E-Commerce & ASEAN Economic Integration

Cassey Lee & Sanchita Basu Das
Introduction

• E-Commerce has become increasingly important in ASEAN member countries in recent years.
• Whilst the “ASEAN market” is collectively large, there are significant challenges to develop e-commerce in some countries.
• The goal of this presentation is to examine the state of e-commerce and its role in ASEAN economic integration.
• Examine the framework for ASEAN cooperation in the development of e-commerce.
• Identify some of the challenges that lie ahead.
Outline of Presentation

• Concepts and Framework
• Measuring E-Commerce
• E-Commerce and ASEAN Economic Integration
• Challenges
Concepts and Framework
Evolving Discourse on the “New Economy”

Knowledge-Based Economy

Information Economy

Digital Economy

Internet of Things

Sharing Economy

E-Commerce
Evolving Concepts of the “New Economy”

Broad Concepts:
• Knowledge-Based Economy
• Information Economy
• Digital Economy
• Internet of Things

Specific Concepts:
• E-Commerce
• Sharing Economy
Evolving Concepts

“The knowledge based economy is an expression coined to describe trends in advanced economies towards greater dependence on knowledge, information and high skill levels, and the increasing need for ready access to all of these by the business and public sectors.” (OECD, 2005)

“A distinctive characteristic of the information economy is the intensive use, by businesses, of ICT for the collection, storage, processing and transmission of information.” (UNCTAD, 2007)
Evolving Concepts ...

• “The digital economy refers to both the digital access of goods and services, and the use of digital technology to help businesses.” (House of Commons, UK, 2016)

• “Internet of Things refers to an ecosystem in which applications and services are driven by data collected from devices that sense and interface with the physical world.” (OECD, 2016)

• “Sharing economy: An economic system based on sharing underused assets or services, for free or for a fee, directly from individuals.” (Bostman, 2015)
E-Commerce: Definitions and Concepts

• “The use of the internet and the WWW to transact business” (Laudon & Traver, 2010)

• “Buying and selling using the internet ... all electronically mediated transactions between an organization and any third party it deals with.” (Chaffey, 2009)

• “The production, distribution, marketing, sale or delivery of goods and services by electronic means” (WTO)
E-Commerce: Definitions and Concepts

• “An e-commerce transaction is the sale or purchase of goods or services, conducted over computer networks by methods specifically designed for the purpose of receiving or placing of orders.” (OECD)

• Computer networks ≈ internet
E-Commerce Transactions: Types, Models & Platforms

- Major Types of e-commerce based on types of participants:
  - Consumer to Consumer (C2C)
  - Business to Consumer (B2C)
  - Business to Business (B2B)
  - Business to Government (B2G)

- E-Commerce Models:
  - ++ such as:
    - B2B2C (extended B2C)
    - Brand.com (sub-version of B2C)

- Platforms:
  - Sharing, Matching, E-Commerce
Life-Cycle of E-Commerce Models

Classifieds
- US: Craigslist
- China: Garji, 58
- Thailand: OLX/Kaidee

C2C
- US: eBay
- China: Taobao
- Thailand: Tarad, WeLoveShopping, Shopee, LINE Shop

B2C
- US: Amazon (41%), Shopbop
- China: JD.com
- Thailand: iTrueMart, Central Online, Cdiscount, Sephora, Lazada (30%), Zalora

B2B2C
- US: Amazon (59%)
- China: Tmall (100%), JD
- Thailand: Lazada (70%)

Brand.com
- US: Estee Lauder, Dell, Nike, Under Armour
- China: Lancome, Estee Lauder, Dell, Nike
- Thailand: Maybelline, Kiehl's, Estee Lauder, Adidas

Source: http://ecommerceiq.asia/
Figure O.8 Many digital transactions involve all three mechanisms and a two-sided market

- **Innovation**: Platforms
  - Sellers
    - Drivers, hosts, and freelancers
    - Job seekers, travelers, entrepreneurs, and artists
    - Traders and senders (money)
  - On-demand/sharing economy
    - Riders, guests, and small businesses
    - Matching platforms
      - Employers, airlines and hotels, investors, and consumers
    - E-commerce and digital payments
      - Customers and recipients (money)

Source: WDR 2016 team.
B2C E-Commerce Transaction Process
E-Commerce Ecosystem

- Information & Search
- Buying & Selling
- Payment / Finance
- Storage / Warehousing
- Delivery / Shipping

Cross-Border Transaction Costs
Drivers

• **Demand Drivers: Consumers / Firms / Buyers**
  – Preferences
  – Income
  – Knowledge / Capacity / Access

• **Supply Drivers: Sellers**
  – Knowledge / Capacity / Access
  – Technology – Devices, Apps, Platforms

• **Infrastructure:**
  – ICT, Transport, Storage, Payment and Financing

• **Regulation & Policy:**
  – Market Entry and Pricing, Security and Privacy, Competition Law, Taxation, Customs Procedures
Measuring E-Commerce
How to “measure” E-Commerce?

- E-Commerce transactions – Utilization and Sales
- Demand – demographics, income per capita, internet usage & behaviour
- Supply – firms (sellers/suppliers) usage of ICT
- Infrastructure – broadband & mobile broadband
- Regulation & Policy – entry/exit, pricing, customs, taxes
State of ASEAN E-Commerce Statistics

- E-Commerce sales:
  - Data availability is problem esp. B2B compared to B2C
  - Plenty of data but in private domain and fragmented (Alibaba, Amazon, Lazada, E-Bay, Facebook, Banks, VISA, AMEX etc)
  - National accounting system – captured but not as “e-commerce”
  - Sample survey estimates – AT Kearney, UBS, e-Marketers etc.
  - Cross-border e-commerce data scarce – focus on OECD countries (UNCTAD, 2016)

- ICT statistics
  - Infrastructure and usage
  - Better data – ITU, OECD, World Bank

- Drivers – demographics and income
  - Good data
ASEAN E-Commerce: Snapshot

More than 50% of ASEAN’s population is under 30 years old (compared to 39% of East Asia’s and 34% of Europe’s)

ASEAN: Rise of the middle class

- Indonesia
- Thailand
- Singapore
- Malaysia
- Vietnam

Largest Markets:
- Indonesia
- Thailand
- Singapore
- Malaysia
- Vietnam

Robust Economic Growth

- 480 mil internet users
- 700 mil mobile users
- 630 mil pop
Market Size of E-Commerce in ASEAN Countries

• Existing estimates on the actual and potential size of e-commerce in ASEAN countries show lack of consensus
• Differences in estimation methodologies
• Most agree that e-commerce (B2C) as a percentage of retail sales is low (except for Singapore, < 1%)
• B2B e-commerce is even more difficult to estimate (different methodology)
• Cross-border e-commerce transactions
<table>
<thead>
<tr>
<th>Country</th>
<th>Retail E-Commerce 2013 (USD, bil) [AT Kearney]</th>
<th>Theoretical Potential (USD, bil) [AT Kearney]</th>
<th>Online Sales 2014 (USD, bil) [Euromonitor]</th>
<th>E-Commerce Retail Sales 2013 (USD, bil) [UBS]</th>
<th>Retail E-Commerce Sales 2016 (USD, bil) [Statistica]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brunei</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Cambodia</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indonesia</td>
<td>1.3</td>
<td>25-30</td>
<td>1.1</td>
<td>0.10</td>
<td>5.29</td>
</tr>
<tr>
<td>Lao PDR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Malaysia</td>
<td>1.3</td>
<td>10-15</td>
<td>0.496</td>
<td>0.20</td>
<td>1.97</td>
</tr>
<tr>
<td>Myanmar</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Philippines</td>
<td>1.0</td>
<td>8-12</td>
<td></td>
<td>0.10</td>
<td>0.05</td>
</tr>
<tr>
<td>Singapore</td>
<td>1.7</td>
<td>7-10</td>
<td>0.86</td>
<td>0.30</td>
<td>2.13</td>
</tr>
<tr>
<td>Thailand</td>
<td>0.9</td>
<td>12-15</td>
<td>1.1</td>
<td>0.19</td>
<td>2.89</td>
</tr>
<tr>
<td>Vietnam</td>
<td>0.8</td>
<td>5-7</td>
<td></td>
<td>0.08</td>
<td>1.71</td>
</tr>
</tbody>
</table>
UNCTAD’s B2C E-Commerce Index, 2016

Source: Information Economy Report 2015, UNCTAD
Age Profile of Population in ASEAN Countries

Source: UN
Percent of firms having their own Web site

<table>
<thead>
<tr>
<th>Country</th>
<th>Year</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Countries</td>
<td></td>
<td>44.2</td>
</tr>
<tr>
<td>High income: OECD</td>
<td></td>
<td>77.5</td>
</tr>
<tr>
<td>Cambodia (2016)</td>
<td></td>
<td>24.2</td>
</tr>
<tr>
<td>Indonesia (2015)</td>
<td></td>
<td>20.5</td>
</tr>
<tr>
<td>Lao PDR (2016)</td>
<td></td>
<td>12.8</td>
</tr>
<tr>
<td>Malaysia (2015)</td>
<td></td>
<td>31.5</td>
</tr>
<tr>
<td>Myanmar (2014)</td>
<td></td>
<td>14.8</td>
</tr>
<tr>
<td>Philippines (2015)</td>
<td></td>
<td>52.4</td>
</tr>
<tr>
<td>Thailand (2016)</td>
<td></td>
<td>45.5</td>
</tr>
<tr>
<td>Vietnam (2015)</td>
<td></td>
<td>48.6</td>
</tr>
</tbody>
</table>

Source: World Bank
Percent of firms using e-mail to interact with clients/suppliers

- **All Countries**: 72.1%
- **High income: OECD (2016)**: 94.4%
- **Cambodia (2016)**: 57.5%
- **Indonesia (2015)**: 30.6%
- **Lao PDR (2016)**: 24.3%
- **Malaysia (2015)**: 46.2%
- **Myanmar (2014)**: 30.1%
- **Philippines (2015)**: 80.4%
- **Thailand (2016)**: 52.9%
- **Vietnam (2015)**: 91.5%

Source: World Bank
ICT & E-Commerce: ASEAN Manufacturing Microdata

- ERIA-ISEAS SME Survey, 2015-2016
- 1,539 firms from selected ASEAN countries: Cambodia, Indonesia, Malaysia, Myanmar, Philippines, Thailand and Vietnam
- What role does ICT and e-commerce play in exporting?
- Small and large firms use ICT differently:
  - Small firms: website (marketing)
  - Large firms: procurement (outsourcing)
- Sectoral differences:
  - Food and beverage: procurement
  - Textiles: online payment
E-Commerce & ICT Infrastructure

**Sources:** ESCAP estimates; UNCTAD B2C E-Commerce Index 2016; and fixed broadband per 100 sourced from ITU.
## ICT Infrastructure – Penetration and Usage

<table>
<thead>
<tr>
<th>Country</th>
<th>% of Individuals Using Internet</th>
<th>Mobile Broadband Subscriptions per 100 Capita</th>
<th>Monthly Mobile Subscription Cost (US$)</th>
<th>Mobile Internet Download Speed Mbit/s (3G+LTE)</th>
<th>Facebook Users, mil (% of Internet Users)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brunei</td>
<td>68.8</td>
<td>6.3</td>
<td>28 (1.5GB)</td>
<td>1.97</td>
<td>0.27 (67.5%)</td>
</tr>
<tr>
<td>Cambodia</td>
<td>9.0</td>
<td>14.0</td>
<td>30 (1.5GB)</td>
<td>1.60</td>
<td>3.30 (21.4%)</td>
</tr>
<tr>
<td>Indonesia</td>
<td>17.1</td>
<td>34.7</td>
<td>7.6 (2GB)</td>
<td>1.04</td>
<td>78.0 (30.9%)</td>
</tr>
<tr>
<td>Lao PDR</td>
<td>14.3</td>
<td>4.6</td>
<td>6.2 (5GB)</td>
<td>1.24</td>
<td>0.96 (13.9%)</td>
</tr>
<tr>
<td>Malaysia</td>
<td>67.5</td>
<td>58.3</td>
<td>9.5 (1GB)</td>
<td>2.48</td>
<td>18.0 (59.6%)</td>
</tr>
<tr>
<td>Myanmar</td>
<td>2.1</td>
<td>14.9</td>
<td>10.7 (2.5GB)</td>
<td>0.4</td>
<td>7.10 (13.2%)</td>
</tr>
<tr>
<td>Philippines</td>
<td>39.7</td>
<td>28.0</td>
<td>7 (1.5GB)</td>
<td>1.72</td>
<td>47.0 (47.0%)</td>
</tr>
<tr>
<td>Singapore</td>
<td>82.0</td>
<td>156.1</td>
<td>24 (2GB)</td>
<td>16.85</td>
<td>3.6 (65.5%)</td>
</tr>
<tr>
<td>Thailand</td>
<td>34.9</td>
<td>79.9</td>
<td>9.7 (0.75GB)</td>
<td>0.91</td>
<td>38 (56.5%)</td>
</tr>
<tr>
<td>Vietnam</td>
<td>48.3</td>
<td>31.0</td>
<td>5.7 (1.5GB)</td>
<td>1.38</td>
<td>35 (37.8%)</td>
</tr>
</tbody>
</table>

ICT Infrastructure Quality

![Graph showing ICT infrastructure quality for various countries including Brunei, Cambodia, Indonesia, Malaysia, Myanmar, Philippines, Singapore, Thailand, Vietnam, Lao PDR, and Myanmar. The graph compares Internet Users, Broadband Subscription, Inverse Price, Broadband Speed, and Facebook Users.](Image)
Infrastructure Quality in ASEAN Countries

Notes: Index 1 (extremely underdeveloped) to 7 (extensive and efficient) for the Quality of Roads, Railroad, Port and Air Transport Infrastructure. Index 1 (extremely unreliable) to 7 (extremely reliable) for the Quality of Electricity Supply.

Data for Brunei is not available; Railroad infrastructure data is not available for Laos.
Payment Mechanisms

Percentage of adult population with bank account (age 15+), 2014

<table>
<thead>
<tr>
<th>Country</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Singapore</td>
<td>96%</td>
</tr>
<tr>
<td>Thailand</td>
<td>78%</td>
</tr>
<tr>
<td>Malaysia</td>
<td>81%</td>
</tr>
<tr>
<td>Philippines</td>
<td>31%</td>
</tr>
<tr>
<td>Vietnam</td>
<td>31%</td>
</tr>
<tr>
<td>Indonesia</td>
<td>36%</td>
</tr>
</tbody>
</table>

Source: Global Findex, World Bank

Online shoppers using online payments, 2013

<table>
<thead>
<tr>
<th>Country</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Singapore</td>
<td>50%</td>
</tr>
<tr>
<td>Thailand</td>
<td>11%</td>
</tr>
<tr>
<td>Malaysia</td>
<td>5%</td>
</tr>
<tr>
<td>Indonesia</td>
<td>4%</td>
</tr>
<tr>
<td>Philippines</td>
<td>3%</td>
</tr>
<tr>
<td>Vietnam</td>
<td>2%</td>
</tr>
</tbody>
</table>

Source: AT Kearney
# Regulation & Policy: E-Commerce Law

## Table 1. Status of e-commerce law harmonization in ASEAN as of March 2013

<table>
<thead>
<tr>
<th>Member Country</th>
<th>Electronic Transactions</th>
<th>Privacy</th>
<th>Cybercrime</th>
<th>Consumer Protection</th>
<th>Content Regulation</th>
<th>Domain Names</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brunei Darussalam</td>
<td>Enacted</td>
<td>None</td>
<td>Enacted</td>
<td>Partial</td>
<td>Enacted</td>
<td>Enacted</td>
</tr>
<tr>
<td>Cambodia</td>
<td>Draft</td>
<td>None</td>
<td>Draft</td>
<td>None</td>
<td>Draft</td>
<td>Enacted</td>
</tr>
<tr>
<td>Indonesia</td>
<td>Enacted</td>
<td>Partial</td>
<td>Enacted</td>
<td>Partial</td>
<td>Enacted</td>
<td>Enacted</td>
</tr>
<tr>
<td>Lao People’s Democratic Republic</td>
<td>Enacted</td>
<td>None</td>
<td>None</td>
<td>Draft</td>
<td>Enacted</td>
<td>Partial</td>
</tr>
<tr>
<td>Malaysia</td>
<td>Enacted</td>
<td>Enacted</td>
<td>Enacted</td>
<td>Enacted</td>
<td>Enacted</td>
<td>Enacted</td>
</tr>
<tr>
<td>Myanmar</td>
<td>Enacted</td>
<td>None</td>
<td>Enacted</td>
<td>Enacted</td>
<td>None</td>
<td>Enacted</td>
</tr>
<tr>
<td>Philippines</td>
<td>Enacted</td>
<td>Enacted</td>
<td>Enacted</td>
<td>Enacted</td>
<td>None</td>
<td>Enacted</td>
</tr>
<tr>
<td>Singapore</td>
<td>Enacted</td>
<td>Enacted</td>
<td>Enacted</td>
<td>Enacted</td>
<td>Enacted</td>
<td>Enacted</td>
</tr>
<tr>
<td>Thailand</td>
<td>Enacted</td>
<td>Partial</td>
<td>Enacted</td>
<td>Partial</td>
<td>Partial</td>
<td>Partial</td>
</tr>
<tr>
<td>Viet Nam</td>
<td>Enacted</td>
<td>Partial</td>
<td>Enacted</td>
<td>Enacted</td>
<td>Enacted</td>
<td>Enacted</td>
</tr>
</tbody>
</table>

Source: UNCTAD
Cross-Border Regulations

• Inconsistent and time-consuming custom procedures
  – The total customs value of a $100 dress purchased from another ASEAN country

Source: http://unctad.org/meetings/en/Presentation/CII_EM5_P_BYuwono_en.pdf
ASEAN Economic Integration and E-Commerce
Framework for E-Commerce and ASEAN Economic Integration

• What role does e-commerce play in ASEAN economic integration?

• Trade:
  – Intra-ASEAN Trade (cross-border trade)
  – Inter-ASEAN Trade (global production networks)

• Competitiveness:
  – Productivity
  – Market Access & Share

Situating E-Commerce Within ASEAN / AEC

• Develop ICT Industry and services
• Policy and legal infrastructure for e-commerce
• Facilitate cross-border transactions
Situating E-Commerce Within ASEAN / AEC

- **e-ASEAN Framework Agreement**
  - Signed by ASEAN Leaders in Nov 2000

- **Six Focus Areas:**
  - Establishment of ASEAN Information Infrastructure (AII)
  - Growth of electronic commerce
  - Liberalisation of trade in ICT products and services and of investments
  - Facilitation of trade in ICT products and services
  - Capacity building and e-Society
  - e-Government

Areas of coverage under electronic commerce – led by Singapore (co-partners Malaysia & Brunei)

| a. e-Commerce Legal Framework | e-Commerce legislation on electronic transactions and electronic signatures |
| b. Consumer Protection | Online alternative dispute resolution |
| | Privacy and personal data protection |
| c. Regional Electronic Payments System | |
| d. Intellectual Property Rights | |
| e. Cybercrime legislation and prevention | |
| f. Developing authentication and security policies | Mutual recognition of digital signature framework |
| | Security policy |
| g. Taxation Issues | |
Situationg E-Commerce Within ASEAN / AEC

• AEC 2015 Blueprint – Competitive Economic Region
  – E-Commerce - To lay the policy and legal infrastructure for electronic commerce and enable on-line trade in goods (e-commerce) within ASEAN through the implementation of the e-ASEAN Framework Agreement and based on common reference frameworks
### AEC 2015: E-Commerce and Implementation

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Member countries to enact their e-commerce laws</td>
<td>Update and/or amend relevant legislations in line with regional best practices and regulations in e-commerce activities</td>
<td>A harmonised legal infrastructure for e-commerce fully in place in ASEAN</td>
<td></td>
</tr>
<tr>
<td>Implement harmonised guidelines and principles for electronic contracting and online dispute resolution services</td>
<td>Adopt the best practices/ guidelines on other cyber-law issues to support the regional e-commerce activities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adopt regional framework and strategy for mutual recognition of digital signatures</td>
<td>Advancing cross-border electronic transactions, through pilot implementation of mutual recognition of foreign digital signatures</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Continued capacity building and information sharing for member countries on e-commerce legal infrastructure activities (e.g. Public Key Infrastructure, institutional strengthening for Certification Authority, etc)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
AEC 2015: E-Commerce and Implementation

- **AEC Scorecards**

<table>
<thead>
<tr>
<th>Phase I (2008-09)</th>
<th>Phase II (2010-11)</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-Commerce</td>
<td></td>
</tr>
<tr>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>-</td>
<td>0</td>
</tr>
</tbody>
</table>

- **ASEAN Integration Report 2015**
  - states in page 59 that ‘The elements of taxation and electronic commerce are beyond the scope of this analysis’.

- **Other Sources (Deloitte-US-ASEAN Business Council/ UNDP 2013)**

  Status of e-commerce legislation in ASEAN
  (Percentages indicate the status of legislation in 10 member states)

<table>
<thead>
<tr>
<th></th>
<th>Electronic transaction</th>
<th>Privacy</th>
<th>Cybercrime</th>
<th>Consumer Protection</th>
<th>Content regulation</th>
<th>Domain names</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enacted</td>
<td>90%</td>
<td>30%</td>
<td>80%</td>
<td>60%</td>
<td>70%</td>
<td>80%</td>
</tr>
<tr>
<td>Partial</td>
<td>10%</td>
<td>30%</td>
<td>10%</td>
<td>30%</td>
<td>20%</td>
<td>20%</td>
</tr>
<tr>
<td>None</td>
<td>40%</td>
<td>10%</td>
<td>10%</td>
<td>10%</td>
<td>10%</td>
<td></td>
</tr>
</tbody>
</table>

- Some progress has been made, at least in the rule books. Least progress has been made in putting in place legislation and regulation to protect data privacy and consumer protection
ASEAN Economic Integration, 2025

• The AEC Blueprint 2025 will build on the AEC Blueprint 2015

• 5 interrelated characteristics
  – A Highly Integrated and Cohesive Economy
  – A Competitive, Innovative, and Dynamic ASEAN
  – Enhanced Connectivity and Sectoral Cooperation
  – A Resilient, Inclusive, People-Oriented, and People-Centred ASEAN
  – A Global ASEAN
Situating E-Commerce Within ASEAN / AEC

- AEC 2025 Blueprint - Enhanced Connectivity and Sectoral Cooperation
  - E-Commerce - ASEAN shall intensify cooperation on e-Commerce building upon Article 5 of e-ASEAN Framework Agreement adopted by ASEAN Leaders in November 2000, with a view to develop an ASEAN Agreement on e-Commerce to facilitate cross-border e-Commerce transactions in ASEAN.
## AEC 2025 – Consolidated Strategic Action Plan

<table>
<thead>
<tr>
<th>Strategic Measures</th>
<th>Key Action Lines</th>
<th>Timeline</th>
<th>Sectoral Work Plan and Sectoral Body</th>
</tr>
</thead>
</table>
| Harmonised consumer rights & protection laws | Integrate e-commerce considerations into the ASEAN High-level Consumer Protection Principles  
Develop guidelines/code of good on-line business practice based on self-regulation best practices  
| Harmonised legal framework for online dispute resolution, taking into account available international standards | Establish Alternative Dispute Resolution (ADR) mechanisms, including online dispute resolution systems, to facilitate the resolution of claims over e-commerce transactions | 2016-2025 |                                    |
| Inter-operable, mutually recognised, secure, reliable and user-friendly e-identification and authorisation (electronic signature) schemes | Study suitable mechanisms for authentication of electronic signatures and trade documents, based on internationally recognised practices  
Establish an international coordination mechanism amongst cyber security agencies in responding to cyber security incidents | 2016-2025 |                                    |
| Coherent and comprehensive framework for personal data protection | Develop Regional Data Protection and Privacy Principles (Rules System)  
Identify the responsibilities of businesses in personal data protection | 2016-2025 |                                    |
Situating E-Commerce Within ASEAN / AEC

• ASEAN ICT Masterplan 2015
  • 3 pillars – Economic transformation to promote trade and investment in the ICT sector; People Empowerment to enhance quality of life through ICT; Innovation to nurture and innovate a green ICT sector
  • These 3 will be delivered on basis of 3 foundations – Infrastructure development, Human Capital Development and Bridging the Digital Divide

• ASEAN ICT Masterplan 2020
  • 8 strategic areas
  • Economic Development and Transformation- includes action line like promote digital trade in ASEAN that targets e-commerce and digital service delivery in ASEAN
Situating E-Commerce Within ASEAN / AEC

• Collaboration with other regions/bodies
  – ASEAN-CER
    • Covers transparency, domestic regulatory framework in line with UNCITRAL Model Law on Electronic Commerce 1996, electronic authentication and digital certificate, consumer protection, data protection, paperless trading and cooperation on e-commerce (assisting SME, encourage information flow).
  – RCEP (under negotiation)
Challenges
Challenges with E-Commerce Policy Making at ASEAN level

• Different e-commerce framework at national level (e.g. payment system, consumer protection)
• Multiple agencies deal with the policy issue – trade, ICT, finance, consumer protection, customs and others
• Cross-border bigger challenge with domestic tax system, customs, logistics
• Lack of human resource
Thank You