

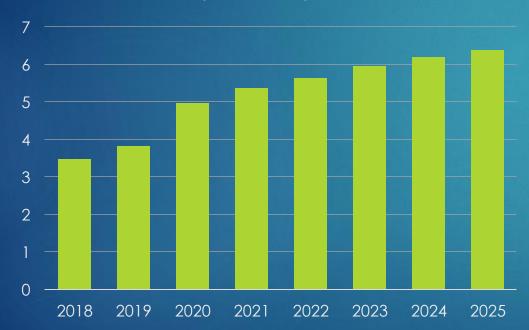
## **E-COMMERCE EVOLUTION**Opportunities and Challenges

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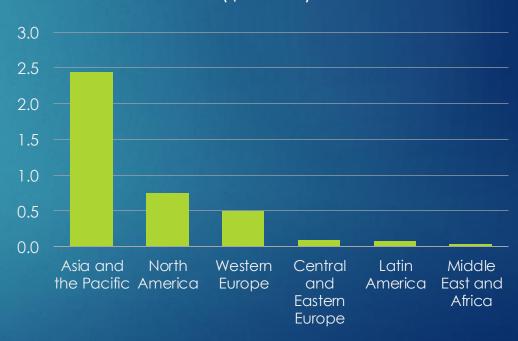
# Global e-commerce sales continue to grow, led by Asian economies

### Global Retail E-commerce Sales (% of GDP)



Source: Statista and IIMF World Economic Outlook Database.

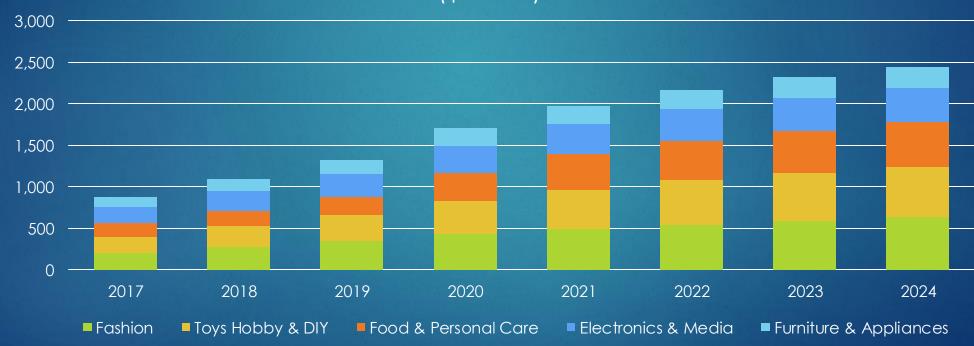
Global E-commerce Sales 2020 Estimate (\$ trillion)



Source: eMarketer. Global Ecommerce 2020.

# Food & personal care is the fastest growing e-commerce market in Asia

### E-commerce Revenues in Asia and the Pacific, by Segment (\$ billion)

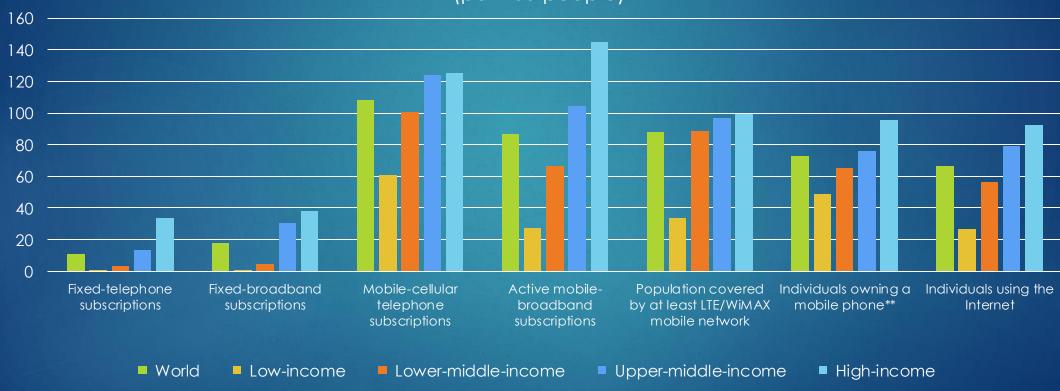


Source: Statista. 2021. E-commerce in the Asia-Pacific Region.

## Accessibility of internet

#### Key ICT Indicators by Income Group, 2022

(per 100 people)

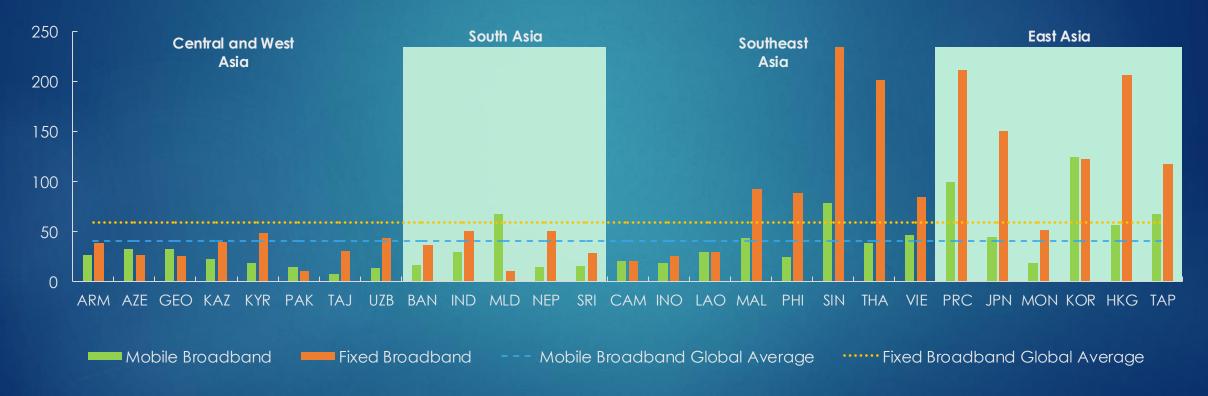


Notes: List of developed and developing countries is based on United Nations M-49 Standard. Source: International Telecommunication Union. ITU World Telecommunication ICT Indicators database.

## Broadband speed

#### Mobile and Fixed Broadband Speed, January 2023

(megabits per second, based on download speed)



ARM = Armenia; AZE = Azerbaijan; GEO = Georgia; KAZ = Kazakhstan; KGZ = Kyrgyz Republic; PAK = Pakistan; TAJ = Tajikistan; BAN = Bangladesh; IND = India; MLD = Maldives; NEP = Nepal; SRI = Sri Lanka; CAM = Cambodia; INO = Indonesia; LAO = Lao People's Democratic Republic; MAL = Malaysia; PHI = Philippines; SIN = Singapore; THA = Thailand; VIE = Viet Nam; PRC = People's Republic of China; JPN = Japan; MON = Mongolia; KOR = Republic of Korea; HKG = Hong Kong, China; TAP = Taipei, China.
Source: Speedtest. Speedtest Global Index January 2023.

## Reliability of e-payment options

#### Share of Payment Methods in E-commerce Transactions by Region

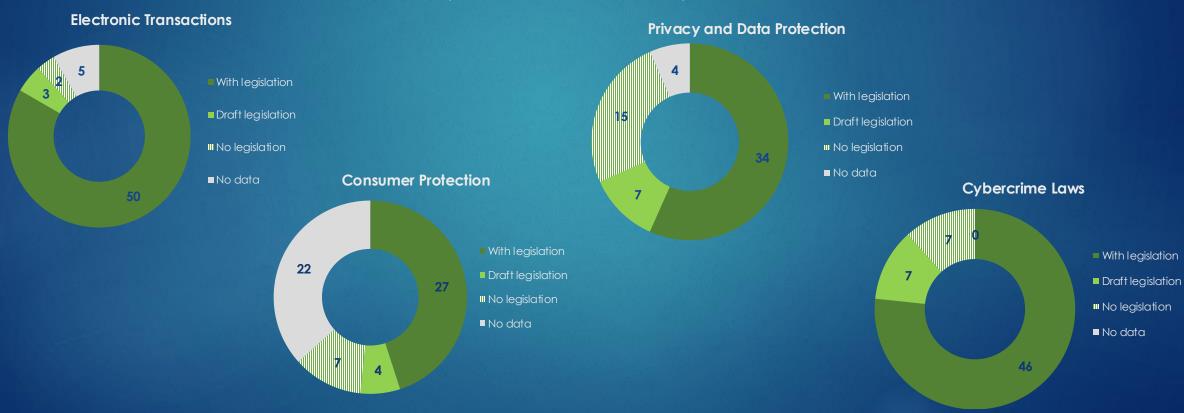
(% of transaction volume)

	Worldwide	North America	Latin America	Europe, and Middle East and Africa	Asia and the Pacific
Digital/mobile wallet	41.8	23.7	13.8	24.6	58.4
Credit card	24.2	34.4	43.8	19.7	20.1
Debit card	10.6	17.6	11.9	18.2	4.2
Bank transfer	9.0	5.9	10.9	16.3	7.6
Charge & deferred debit card	5.0	10.5	3.5	6.7	1.3
Cash on delivery	4.5	3.2	5.8	4.7	5.1
Buy now pay later	1.6	0.9	0.0	5.8	0.3
PostPay	1.3	1.0	7.9	0.0	1.6
Pre-paid card	1.0	0.9	1.3	1.3	1.0
PrePay	0.6	0.9	0.6	1.3	0.3
Other	0.6	1.0	0.6	1.5	0.1

Source: WorldPay Global Payments Report 2020.

# Appropriate legislative and regulatory mechanism

Status of E-Commerce Legislation—Asia and the Pacific, September 2022 (number of economies)



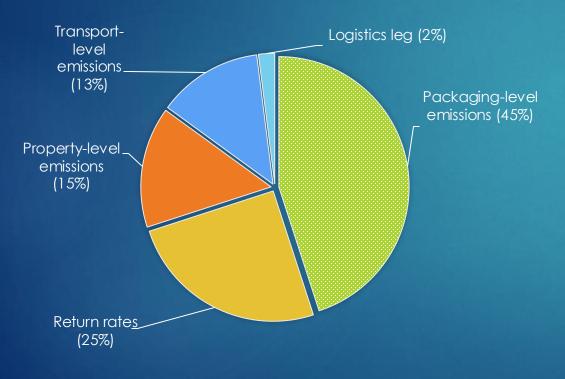
Source: United Nations Conference on Trade and Development. Summary of Adoption of E-Commerce Legislation Worldwide.

# Widening digital divide: Vulnerable groups

- Least developed countries
- Micro, small, and medium-sized enterprises (MSMEs)
- Women
- Rural markets
- Digital discrimination

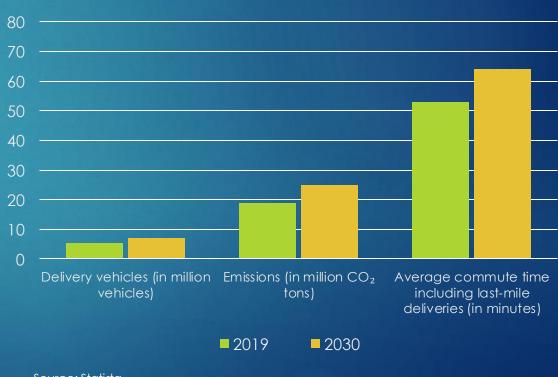
# E-commerce is expected to emit significant amounts of GHG emissions

### Breakdown of Estimated E-commerce Greenhouse Gas Emissions, by Source (as of 2020)



#### Source: Statista.

### Environmental Impact of E-commerce Logistics Worldwide, by Indicator



Source: Statista.

# Possible solutions to bring down carbon emissions in e-commerce

- Alternative delivery systems
- Sustainable delivery transport
- Common warehouse management
- Recycling and sustainable packaging
- Incentives for environment-friendly packaging
- Volume-rate garbage disposal and separate collection of packaging wastes

## PRC is the largest e-commerce market and growing fast

- Revenue to reach US\$1,469bn in 2024 with an annual growth rate (CAGR 2024-2029) of 9.95% between 2024-2029 (Statista)
- User penetration is forecast to be 78.8% in 2024 and 97.4% by 2029
- Major players: Alibaba's Taobao and Tmall, JD.com, Pinduoduo, etc.
- Cross-border B2C e-commerce could reach US\$500 billion in 2025 (HSBC)
- Major overseas players: Pinduoduo, Alibaba, Shein, Tiktok (live streaming)

## Thank You!

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