COMCEC COORDINATION OFFICE Ankara, Türkiye 30 April 2024

Digital Transformation of Payment Systems in OIC Member Countries

f. Dr. Mustafa Omar Mohammed



# CASE STUDIES: MALAYSIA



**SECTION 2** 

### **OVERVIEW OF THE PRESENTATION**



#### SECTION 2 – CASE STUDIES (MALAYSIA)

- 4.1 Introduction: Justification for Choosing the Country
- 4.2 Legal and Regulatory Framework on Payment Systems
- 4.3 The Current Level of Development of Digital Payment Systems
- 4.4 Payment Systems: Current Trends, Issues and Challenges
- 4.5 Digital Payment Systems and Economic Activities
- 4.6 Cross-border Digital Payment Initiatives and Collaborations
- 4.7 Specific Needs to Improve the Payment Systems
- 4.8 Lessons Learnt from the Case Studies and Transfer of Knowledge among OIC Member Countries
- 4.9 Country-Specific Policy Recommendations
- 4.10 Implications of Policy Recommendations for OIC Member Countries





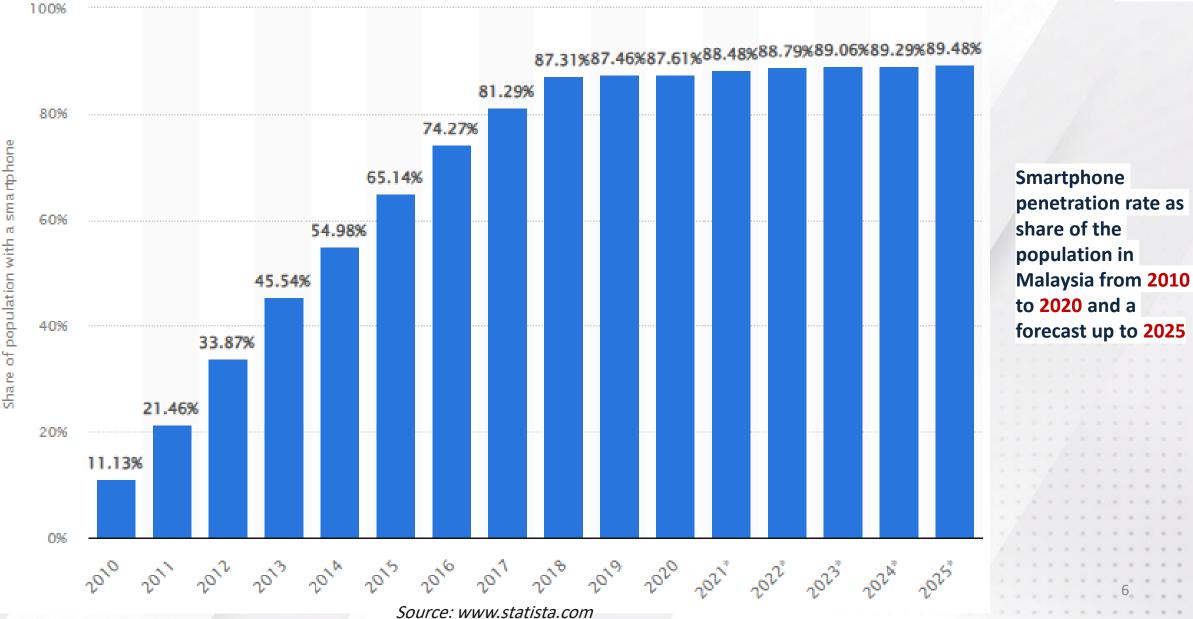
- Population: approximately 34.3 million
- Estimated GDP in 2024: \$465.541 billion (International Monetary Fund, 2023)
- High levels of human development, urbanization, and digital adoption
- Robust internet and smartphone penetration rates of 97.56% and 89.06% (Statista, 2024a; Statista, 2024b), respectively, in 2023
- Reflects a progressive and inclusive society, accommodating various ethnicities, religions, and cultures harmoniously
- The integration of innovative payment system methods, such as electronic payment platforms and real-time gross settlement systems, further propelled Malaysia's economic growth path
- Malaysia bolstered investor confidence by providing secure and reliable payment infrastructures, crucial for attracting FDI (Ng, 2015)
- The nation's proactive stance, particularly evident in its response to the Asian Financial Crisis and the formulation of the Financial Sector Master Plan 2001, underscores its commitment to modernizing payment systems (Basir, 2009)



Charting Malaysia's financial sector landscape for the next 5 years

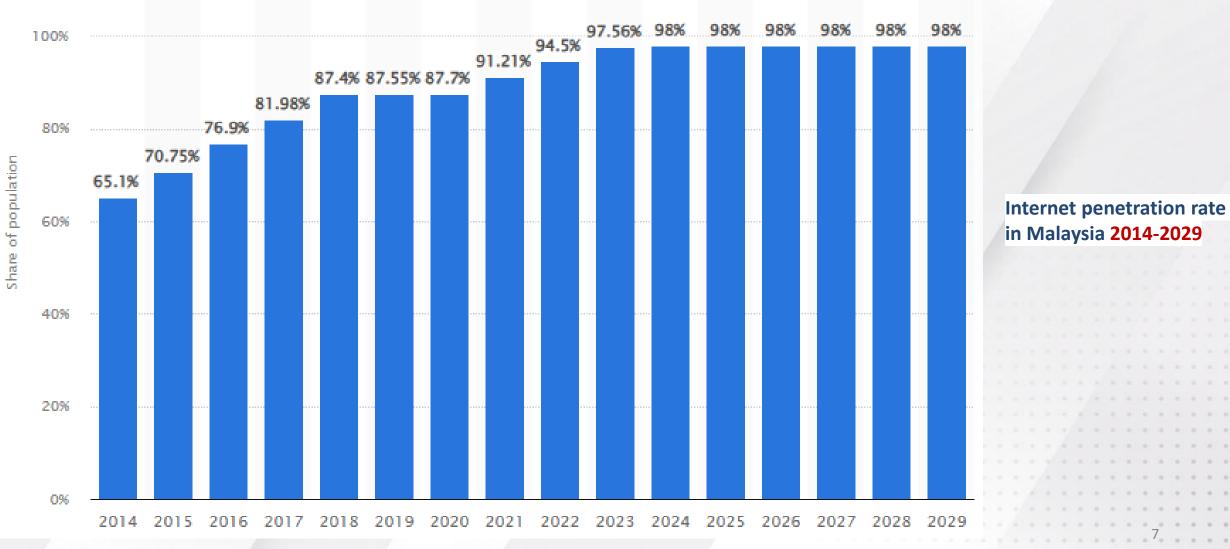


Source: Bank Negara Malaysia (Central Bank of Malaysia)

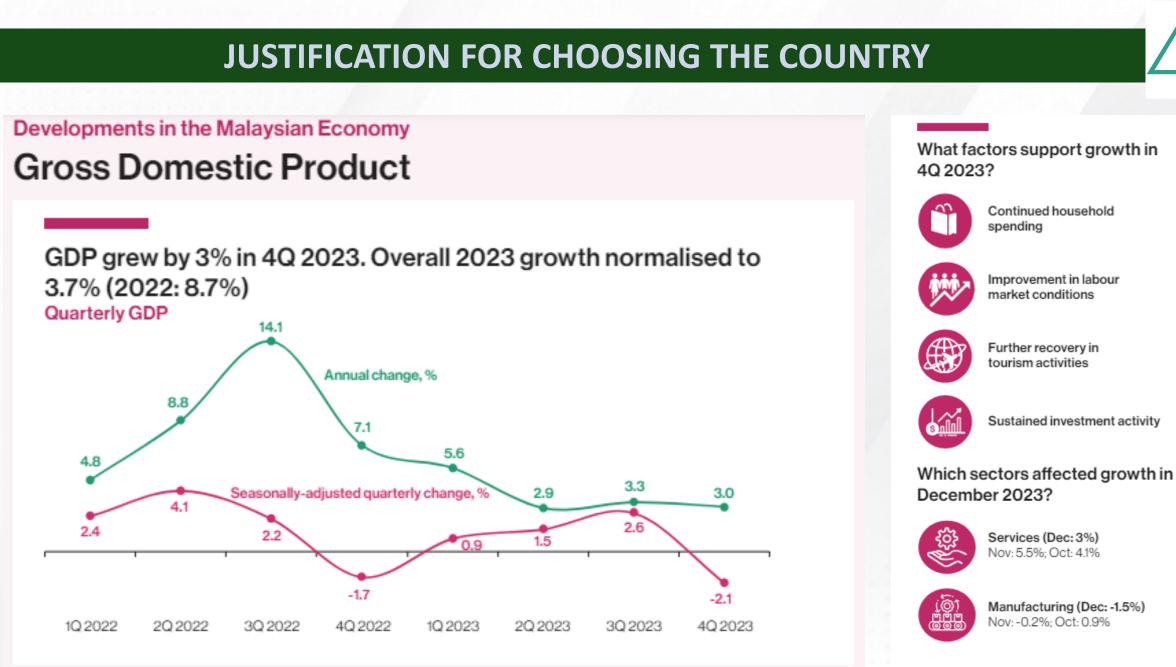




120%



Source: www.statista.com



Source: Bank Negara Malaysia (Central Bank of Malaysia)

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**Developments in the Malaysian Economy** 

### Malaysia's Economic Performance











### **Repealed Payment System Act 2003**

Central to its objectives was the mandate bestowed upon the Central Bank of Malaysia to regulate and supervise payment systems and instruments, thereby safeguarding their reliability and efficiency

> Under this Act, the Central Bank Malaysia was empowered to promote the reliable and efficient operation of payment systems, emphasizing the importance of compliance with regulatory requirements

> > The Financial Services Act (FSA) and the Islamic Financial Services Act (IFSA) came into effect on 30 June 2013, repealing the outdated Payment System Act 2003 (PSA) amongst other legislative objectives



#### BANK NEGARA MALAYSIA CENTRAL BANK OF MALAYSIA

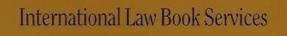


### FINANCIAL SERVICES ACT 2013 (ACT 758), REGULATIONS & ORDERS

#### AS AT 1<sup>ST</sup> NOVEMBER 2023)



LAWS OF MALAYSIA



### **Financial Services Act 2013**

It aims to regulate and supervise financial institutions, payment systems, and relevant entities, ensuring the stability of money and foreign exchange markets

> It addresses related matters to promote financial stability and addresses consequential or incidental issues (Ghazali & Kandiah, 2014)

> > Part IV of the Act focuses on payment systems, delineating the designation of payment systems and payment instruments, specifying operational requirements, and detailing the finality of payment and netting arrangements

> > > 13

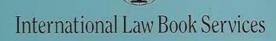


#### ISLAMIC FINANCIAL SERVICES ACT 2013 (ACT 759), REGULATIONS & ORDERS

(AS AT 5<sup>TH</sup> JULY 2023)



LAWS OF MALAYSIA



### **Islamic Financial Services Act 2013**

It aims to regulate and supervise Islamic financial institutions, payment systems, and relevant entities, ensuring compliance with Shariah and promoting financial stability in the Islamic money and foreign exchange markets

> It also addresses related matters and consequential or incidental issues (Lee & Oseni, 2015)

> > Part V of the Act: processes for designating payment systems and Islamic payment instruments, stipulates the operational requirements for payment systems, and outlines the finality of payment and netting arrangements





#### Interoperable Credit Transfer Framework

#### Applicable to:

- 1. Licensed banks
- 2. Licensed Islamic banks
- 3. Development financial institutions
- 4. Approved issuers of designated payment instruments
- 5. Registered merchant acquirers
- 6. Approved operators of payment systems

### **Interoperable Credit Transfer Framework**

Developed based on feedback received during a public consultation period, the ICTF aims to create an efficient, competitive, and innovative payment ecosystem in Malaysia

> By enabling interoperability of credit transfer services, the framework facilitates seamless transactions and promotes collaborative competition among financial institutions (Abdullah et al., 2020)

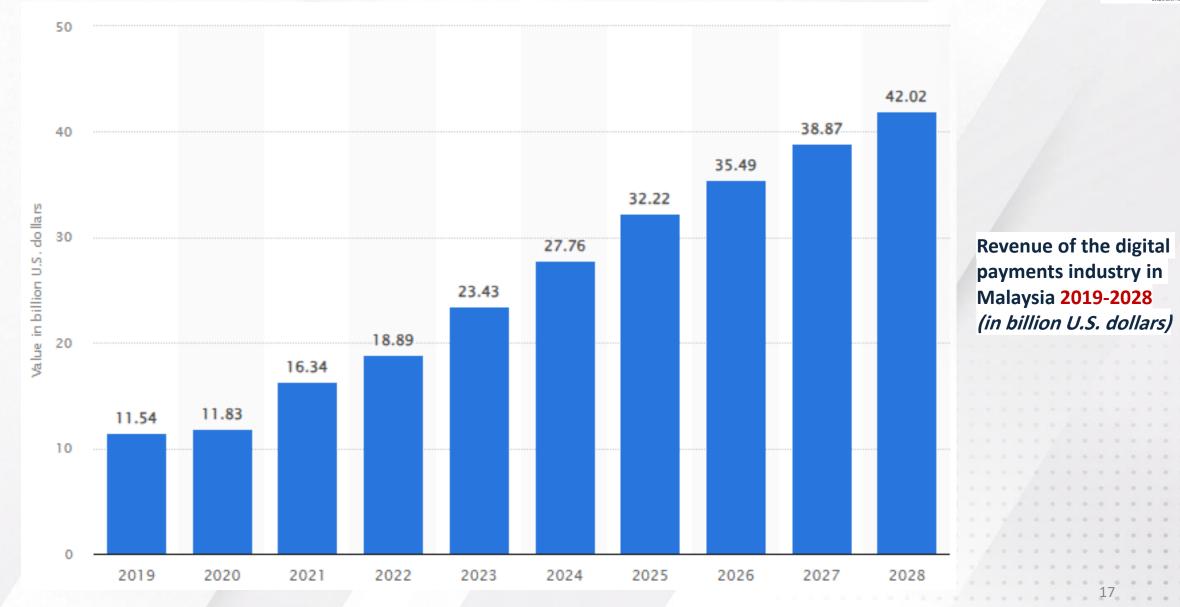
> > The ICTF represents a significant step towards promoting collaboration, innovation, and efficiency in Malaysia's payment landscape, ultimately benefiting businesses and consumers alike (Kylasapathy et al., 2017)



## 4.3 THE CURRENT LEVEL OF DEVELOPMENT OF DIGITAL PAYMENT SYSTEMS

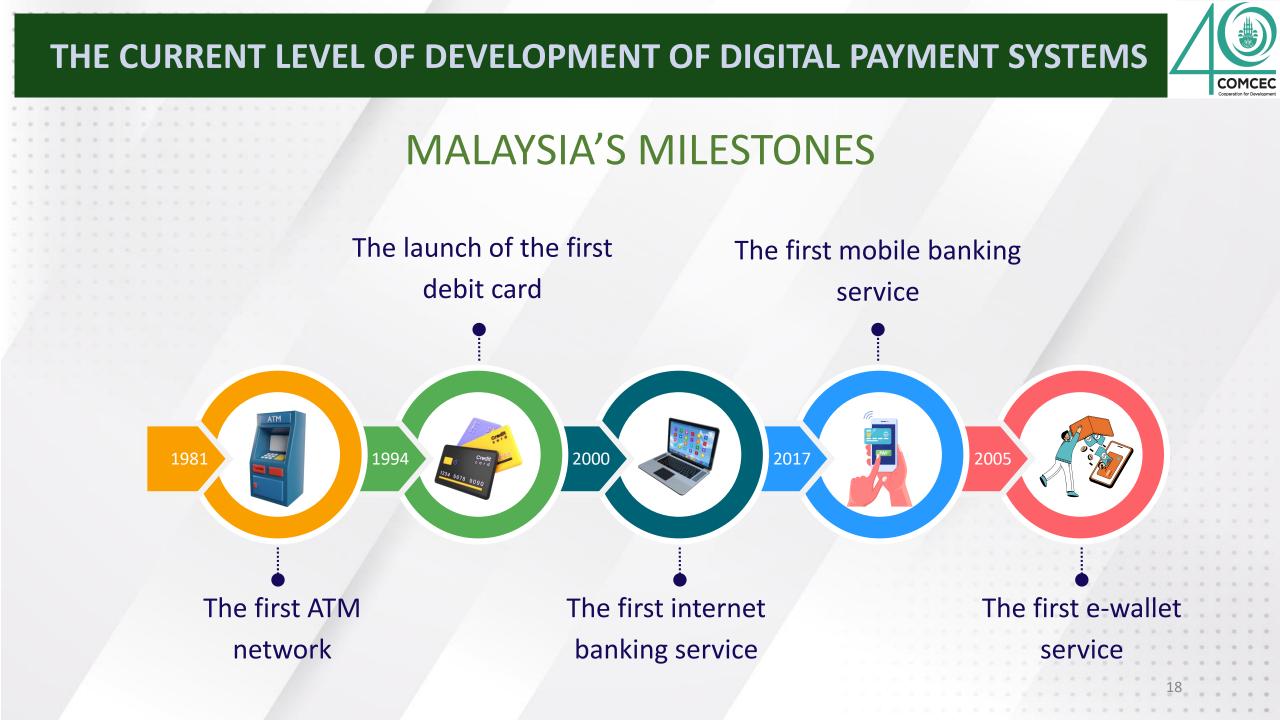


### THE CURRENT LEVEL OF DEVELOPMENT OF DIGITAL PAYMENT SYSTEMS



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Source: www.statista.com

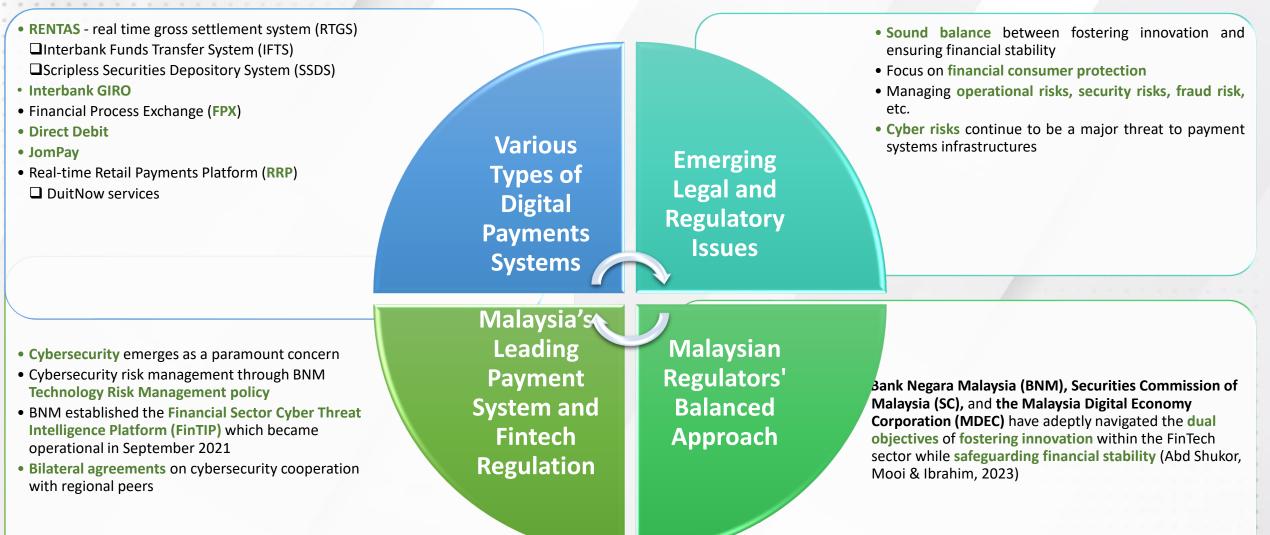




## 4.4 PAYMENT SYSTEMS: CURRENT TRENDS, ISSUES AND CHALLENGES

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### PAYMENT SYSTEMS: CURRENT TRENDS, ISSUES AND CHALLENGES



Mil	RENTAS^		Interbank GIRO		FPX		Direct Debit		JomPAY		RPP*	
/RM bil	Volume	Value	Volume	Value	Volume	Value	Volume	Value	Volume	Value	Volume	Value
2019	5.1	56,790.0	202.9	1,126.0	174.2	89.8	4.5	42.5	41.9	25.5	109.3	151.4
2020	4.9	62,101.0	264.5	1,184.1	367.2	138.5	5.0	44.8	52.8	32.4	570.6	679.7
2021	5.0	64,656.4	351.4	1,392.3	638.5	219.8	9.0	52.9	69.2	38.7	1,057.2	1,171.5
2022	5.1	76,752.4	297.0	1,496.4	646.1	251.4	12.0	63.9	77.2	46.2	1,438.2	1,685.6
2023 Jan-Feb	5.4	77,205.0	294.2	1,485.1	714.2	299.6	13.9	69.6	84.7	53.7	2,090.5	2,173.4
2024	0.9	12,110.2	51.0	260.1	127.4	58.6	2.5	12.0	15.1	9.8	459.0	437.1

^ Real time gross settlement system - with two subsystems i.e. Interbank Funds Transfer System (IFTS), and Scripless Securities Depository System (SSDS)

\* Real-time Retail Payments Platform refers to DuitNow services such as DuitNow Transfer, DuitNow QR etc.

Source: Bank Negara Malaysia (2024)



## 4.5 DIGITAL PAYMENT SYSTEMS AND ECONOMIC ACTIVITIES

### DIGITAL PAYMENT SYSTEMS AND ECONOMIC ACTIVITIES



## Malaysia's Digital Economy



The potential impact of the digital payment system on the country's economy is positive and significant, as it can enhance the efficiency, convenience, and security of transactions, as well as reduce the cost, risk, and environmental impact of cash handling (Bhuiyan et al., 2024)

> Moreover, digital payment systems can also foster financial inclusion, innovation, and competitiveness, as well as support the development of the digital economy, e-commerce, and fintech sectors (Patra & Sethi, 2023)

> > According to Minister in the Prime Minister's Department (Economy) Datuk Seri Mustapha Mohamed, Malaysia's digital economy is projected to contribute 22.6% to the nation's GDP and create around 500,000 fresh job opportunities by the year 2025 (MIDA, 2024)



## 4.6 CROSS-BORDER DIGITAL PAYMENT INITIATIVES AND COLLABORATIONS

## CROSS-BORDER DIGITAL PAYMENT INITIATIVES AND COLLABORATIONS





ASEA

INDONESIA

2023

Signing of a Memorandum of Understanding (MOU) on Cooperation in Regional Payment Connectivity (RPC) during the G20 Leaders' Summit held in Bali, Indonesia

Solidified their commitment to bolstering payment connectivity to facilitate faster, cheaper, and more transparent cross-border transactions

President Joko Widodo of Indonesia emphasized the significance of collaborative endeavours in tackling global challenges during the signing ceremony, commending the commitment of the central bank governors to drive innovative breakthroughs

## CROSS-BORDER DIGITAL PAYMENT INITIATIVES AND COLLABORATIONS





Monetary Authority of Singapore



BANK NEGARA MALAYSIA CENTRAL BANK OF MALAYSIA





## ธนาคารแห่งประเทศไทย BANK OF THAILAND

The collaboration also echoes ASEAN's vision for interconnected payment systems, with a focus on achieving faster, seamless, and affordable cross-border transactions by 2025

The RPC is anticipated to play a pivotal role in expediting regional economic recovery and fostering inclusive growth by facilitating cross-border trade, investment, remittance, tourism, and financial deepening

The participation of central banks, BI, BNM, BSP, MAS, and BOT underscores the collective commitment to fostering regional payment connectivity, which is crucial for advancing ASEAN's digital transformation agenda and promoting financial integration within the region



## 4.7 SPECIFIC NEEDS TO IMPROVE THE PAYMENT SYSTEMS

### SPECIFIC NEEDS TO IMPROVE THE PAYMENT SYSTEMS

nternet Connectivity	<ul> <li>Singapore leads in internet connectivity, followed by Thailand and Malaysia, albeit at a slower pace</li> <li>Collaborative efforts within ASEAN are vital to address these disparities, driving economic prosperity and digital inclusion across the region</li> </ul>
Malaysia's E- Payment Advancement Boosts E-Commerce	<ul> <li>Malaysia's advanced banking and financial sectors provide a competitive edge in developing and managing robust e-payment infrastructure</li> <li>Collaboration within ASEAN can further enhance Malaysia's e-payment ecosystem, fostering regional economic growth and digital innovation</li> </ul>
Regulatory Oversight for efficiency	<ul> <li>Countries are enhancing their payment systems infrastructure and institutions, both in retail and large-value segments, to adapt to technological advancements</li> <li>Regulatory authorities always need to consider the balance between efficiency and security</li> </ul>
Cross-Border Payment and Collaboration	<ul> <li>Through sustained collaboration among banks, regulators, and fintech innovators, Malaysia can establish standardized protocols and interoperable systems, fostering seamless cross-border transactions within ASEAN (DAN &amp; Dewi, 2023)</li> </ul>
Protecting ndividual Privacy in the Age of Big Data	<ul> <li>To assess the national landscape of privacy protection, the development of a cyberprivacy index could serve as a valuable tool in evaluating countries' efforts to safeguard citizens' privacy rights</li> </ul>

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## 4.8 LESSONS LEARNT FROM THE CASE STUDIES AND TRANSFER OF KNOWLEDGE AMONG OIC MEMBER COUNTRIES

### LESSONS LEARNT FROM THE CASE STUDIES AND TRANSFER OF KNOWLEDGE AMONG OIC MEMBER COUNTRIES



#### Propensity for Fast and Seamless Fund Transfer

With the introduction of RPP in Malaysia, there is the real-time, datarich payments between accountholders in various financial institutions

#### Enhancing Mobile Banking Capabilities With the preference for mobile banking among customers as opposed to desktop online banking, Malaysia has been able to enhance its mobile banking capabilities

## Further enhancing the payment system through QR Payments

The convenience of using QR payments with mobile phones is a step further in enhancing the payment systems which deemphasizes the use of cash and bank cards

#### **Continued relevance of Cards**

Despite the increasing rise in digital payments, including the use of QR payments, there is continued trust in bank cards. Both debit and credit cards are still being used and are trusted for both in-store and e-commerce payments

#### Significant reduction in cash usage

With the increasingly diversified digital payment systems, there is less reliance on cash. It appears that one of the lessons learnt from the pandemic was erosion in cash usage Benefits of Cross-border collaborations The collaboration among the ASEA countries to develop a robust crossborder payment systems infrastructure makes a good case for the OIC-wide payment systems infrastructure which will help promote trade and boost the economies of the member countries







#### **1. SUSTAINED PROMOTION OF DIGITAL PAYMENTS**

Malaysia should continue to promote the use of digital payments through various strategies, particularly in the rural communities

> Customers should be encouraged to discontinue the use of traditional methods such as cheques and cash. This requires some incentives and public awareness campaigns

> > Digital payments platforms need to be user-friendly and accessible to all, including people who reside in the rural areas and the underserved communities



### **2. STRENGTHEN CYBERSECURITY**

Malaysia through BNM and other industry partners such as the SC has taken giant steps in enhancing cybersecurity to minimize the risks associated with digital payments

There is still a need for continuous improvement, enhancement and finetuning to ensure a robust, resilient and ironclad cybersecurity protocols are deployed in the payment systems infrastructures in the country

> **Bilateral and multilateral arrangements** on cybersecurity cooperation not only with regional partners but also with all OIC member countries could help promote information exchange and further support ongoing capacity building initiatives

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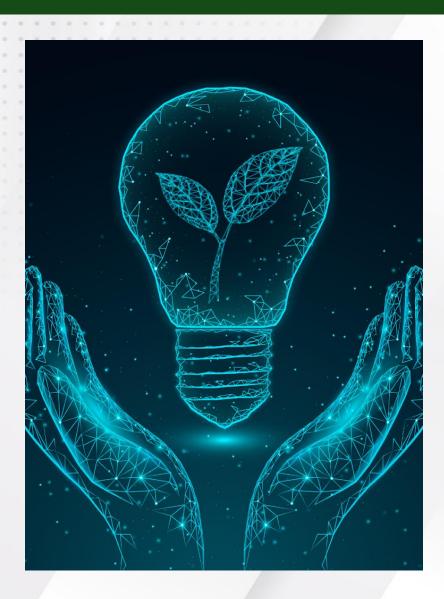


### **3. PROACTIVE REGULATORY REFORMS**



The payment landscape keeps evolving, particularly the digital payment systems with the proliferation of Fintech

BNM need to continue to track developments globally and monitor emerging risks which would help in updating and reforming existing regulatory policies



#### 4. FOSTER AN ENVIRONMENT THAT ENCOURAGES INNOVATION

Malaysia needs to continue to foster an environment that promotes innovation and adoption of new technologies in the payment systems.

> To control the activities of **non-state** or **faceless players** who have utilized blockchain technology in introducing cryptocurrencies

> > Hence, BNM should actively consider enhancing its payment systems through the introduction of CBDC. Utilizing blockchain for its regulatory and supervisory roles will also enhance service delivery and promote transparency.

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### **5. PROMOTE FINANCIAL LITERACY**

Consumers, particularly the underserved and vulnerable, need to be well informed about digital payments, including how to benefit from its potentials and protect themselves against the risks

> Understanding the benefits, risks and security aspects of digital payments would help such consumers utilize such payment systems with enhanced user experience



### Financial Literacy

[fə-'nan(t)-shəl 'li-t(ə-)rə-sē]

The ability to understand and effectively use various financial skills, including personal financial management, budgeting, and investing.

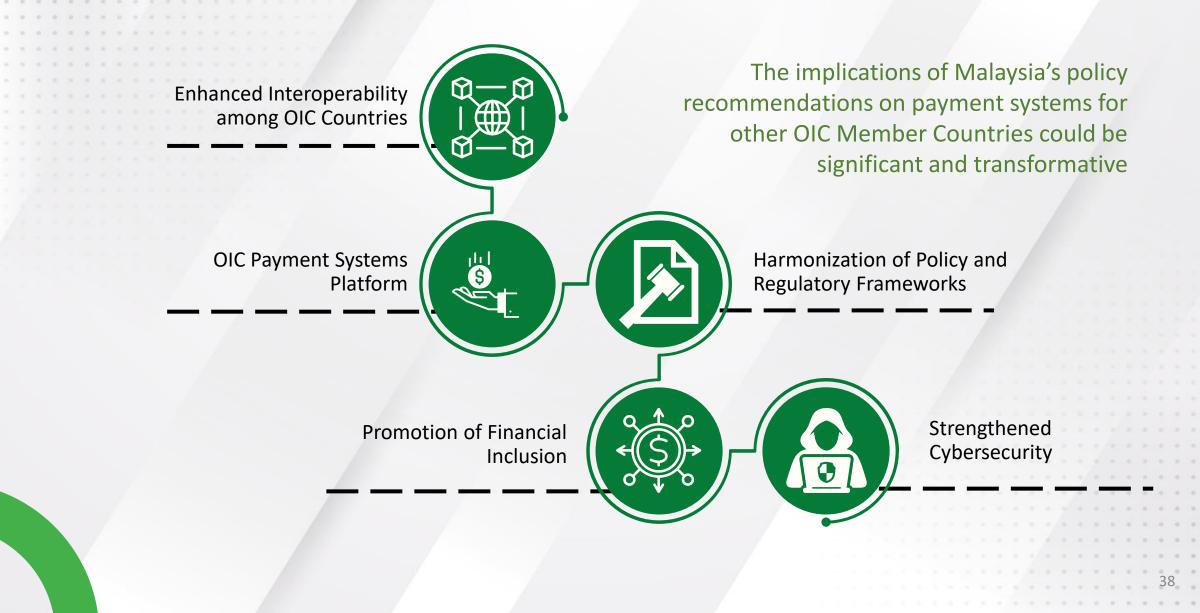
Investopedia



## 4.10 IMPLICATIONS OF POLICY RECOMMENDATIONS FOR OIC MEMBER COUNTRIES

### IMPLICATIONS OF POLICY RECOMMENDATIONS FOR OIC MEMBER COUNTRIES





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# Thank You



