## e-Conomy SEA 2019

Swipe up and to the right: Southeast Asia's \$100 billion Internet economy

Google



#### Reference

e-Conomy SEA is a multi-year research program launched by Google and Temasek in 2016. Bain & Company joined the program as lead research partner in 2019. The research leverages Google Trends, Temasek research, Bain analysis, industry sources and expert interviews to shed light on the Internet economy in Southeast Asia. The information included in this report is sourced as "Google & Temasek / Bain, e-Conomy SEA 2019" except from third parties specified otherwise.

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Introducing e-Conomy SEA 2019

## 4<sup>th</sup> edition of e-Conomy SEA by Google, Temasek, Bain Southeast Asia's Internet economy research program



e-Conomy SEA 2015-2025

"Unlocking the \$200B digital opportunity in Southeast Asia"

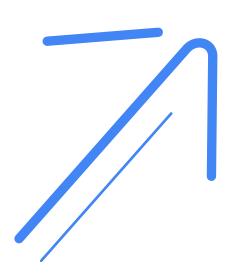
e-Conomy SEA Spotlight

"Unprecedented growth for Southeast Asia's \$50B Internet economy" e-Conomy SEA 2018

"Southeast Asia's Internet economy hits an inflection point" e-Conomy SEA 2019

"Swipe up and to the right: Southeast Asia's \$100B Internet economy"

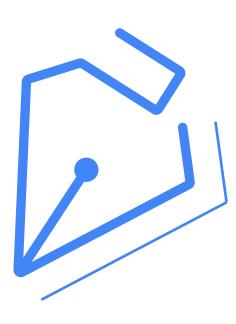
#### e-Conomy SEA research methodology







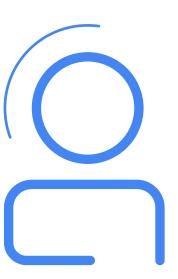
**Temasek** Research



Bain **Analysis** 



Industry Sources



**Expert** Interviews



In partnership with









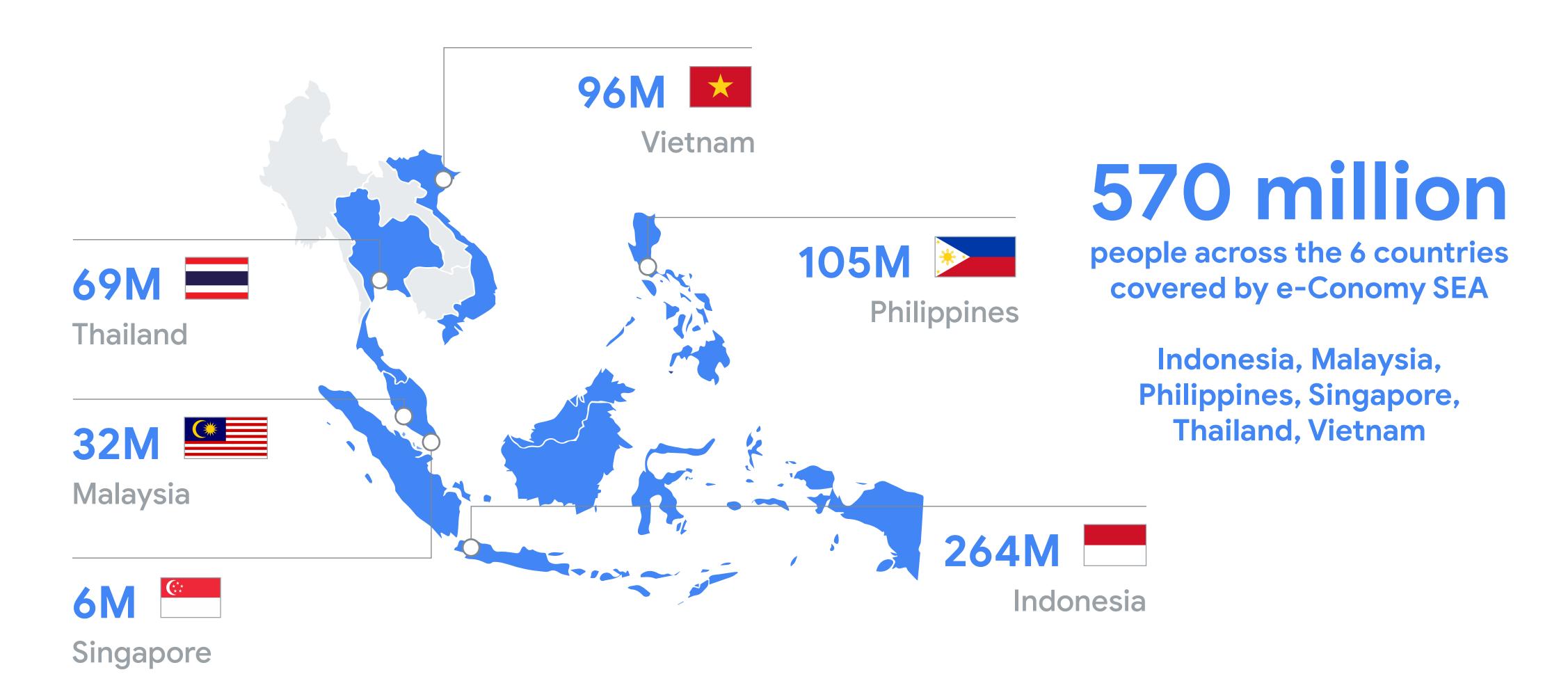








#### e-Conomy SEA covers 6 countries in Southeast Asia



### 5 sectors of the Internet economy covered Financial Services included amidst increasing adoption

e-Commerce

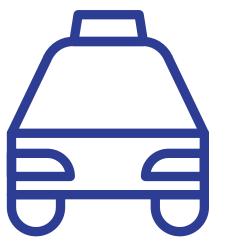
Media

**Ride Hailing** 

**Travel** 

**Financial Services** 









Marketplaces (SMB2C) Malls (B2C) "Brand.Com" Advertising
Gaming
Video on Demand
Music on Demand

Transport Food Delivery

Flights
Hotels
Vacation Rentals

Payments
Remittance
Lending
Investing
Insurance

## Other sectors of the Internet economy not covered due to lack of reliable data or still nascent adoption

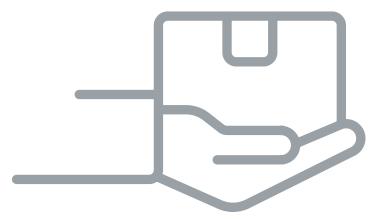
Lack of reliable data

Still nascent adoption

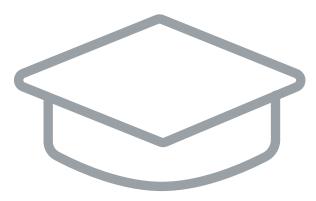
**Social Commerce** 



Education



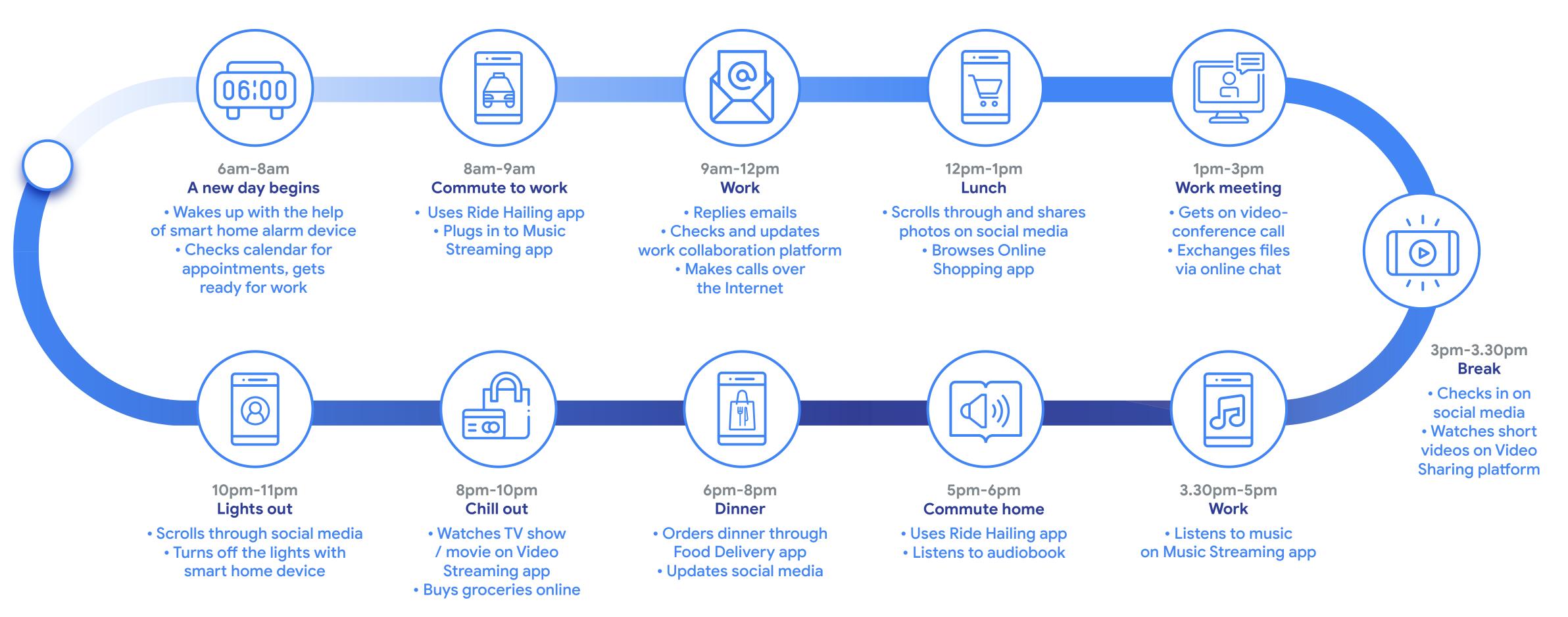






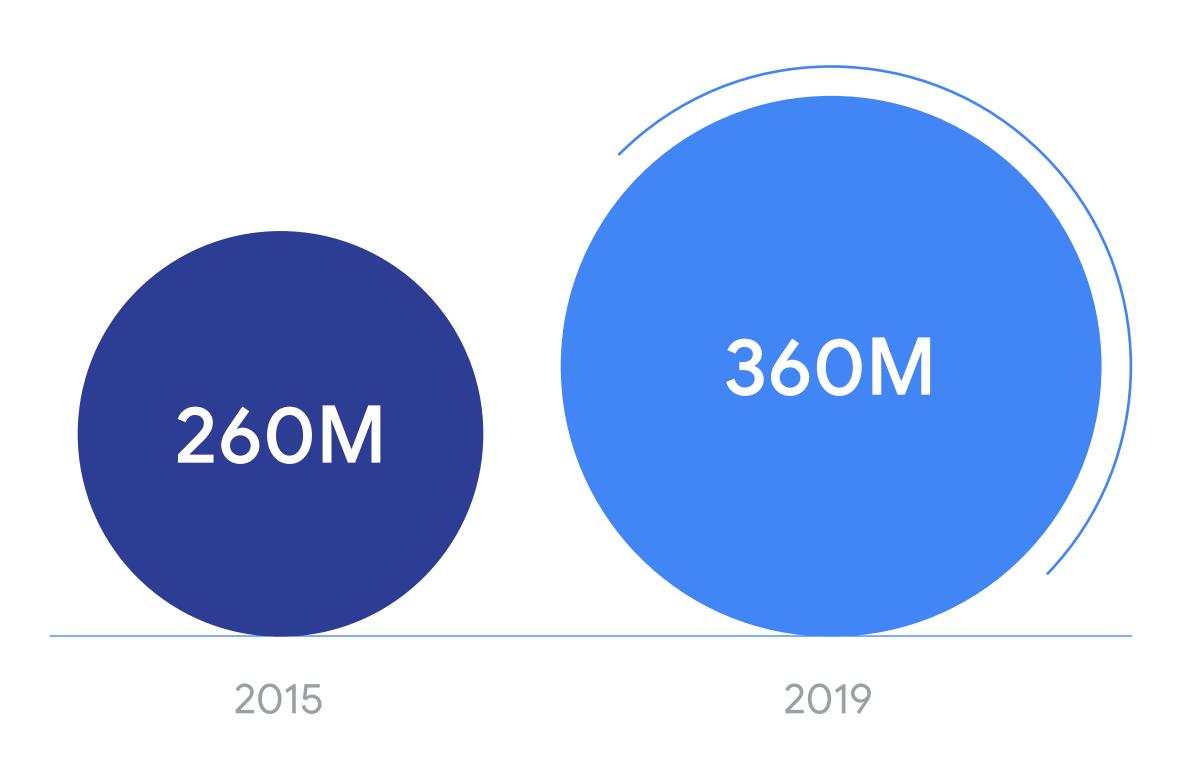
## Mobile Internet transforming lives of Southeast Asians: unprecedented access to people, information, services

"A day in the life" of a Southeast Asian mobile Internet user



## There are 360 million Internet users in Southeast Asia, the most engaged mobile Internet region in the world

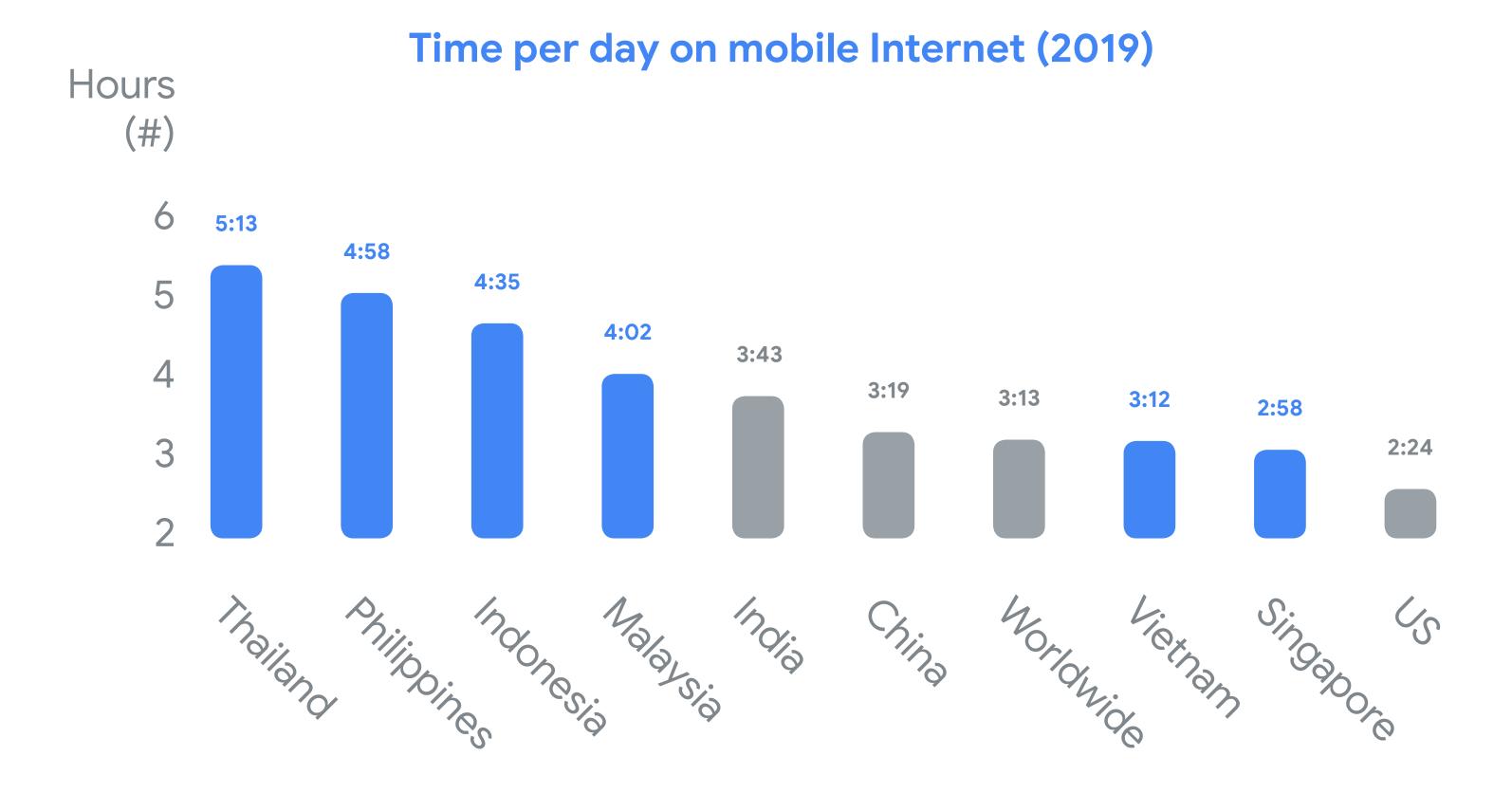
#### **Southeast Asia Internet users**



100 million more Internet users in the last 4 years

The most engaged mobile Internet region in the world<sup>1</sup>

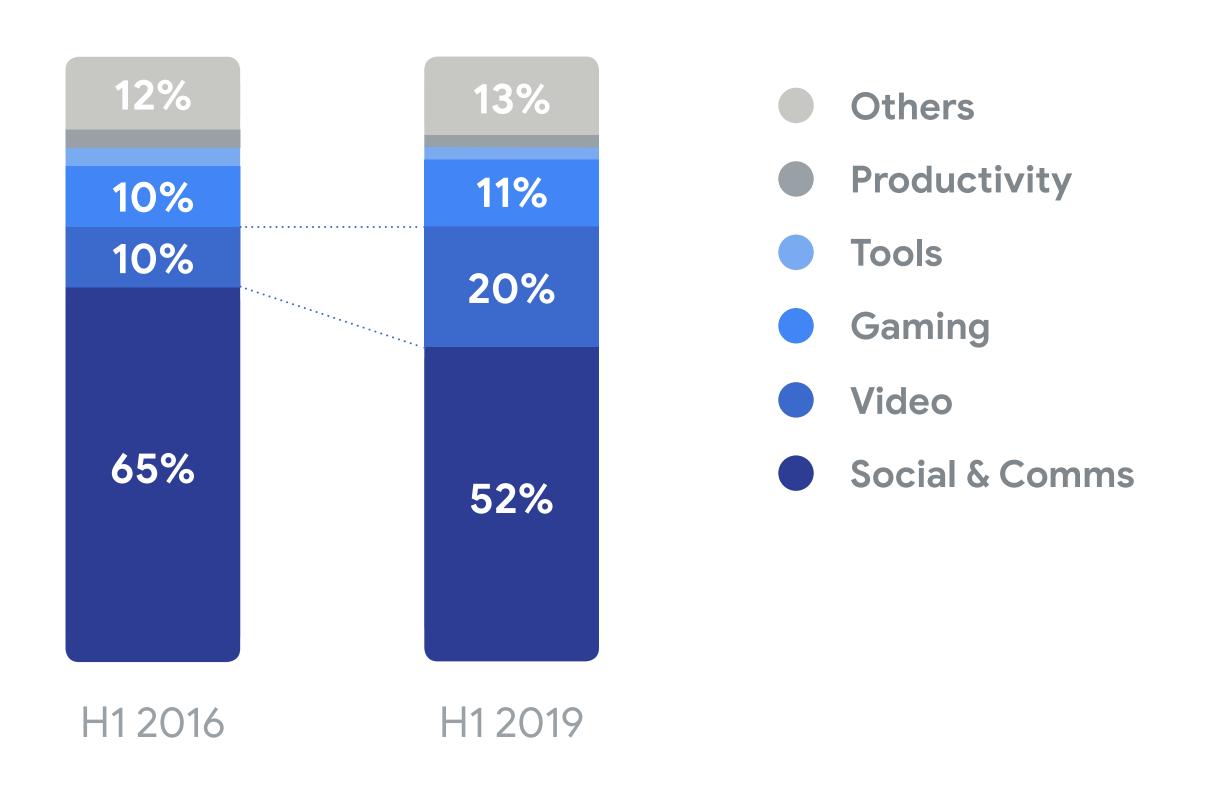
### The most engaged mobile Internet region in the world



4 Southeast Asian countries rank in the Top 10 globally by mobile Internet usage (Indonesia, Malaysia, Philippines, Thailand)

#### Video apps gaining share of mobile Internet engagement

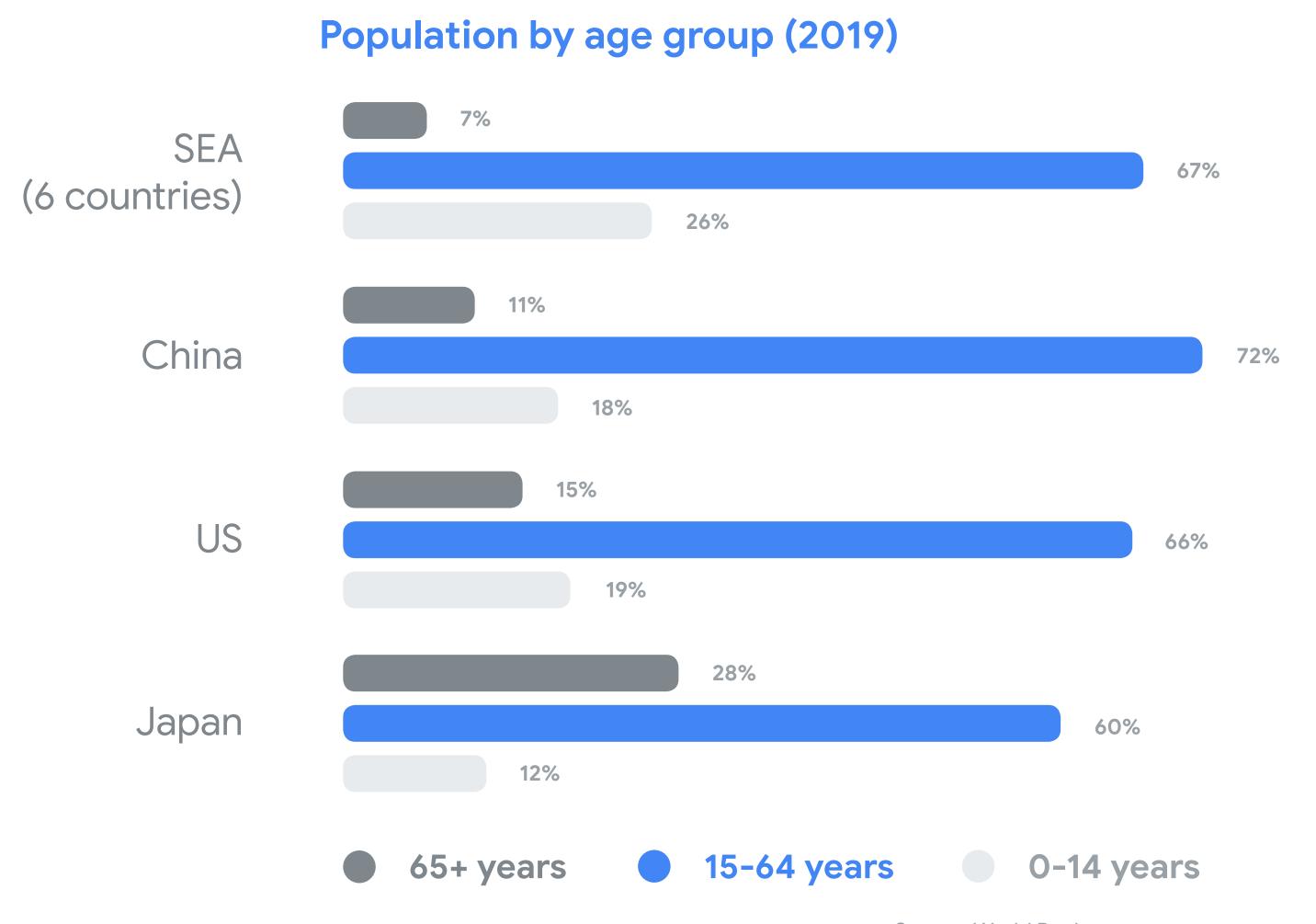
#### Share of time spent (Apps by category, %)



Social & Comms remain the most engaged apps despite share-of-time decline

**Engagement on Video apps** has doubled in 3 years with live streaming and short form

#### Favorable demographics behind Internet growth

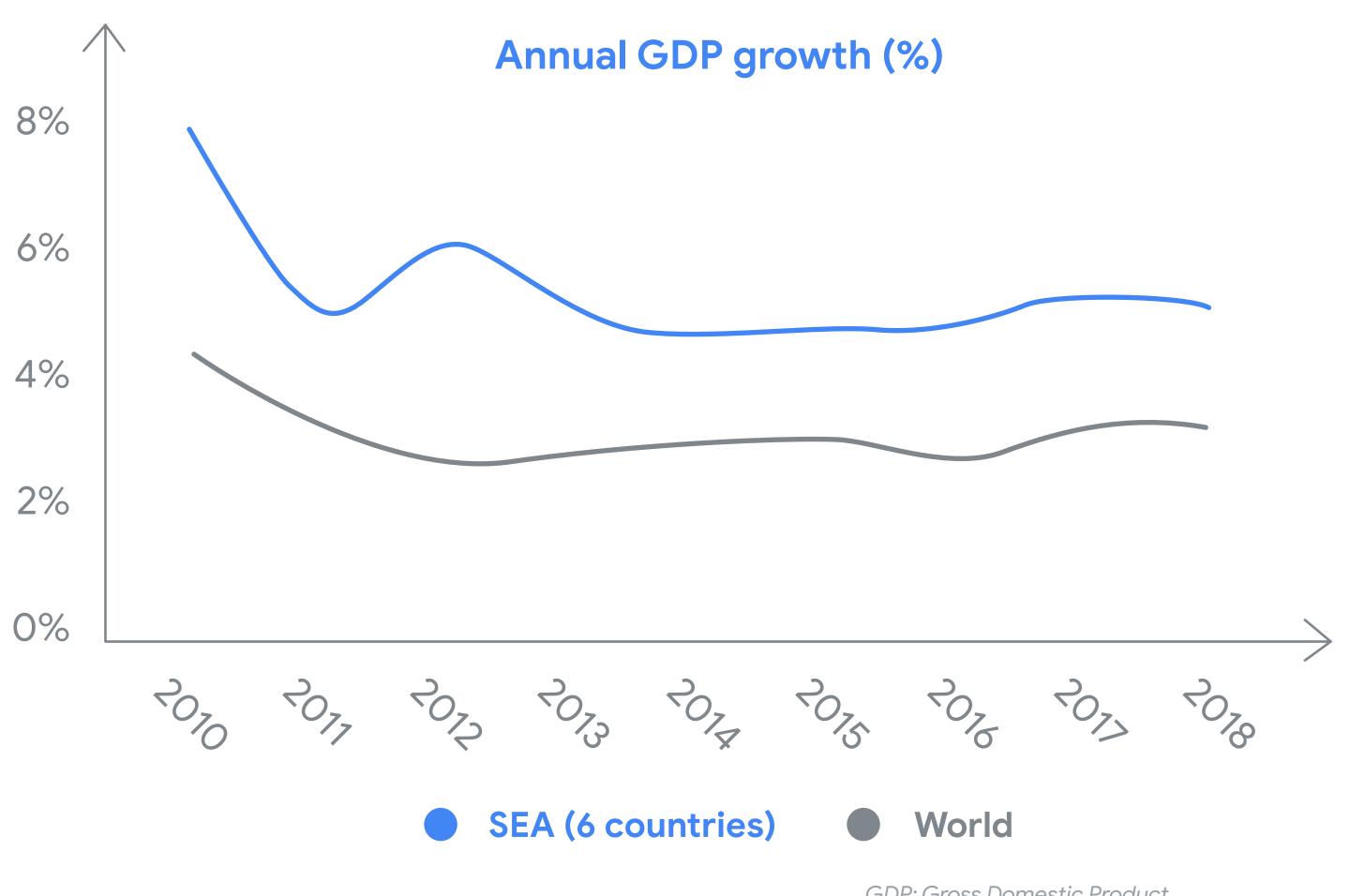


Southeast Asia has one of the youngest populations among major world regions

10 million Southeast Asians enter the "mobile age" every year

Source: World Bank

## Steady economic growth uplifting living standards

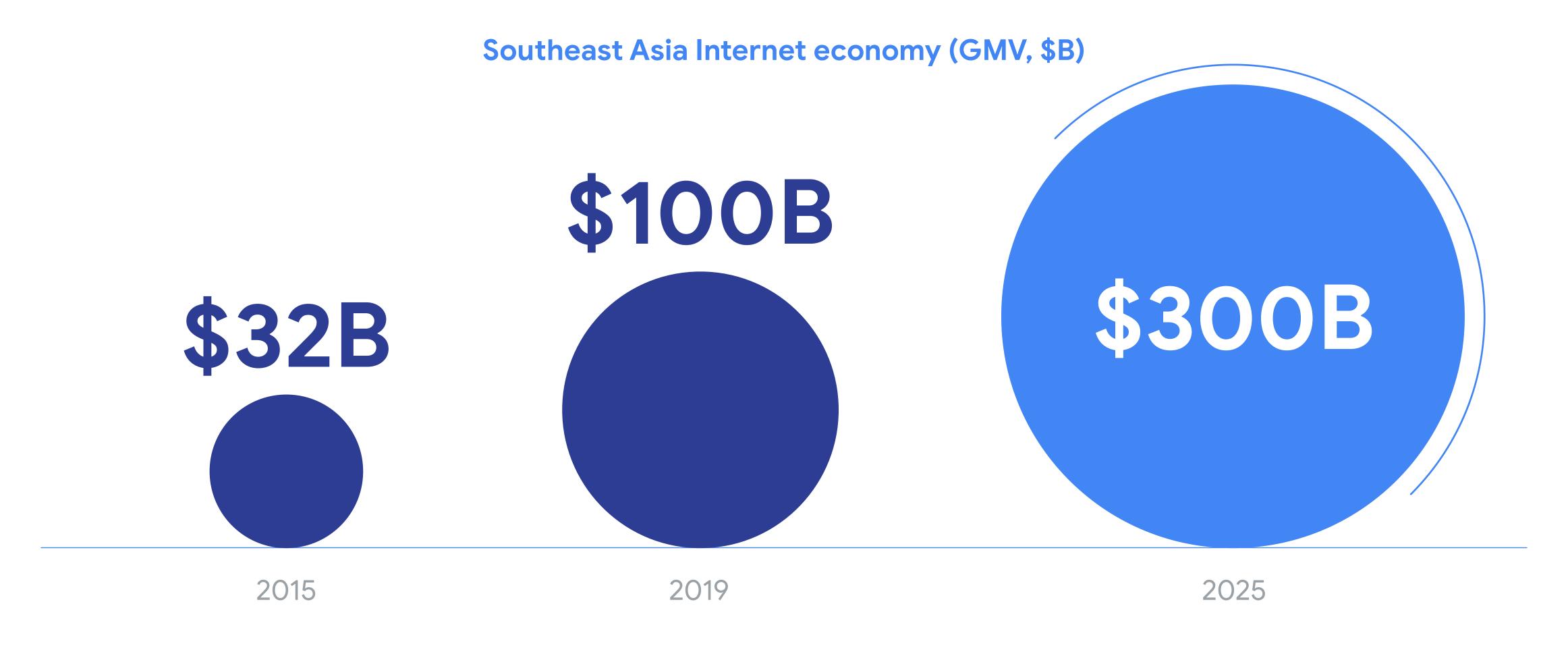


Southeast Asia has had higher GDP growth compared with the global economy by ~2 percentage points since 2010

GDP: Gross Domestic Product Source: World Bank The Internet economy hits \$100 billion

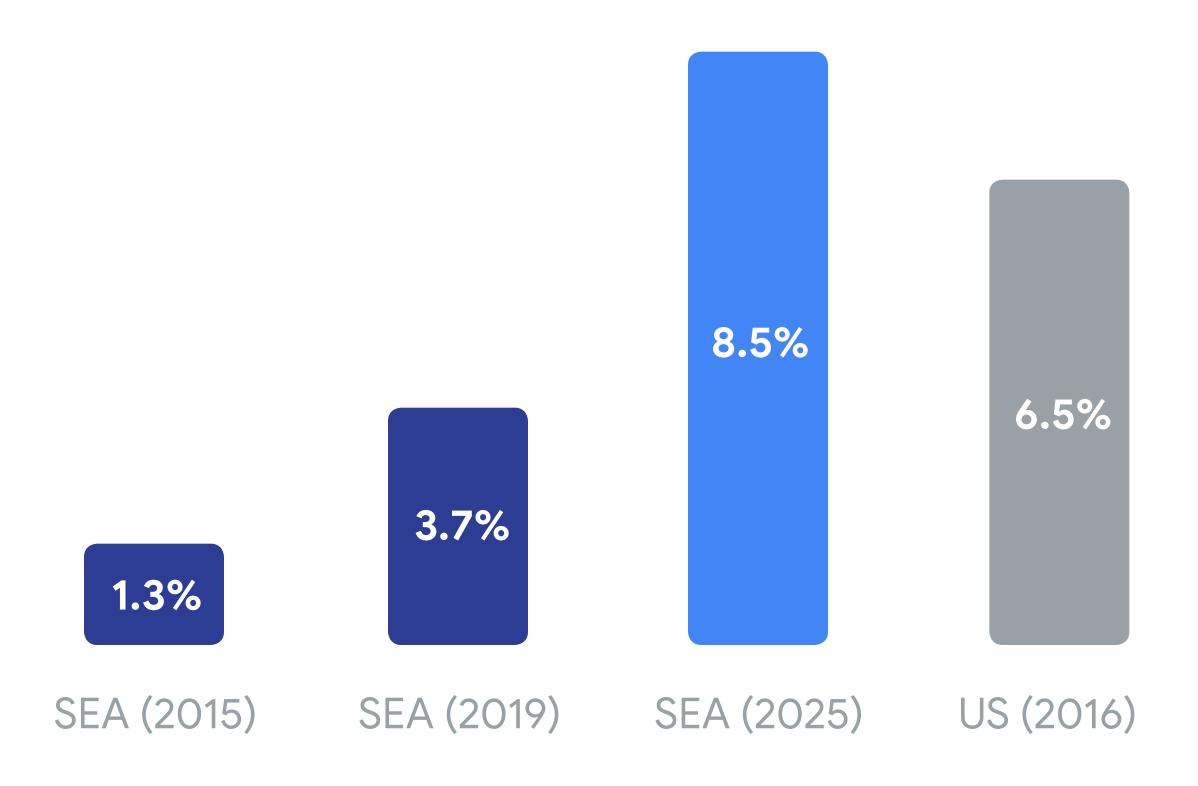


# Southeast Asia Internet economy hits \$100B in 2019, exceeding all expectations on track to \$300B by 2025



### Southeast Asia is closing the gap with developed markets





GMV: Gross Merchandise Value; GDP: Gross Domestic Value Source: World Bank (GDP); US Bureau of Economic Analysis (US)

#### 1 in 2 Internet users engage in the Internet economy

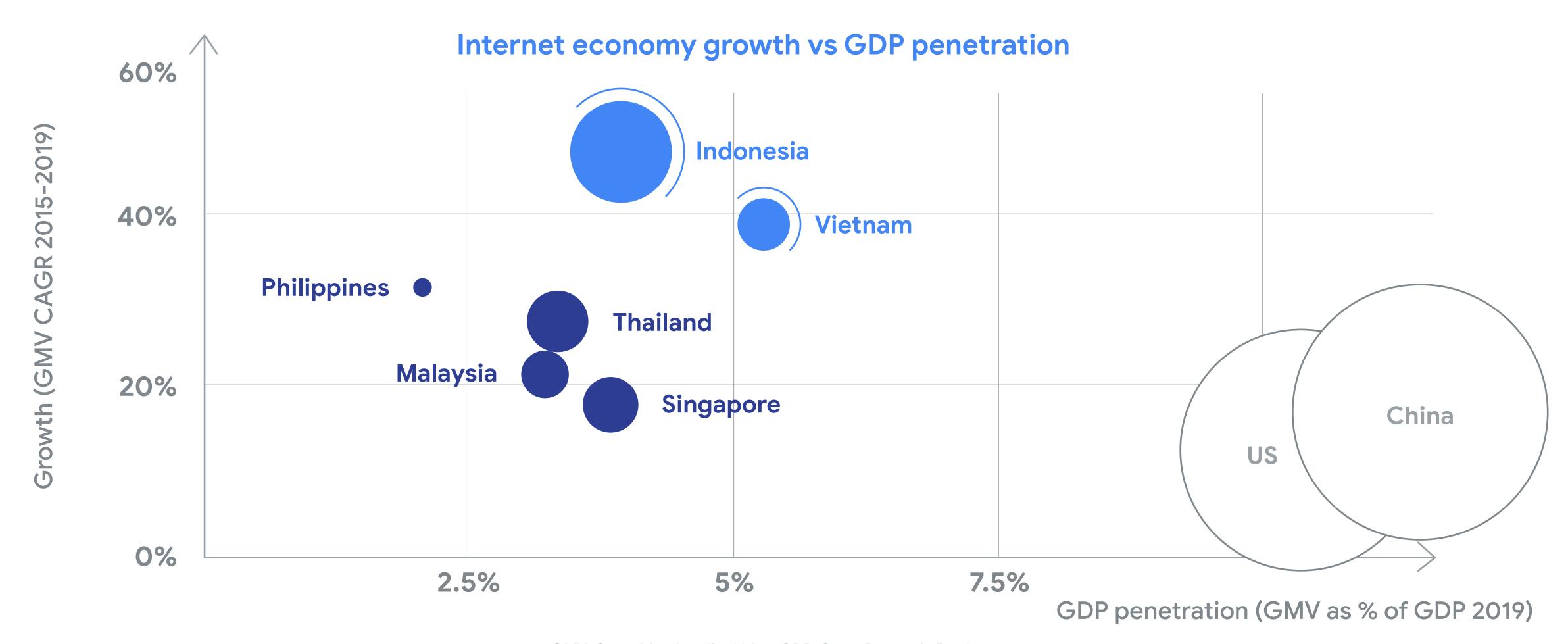
360 million Internet users

180M 180M Internet users Internet users not yet using using services of the services of the Internet economy Internet economy

Fast and faster two-speed Southeast Asia

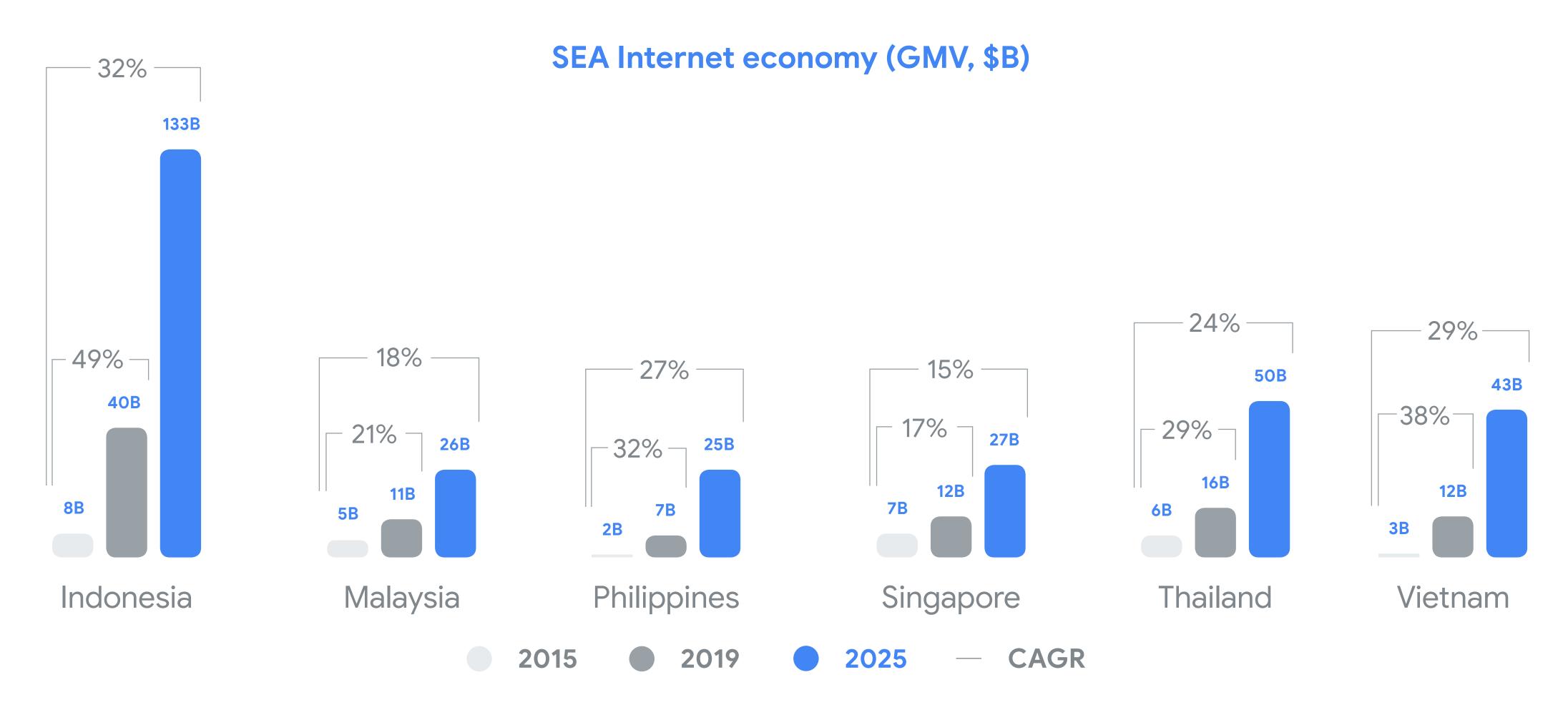


## Among fast-growing Southeast Asian countries, Indonesia and Vietnam pull away from the pack

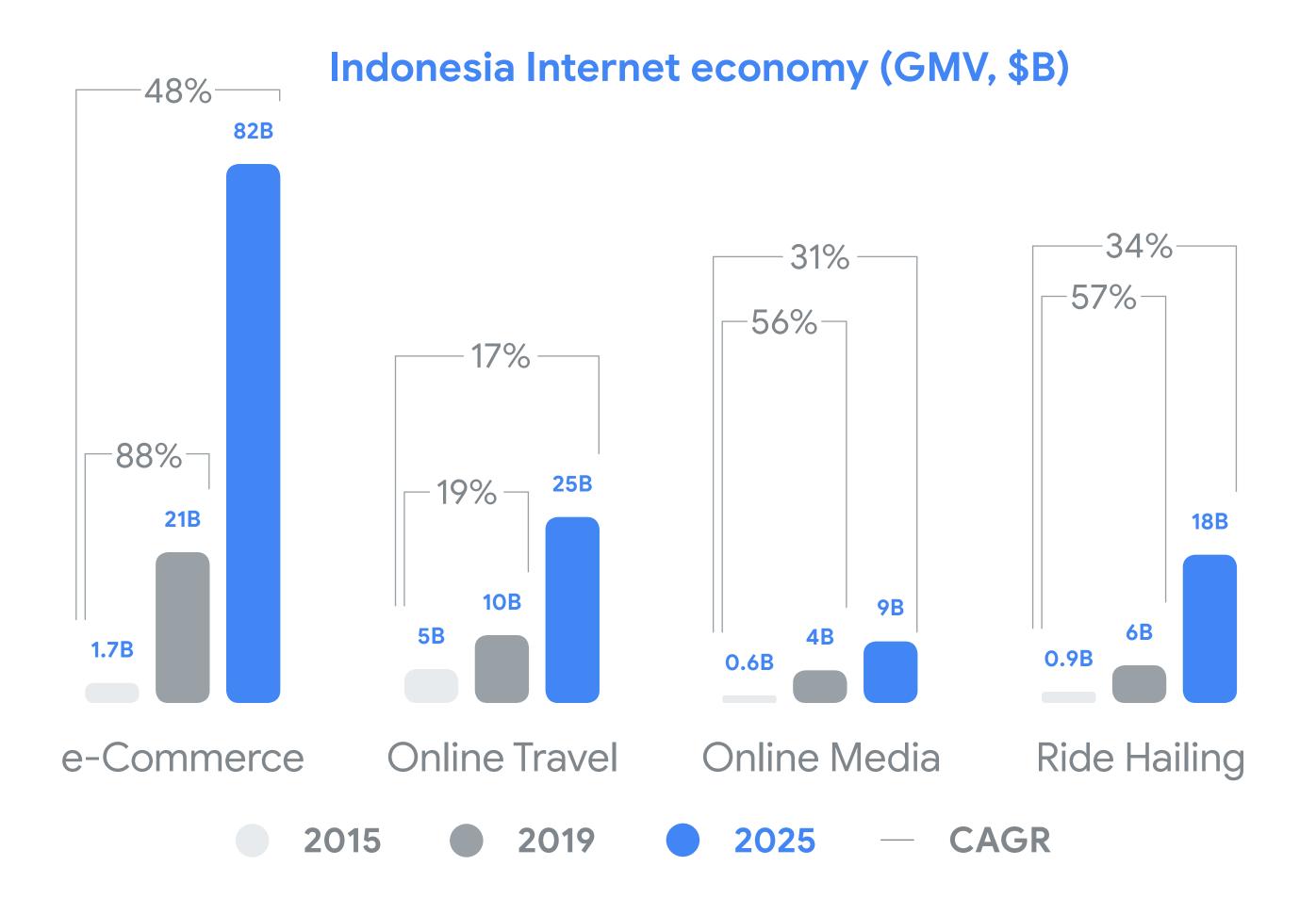


GMV: Gross Merchandise Value; GDP: Gross Domestic Product
US and China are included for illustrative purposes and not drawn to scale as definitions of Internet economy sectors and metrics vary

## Indonesia is the largest and fastest growing Internet economy in the region at \$40B @ 49% CAGR



## Indonesia is firing on all cylinders, fueled by competition between local and regional players

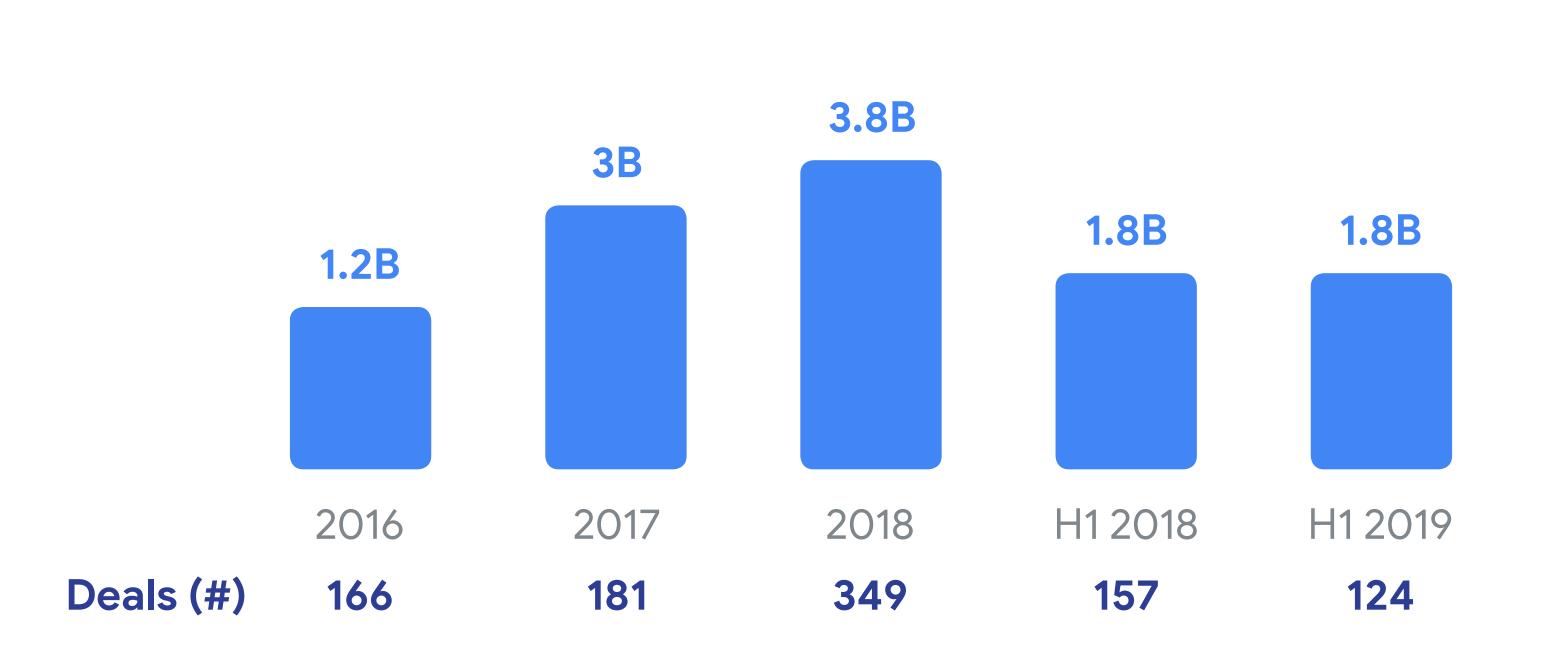


e-Commerce (12x in 4 years) and Ride Hailing (6x in 4 years) fueled by competition between Indonesian and regional players

All sectors benefit from growing adoption of Digital Payments

#### Funding in Indonesia is on track to match 2018 record

Funding in Indonesia Internet economy (\$B)



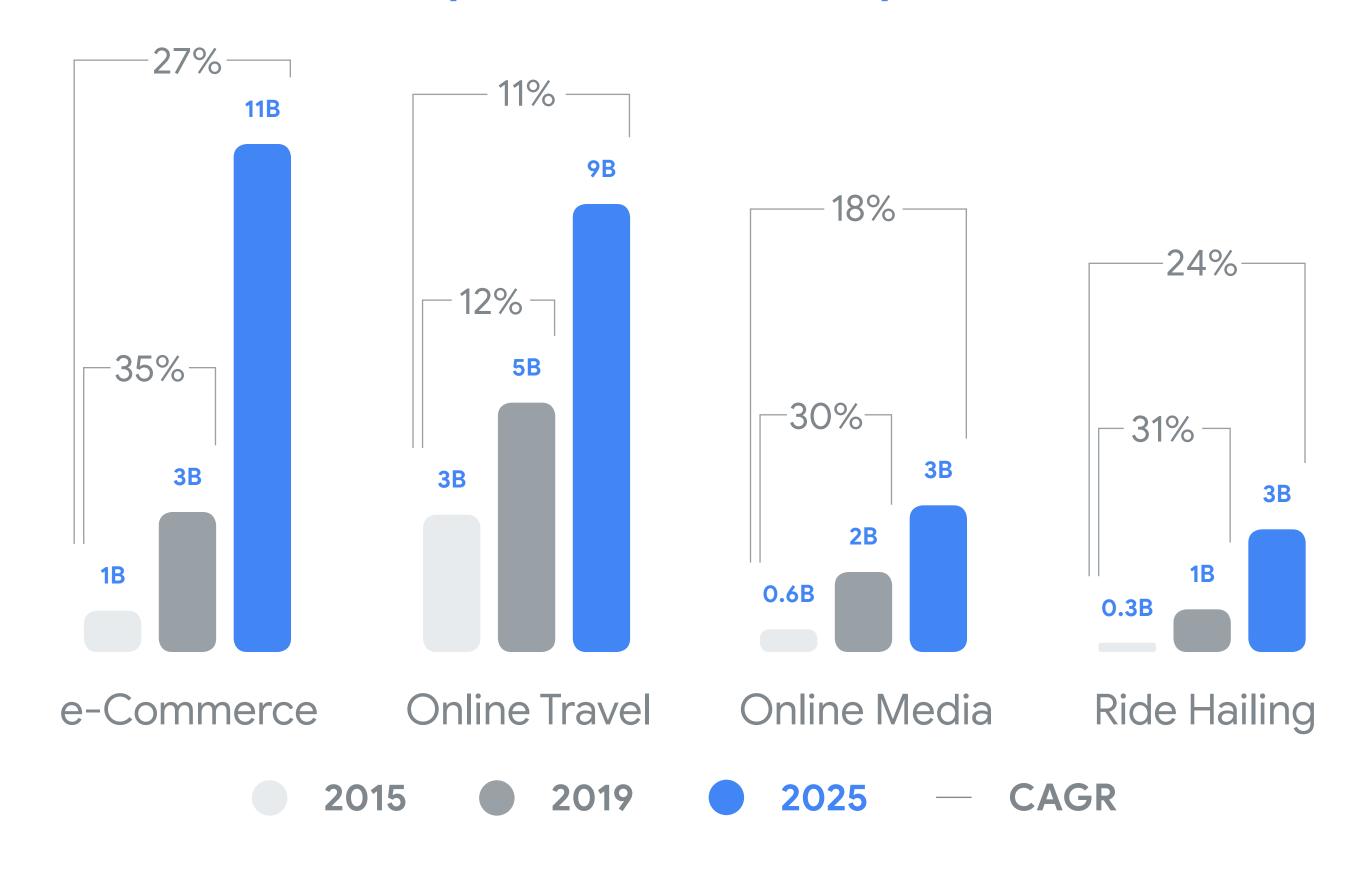
Large funding rounds completed by Indonesian unicorns Bukalapak, Gojek, Tokopedia and Traveloka

Grab announced multi-billion dollar commitment to invest in Indonesia

Fewer but larger deals in 2019

## Malaysia's Internet economy continues to grow steadily

#### Malaysia Internet economy (GMV, \$B)

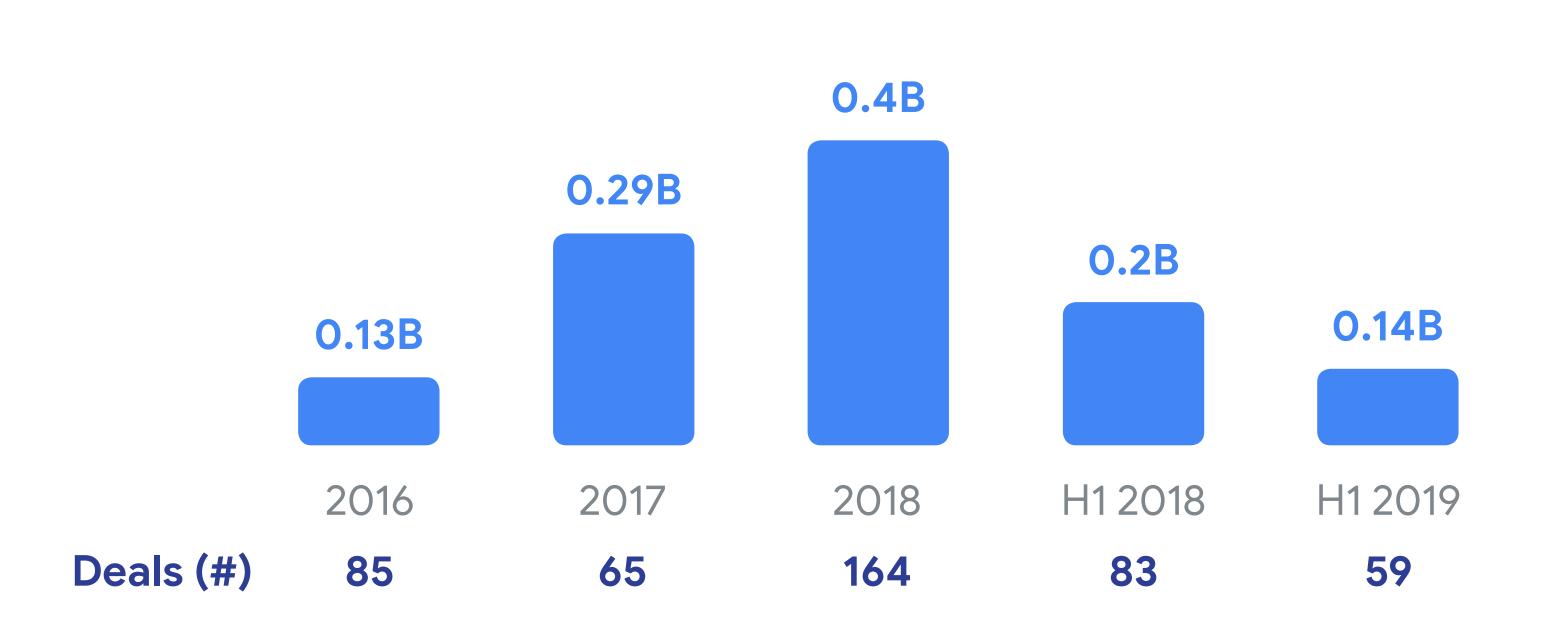


e-Commerce and Online Media keep growing @ over 30% CAGR led by regional and global players

**Most mature \$5B Online Travel** grows @ 12% CAGR driven by budget airlines and hotels

#### Investments in Malaysia slow down from 2018 record

#### Funding in Malaysia Internet economy (\$B)

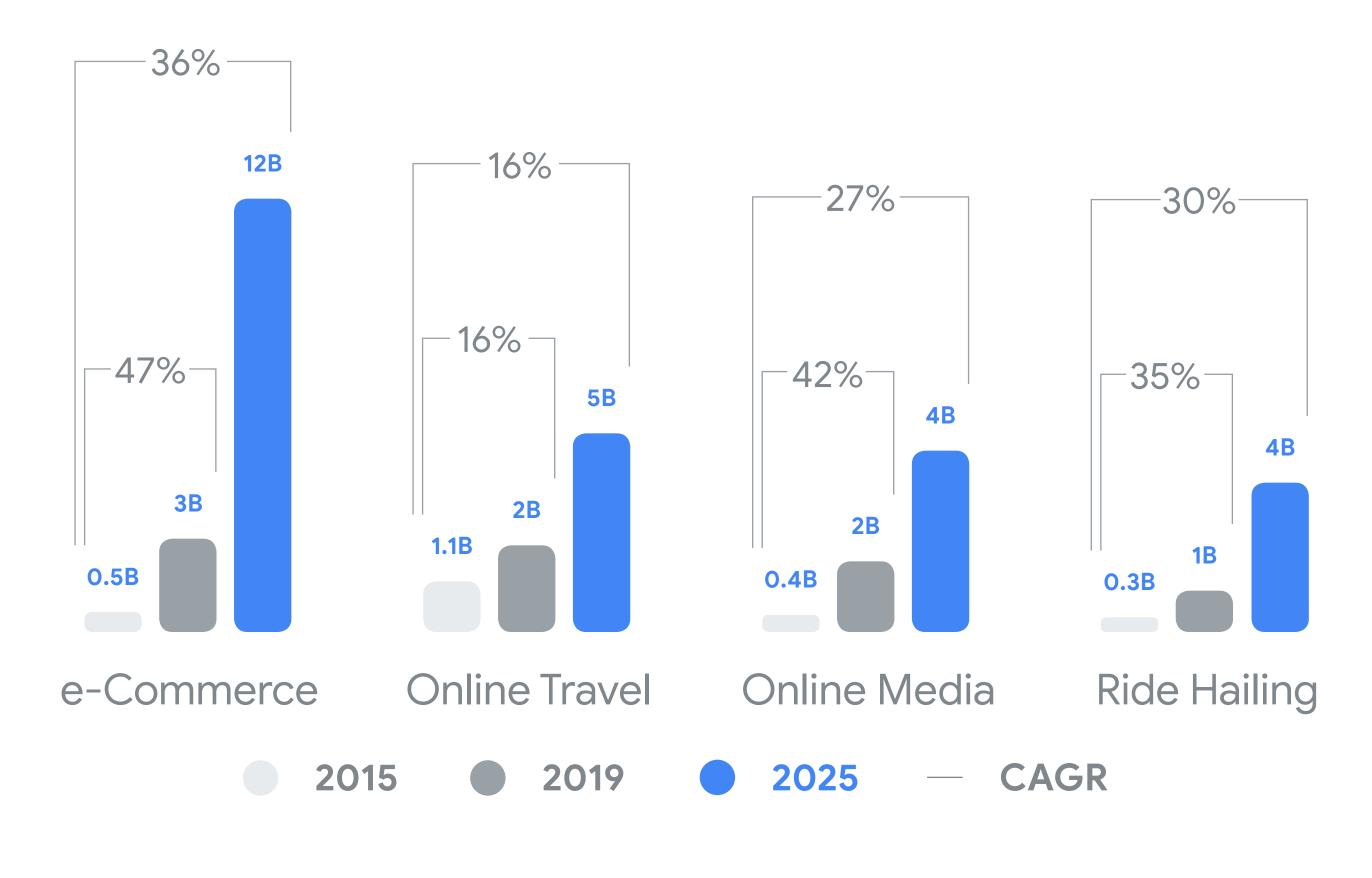


\$140M raised in H1 2019 down from 2018 record and back to 2017 levels

More late-stage funding needed to give rise to Malaysian Unicorns (Series C-D deals \$25M-\$100M)

## Online Media keeps rising in English-speaking Philippines

#### Philippines Internet economy (GMV, \$B)

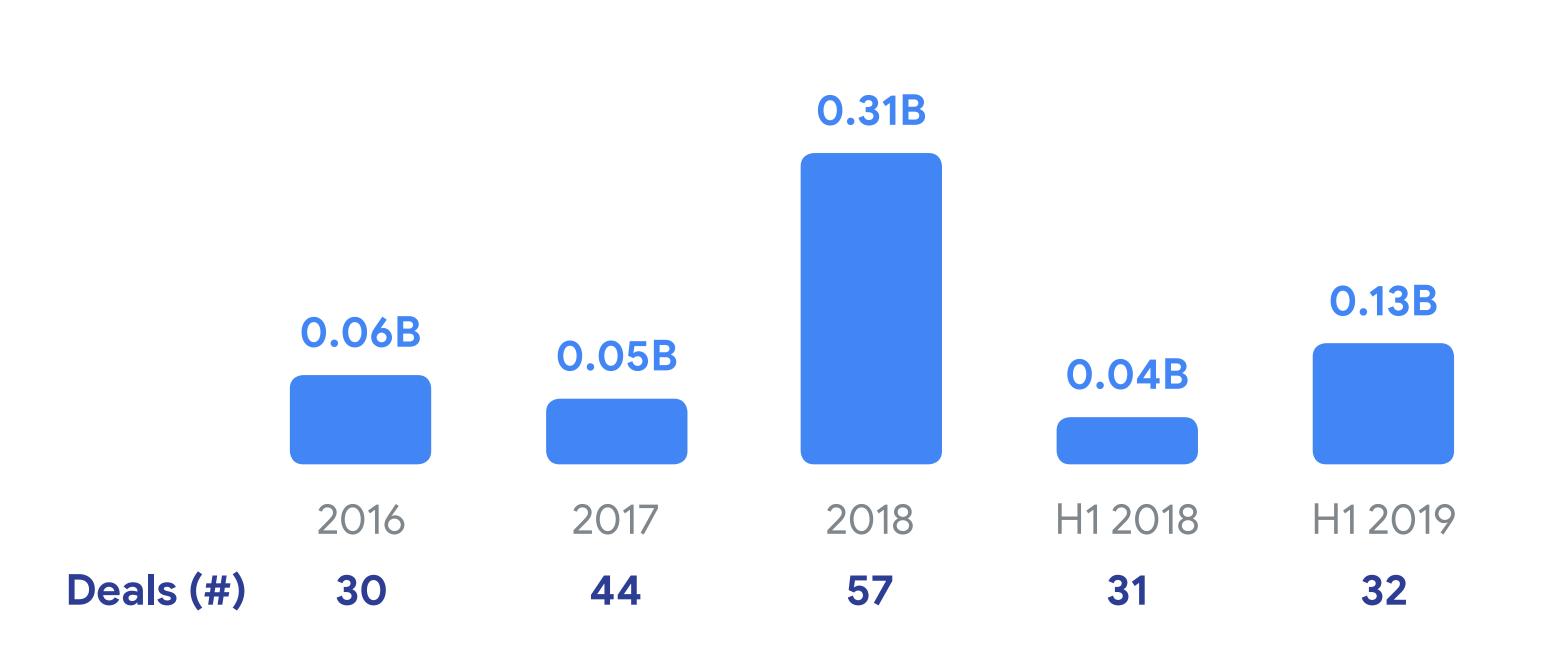


Social, Music, Video streaming and English-speaking Filipino youth drive 42% CAGR in \$2B **Online Media** 

Ride Hailing faces headwinds amidst regulatory constraints, driver supply challenges and limited competition

#### Funding surge in the Philippines driven by landmark deals

#### Funding in Philippines Internet economy (\$B)

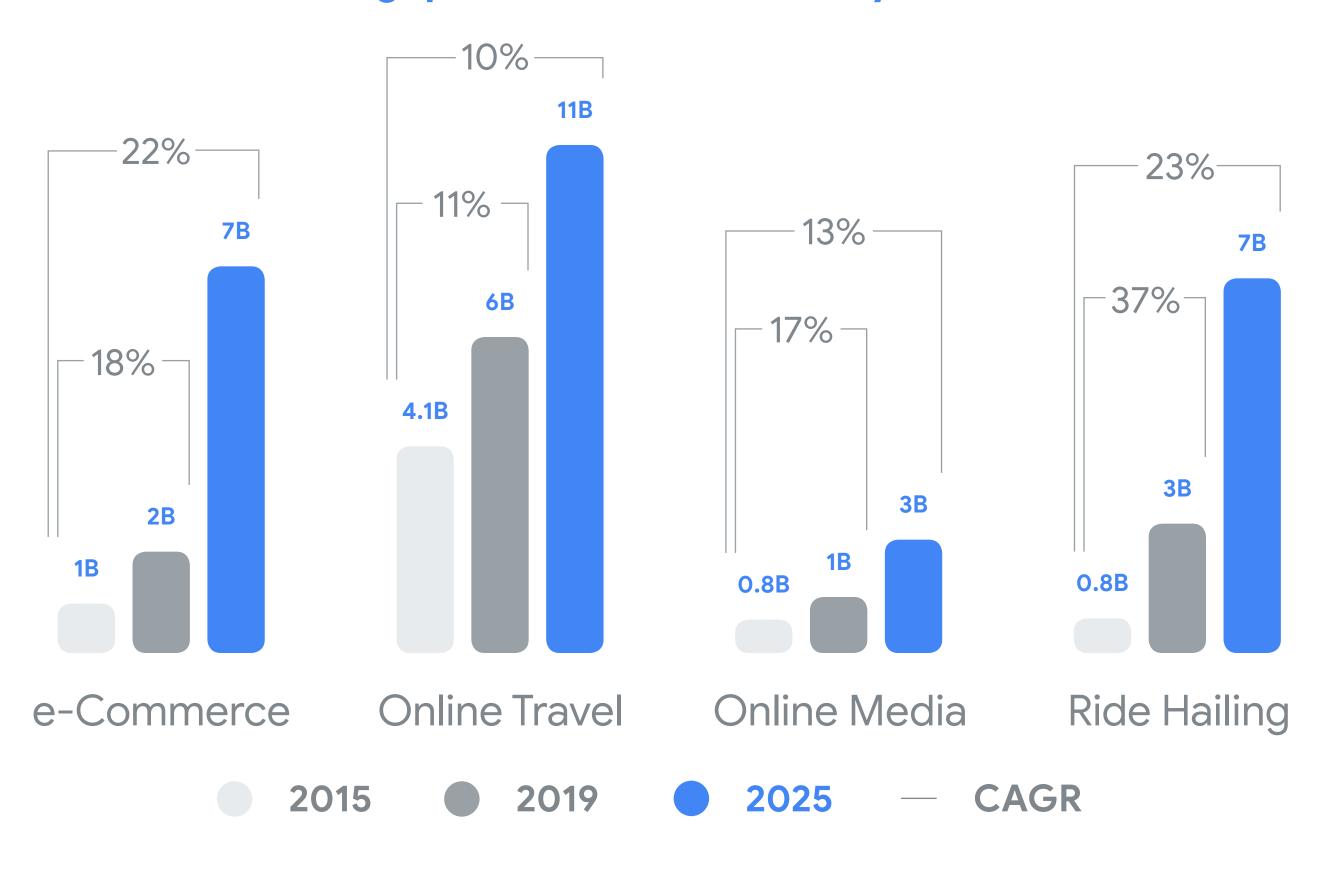


Landmark deals in digital financial services
(Voyager Innovations Coins. ph-Gojek, First Circle) aided by supportive regulations

Healthy funding continues in H1 2019 with \$130M raised in over 30 deals

## Singapore's Internet economy boosted by Ride Hailing competition and growing appetite for Food Delivery

#### Singapore Internet economy (GMV, \$B)

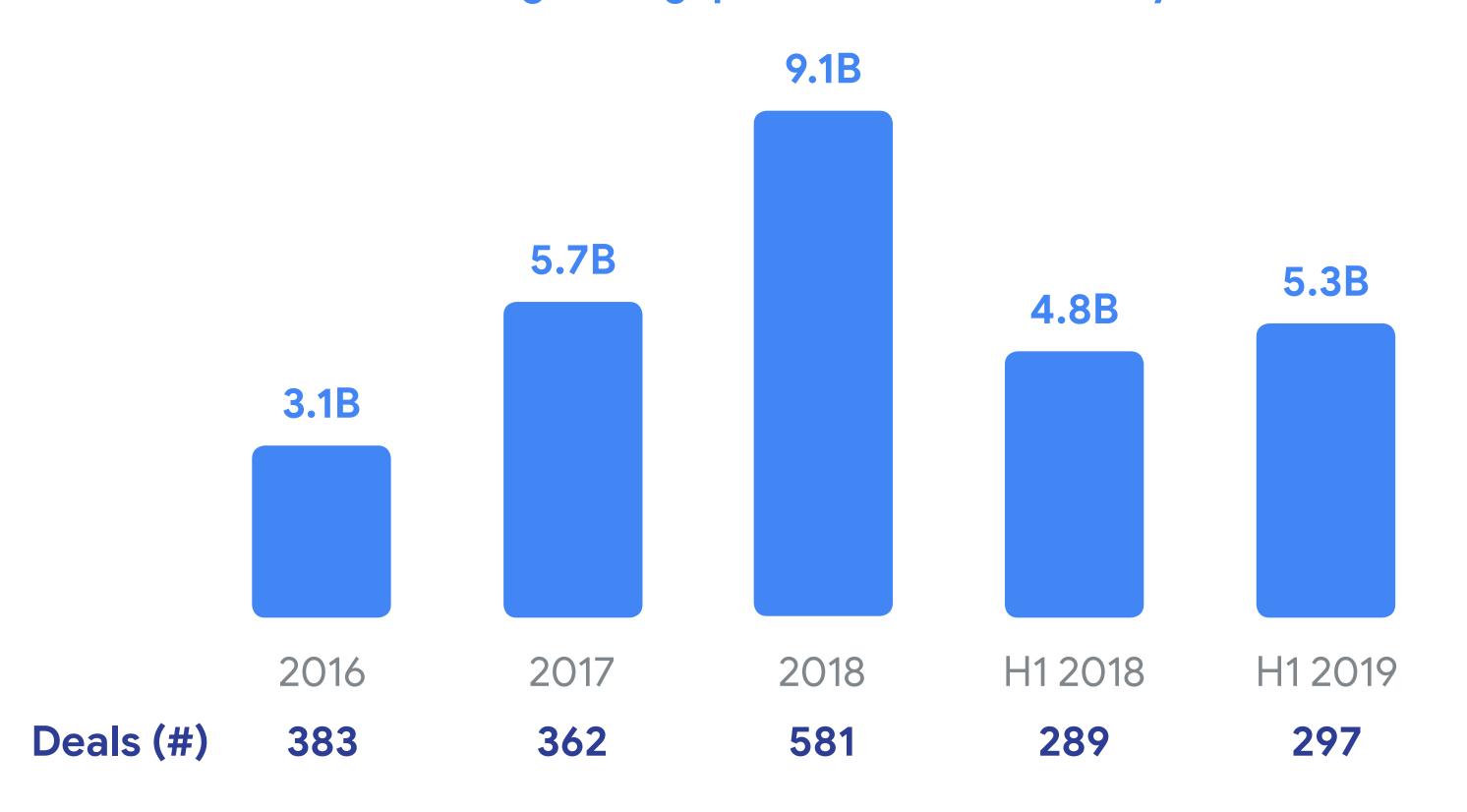


Food Delivery doubles year-on-year amidst heated competition between Deliveroo, Foodpanda, GrabFood

e-Commerce growing moderately @ 18% CAGR, not yet unlocked despite world-class payment and logistics

### Singapore remains the gateway for regional funding

#### Funding in Singapore Internet economy (\$B)



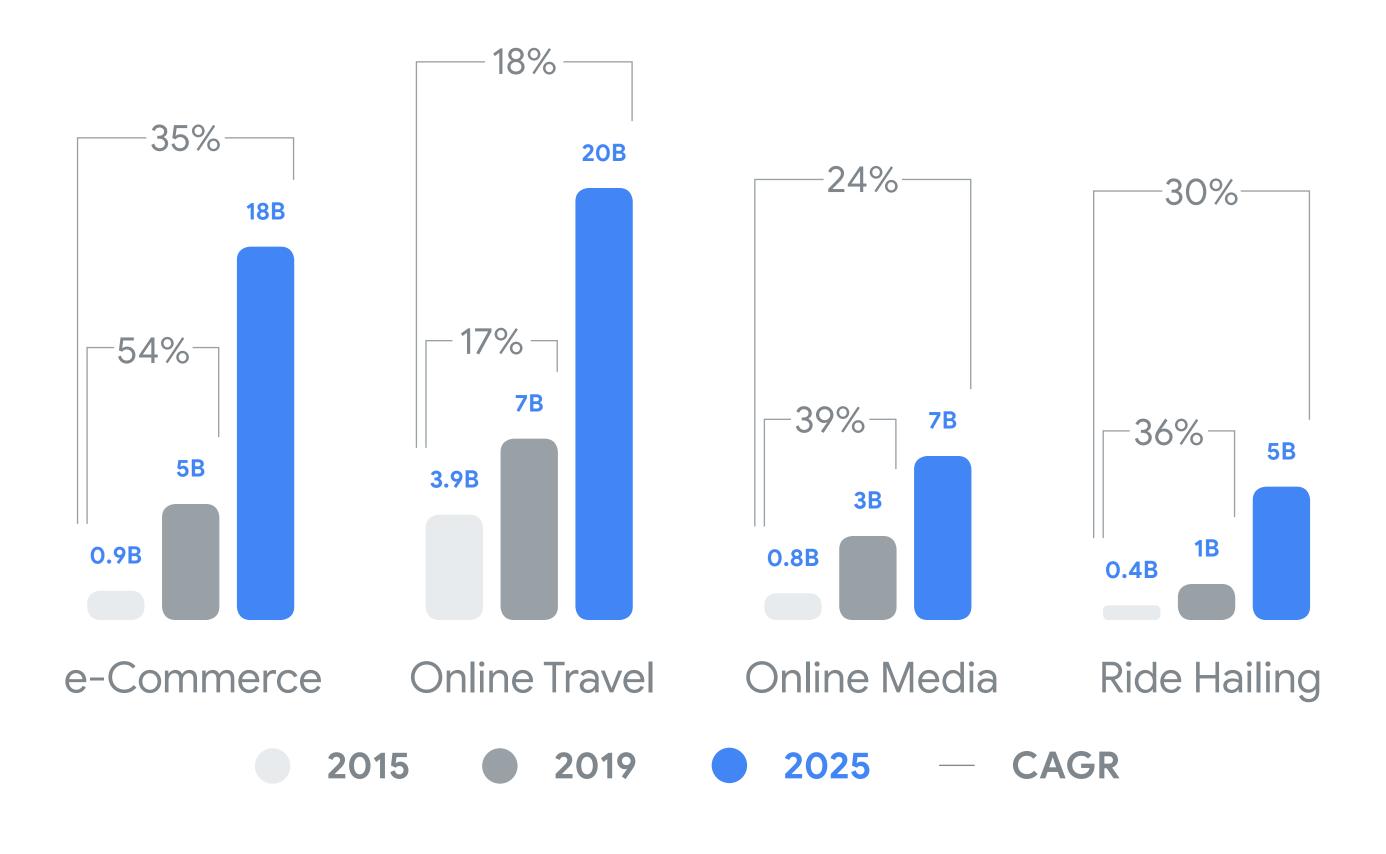
Funding in H1 2019 on track to match record deals and investments in 2018

Multi-billion dollar series raised by Grab and Sea Group

Sizable investments in Carousell, GoBear, ONE Championship, PropertyGuru, ShopBack, Zilingo

## Large Online Travel and fast-growing Online Media are bright spots in Thailand's Internet economy

#### Thailand Internet economy (GMV, \$B)



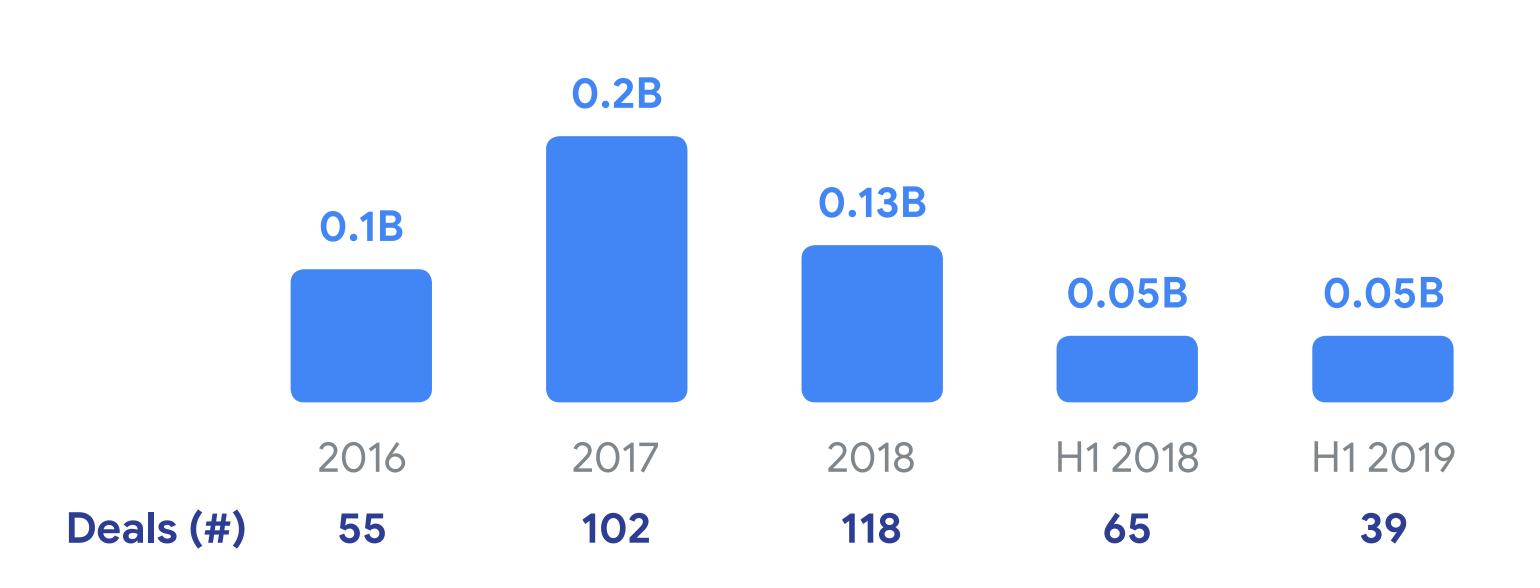
**\$7B Online Travel driven** by developed Thai tourism industry

Online Media @ 39% CAGR boosted by Thais' engagement on Social, Video

Ride Hailing held back by restrictive regulations and limited driver base

## Thai startups face challenges scaling and getting funded

Funding in Thailand Internet economy (\$B)

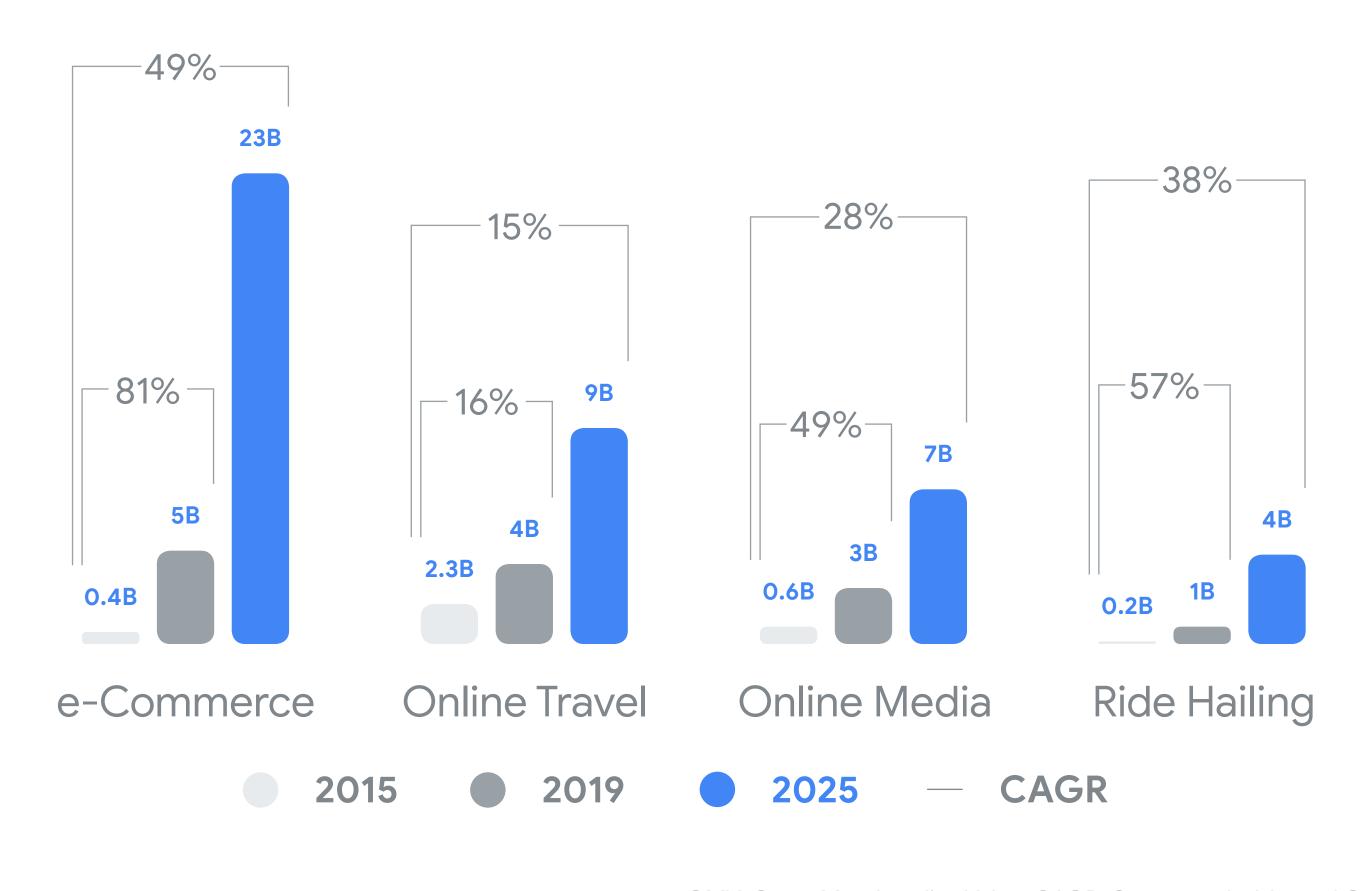


\$50M raised in H1 2019 lower than 2018 and far from 2017 peak

Thai startups face challenges scaling amidst lack of late-stage funding (Series C-D \$25M-\$100M)

#### Vietnam's e-Commerce boom drives growth

#### Vietnam Internet economy (GMV, \$B)



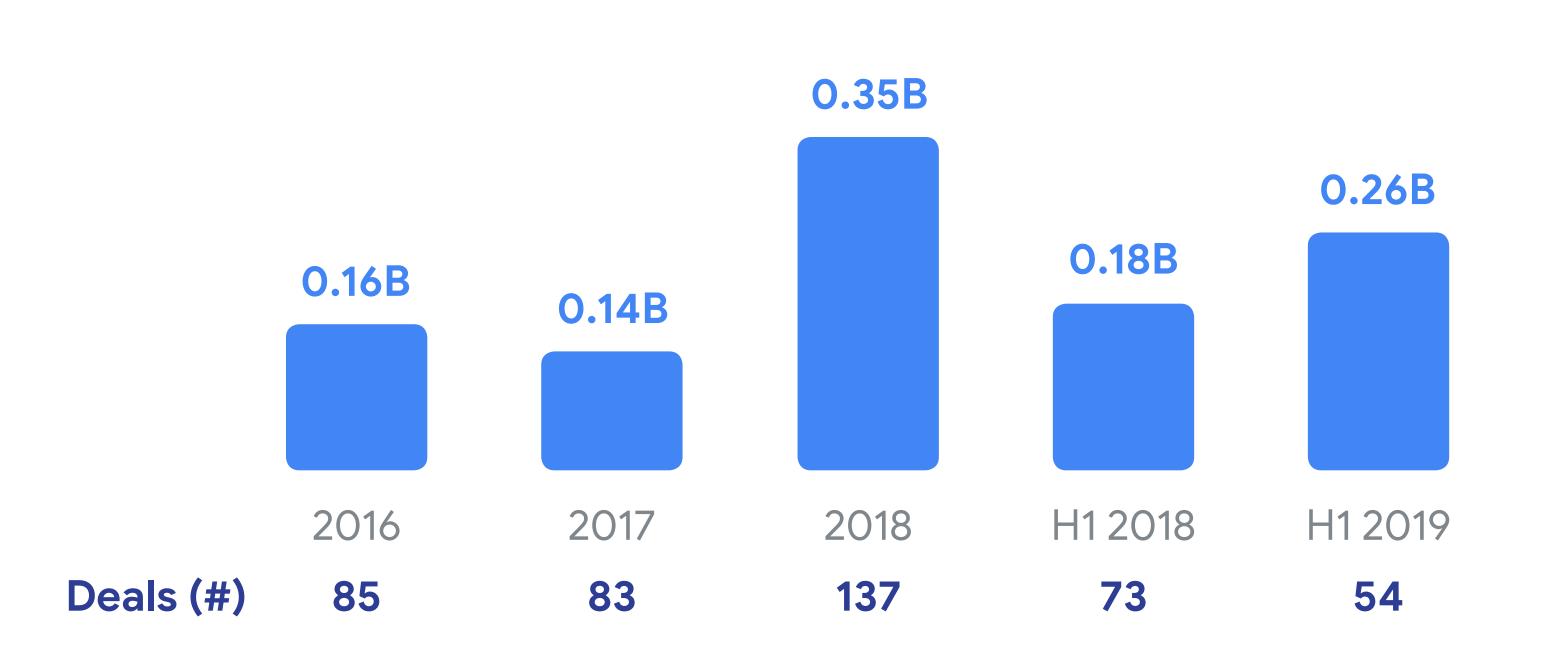
e-Commerce (12x in 4 years) unlocks opportunities for **Vietnamese SMBs** 

Heated competition between Vietnamese and regional players

Ride Hailing (57% CAGR) has ample headroom to grow beyond metro

## Vietnam is the 3<sup>rd</sup> most funded country in the region

#### Funding in Vietnam Internet economy (\$B)



3<sup>rd</sup> most funded country in the region, \$600M raised in 2018 and H1 2019

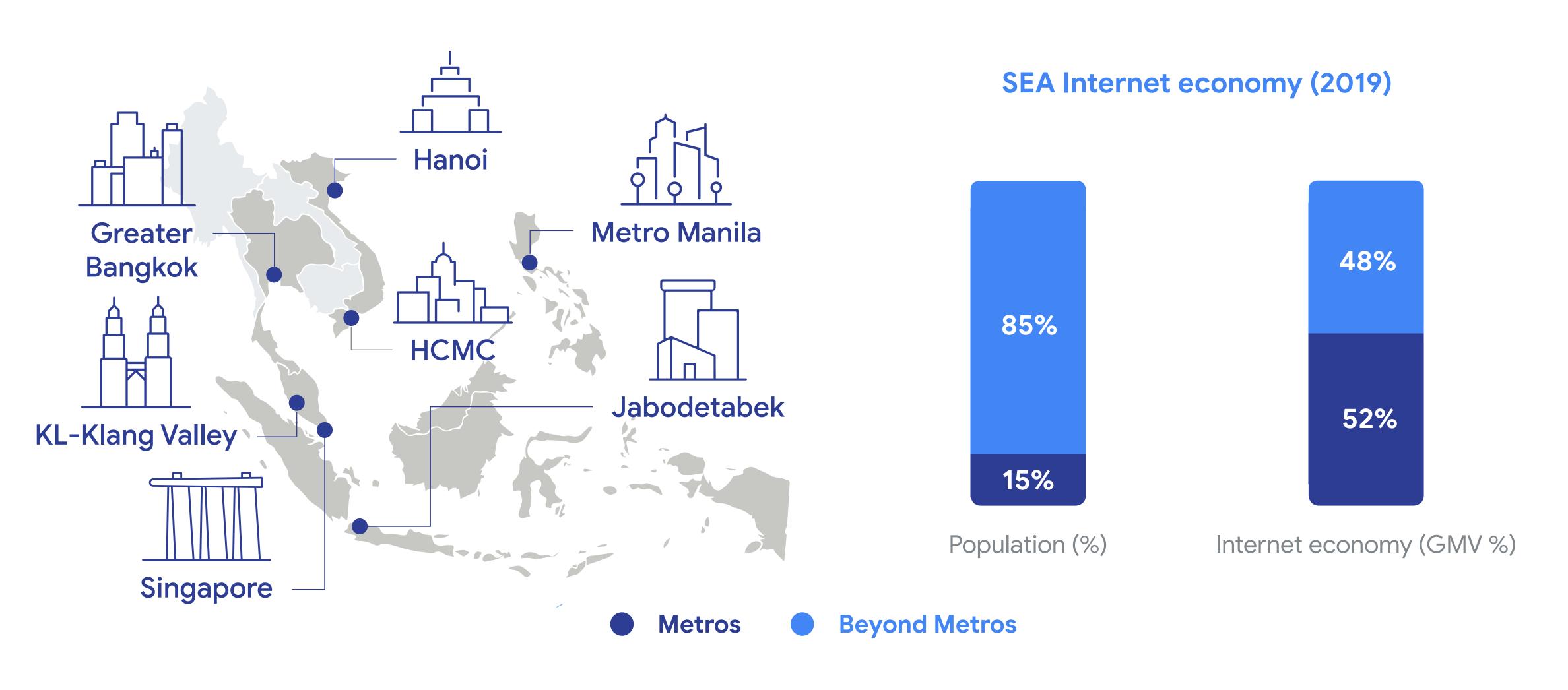
Investments in Momo, Sendo,
Topica led by international
players crown Vietnam as
investment destination

Fewer but larger deals in 2019

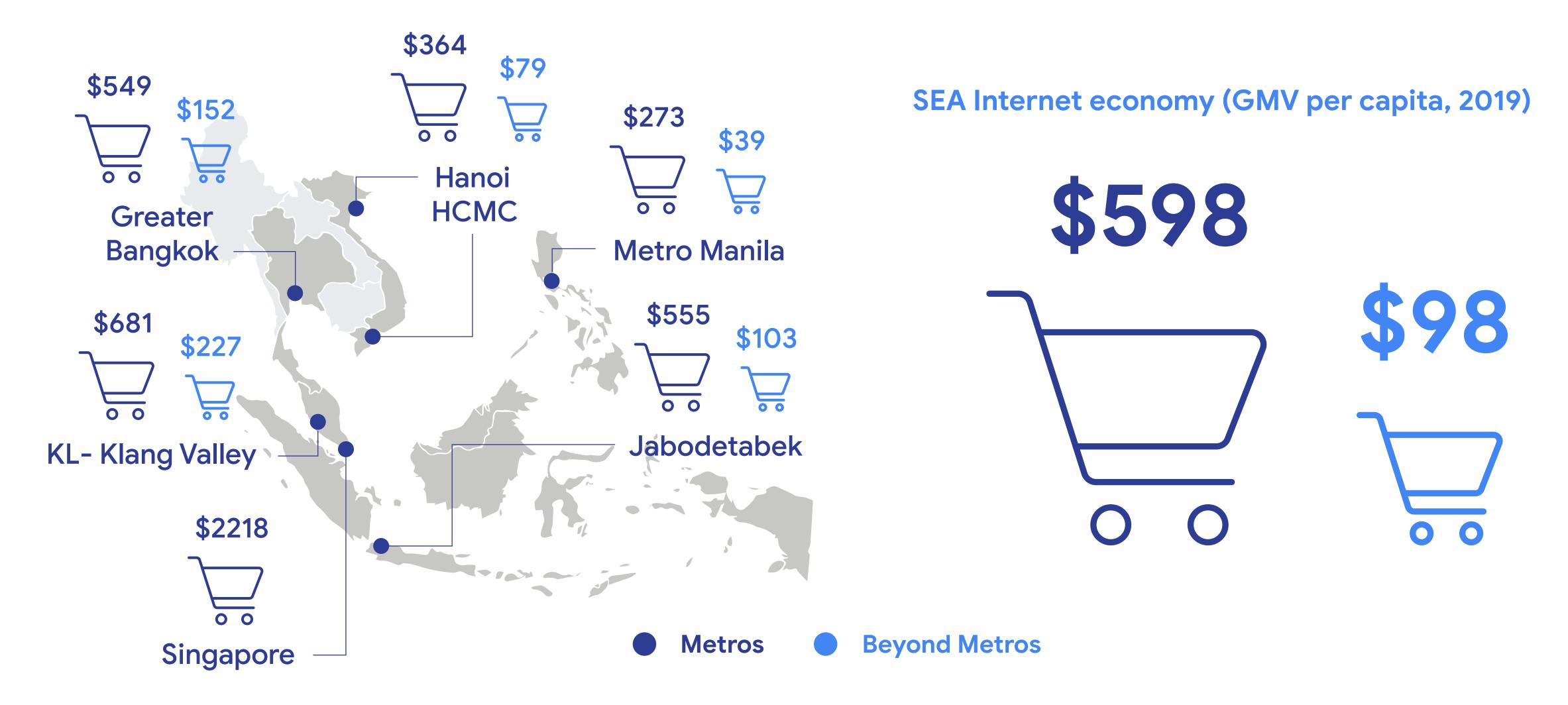
Growth opportunities beyond Metros



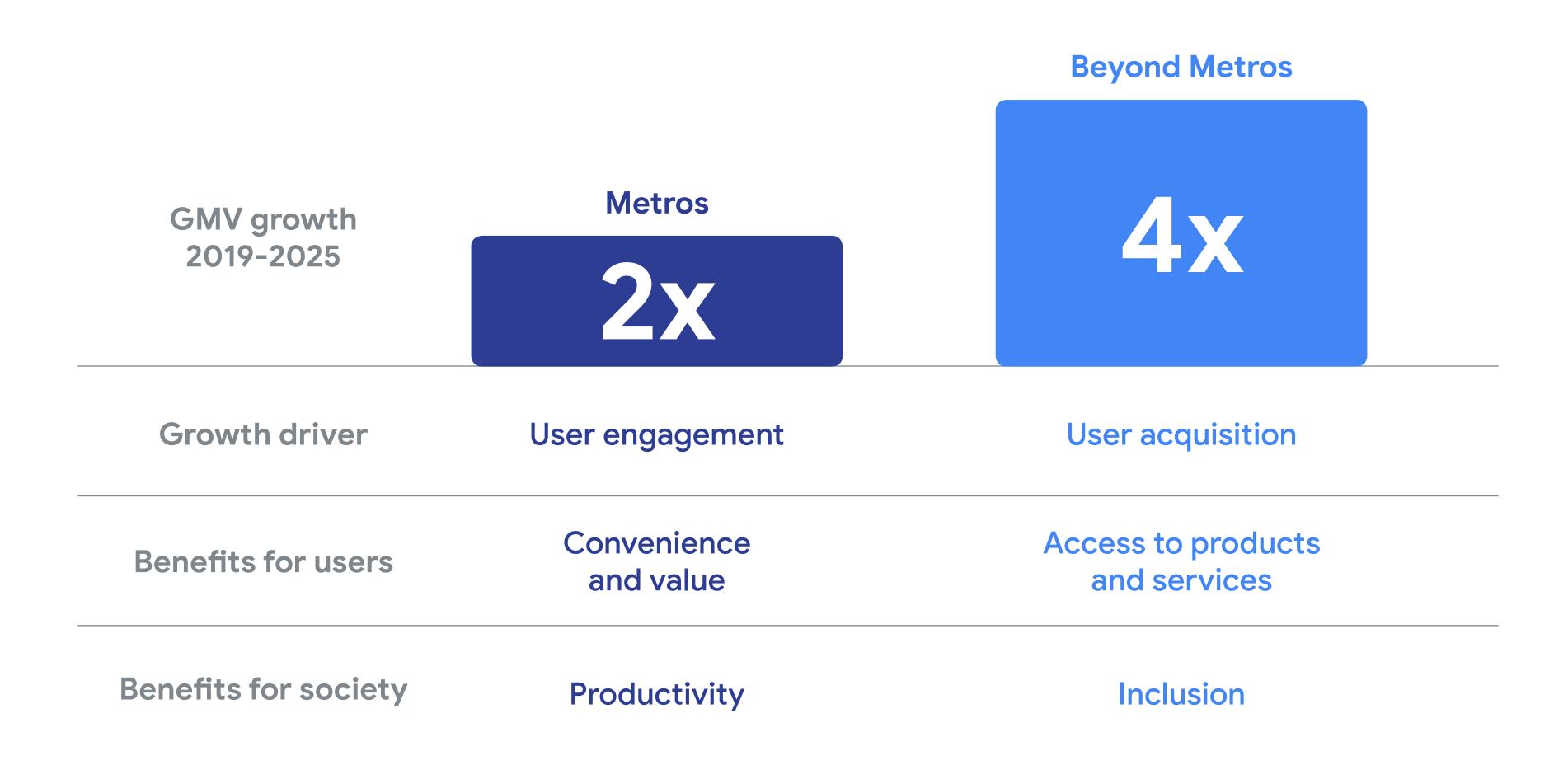
#### 7 Metros account for over 50% of the Internet economy



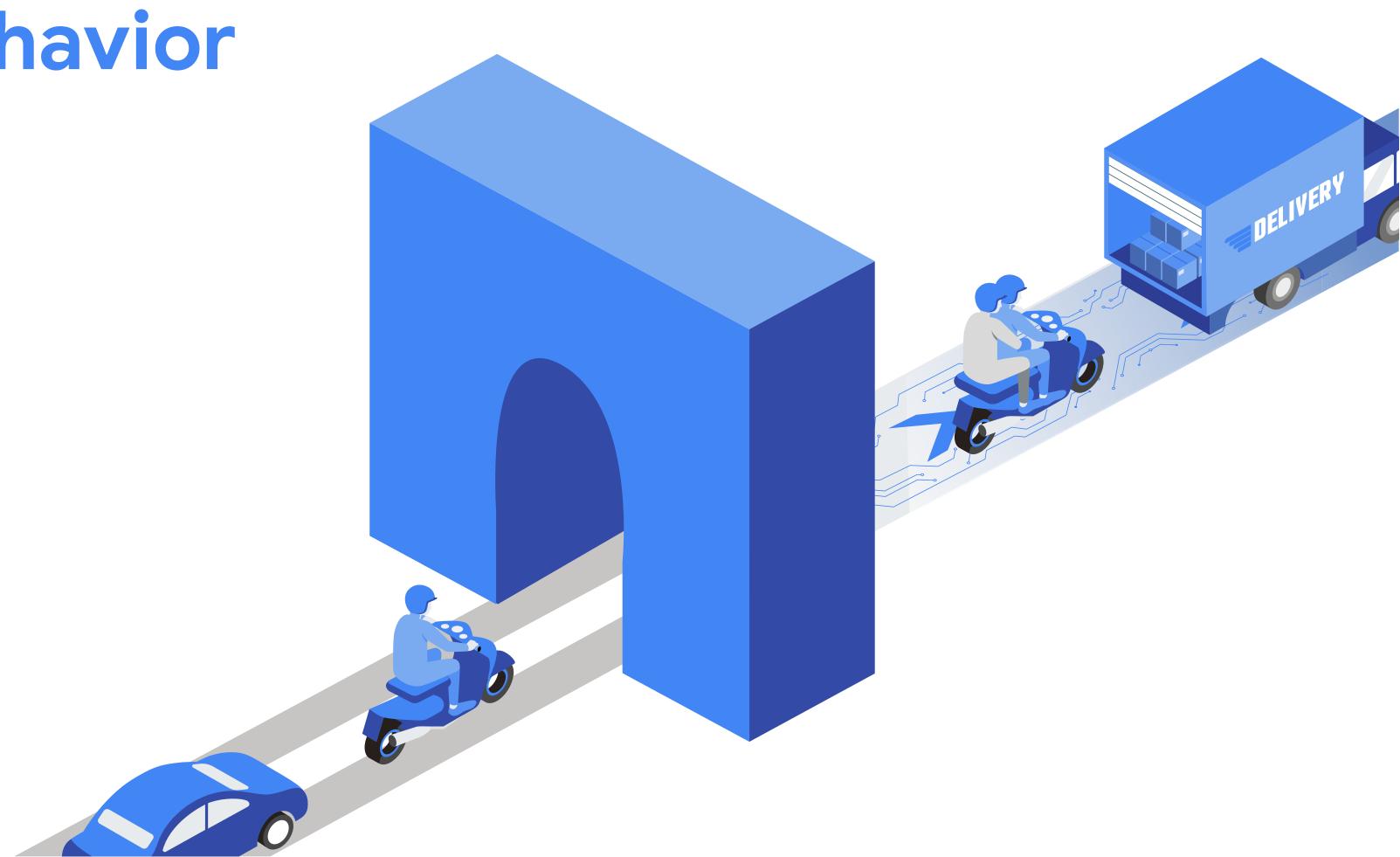
### Users in Metros spend 6 times more than Beyond Metros



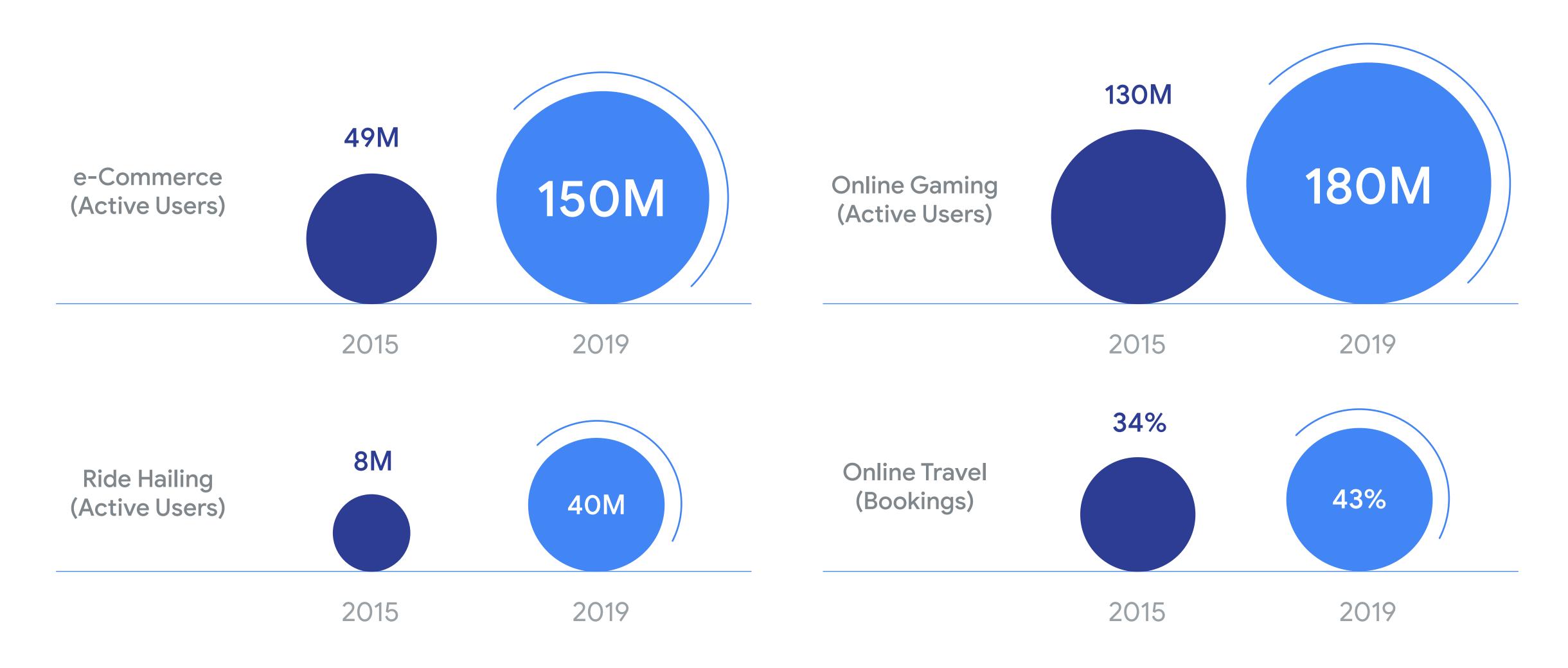
### Beyond Metros poised to grow twice as fast as Metros



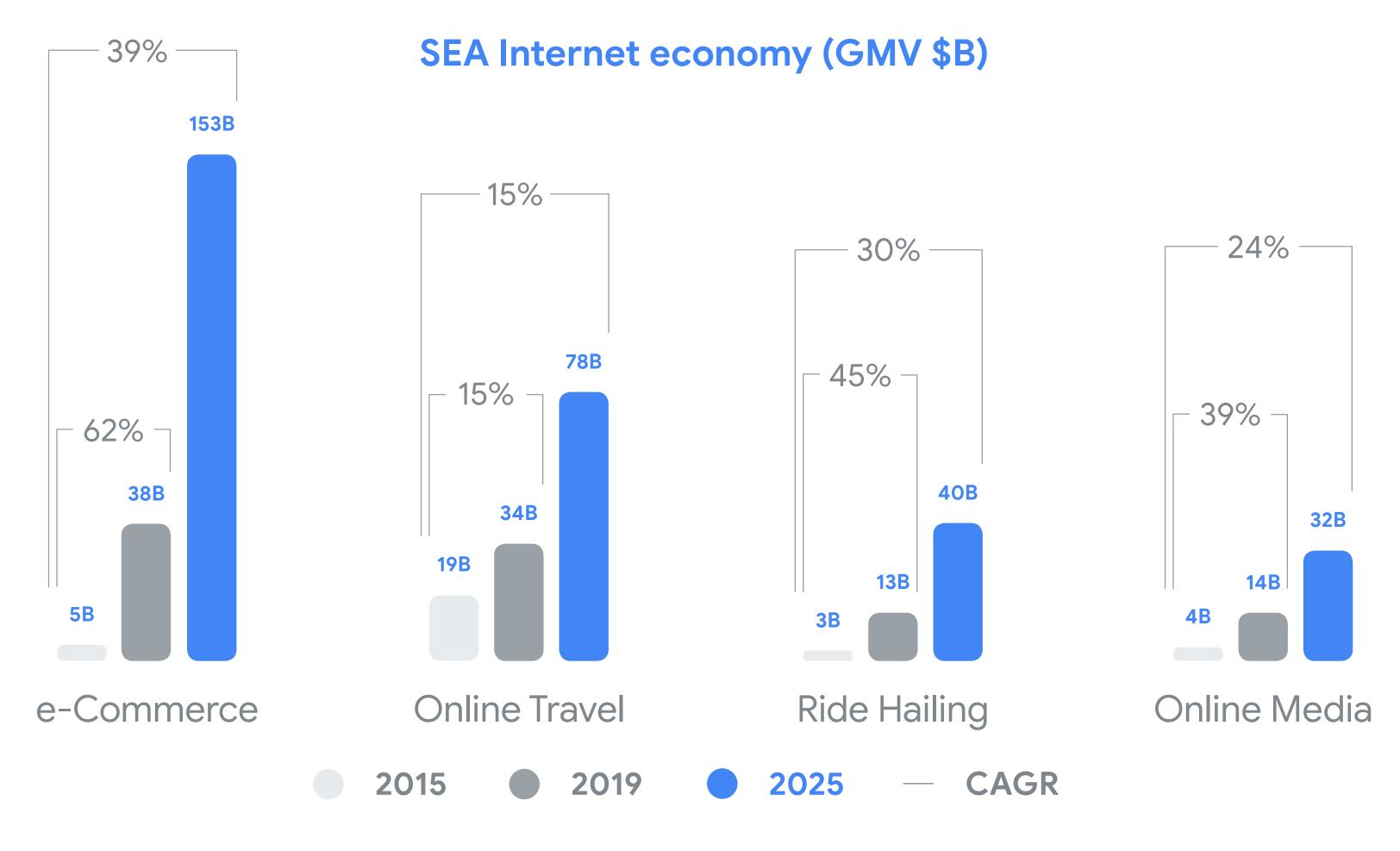
Fundamental changes in consumer behavior



### All sectors experiencing active user growth

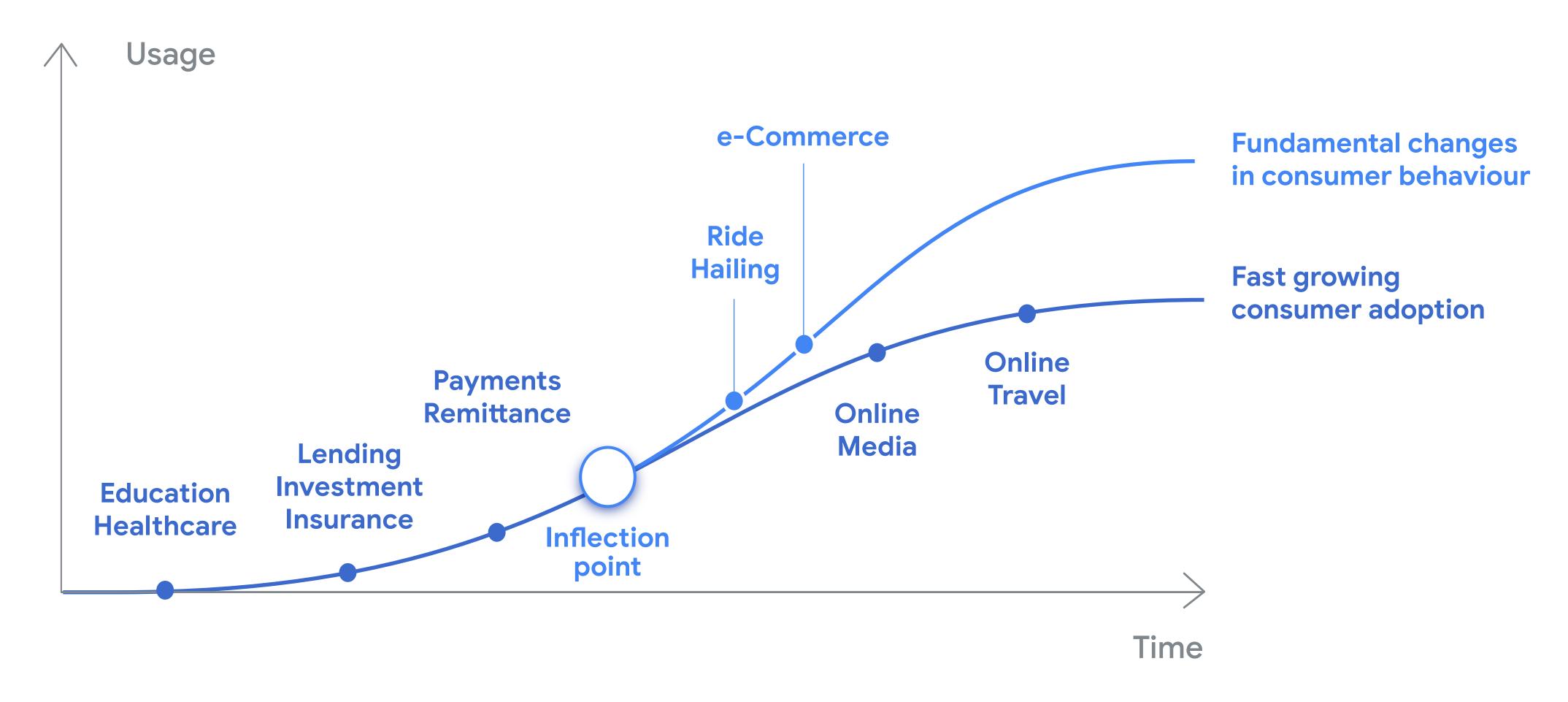


# e-Commerce is the largest and fastest growing sector, Ride Hailing growth propelled by rising Food Delivery



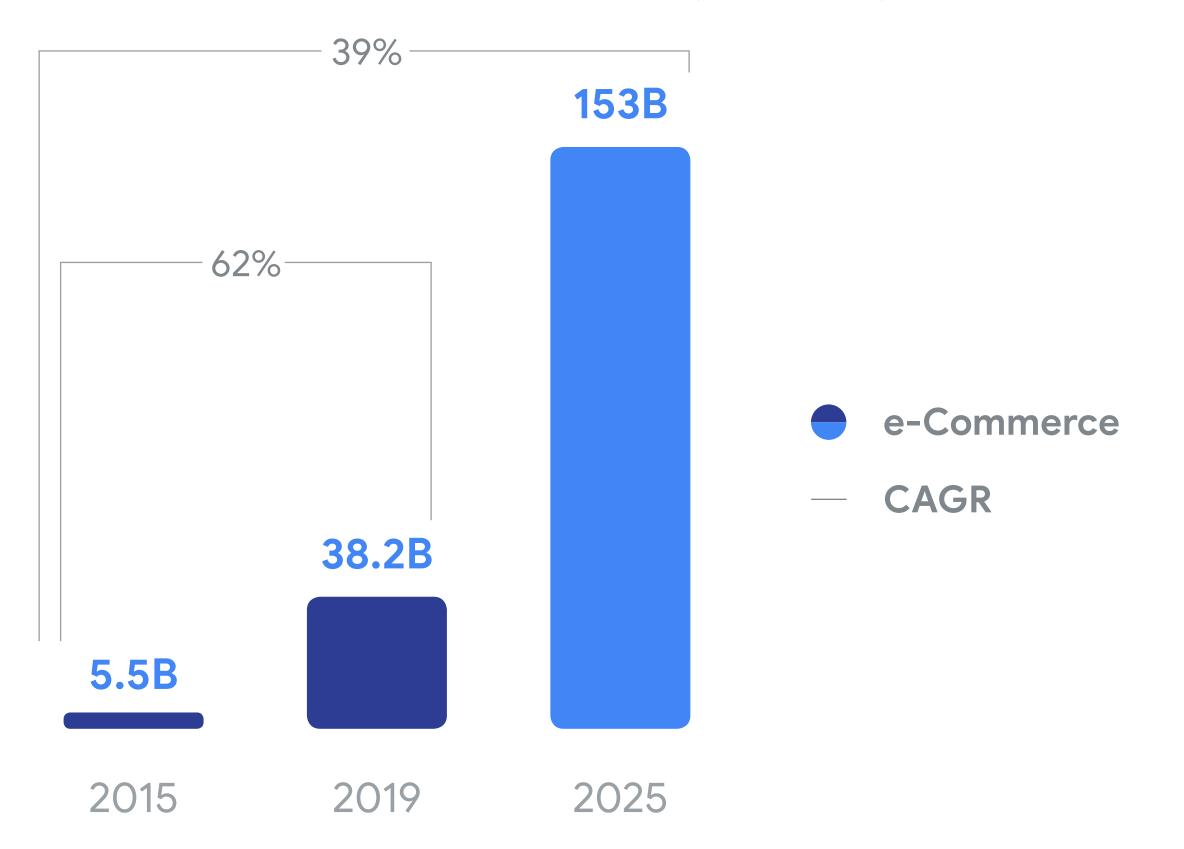
GMV: Gross Merchandise Value; CAGR: Compounded Annual Growth Rate

# Growth of e-Commerce and Ride Hailing powered by fundamental changes in consumer behavior



# e-Commerce growth turbocharged by shopping festivals, reaches \$38B in 2019 and may exceed \$150B by 2025

#### SEA e-Commerce (GMV, \$B)



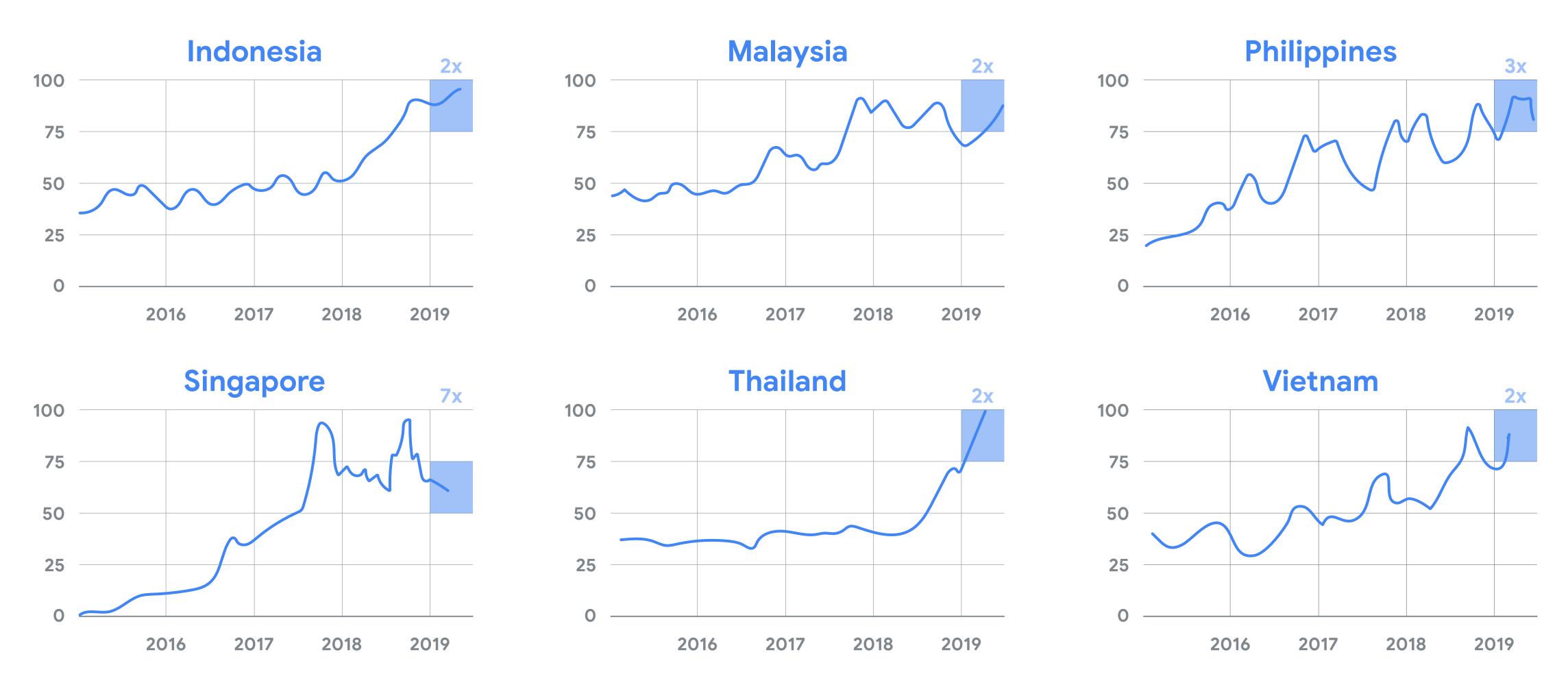
**Growth drivers** 

Online shopping festivals In-app entertainment Seller development **Next-day delivery** Monetization

GMV: Gross Merchandise Value; CAGR: Compounded Annual Growth Rate

e-Commerce GMV estimates include sales from businesses to consumers (B2C) and marketplaces where first-hand goods are sold by SMBs to consumers (SMB-2-C). They do not include sales of digital goods, wholesale orders (B2B), sales of second-hand goods by consumers to consumers (C2C) nor sales completed on social media and messaging platforms (Social Commerce), for which estimates vary widely due

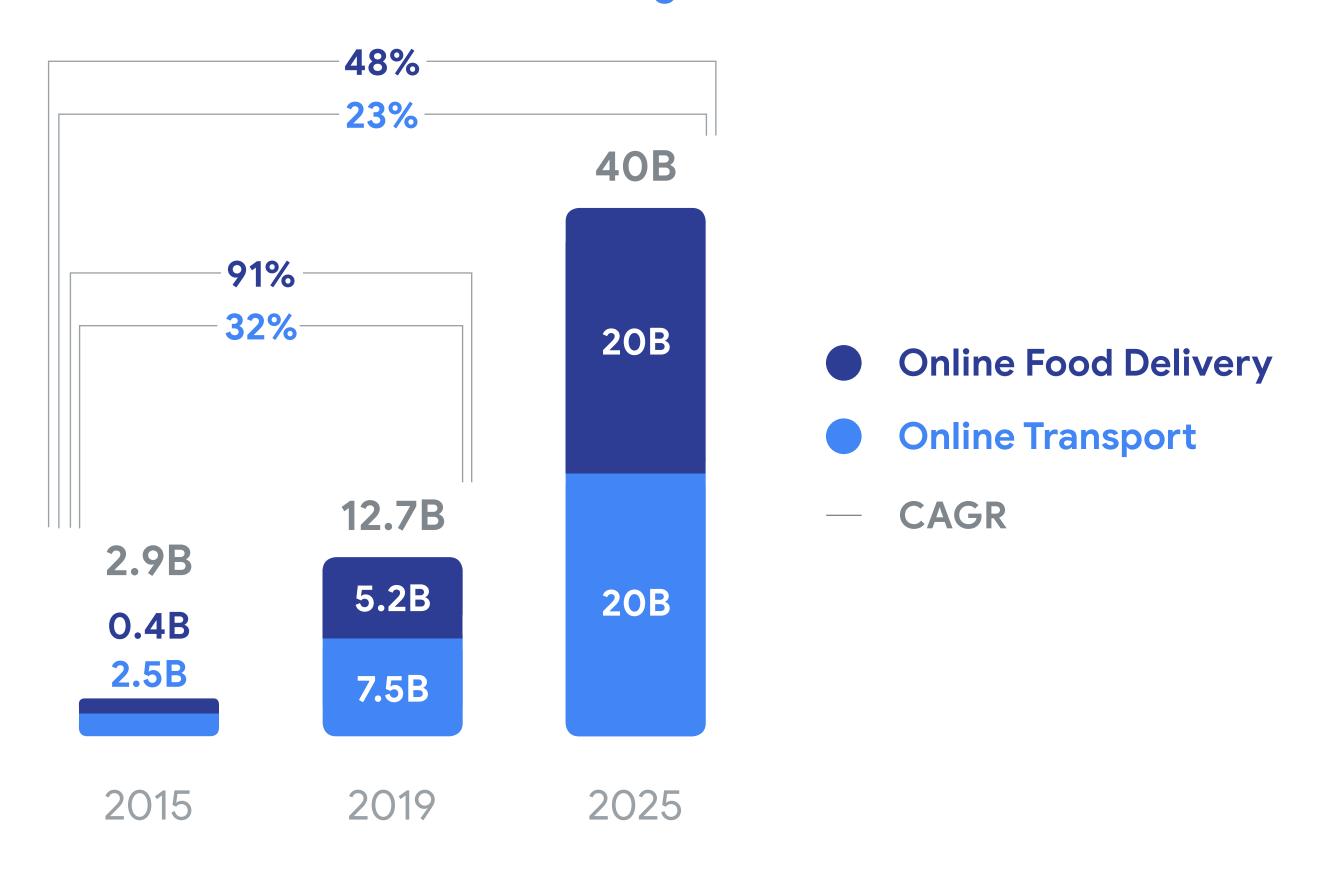
# e-Commerce: search interest in coupons and vouchers growing across Southeast Asia in 2019



Google Trends for selected promotional terms (e.g. coupons, vouchers), 1/2015 - 4/2019 "Xx" indicates average search queries (2019) vs. average search queries (2015)

# Ride Hailing opportunity to expand to \$40B by 2025, heated up by booming \$5B Food Delivery services

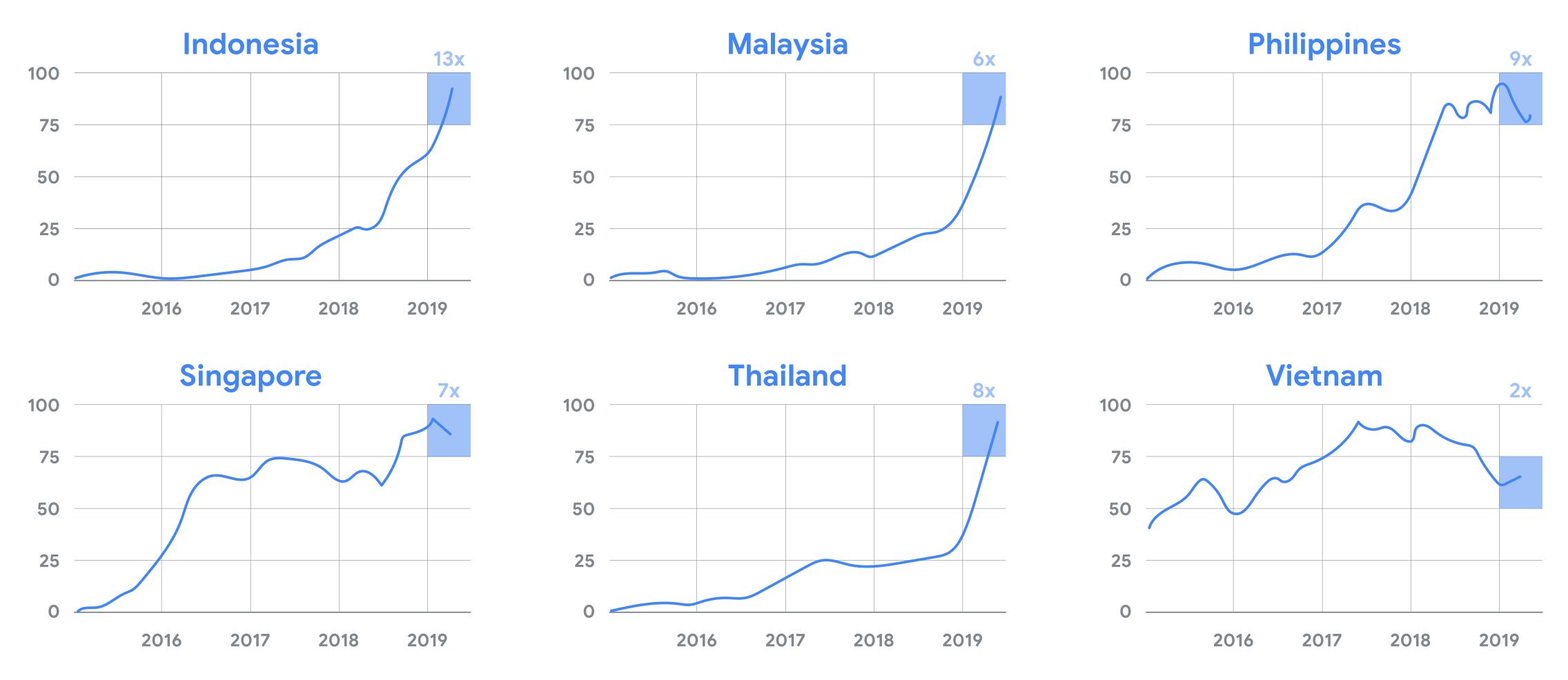
SEA Ride Hailing (GMV, \$B)



**Growth drivers** 

Food delivery Financial services Loyalty & rewards **Driver development Profitability** 

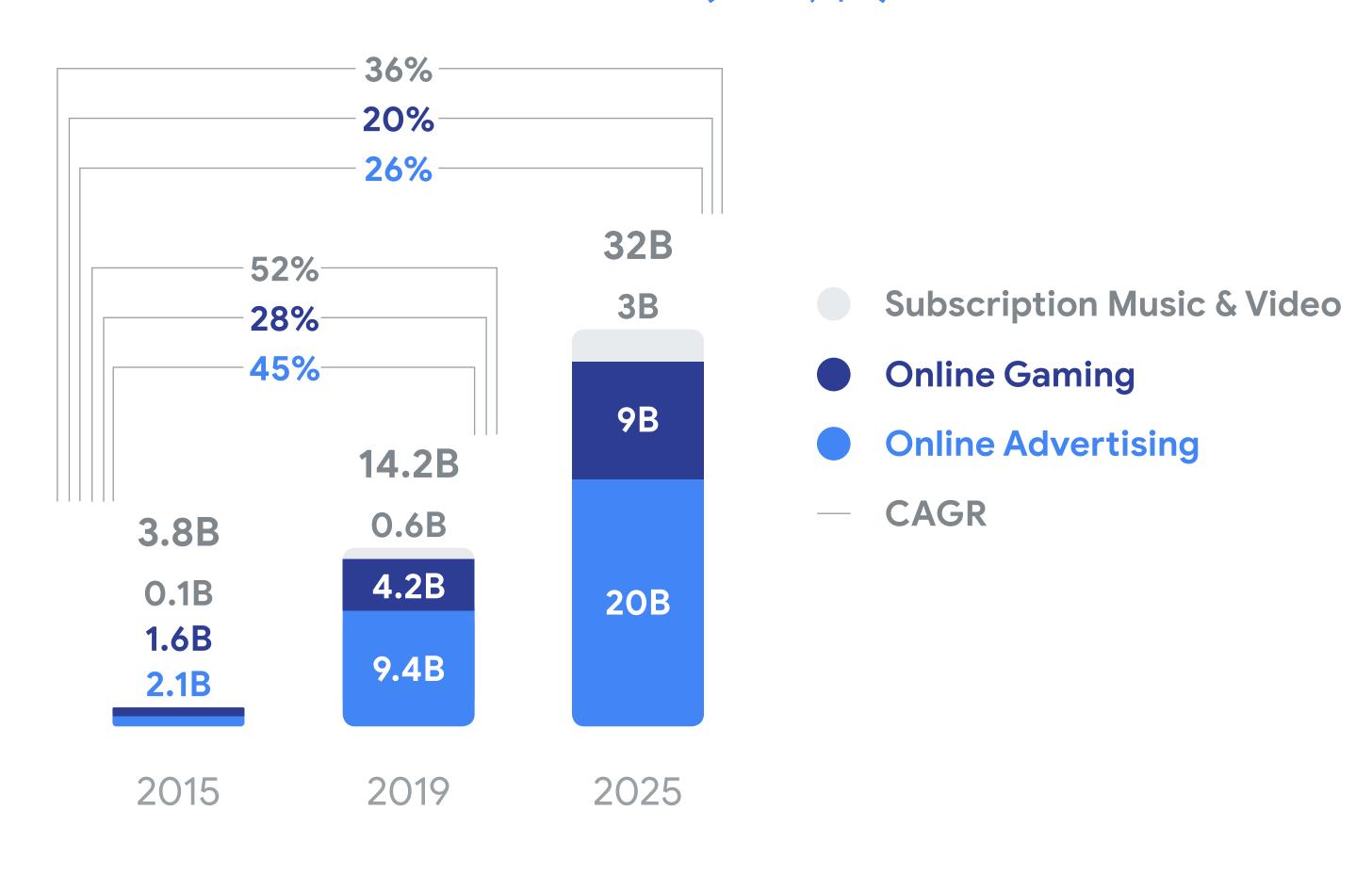
# Search interest for Food Delivery surges across Southeast Asia in 2019



Google Trends for selected Online Food Delivery brands, 1/2015 - 4/2019. "Xx" indicates average search queries (2019) vs. average search queries (2015)

# Online Media hits \$14B, powered by Ads and Gaming

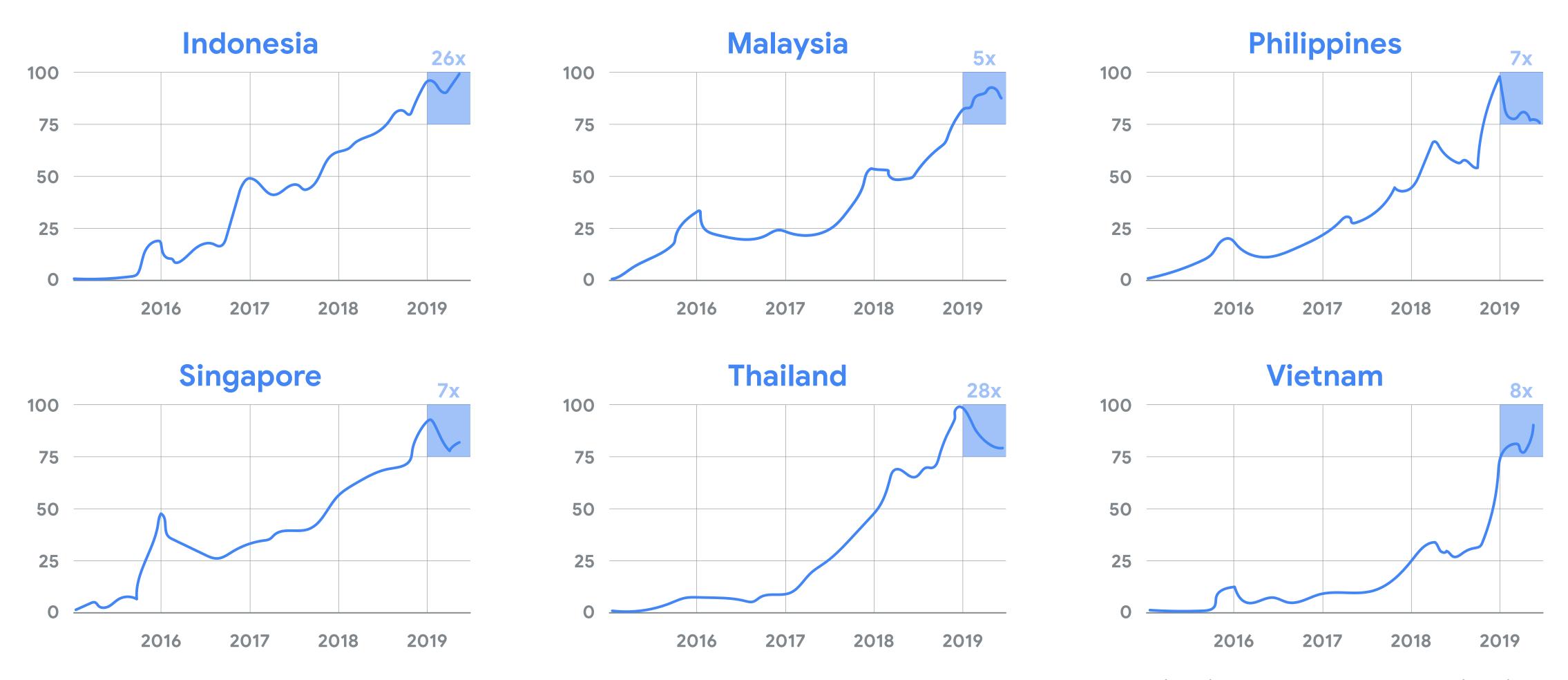
#### SEA Online Media (GMV, \$B)



#### **Growth drivers**

Internet user growth Mobile engagement Live & short-form videos Local content creators Lifetime value (LTV)

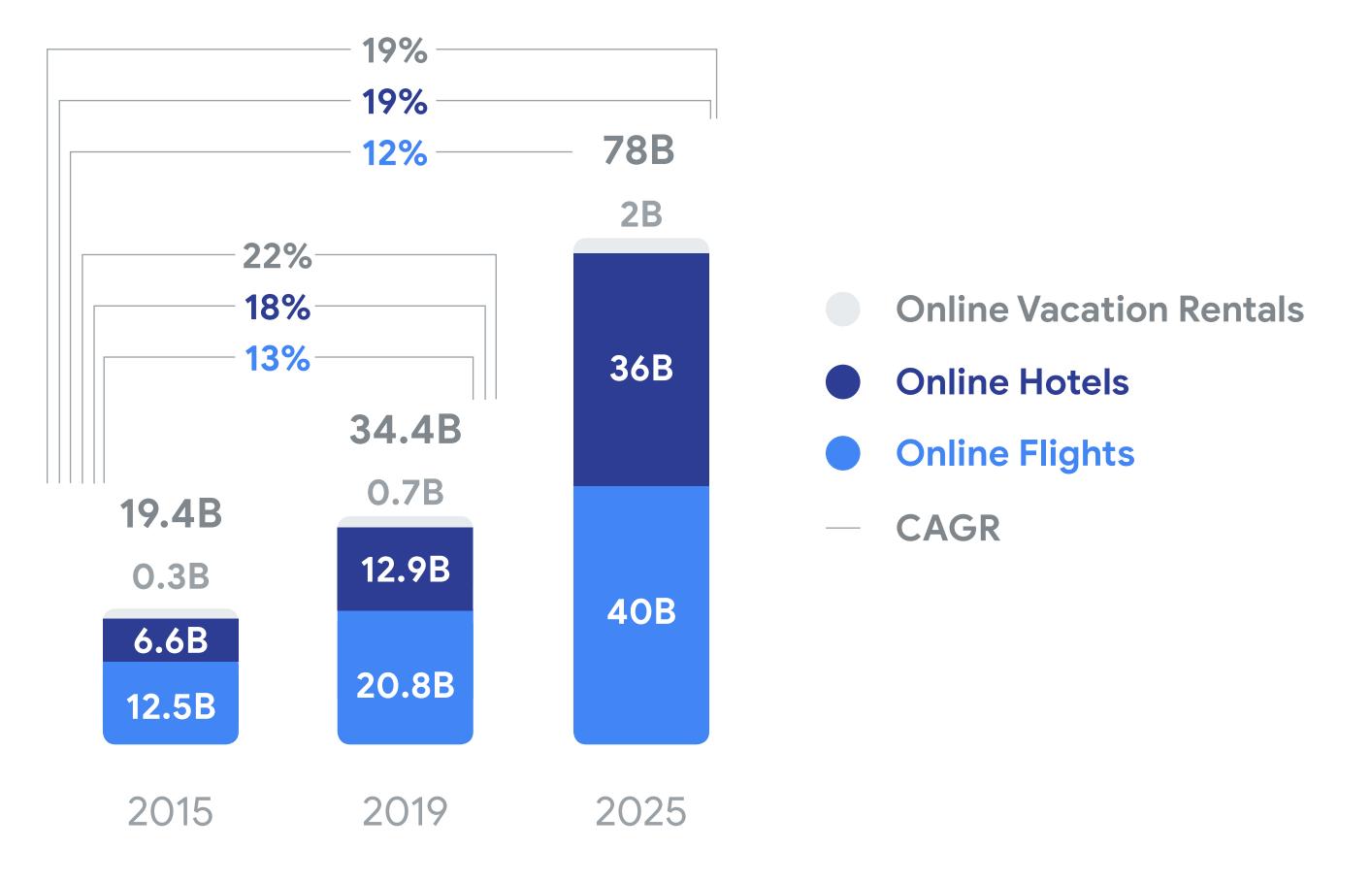
# Subscription Video Streaming brands reached new peaks in search interest across Southeast Asia in 2019



Google Trends for selected Subscription Streaming Video brands, 1/2015 - 4/2019. "Xx" indicates average search queries (2019) vs. average search queries (2015)

# Vacation Rentals and Budget Hotels most dynamic in \$34B Online Travel sector

**SEA Online Travel (GMV, \$B)** 



**Growth drivers** 

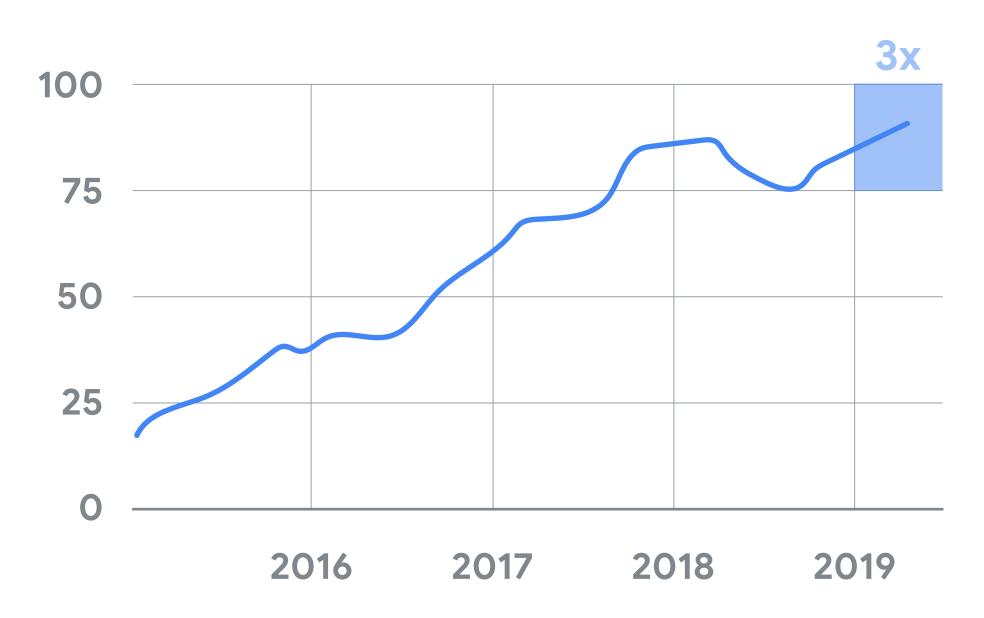
Vacation rental brands **Budget hotel chains** Experiences **Partnerships** 

# Budget Hotels and Vacation Rentals grew steadily in search interest across Southeast Asia in 2019

#### **Budget Hotel brands**

# 100 9x 75 50 25 0 2016 2017 2018 2019

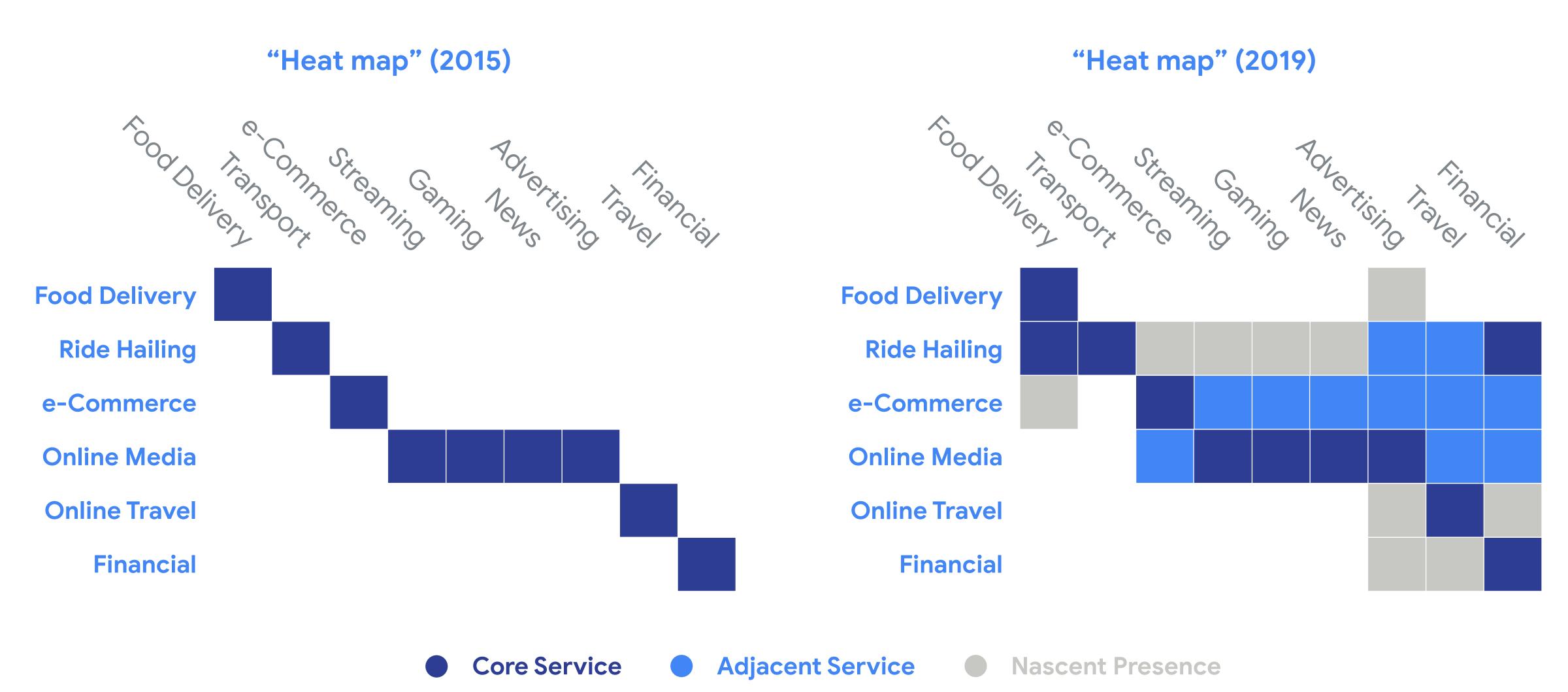
#### **Vacation Rental brands**





# Time is money: competing for engagement

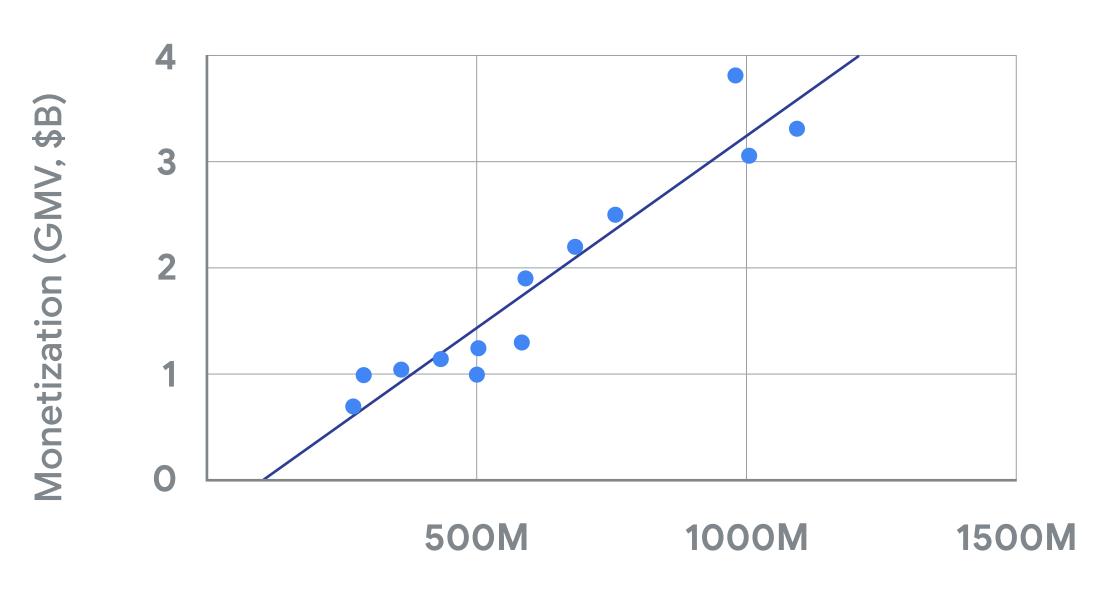
# Consumers benefit from increased competition as players launch new services to drive engagement



# Increased user engagement strongly correlates with monetization through orders and bookings

#### e-Commerce - Monetization vs Time Spent

Southeast Asia, Q1 2016-Q2 2019

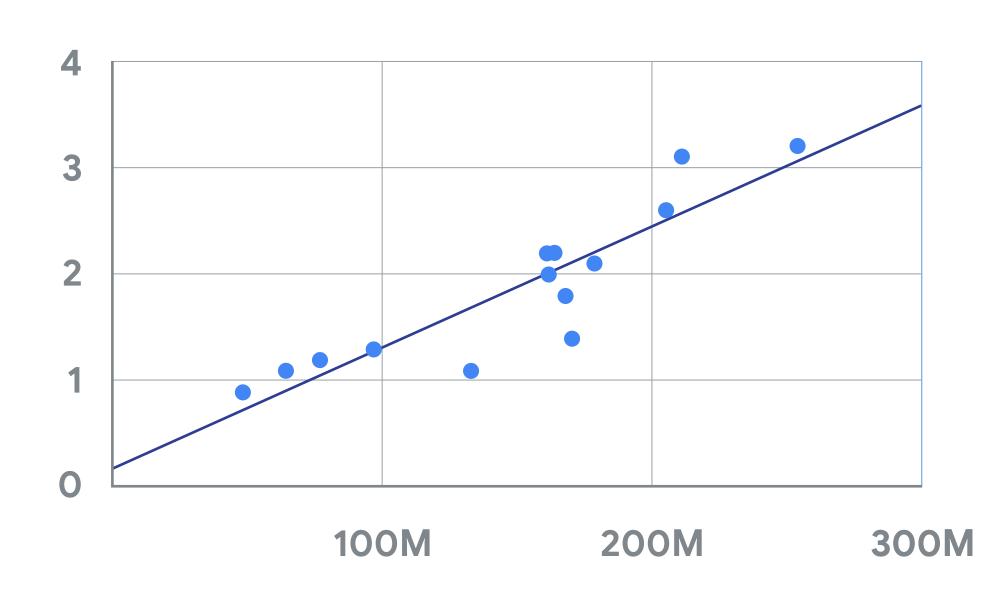


Time spent on apps (hours)

- GMV (\$B) - R<sup>2</sup> = 0.904

#### Ride Hailing - Monetization vs Time Spent

Southeast Asia, Q1 2016-Q2 2019

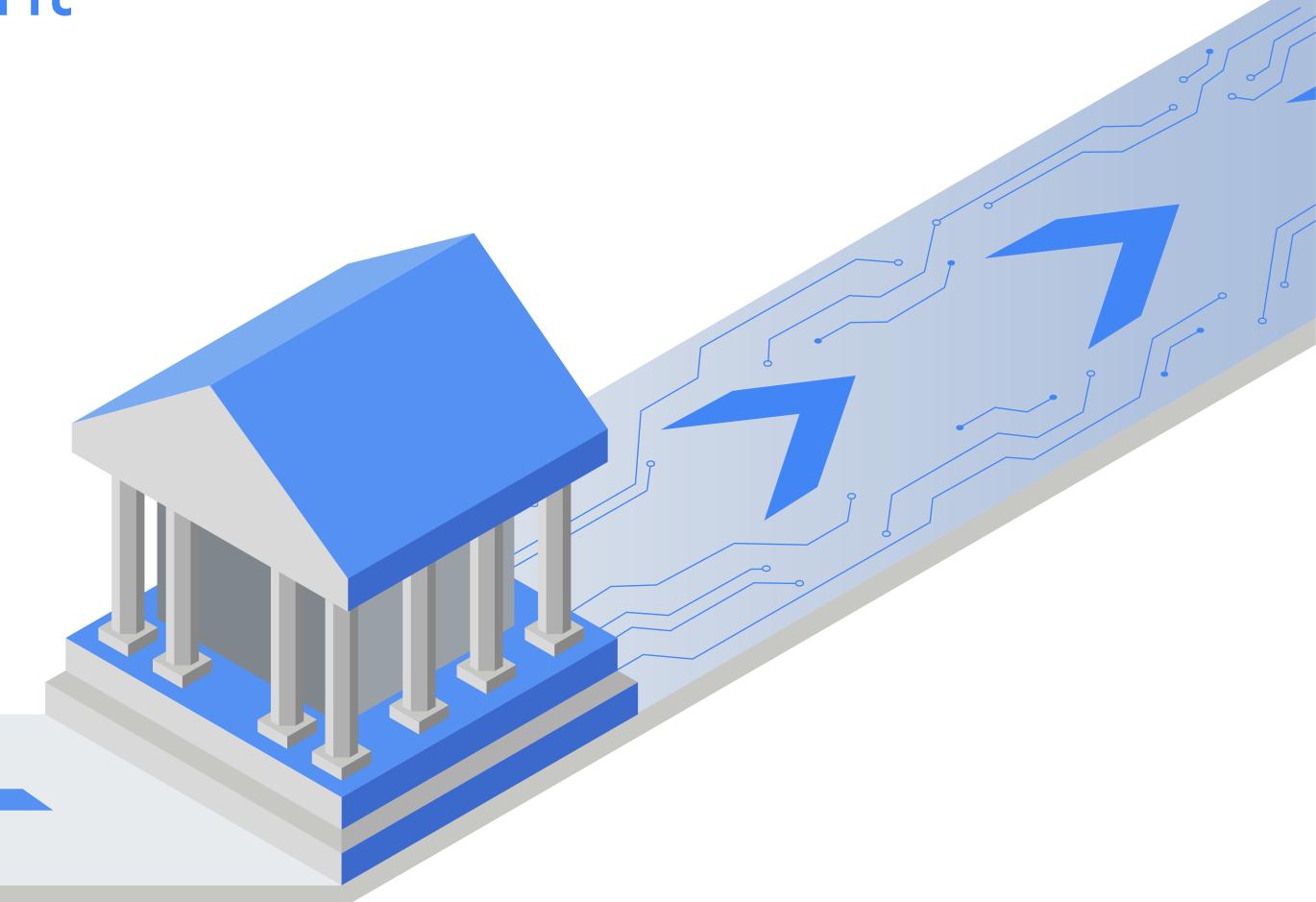


Time spent on apps (hours)

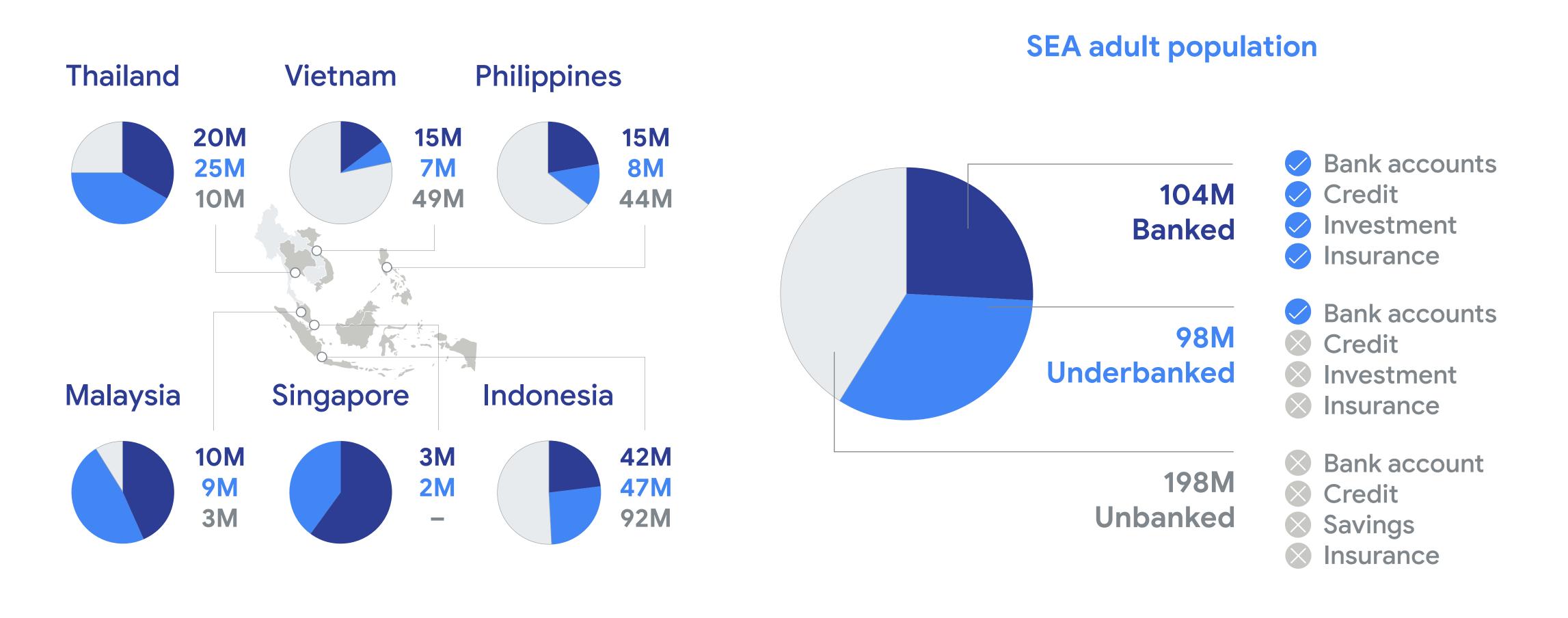
- GMV (\$B) - R<sup>2</sup> = 0.806

Monetization (GMV, \$B)

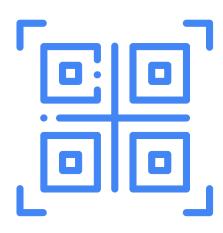
# Digital Financial Services reach the inflection point

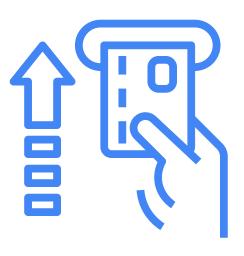


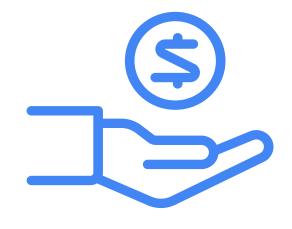
# Today, 3 in 4 people in Southeast Asia have insufficient access to financial services



# Digital Financial Services can meet needs with products enabled by technology and data











#### **Digital Payments**

All form of payments (account to account cards, e-Wallets) excluding cash

#### **Digital Remittance**

Remittance through digital channels, no in-person interactions

#### **Digital Lending**

Lending through digital channels, no in-person interactions

#### **Digital Investment**

Investments through digital channels, no in-person interactions

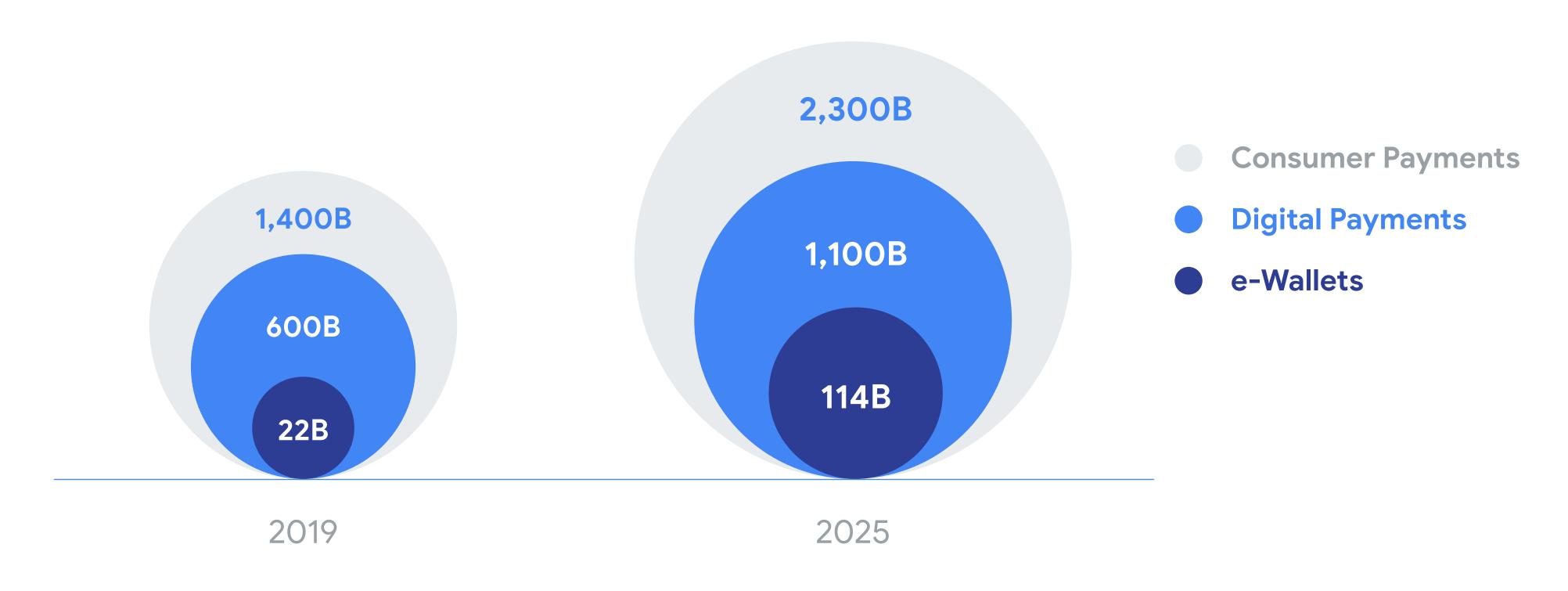
#### **Digital Insurance**

Insurance through digital channels, no in-person interactions

Payments: Consumer to business (C2B) payments in cash, debit / prepaid / credit cards, e-Wallets, account-to-account; Remittance: Consumer to consumer (C2C) transfers across borders; Lending: Consumer loans (excluding housing) and SMB loans (Small & Medium Business); Investment: Personal investments in mutual funds; Insurance: Life insurance, Health insurance, General insurance

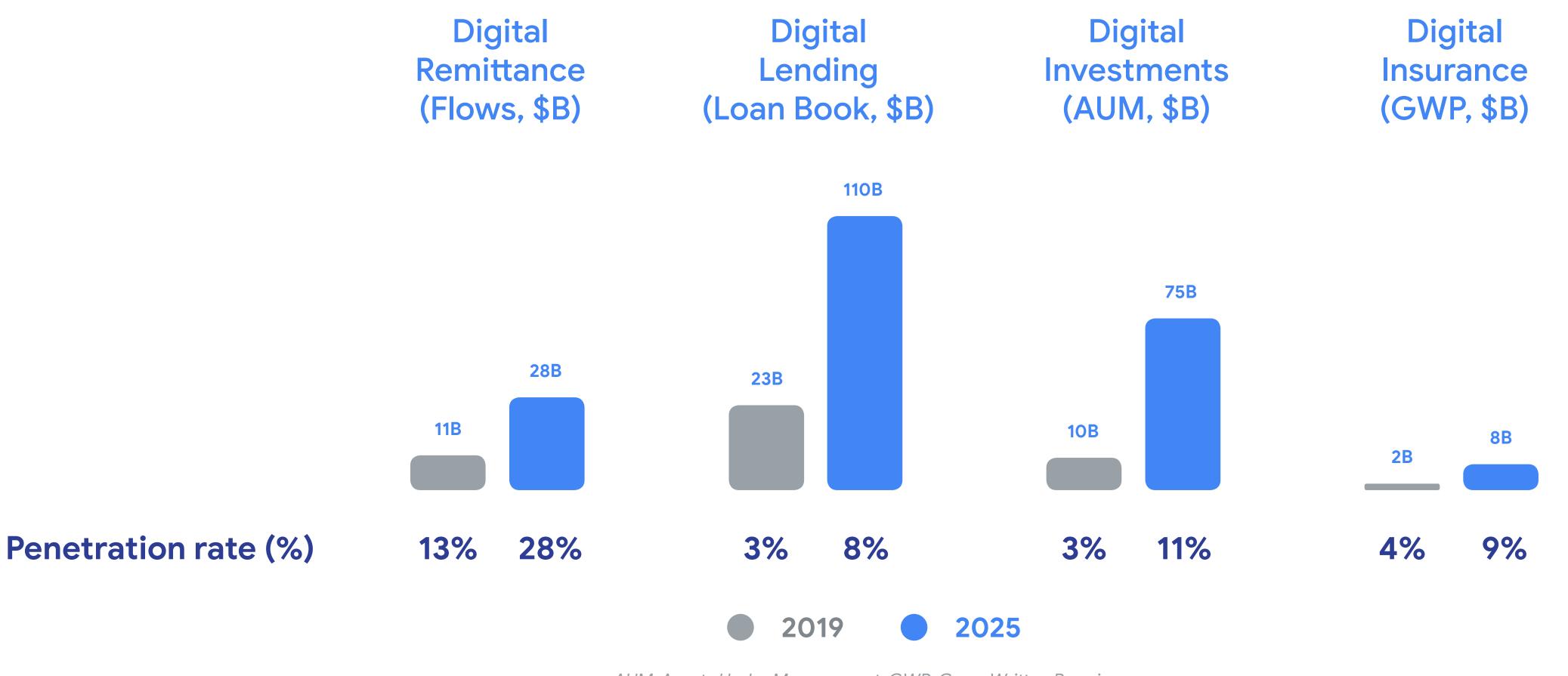
### Digital Payments on track to exceed \$1 trillion by 2025

#### **SEA Consumer Payments (GTV, \$B)**



GTV: Gross Transaction Value Source: "Fulfilling its Promise - The Future of Southeast Asia's Digital Financial Services"

### Other Financial Services nascent but gaining adoption

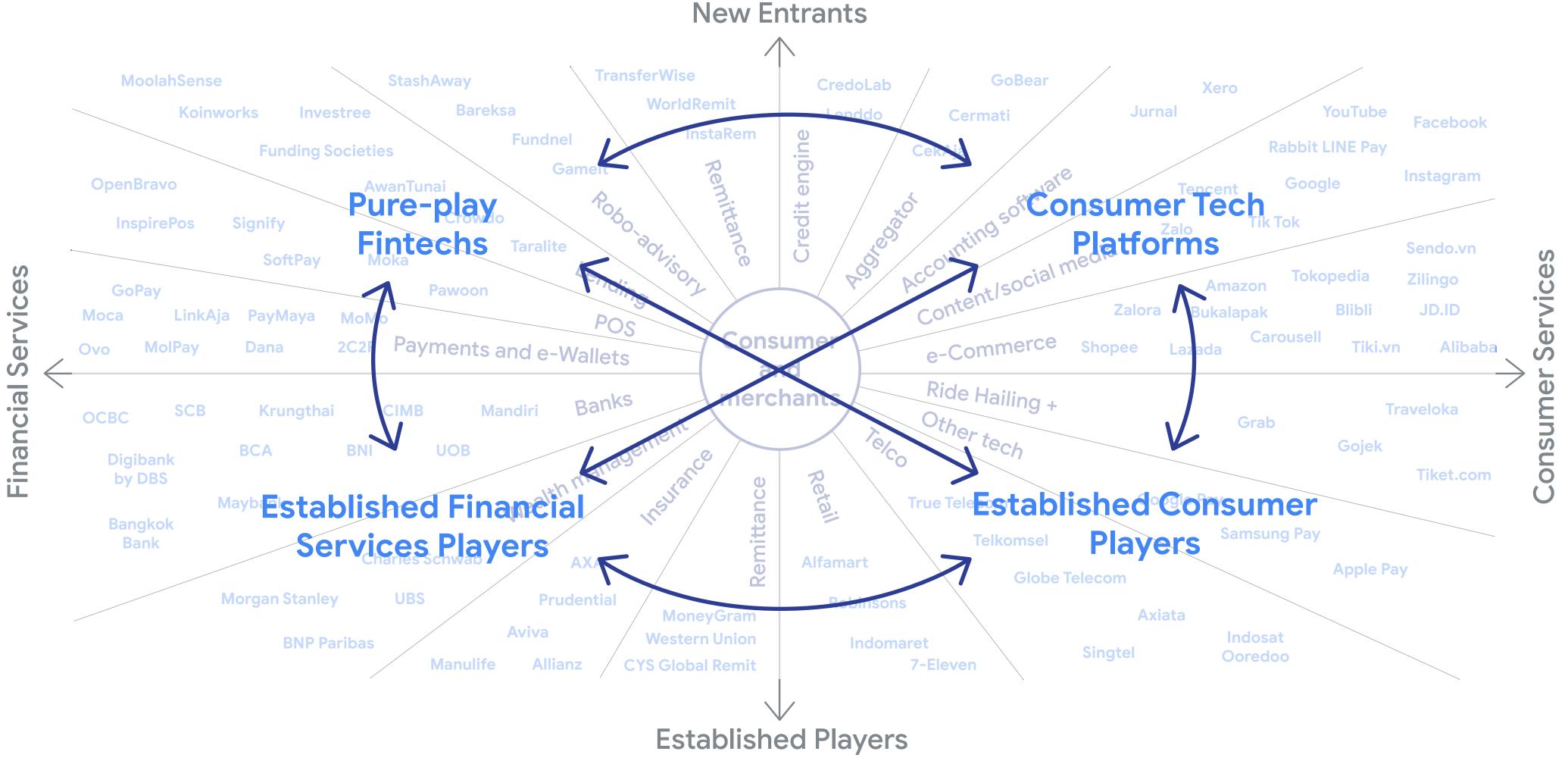


AUM: Assets Under Management; GWP: Gross Written Premiums Source: "Fulfilling its Promise - The Future of Southeast Asia's Digital Financial Services"

# Clear leaders are yet to emerge in Southeast Asia's uniquely diverse and fragmented competitive landscape

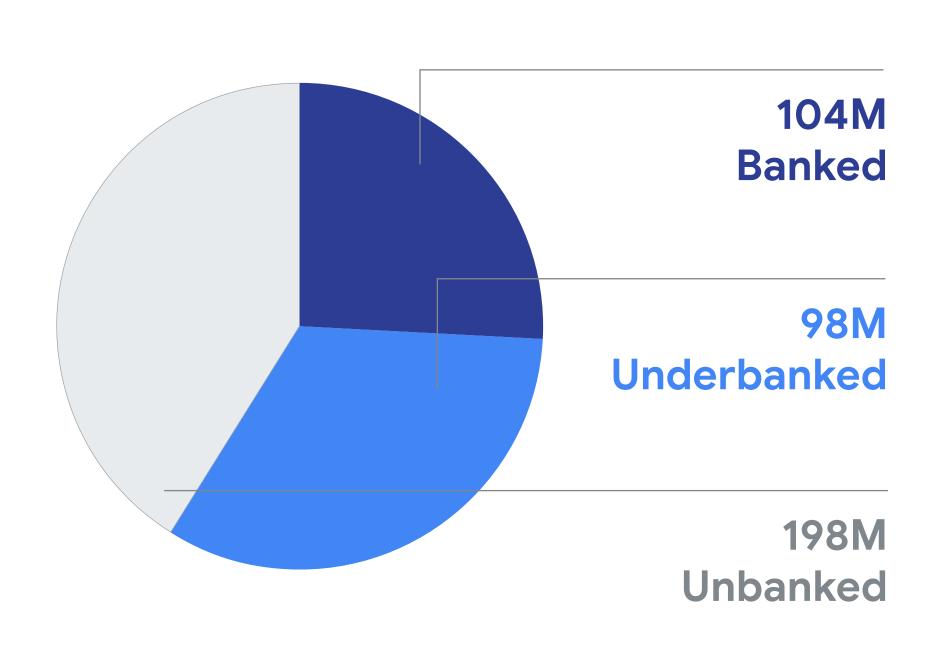


# Established players and new entrants are competing and partnering



# Different solutions to meet the needs of different consumer segments

#### **SEA** adult population



- Stronghold of Established Financial Services Players that have customer relationships, expertise, balance sheet and trust Established Players digitizing faster will have competitive advantage
- Serving the Underbanked is the largest business opportunity

  Technology can reduce cost to serve and solve for lack of data

  Consumer Tech Platforms well positioned to serve the Underbanked
- Fundamentally challenging to serve high CAC, low LTV
  Established Consumer Players have distribution access
  Technology alone is not enough, affirmative policies required

### Key ingredients to unlock Digital Financial Services







#### Supportive regulations

Consistent and predictable

Common standards

Regulatory sandboxes

#### Consumer trust

New Entrants partnering with Established Players

World class cybersecurity standards for all players

Treatment of Personally Identifiable Information

#### **Funding**

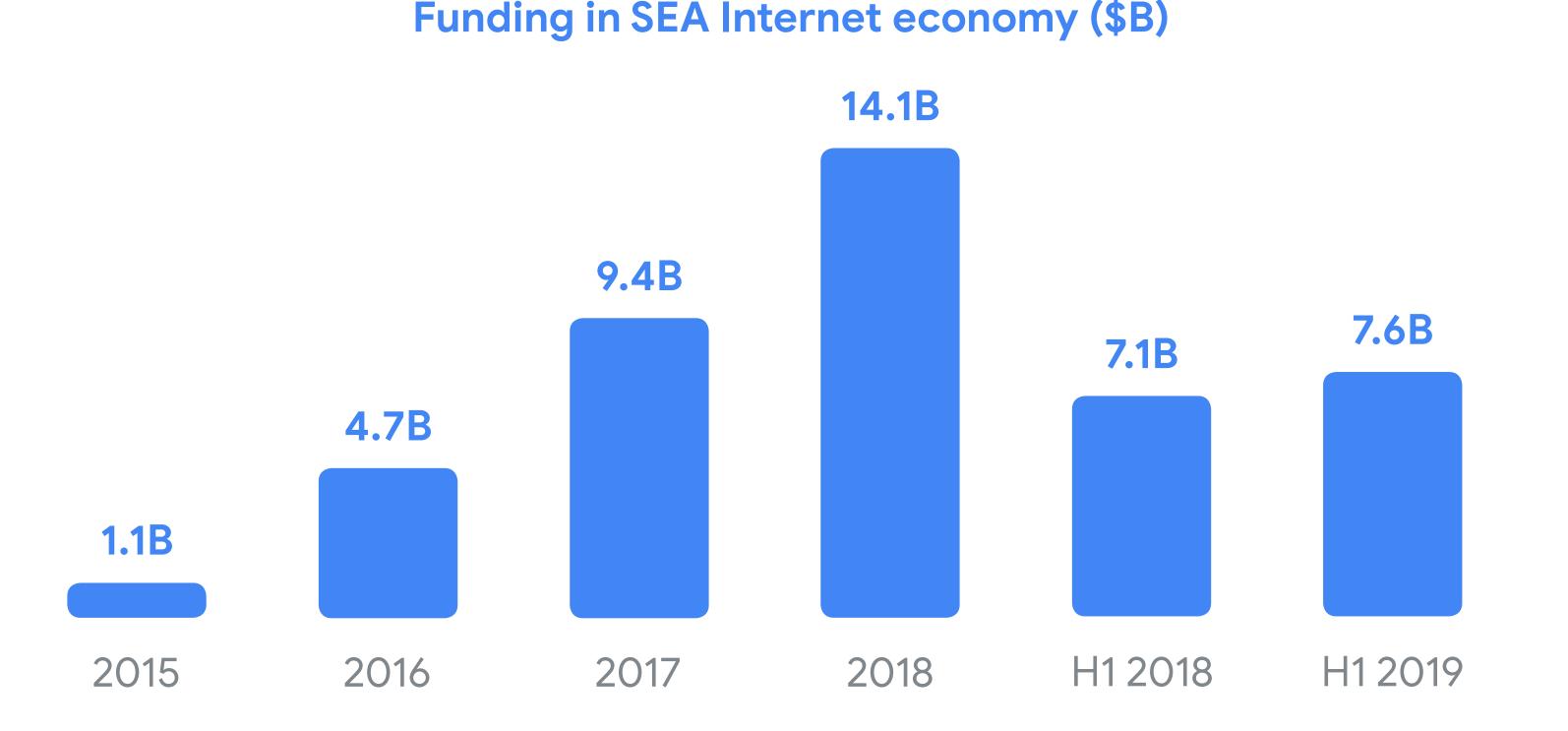
Acquiring new customers, promoting trial and usage

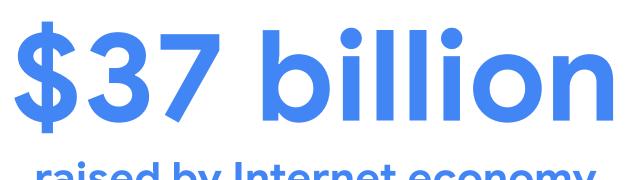
Investments to digitize legacy IT systems

Balance sheet capacity for banking and lending



### Funding remains healthy despite global headwinds

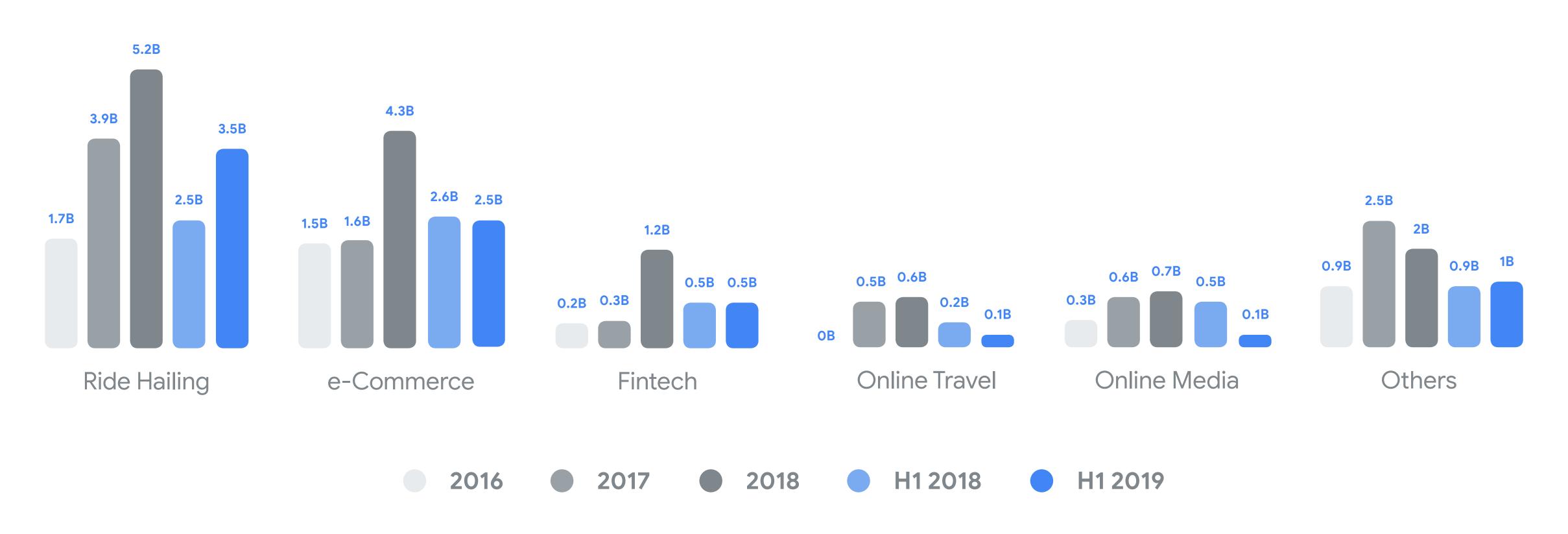




raised by Internet economy companies in Southeast Asia between 2015 and H1 2019

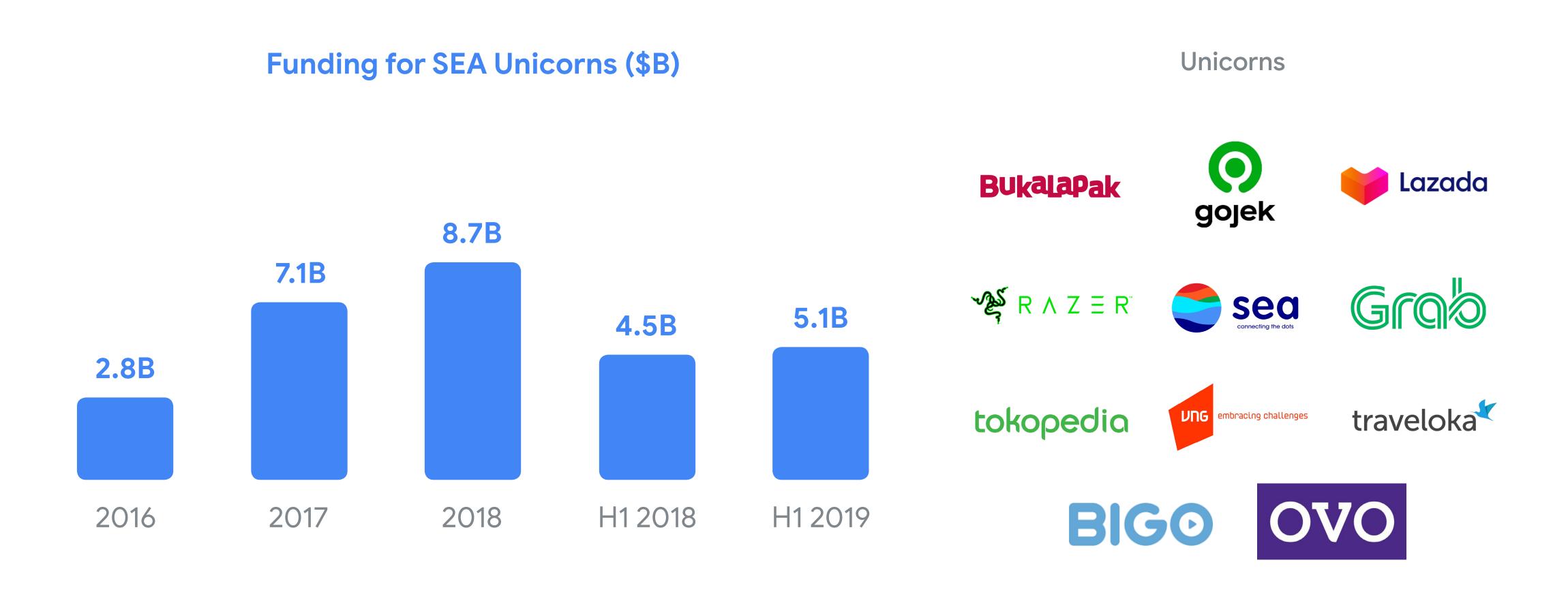
### e-Commerce and Ride Hailing raised 2 in 3 dollars

#### Funding in SEA Internet economy (\$B)



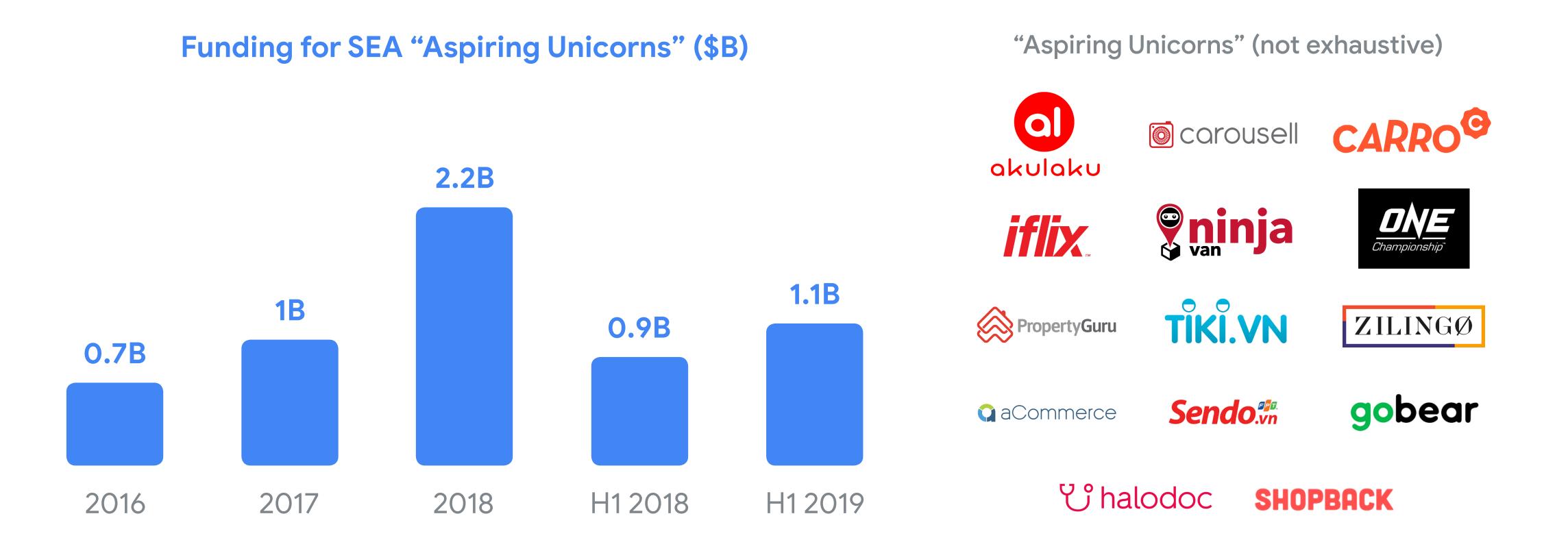
Funding includes Internet companies operating in sectors covered by the e-Conomy SEA research and other nascent Internet economy sectors

### \$24B invested in Southeast Asia's 11 Unicorns



Unicorns refer to companies valued > \$1B. Definitions are based on information made publicly available by the companies and do not constitute a confirmation of the company valuations. Some of the Unicorns have since become public companies or have been acquired. We continue to refer to them as Unicorns for editorial purposes

# \$5B invested in more than 70 "Aspiring Unicorns"



<sup>&</sup>quot;Aspiring Unicorns" refer to companies valued \$100M-\$1B. Definitions are based on information made publicly available by the companies and do not constitute a confirmation of the company valuations

# \$7B invested in nearly 3,000 startups

#### Funding for SEA startups (\$B)

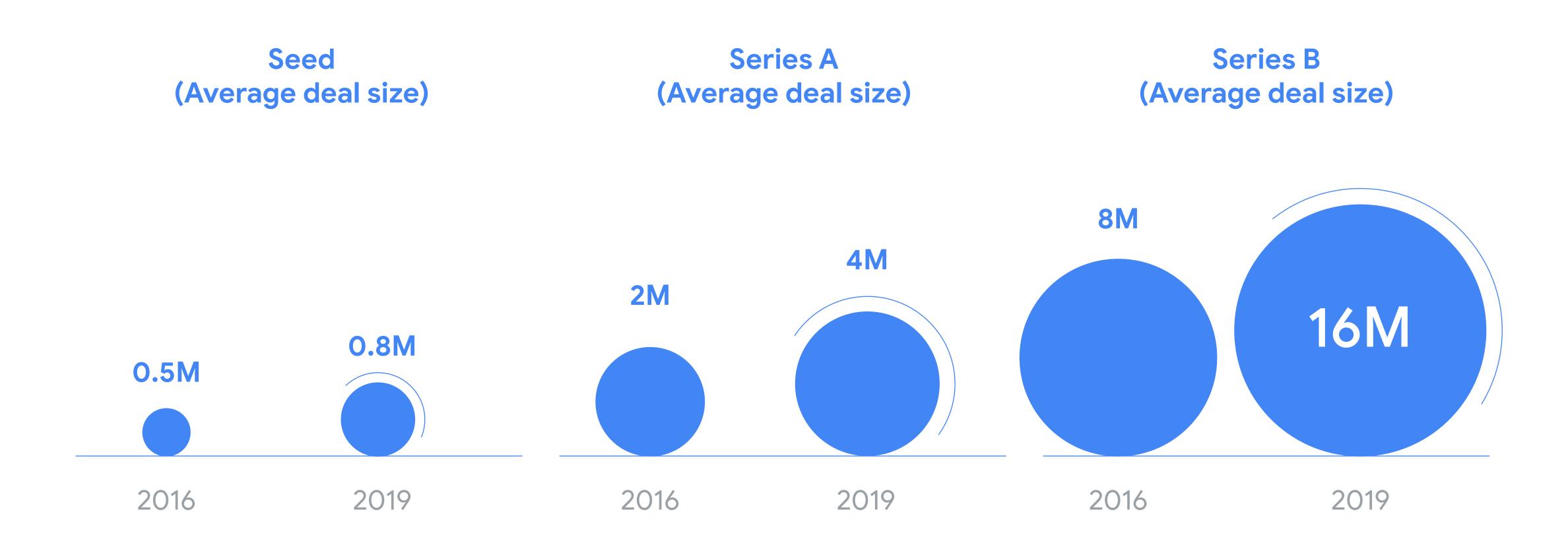


Average deal size doubled over the last 3 years in Seed, Series A, Series B

Most startups active in B2B, Edutech, Healthtech, e-Commerce services, Fintech

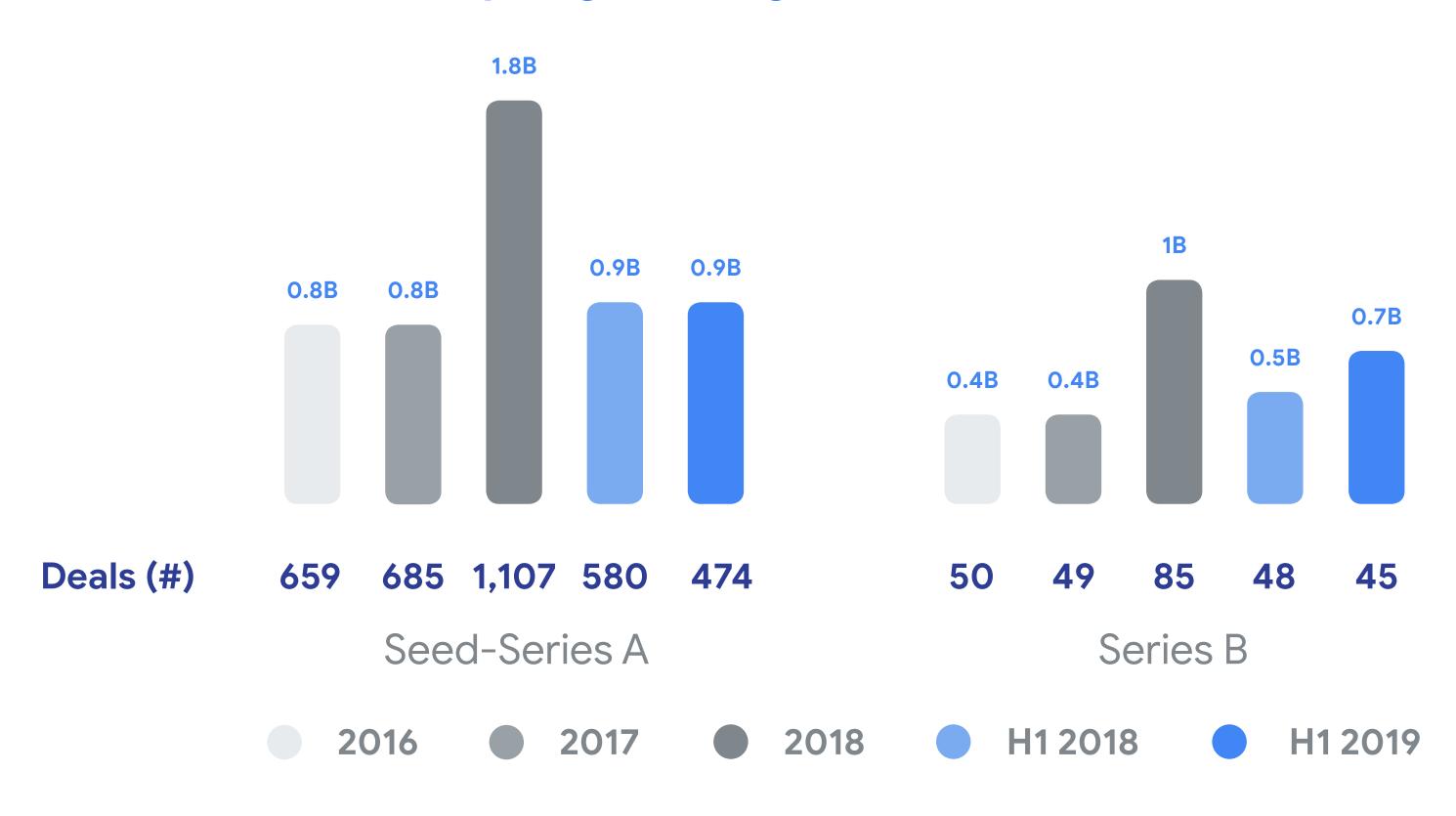
Startups refer to companies valued <\$100M, Definitions are based on information made publicly available by the companies and do not constitute a confirmation of the company valuations

### Average deal size has doubled over the last 3 years



### Early stage funding on track to top 2018 record





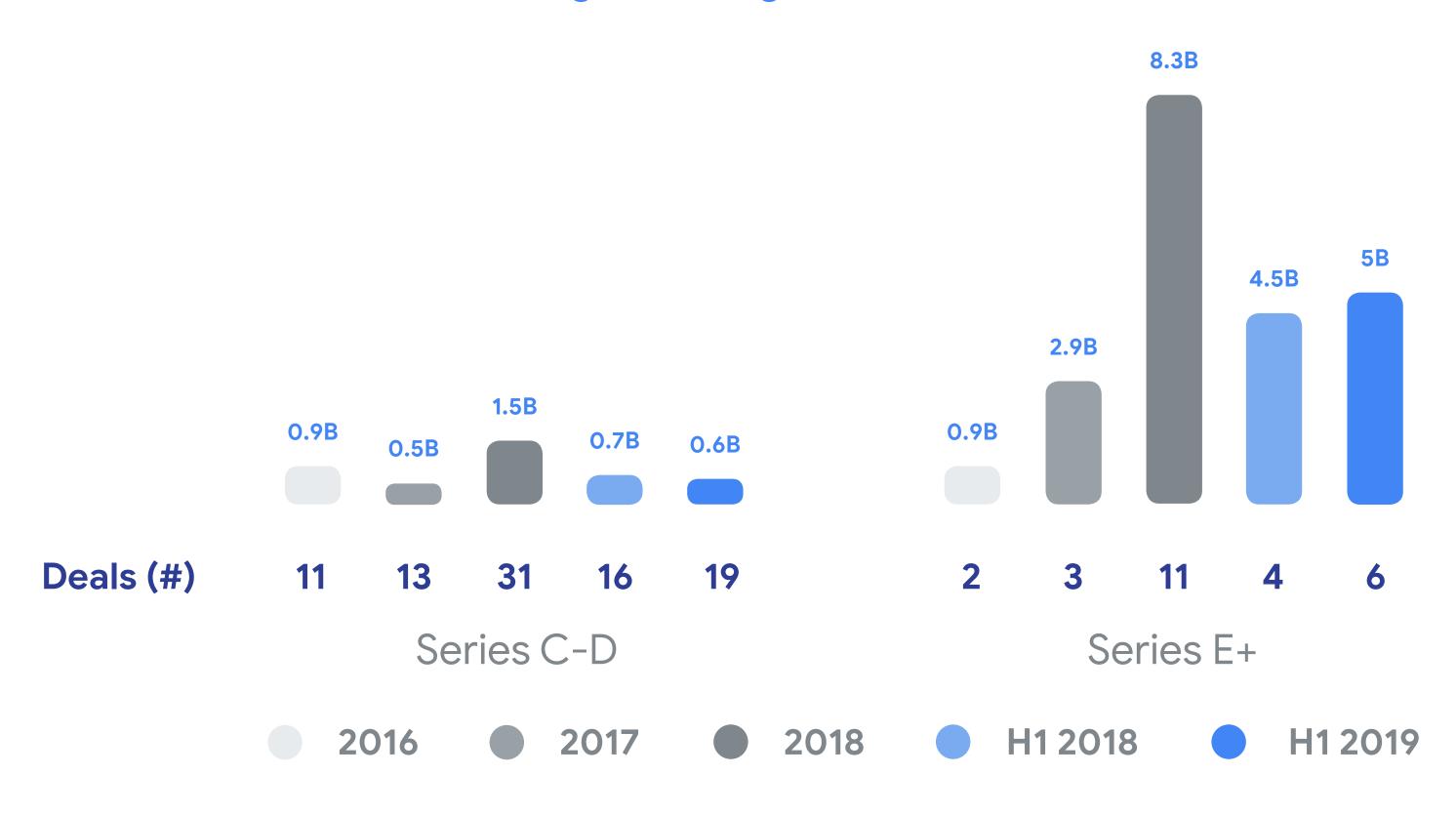
Funding in Seed-Series A and Series B tops 2018 record

Fewer yet larger Seed-Series A deals as ecosystem matures

"Series B" funding gap solved

### Late stage "funding gap" has shifted to Series C-D

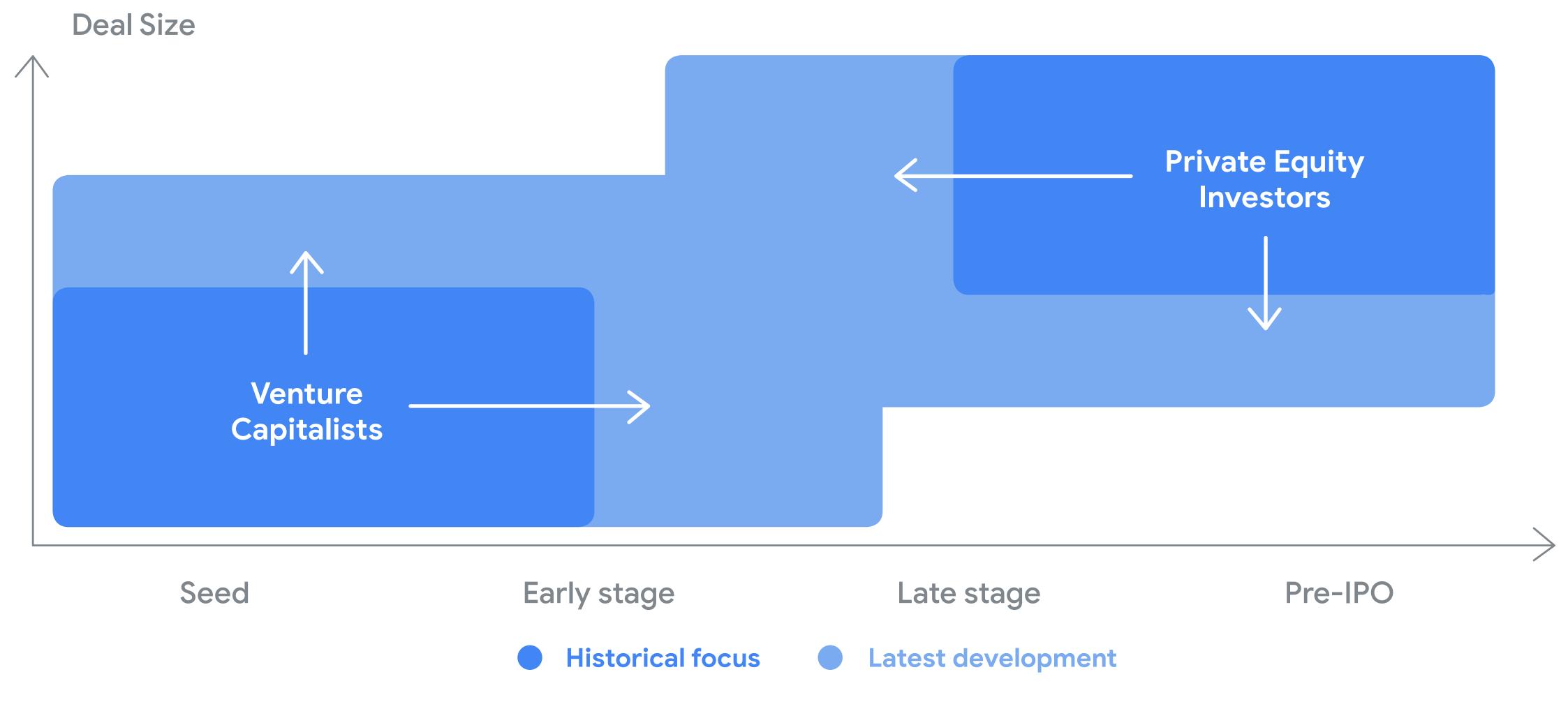
#### **Late stage funding (\$B) 2016-H1 2019**



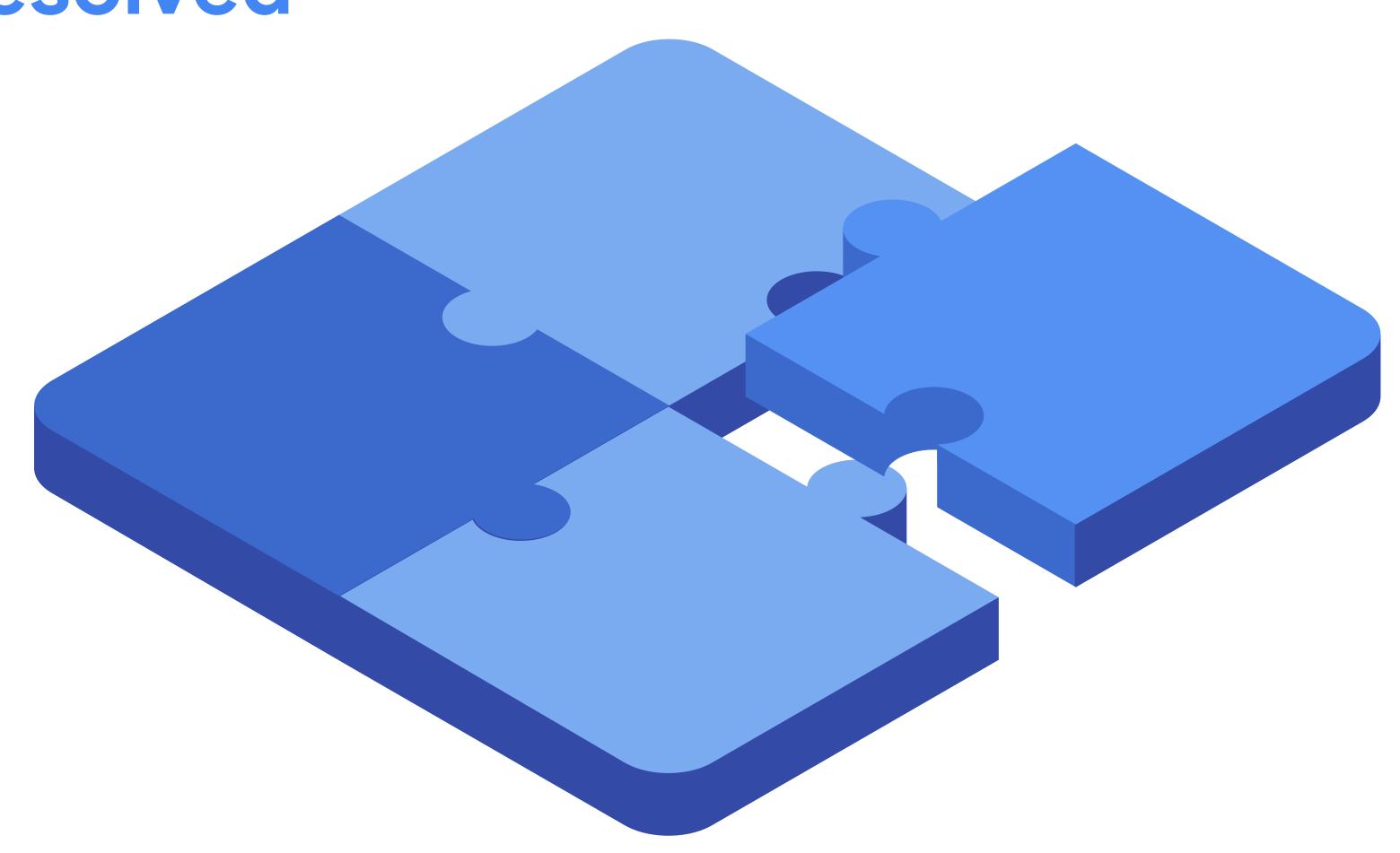
More and larger Series C-D investments needed for "Aspiring Unicorns" to scale

Series E+ boosted by Ride Hailing and e-Commerce mega-rounds (\$1B+)

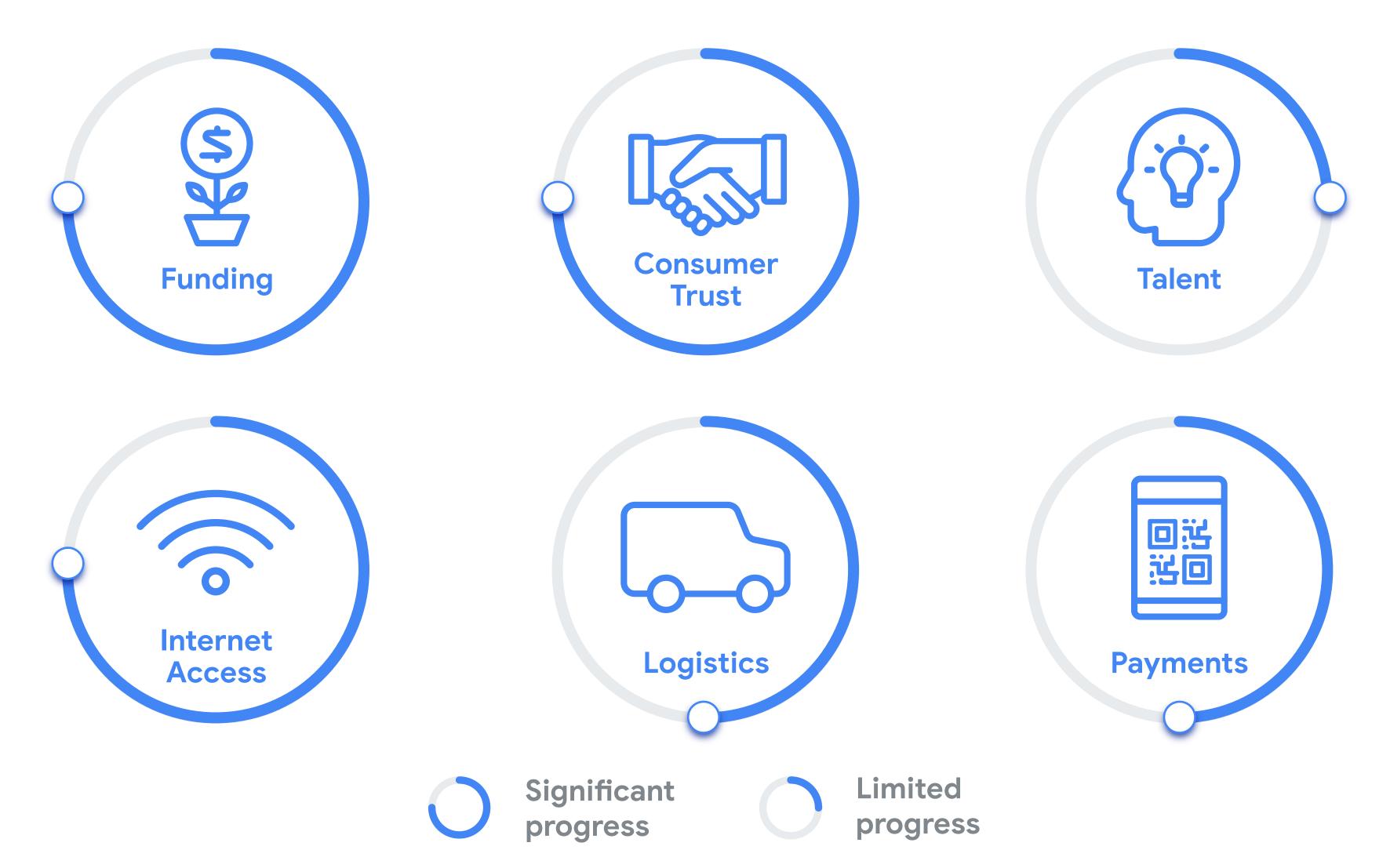
# Venture Capitalists are raising larger growth funds, Private Equity funds are investing in earlier series



Ecosystem challenges are being resolved



## Ecosystem challenges are being resolved



#### Consumer Trust significantly improved across sectors



Improved consumer trust for e-Commerce, Ride Hailing, Media, Travel; still nascent for Education, Healthcare

Internet economy companies have become "household brands"





# Efforts by tech and telco companies have made fast Internet Access more reliable and affordable



Launch of Mobile Virtual
Network Operators (MVNOs)
increased competition

Music, Video, Social apps bundled in zero-rated plans

Optimized apps for low data usage and patchy connectivity





# Leading Logistics providers able to deliver nationwide, race is moving to next-day and same-day deliveries



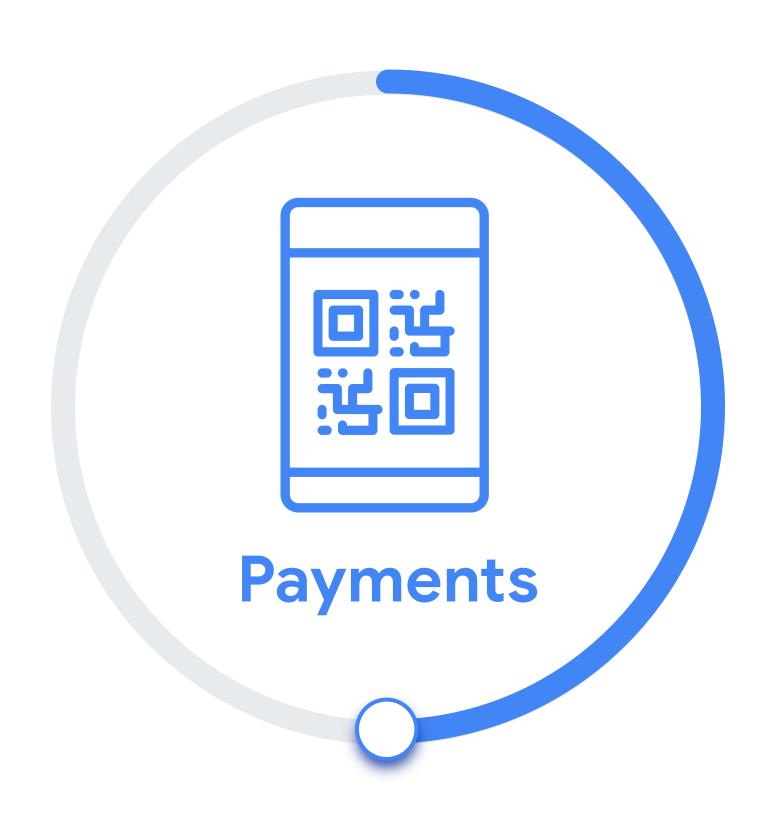
e-Commerce players have started offering next-day and same-day deliveries

Logistics startups signed partnerships with leading e-Commerce and Ride Hailing players





#### Digital Payments gain both user and merchant adoption



Growing merchant acceptance online and offline

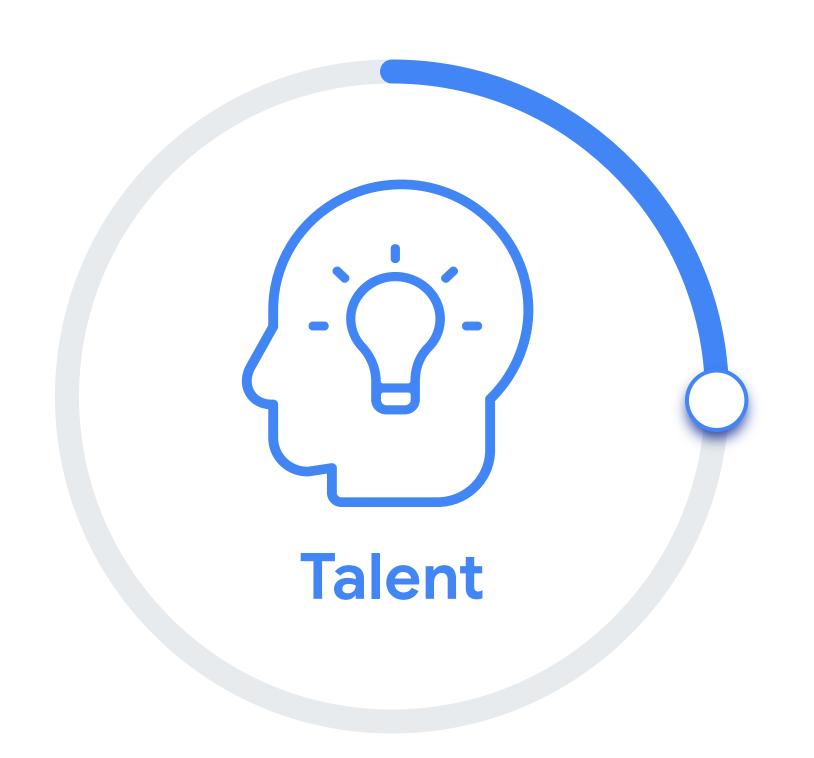
Consumer adoption focused on top e-Wallets in each country

Loyalty and rewards programs emerge as key drivers of usage





### Talent remains a challenge despite efforts to "fill the gap"



Digital upskilling programs

Offshore engineering centers

Hiring experienced managers from other industries

"Reverse diaspora" of Southeast Asian talent







Key takeaways e-Conomy SEA 2019

#### e-Conomy SEA 2019 key takeaways



Southeast Asia's Internet economy hits \$100 billion



Indonesia and Vietnam pull away from the pack



Sizable growth opportunities Beyond Metros



Digital Financial Services reach the inflection point



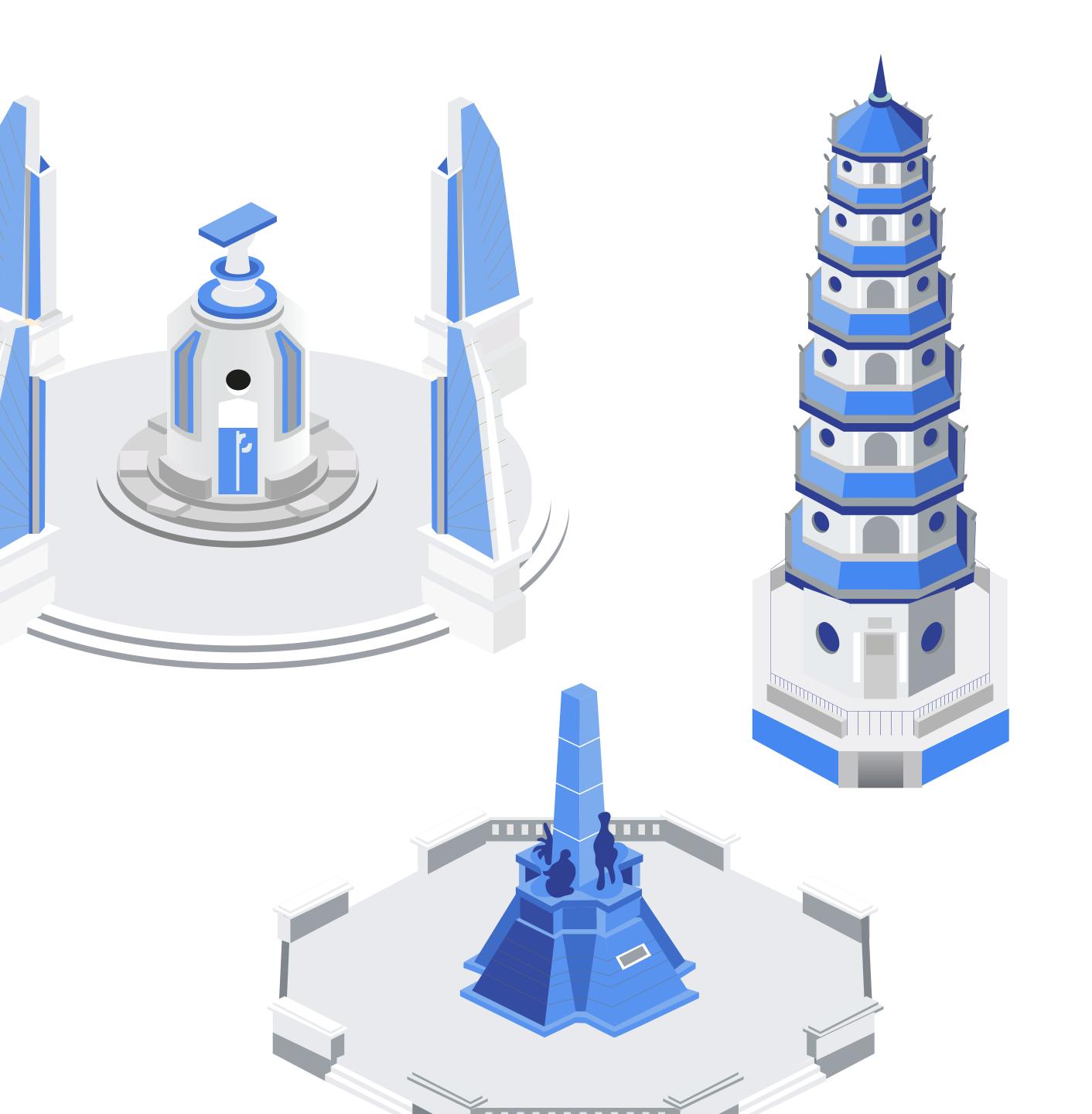
Funding remains healthy despite global headwinds

## e-Conomy SEA 2019

Swipe up and to the right: Southeast Asia's \$100 billion Internet economy

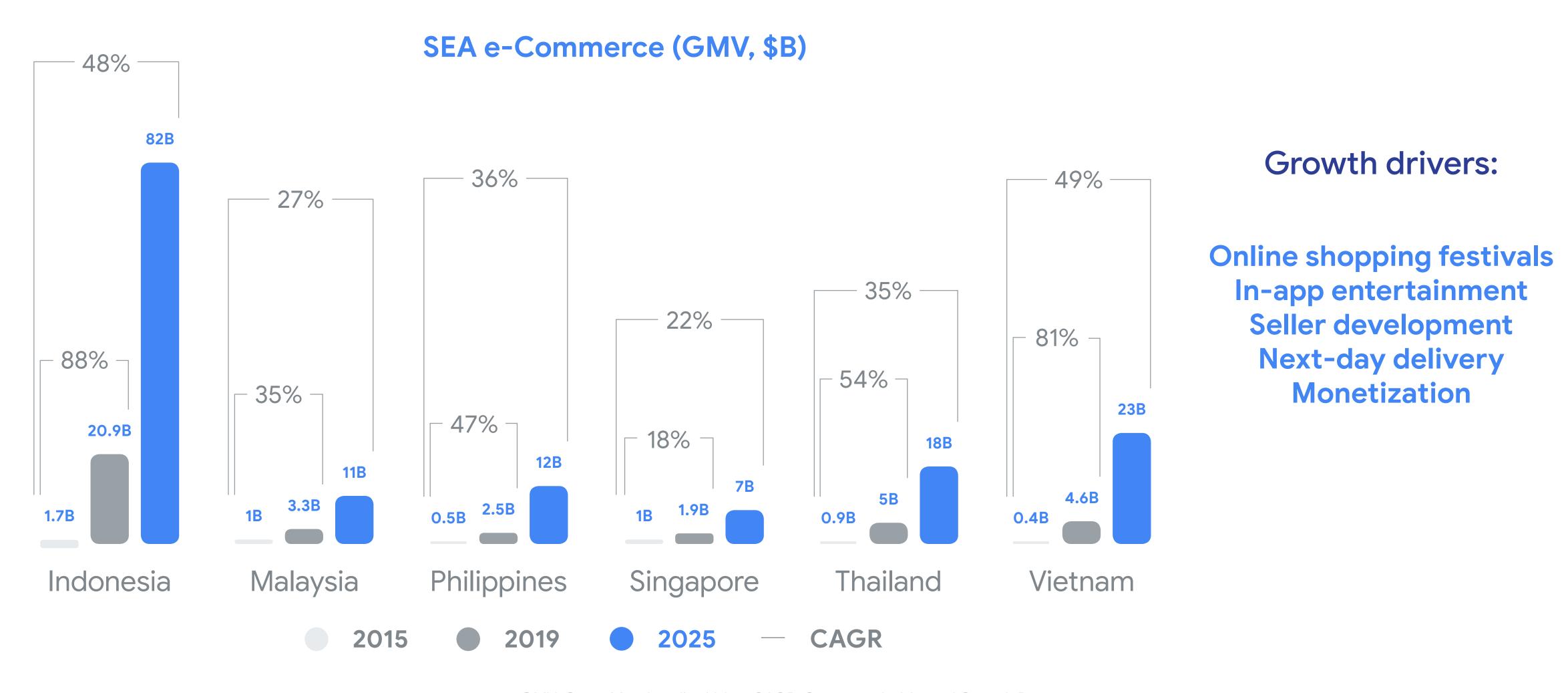
Google





Appendix Sectors by country

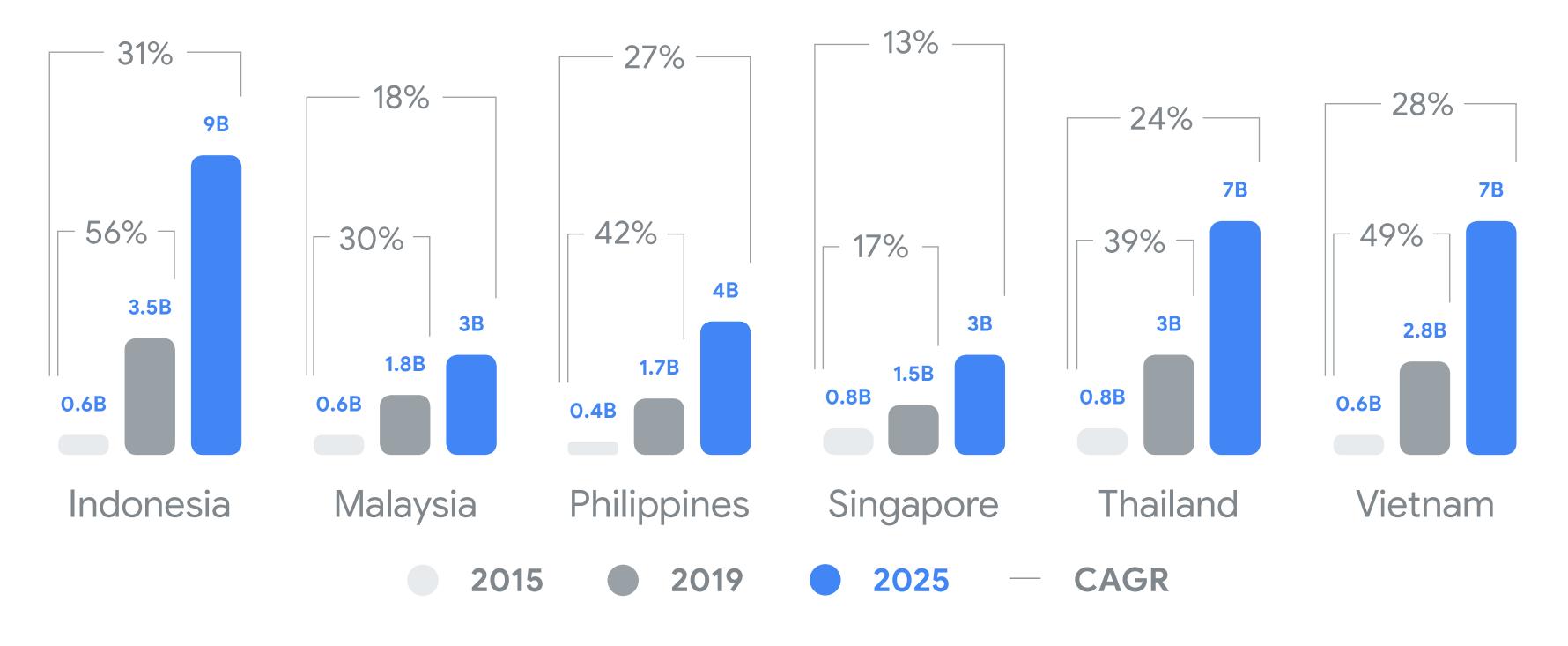
### e-Commerce reaches \$38B, growing at 62% CAGR



GMV: Gross Merchandise Value; CAGR: Compounded Annual Growth Rate

## Online Media crosses \$14B, rising at 39% CAGR

SEA Online Media (GMV, \$B)

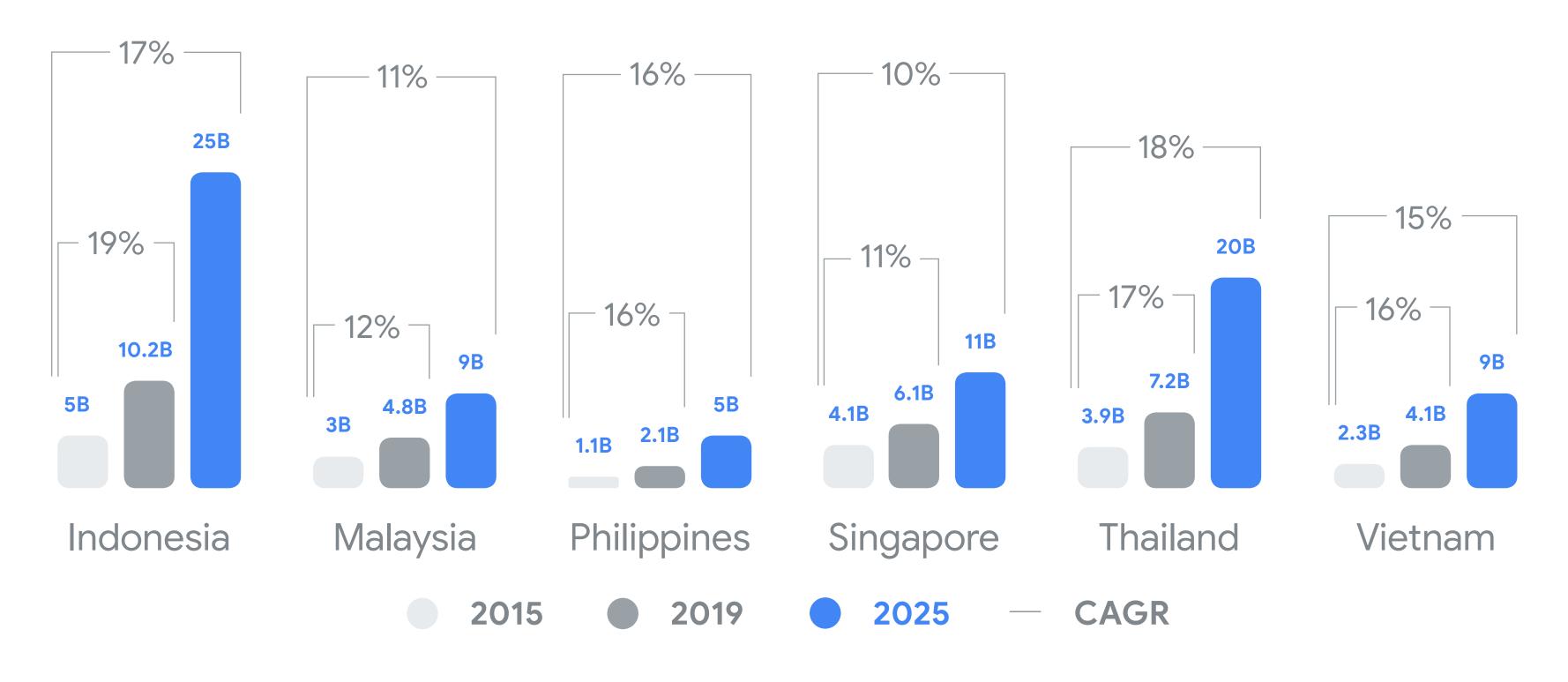


#### **Growth drivers:**

Internet user growth Live & short-form videos **Local content creators** Lifetime value (LTV)

### Online Travel exceeds \$34B, increasing at 15% CAGR

**SEA Online Travel (GMV, \$B)** 



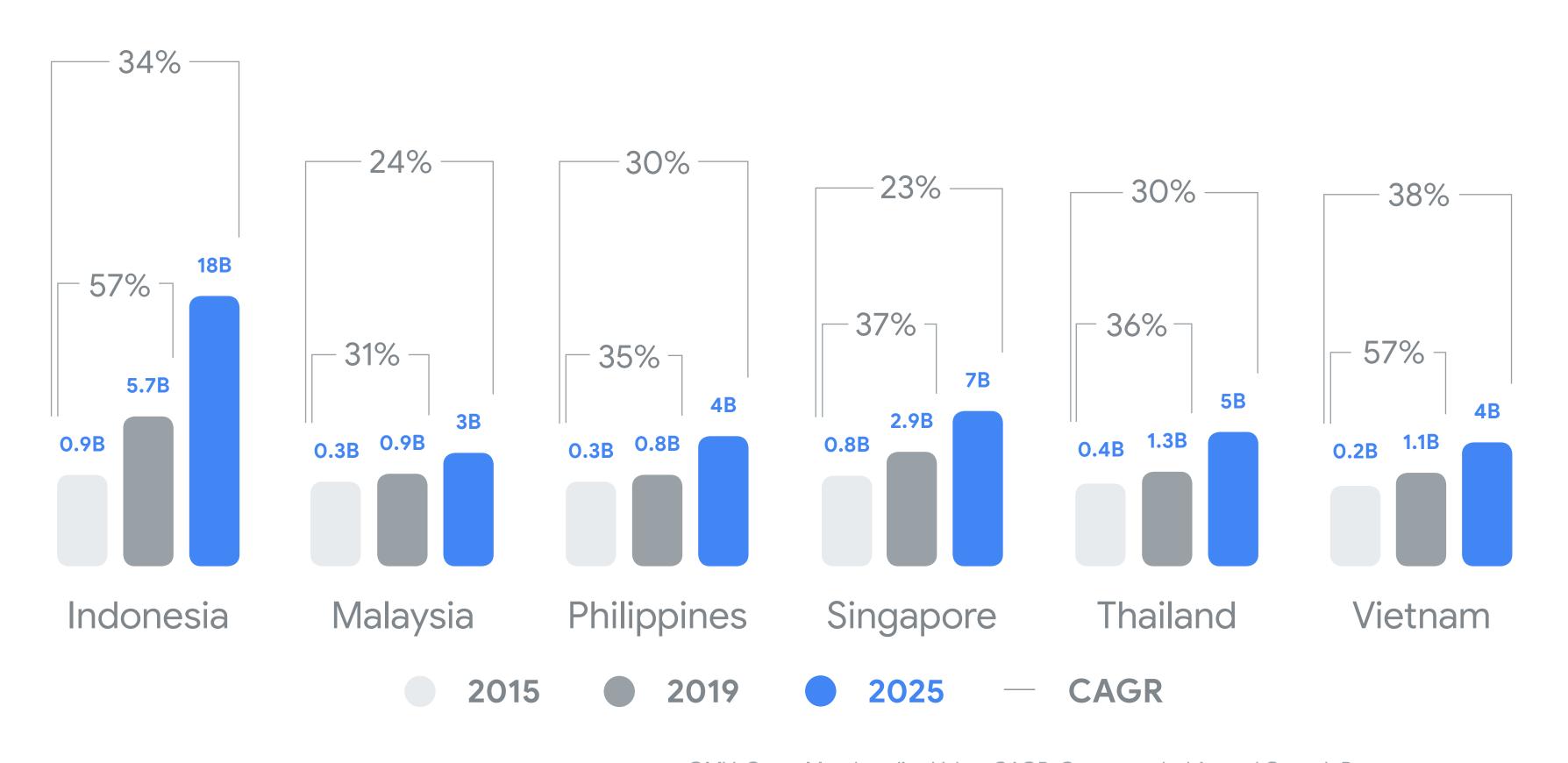
#### **Growth drivers:**

Vacation rental brands
Budget hotel chains
Experiences
Partnerships

GMV: Gross Merchandise Value; CAGR: Compounded Annual Growth Rate

### Ride Hailing approaches \$13B, advancing at 45% CAGR

#### SEA Ride Hailing (GMV, \$B)



#### **Growth drivers:**

Food delivery **Financial services Loyalty & rewards Driver development Profitability** 

## e-Conomy SEA 2019

Swipe up and to the right: Southeast Asia's \$100 billion Internet economy

