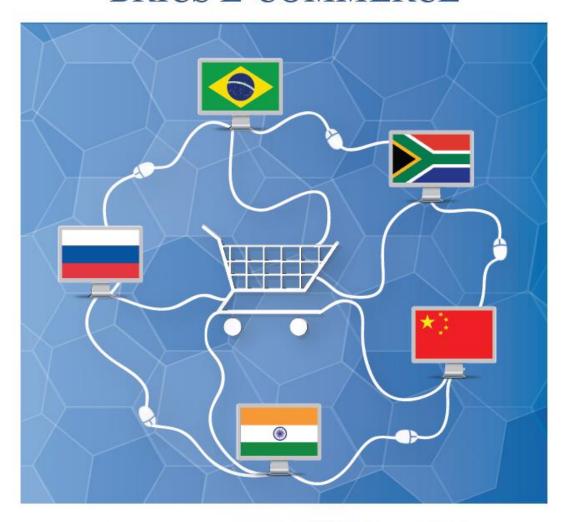




STATUS, OPPORTUNITIES AND CHALLENGES OF BRICS E-COMMERCE



A report prepared by UNIDO and ITC

for submission to the BRICS Trade Ministers Meeting Shanghai, China 2 August 2017

The report does not represent the views of the BRICS countries

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Acronyms

Unless otherwise specified, all references to dollars (\$) are to United States dollars.

ASSOCHAM The Associated Chambers of Commerce & Industry of India

B2B Business to Business B2C Business to Consumer B2G Business to Government

BHIM Bharat Interface for Money (App)

BRICS Association of five economies: Brazil, Russia, India, China and South Africa

CDC Consumer Defense Code (Brazil)
CMS Content Management System

CNNIC China Internet Network Information Center

COD Cash on Delivery

CPA Consumer Protection Act (India)

C2C Consumer to Consumer C2M Consumer to Manufacturing

DTI Department of Trade and Industry (South Africa) ECT Electronic Transaction Act., (South Africa)

FNB First National Bank (South Africa)
ETP Electronic Trading Platform
GDP Gross Domestic Product

GST Goods and Service Tax (India)

G7 Group of Seven (Canada, France, Germany, Italy, Japan, the UK and US)

G20 Group of Twenty (Includes 20 major economies)

IAMAI Internet and Mobile Association of India IBGE Brazilian Institute for Geography and Statistics

ICASA Independent Communications Authority of South Africa

IMRB Internet Market Research Bureau (India)
ICT Information Communication Technology

IT Information Technology ITC International Trade Centre

ITU International Telecommunication Union

MIKTA Mexico, Indonesia, Republic of Korea, Turkey and Australia partnership

OECD Organization for Economic Co-operation and Development

R & D
 SARB
 SOuth African Reserve Bank
 SARS
 South African Reserve Service
 SC2B
 Supply Chain to Business

SME Small and Medium-Sized Enterprises

UNCTAD United Nations Conference on Trade and Development UNIDO United nations Industrial Development Organization

WITS World Integrated Trade Solution WTO World Trade Organization

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Executive Summary

During the last decade, along with the rapid development of information technology (IT), e-commerce has maintained swift growth and has become one of the world's most dynamic economic activities. Latest estimates from UNCTAD show that global e-commerce reached US\$ 25.3 trillion in 2015, of which US\$ 22.4 trillion was B2B e-commerce and US\$ 2.9 trillion B2C e-commerce³. E-commerce is playing an increasingly important role in promoting domestic and cross-border trade, industry transformation and job creation thereby providing overall strategic opportunities for the economic and social development for all countries. In this context, this report analyses the status of e-commerce in BRICS in the backdrop of global e-commerce trends. Due to the limited availability of reliable B2B and B2G e-commerce data in BRICS countries, the report relies mostly on B2C e-commerce data for cross comparative study and trend analysis in BRICS e-commerce.

Chapter 1 of the report examines the global trends in e-commerce, the impact of e-commerce on the global economy in the context of digital economy and the factors affecting e-commerce. The report finds that e-commerce as a share of overall global GDP is rising. China, the UK and South Africa have the highest proportion of eGDP in their overall GDP. Spurred by the increasing internet penetration in the past decade, the percentage of online shoppers has increased over time, which has in turn given a boost to the e-commerce industry across all sectors, including B2C, B2B and B2G. Cross-border e-commerce trade is also growing alongside the number of online shoppers. Though there is overall growth in ecommerce, market size and distribution varies across regions and countries. In 2015, the United States, Japan and China were the top performers in B2B sales. In the same year, the United States, China and the UK were the top performers in B2C sales. The top ten countries contributing to global e-commerce account for 64 per cent of B2B e-commerce. In 2015, the Asia-Pacific region recorded the largest ecommerce turnover, which can be attributed to the large markets in China and India. Internet penetration has a strong correlation with e-commerce development. In 2016, around 53 per cent of the global population did not have access to the Internet, with the majority of the offline population concentrated in Africa and LDCs. Improving Internet connectivity in these regions would boost e-commerce development. In addition to Internet access, the availability of diverse payment options also impacts ecommerce. E-wallets, credit cards and debit cards are the three most popular modes of electronic payments but in terms of growth, eWallets and PrePay are expected to have the highest growth in the coming years. Strengthening the infrastructure for easy use and secure payment methods can boost ecommerce.

Chapter 2 provides a cross comparison of the current status of e-commerce in BRICS countries covering B2B, B2C and, wherever possible, the B2G components of domestic and cross-border e-commerce trade. It also highlights the strengths, weaknesses and opportunities of the BRICS e-commerce ecosystems. Section 2.3 elaborates on the country specific e-commerce details within BRICS and sheds light on various aspects of e-commerce including the business models adopted, major e-commerce platforms available and the best practices adopted by successful players. It further explores the challenges faced by e-commerce enterprises within BRICS, as well as the public and private initiatives undertaken to address these challenges. The study finds that the volume of e-commerce sales varies significantly within BRICS. In Brazil, despite a difficult economic landscape, e-commerce maintained growth though the average spending per shopper is still low. Russia has a strong B2G sector but cross-border sales, though on the

²

² OECD definition of E-commerce has been adopted for the purpose of this study

³ http://unctad.org/en/pages/newsdetails.aspx?OriginalVersionID=1466

rise, are relatively small. Retail e-commerce sales in India grew at an annual rate of 24.5 per cent to reach US\$ 16 billion in 2016 and are expected to reach US\$ 45.17bn in 2021. E-commerce in India has expanded over the last decade due to the rapid adoption of new technologies, a large increase in the number of internet users, innovative business models, and alternative payment methods offered by e-commerce companies. The Chinese e-commerce landscape is dominated by several giant platforms such as Alibaba and JD.com. China leads the Asia-Pacific region due to its large market size, growing middle-class, lower costs, high Internet penetration, and a large manufacturing base. In South Africa, e-commerce is still at the nascent stage though the country is one of the continent's leaders in e-commerce development, owing to its relatively better Internet and smartphone access and payment card penetration.

The analysis of the BRICS e-commerce ecosystem indicates that certain challenges are common to all BRICS countries. This includes bureaucratic procedures, unfavorable tax regimes, underdeveloped delivery infrastructure, a lack of e-commerce skills in SMEs, hindering their ability to compete with larger companies, and adequate mechanisms for ensuring privacy and security of data. At the same time, each BRICS country has its unique challenges. Brazil is facing a challenging economic situation. In Russia, language barriers and slow delivery are obstacles to the growth of cross-border trade. In India, there is a lack of trust among Indian buyers when it comes to online transactions and ePayments. For China, the lack of unified cross-border standards for inspection of parcels and lack of unified regulations to handle disputes emanating from cross-border transactions are major factors impacting cross-border trade. In South Africa, costs of data are some of the highest in the world and SMEs lack access to finance. These are the serious drawbacks of South Africa's e-commerce environment.

Chapter 3 provides information about the major regulations and standards adopted by BRICS for regulating e-commerce business processes. The study finds that all BRICS countries have adopted legislations for e-transactions and cybercrime. Brazil, China and South Africa have also adopted legislation for consumer protection, while Russia and India do not have dedicated e-commerce consumer protection laws. In terms of privacy and data protection, China, India, Russia and South Africa have adopted legislation while Brazil has drafted but not yet adopted relevant legislation.

Recognizing the need for a forward-looking approach to capture e-commerce dynamism, Chapter 4 identifies the challenges in e-commerce measurement as well as the major factors that will shape BRICS' e-commerce in the coming years along with economic variables that will be impacted by e-commerce. This will help the formulation of strategies and policies for e-commerce growth, and could also serve as a guideline for impact assessment. According to the study's findings, the major challenges facing e-commerce measurement in BRICS include inadequate availability of reliable statistics, especially in the

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