provides an additional mechanism through which companies can access overseas customers. For suitable products and services, online channels permit an enterprise to develop international sales before establishing an extensive physical distribution network.

Therefore, digitalization does not necessarily replace traditional entry modes; rather, it improves the information available for selecting an appropriate mode and may reduce the resources required during the initial stages of internationalization.

7. Digital Technologies and International Expansion

Once an enterprise has entered foreign markets, digital technologies can facilitate further geographical expansion. Cloud-based information systems and digital communication technologies allow multinational enterprises to coordinate employees and activities located in several countries.

Enterprise resource planning systems enable financial, operational, inventory and customer information to be integrated across subsidiaries. Big-data analytics can assist management in identifying market trends, while digital marketing enables enterprises to communicate with international customer groups more efficiently.

Industry 4.0 further extends digitalization into manufacturing. Technologies such as IoT, automation and connected production systems allow multinational manufacturers to integrate factories, suppliers and logistics networks across different countries.

Digitalization can therefore affect both the **speed** and **scope** of international expansion. Firms with stronger digital capabilities may be capable of coordinating a larger number of international markets without increasing organizational complexity at the same rate as firms relying entirely upon conventional coordination mechanisms.

8. Indian Context

India represents an important emerging-economy context for studying this relationship. Indian multinational enterprises historically faced challenges such as relatively limited international brand recognition, differences in technological infrastructure and competition from well-established Western and Japanese multinational corporations.

Digital technologies provided new mechanisms for overcoming some of these disadvantages. Indian information-technology enterprises developed internationally distributed business models in which activities could be performed in India while customers were located in North America, Europe and other international markets.

Infosys provides a particularly relevant 2018 example. Its operations extended to clients in more than 45 countries, and its strategy explicitly emphasized scaling digital services, strengthening core systems, reskilling employees and increasing localization. Such a model demonstrates how technological knowledge, skilled human resources and digitally coordinated service delivery could support internationalization from an emerging economy.

Indian multinational internationalization was not limited to the technology industry. Enterprises in automobiles, pharmaceuticals, engineering and manufacturing increasingly used acquisitions, strategic alliances and overseas subsidiaries to develop international operations. Research concerning Indian MNEs published in 2018 also examined how internally owned and externally acquired resources interacted in accelerating internationalization.

At the same time, the Indian manufacturing environment faced important barriers to Industry 4.0 adoption. Research published in *Computers in Industry* in 2018 identified interconnected barriers affecting Industry 4.0 adoption in

Indian manufacturing, illustrating that India's digital transformation was significant but uneven.

9. Conceptual Framework

The relationship proposed in this study can be represented as:



In the Indian context, this relationship is influenced by factors such as availability of skilled human resources, digital infrastructure, financial resources, institutional conditions, industry characteristics and previous international experience.

10. Findings and Discussion

The study indicates that digital technologies influence foreign-market entry through three principal mechanisms. First, they reduce information barriers by improving access to international market intelligence. Second, they reduce communication and coordination costs between headquarters, foreign subsidiaries, customers and suppliers. Third, they create alternative mechanisms for accessing international customers through e-commerce, digital platforms and digitally delivered services.

The Indian experience demonstrates that these advantages may be particularly important for enterprises originating from emerging economies. Indian IT companies used technological capabilities and internationally distributed delivery models to establish significant positions in developed markets despite originating from an emerging economy.

However, digital technology alone does not ensure successful internationalization. Foreign-market knowledge, financial resources, managerial capabilities, local relationships and institutional understanding remain important. Digital technologies should therefore be understood as

complementary capabilities that strengthen rather than completely replace conventional internationalization strategies.

11. Conclusion

Digital technologies had become an increasingly important influence on the foreign-market entry and international expansion strategies of multinational enterprises by 2018. Internet connectivity, cloud computing, enterprise information systems, big-data analytics, e-commerce, automation and Industry 4.0 technologies reduced information barriers and strengthened the ability of firms to coordinate geographically dispersed operations.

The Indian experience is particularly significant because it demonstrates how enterprises from an emerging economy can use technological knowledge and human capital to develop international competitive advantages. Indian IT companies provide the strongest illustration, although digitalization was also becoming increasingly relevant to manufacturing and other industries.

The study concludes that digital technologies do not eliminate traditional foreign-market entry strategies such as exports, joint ventures, acquisitions and foreign direct investment. Instead, they change the manner in which these strategies are evaluated, implemented and coordinated. Digital capability should therefore be regarded as an increasingly important component of international competitive advantage and internationalization strategy.

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