

Sea Ltd. (NYSE:SE) BUY: US\$51.88 (+34.42%)

Chong Shao Xuan Jerome - Analyst

Date: 1st December 2023

Basic Information	
Bloomberg Ticker	NYSE : SE
GICS Sector	Communication Services
GICS Sub - Industry	Home Entertainment
Last Closed Price	US\$38.60
12M Target Price	US\$51.34
Potential Upside	33.00%

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Company Description

Sea Limited is a leading global consumer internet company founded in Singapore in 2009. The company operates 3 core businesses across digital entertainment, e-commerce, and digital payments and financial services, known as Garena, Shopee, and SeaMoney, respectively. Operating markets are EMs, particularly in Southeast-Asia and Latin America regions.

Key Financials				
Market Cap			US\$ 20.75	5b
Basic Shares 0/5	S		521m	
Free Float			11.22%)
52-Wk Low-Hig	h	USS	\$ 34.9 -USD	\$ 88.84
Fiscal Year End			31-Dec-20	23
(USD\$ M)	FY19A	FY20A	FY21E	FY22E
Revenue	2,175	4,376	9,955	12,450
Gr Rate (%)	163	101	128	25
Gross Profit	605	1,349	3,896	5,185
Margin (%)	28	31	39	42
Operating	(891)	(1,303)	(1,583)	(1,488)
Margin (%)	(41)	(30)	(16)	(12)
D/E	3.5	2.1	1.5	2.0

Key Executives	K	ley	Exe	ecu	tiv	es
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Forrest Li	Chief Executive Officer
Tony Hou	Chief Financial Officer
Gang Ye	Chief Operating Officer
Feng Zhimin	Group President
Chen Jingye	Chief Product Officer
Yanjun Wang	Chief Corporate Officer
Feng Zhao	President of Garena

I am initiating coverage of **Sea Limited (NYSE: SE)** with a **BUY** rating and a **\$51.34** 12M target price as at the date of coverage, representing an upside potential of **+33.00%**. The implied share price was derived using the Discounted Cash Flow (DCF) approach utilizing the Perpetuity Growth Method for a 5-Year forecast period.

Investment Thesis

Theme 1 - Strong Recovery Play, Undervalued Growth prospects:

Former Wallstreet darling now **90%** off its highs of US\$366.99, is poised for a great comeback story as management fixes focus on stable profitability and stricter cost management.

Theme 2 – *Overlooked Prospects, Future of SeaMoney:* SeaMoney recently blew analysts estimates away with reported figures with a **+37%** YoY increase in top-line to over **US\$ 446.2m** as of the latest quarter Q323. This makes up for almost **14%** of the company's revenue and with recent developments in primary markets of SEA and EMs, this could arguably be Sea's most attractive business unit in years to come.

Theme 3 – *Low Leverage and Strong Stance against Gearing:* Sea's long-term solvency is one of the bright spots within their balance sheets, with low leverage ratios along with its strong stance in recent years against taking on long-term debt should look to bolster its financial standing.

Investment Risks

- Tiktok Shop Indonesia merger with GoTo's Tokopedia: The merger would mean a combined market share of 40% in the Indonesian E-commerce Landscape. This could pose to be a major headwind in Shopee's effort to establish itself as the dominant market leader in Indonesia.
- Garena's Lack of Visibility, Strong Games Pipeline:
 Garena's lack of sticky gaming titles has been an evident worry in recent years leading to struggles in keeping up with rivals in Riot and Epic Games.
- Unrestrained Financial Outlay, Unclear Pathway to Sustainable Profitability:
 Sea turned profitable for the first time in Q422 before posting a net loss again in Q323, raising concerns about sustainable profitability.

Catalysts

- India's Reversal on Free-Fire Ban to Boost Top-Line
- Bright Spots in Vietnam and Brazil Markets with Secular Multi-Year Growth Tailwinds
- Fintech's Exponential Growth Set to Benefit SeaMoney



Figure 1: Overview of Sea's Business Segments



Source: Company Investor Presentation

Figure 2: Key Features of Business Units

Feature	Garena	Shopee	Seamoney		
Primary Business Online Games Development & publishing Key Products & Services Capacitation Free Fire. League of Legends, Call of Duty: Mobile		E-commerce platform	Digital Payments. Financing & Digital Banking		
		Consumer Products	ShopeePay, Shopee Partner, SPayLater, Maribank & Seabank		
Target Markets	SEA, LatAM	SEA, LatAM, Taiwan	SEA		
Strengths	Strong brand awareness and recognition, Trending games & Esports expertise	User-friendly interface, wide range of products and instantaneous shipping	Competitive Rates, Strong Integration with Shopee		

Company Overview

Sea Limited is made up of 3 main business segments being Garena's digital entertainment platform (alongside related eSports operations), Shopee's e-commerce platform, and SeaMoney's digital financial services. This can be observed in Figure 1. The key features of each business unit can be seen in Figure 2.

<u>Garena – Digital Entertainment</u>

Garena is Sea Limited's digital entertainment arm, offering a variety of online gaming services. Garena's portfolio includes popular games like Free Fire, League of Legends, and Call of Duty: Mobile. The company also hosts esports events and tournaments, and it has a strong presence in Southeast Asia and Latin America. Back in 2022, Garena had to temporarily halt its operations of Free-fire apps in India due to a regulatory ban however, the Indian regulator recently lifted that ban.

Shopee – E-commerce

Shopee is a 3P market-place, operating a B2C/C2C hybrid commerce model It provides a user-friendly marketplace for buying and selling a wide range of products, including electronics, fashion, beauty products, and more. Shopee has become a leading online shopping destination in the regions it serves, offering various features such as secure payment options in ShopeePay, a user-friendly interface, and a robust logistics network for efficient product delivery.

<u>SeaMoney - Digital Financial Services</u>

SeaMoney is the financial services arm of Sea Limited, focusing on digital financial solutions. It offers a range of services, including digital payments, financing solutions, and most recently digital banking arm Maribank & SeaBank. SeaMoney aims to enhance financial inclusion in Sea's primary markets by providing users with convenient and accessible financial tools. Through SeaMoney, users can make online transactions, manage their finances, and access various digital financial services.



Industry Outlook

Here, we look to the 3 main industries being Digital Entertainment, E-commerce and lastly Digital Finance Services.

1) Digital Entertainment

Gaming Leads Digital Entertainment, Set for Rapid Expansion

COVID-19 pandemic spurred growth within media and technology sectors, with Gaming outperforming other segments within the Digital Entertainment market, with an respectable 8% growth rate to reach USD 198 billion valuation [in comparison to TV's 1% decline to USD 408 billion]. In 2022, we approached the endemic phase which meant the end of pandemic shutdowns. This was coupled with Apple's privacy changes affecting mobile gaming advertisements revenues. Growth slowed with market share falling to USD 184.40 billion as mobile gaming accounted for 50% of total revenue. This was of little significance to Garena which prides itself with mainly producing Computer Games.

The industry is set for a strong rebound in the midterm as games become more embedded in everyday life. [Figure 3] The Games Market is poised to experience significant growth with revenues expected to reach a staggering USD 406.2 billion by 2023 and anticipates an appalling compound annual growth rate (CAGR) of 90.6% as such a market volume of USD 626.8 billion by 2028. Within SEA, China is the greatest revenue generator, estimated to bring in USD 112 billion alone in 2023. Furthermore, the number of gamers is projected to soar to 4.4 billion users by 2028 with current user penetration anticipated to be 48.9% in 2023 and gradually increase to 55.5% by 2028. These robust numbers showcases the immense potential and growth prospects of the Games Market in the near future.

Rise of E-sports and Game Streaming

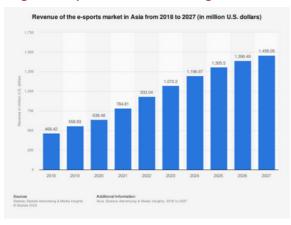
The revenue of the e-sports market in SEA is forecasted to continuously increase between 2023 and 2027 by USD 387.90 million (+36.25 %). [Figure 4] After the ninth consecutive increasing year, revenue is estimated to reach USD 1.5 billion, peaking in 2027. It is projected to do USD 1.07 billion this year and USD 1.46 billion in 2027, presenting a CAGR of 12.02% over 10 years. This is further substantiated by the market share of games revenue worldwide where APAC region takes up almost half of the entire Global Games Market and is projected for rapid growth due to China's boom within the Gaming sector. Garena, being a major player in the gaming industry, can benefit from the growth of esports, leading to increased player engagement, higher user acquisition and potential monetization through E-sports-related content and events.

Figure 3: Global Players by Region in 2023



Source: Newzoo, 2023

Figure 4: E-sports market in APAC region 2018-2027



Source: Statista, 2023

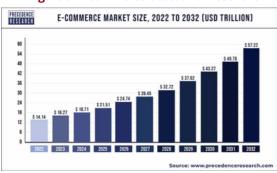
Page 2 **Research Department**



Figure 5: Garena's Free-Fire



Figure 6: E-commerce Global Market Share



Source: Precedence Research

Figure 7: E-commerce expected to rise at 11% CAGR over FY23F-25F



Source: Google, Temasek and Bain, DBS Bank

Figure 8: On-demand sector expected to rise at 9% CAGR over FY23F-25F



Source: Google, Temasek and Bain, DBS Bank

E-sports viewership drives game popularity especially for Garena's top hits such as Free-Fire [Figure 5] and Call of Duty. As these Esports tournaments attract greater viewership, interest in playing these titles will also surge, leading to increased user engagement and monetization. Game Streaming, through platforms like Twitch and YouTube Gaming, has become a dominant force. Influential streamers and content creators can significantly impact game sales and popularize specific titles. This has led to a shift in marketing strategies, with companies investing in partnerships with popular streamers such as Fortnite employing the same tactic with Ninja. It amplifies exposure with popular streamers which by showcasing Garena's game on platforms such as Twitch, allows it to expand their reach and attract a new pool of gamers. The APAC region is one of the fastest growing markets in the world and the increased audience that E-sports and Game Streaming are bringing will only further spur growth within revenue streams such as game sales, ingame purchases and advertising.

2) E-commerce

Outlook for APAC retail market remains upbeat

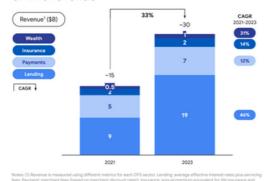
The global retail E-commerce market is projected to grow from USD 16.27 trillion in 2022 to USD 57.22 trillion in 2032 [Figure 6], expanding at a CAGR of 15%. This growth is unlikely to be impeded in future years due to consumers' increasing dependency on virtual platforms due to the convenience and accessibility it brings about. APAC is expected to dominate the market over the forecasted period. The market growth in the region is attributed to the growing urbanization and increasing investment in network infrastructure especially in the countries like India, China and Japan. For instance, as per United Nations Human Settlements Program, in APAC, urbanization is still a defining megatrend. Asia is home to more than 2.2 billion people or 54% of the world's metropolitan population. APAC accounted for 57.4% of the global E-commerce market in 2019, with China being the leading market - China currently has more than 800 million internet users that contribute to its global market share of over 50%.

Exponential Growth potential for E-commerce vs On-demand in SEA

The E-commerce penetration in SEA stands at only 23% in 2023, significantly lower than China's 46%, indicating a substantial scope for expansion and growth within the SEA region. Euromonitor predicts that by 2025, SEA's E-commerce penetration will rise to 27%, while the US and China are expected to reach 28% and 49%, respectively, showcasing a need for SEA penetration to grow faster. Recently released Google, Temasek & Bain report projects gross merchandise value (GMV) CAGR of 11% for ASEAN e-commerce vs 9% CAGR for on-demand over 2023-2025 [Figure 7 & 8].

Figure 9: Revenue Streams within Digital Financial Services Sector

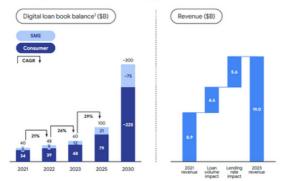
Lending is the single biggest driver of DFS revenue



Source: Google, Temasek and Bain

Figure 10: Digital Loan Book Balance

Digital loans grew rapidly despite the sharp increase in lending rates



Source: Google, Temasek and Bain

Furthermore, E-commerce market share is >6x the size of ondemand sector in ASEAN. Many new players from China are also capitalizing on cross-border trade to rely on cheap products in China to gain market share from price-sensitive ASEAN customers.

The On-demand sector is poised for greater operational headwinds. Businesses face additional regulatory challenges such as compliance with low wage regulations for ride-hailing and food delivery riders. For example, in Singapore, full-time motorcycle delivery drivers are entitled to a minimum monthly gross wage of SGD \$1,750 from 1st March 2023, SGD \$1,970 from 1st July 2023, and SGD \$2,190 from 1st July 2025. In addition, there are varying delivery expectations. On-demand customers expect immediate deliveries, unlike ecommerce customers who are accustomed to longer delivery times. These further substantiates the switch for businesses and consumers alike to e-commerce sites.

3) Digital Finance Services

Disruption of Digital Lending following COVID 19

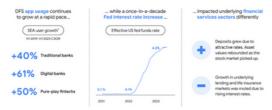
The COVID-19 pandemic had a significant impact on the digital lending market. With lockdowns and social distancing measures in place, traditional lending processes were disrupted, leading to a surge in demand for online financial services. Digital lending platforms experienced a rapid increase in user adoption as individuals and businesses sought quick and convenient access to funds. The pandemic further accelerated the shift towards digital lending, prompting greater innovation and investment in the sector. However, the economic uncertainties caused by the pandemic also introduced challenges such as increased default rates and a need for enhanced risk assessment models. Overall, COVID-19 acted as a catalyst for the growth and transformation of the digital lending market.

The global digital lending market was valued at USD 48 billion in 2022 and grew at CAGR of 26% to USD 60 billion and is projected to reach over USD 300 billion by 2032. In the annual e-Conomy SEA report published by Google, Temasek and Bain in 2023, digital lending alone made out 46% of the entire DFS sector further highlighting the COVID 19 Pandemic disruption. [Figure 9 & 10] Furthermore, Digital Lending is poised to see out tremendous growth despite the high interest rate environment with non-performing loans (NPLs) under control as major fintech powers focus on credit management capabilities. In years to come, Digital lending is projected to be the single largest driver to DFS revenue with elevated lending rates and consumer demand fueling the surge in gross revenue. Singapore is expected to be the leading digital lending market in SEA in 2023 through 2030, with Indonesia being the largest digital payments market.



Figure 11: DFS Adoption

DFS adoption continues to grow healthily in SEA

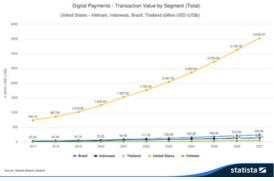


Source: Google, Temasek and Bain

Figure 12: Driving Forces of Digital Lending



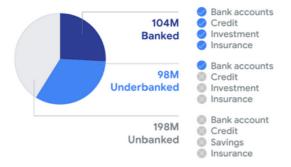
Figure 13: Transaction Value by Digital Payments



Source: Statista, 2023

Figure 14: Over 74% Consumers remains Unbanked or Underbanked

SEA adult population



Source: Google, Temasek and Bain

The digital lending market has witnessed significant growth in recent years, driven by advancements in technology, changing consumer behavior, and increasing demand for convenient and accessible financial solutions. Moreover, the market has seen a surge in online lending platforms, peer-to-peer lending, and mobile lending apps, offering borrowers quick and hassle-free access to loans with minimal documentation requirements. With the rise of big data analytics, artificial intelligence, and blockchain technology, digital lending has become more efficient in assessing credit risk, reducing fraud, and streamlining loan approval processes. Furthermore, the integration of blockchain technology into digital lending has the potential to revolutionize the market by offering decentralized, transparent, and secure lending solutions. In addition, smart contracts, powered by blockchain, can automate loan origination, repayment, and asset-backed securities, improving efficiency, reducing fraud, and lowering costs. Hence, the digital lending market size is poised for continued growth in the future, driven by technology innovation, changing consumer preferences, and expanding market opportunities. The rise in Digital Lending is mainly driven by the following factors:

- 1. Proliferation of Smartphones
- 2. Growing Popularity of Online & Digital Banking
- 3. Rapidly changing consumer behavior
- 4. Regulatory challenges
- 5. Cybersecurity risks
- 6. High prevalence of advanced and innovative technologies

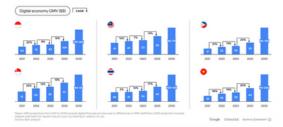
Low adoption of cashless payments within Emerging Markets

In countries such as Indonesia, Vietnam and Thailand, fiat currency has been the preferred mode of payment. Compared to developed economies, EMs are lagged in terms of cashless payment adoption. As for matured markets, we can look towards the likes of US where the contrasting transaction value is evident against the Sea's primary markets [Figure 13] where US are doing almost USD 2,041 billion just in 2023 and projected to bring in over USD 3,258 billion. Meanwhile, within Sea's markets, Brazil is the closest comparison by a mile, bringing in USD 132.50 billion, followed by Indonesia of USD 87.60 billion, Thailand of USD 32.13 billion and finally Vietnam, the least at USD 23.86 billion. SEA has a large number of unbanked individuals who are more than keen to embark on an alternative payments journey, given the lack of banking penetration in the region. According to e-Conomy, much of the population in Southeast Asia remains unbanked, with about 198 million people unbanked [Figure 14] as of 2021. This is an extremely high figure, indicating the low penetration of basic financial services in Southeast Asia as compared to other regions.



Figure 15: SEA Digital Economy GMV Outlook

GMV will continue its upward trajectory through the rest of the decade



Source: Google, Temasek and Bain

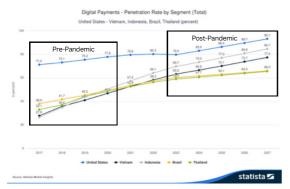
Figure 16: GMV vs GDP

The digital economy will continue to be a major growth driver in SEA



Source: Google, Temasek and Bain

Figure 17: Penetration Rate of Digital Payments



Source: Statista, Digital Payments in SEA

In the backdrop of such a landscape, the presence of digitally powered alternative payment systems is enabling Southeast Asians to enjoy the perks of banking services without having to access traditional structures. The growing payments ecosystem encourages financial inclusion while also accelerating economic growth and development. Some headwinds include the lack of awareness and trust towards digital payment options, as well as the limited infrastructure in EMs such as stable internet connectivity and POS terminals, required to support the use of cashless payments.

With that being said, the rapid increase in smartphone adoption in EMs signify the gradual transition towards a new technological age. [Figure 15 & 16] This also allows for easier accessibility to cashless payment methods. The development of mobile payment platforms such as ShopeePay and Shopee Partner will also allow for greater access and convenience for people to transact without bank accounts. Furthermore, many governments within EMs are promoting the use of cashless payments with financial inclusion initiatives being rolled out as well as the development of national payment systems.

COVID-19 pandemic has accelerated the adoption of cashless payments.

Used for fast, frequent, and low amount transactions, contactless methods enable payment by simply tapping or hovering over payment or POS terminals. Contactless methods limit physical contact with people and devices, facilitating social distancing and avoiding the handling of cash, shared POS terminals or pens/styluses. During the pandemic, they were an attractive option, complying with safety guidelines issued by global and national health organizations. The pandemic, by far, has provided the biggest thrust to the digital payments ecosystem in the Southeast Asian region. It also helped overcome the fear of virus transmission which many raised concerns around the hygiene of fiat currency. As businesses went digital, people shopped online and completed financial transactions with mere clicks on their smartphones or computers. COVID-19 pandemic has accelerated the adoption of cashless payments. Penetration rate levels pre-pandemic were averaging mid 30% ranges in 2017 however as we look to the end of 2023, Sea's primary markets are in the high 60% ranges and can be seen bridging the deviation with US [Figure 17].



Figure 18: Shopee's Primary Markets GMV Market Share



Source: Momentum Works, 2022

Figure 19: Porter's Five Forces

Competition Within Industry



Porter's Five Forces

Intensity of Competitive Rivalry - High

1. Parabolic Growth within Industries

The intense rivalry among existing competitors shapes the dynamic and fierce competitive landscape for Sea Limited. This is mainly due to the highly competitive sectors that the company operates in being: E-commerce, Digital Entertainment and Digital Financial Services. Sea limited faces intense competition from major players of the host countries such as Tokopedia, holding almost 35% of Indonesia's market share just shy of Shopee's 36%. [Figure 18] The industries' exponential potential and growth has also seen a multitude of new entrants vying for a piece of the pie.

2. Global Players

Lazada is one of the company largest competitors within SEA, not mentioning e-commerce large-caps in Alibaba and Amazon. These e-commerce heavyweights have the capability and might to expand into the SEA market, posing significant threat to Sea's position as the market leader, given the competitors established and renowned reputation in its operating countries. In the gaming industry, Garena faces intense threat from Tencent and in the form of financial services, similar providers include GrabPay, Alipay and WeChat Pay.

3. Market Saturation

Market saturation is also a factor whereby matured markets could lead to intensified competition, which could result in aggressive marketing strategies and price wars in a bid to differentiate themselves and capture market share. This could potentially eat into margins and ultimately affect the bottom-line.

Bargaining Power of Consumers - Moderate

In the e-commerce and financing services segment, consumers are likely to have greater bargaining power seeing as there is high substitutability with various similar platforms offering identical services. However, in the gaming realm, consumers might not be entitled to the same influence with sticky hits such as Free-Fire being exclusive only to Garena's platform. With that being said, it is important to note the ringfencing efforts by Sea with consumers being drawn in by the effortless integration, making it a moderate impact to Sea.



Figure 20: Activision's Call of Duty



Source: NotebookCheck, 2022

Figure 21: Riot Games' Valorant



Source: Sports Business Journal, 2020

Bargaining Power of Suppliers - Moderate

Shopee's business model is highly dependent on suppliers such as Third-Party Logistics (3PLs) and merchants listing their products on the marketplace. This is especially so in newly expanded markets such as India and Brazil. In Singapore alone, Shopee offers free registration in a bid to entice merchants. However, in the form of Garena and SeaMoney, there is close to zero supply chain risk seeing as products and services are all managed in house. With the combination of both, the bargaining power of suppliers is seen as a moderate impact.

Threat of Substitution - Moderate

In the E-commerce segment, Shopee is seen as the market leader capturing the largest market share. Given it's dominant position and growing customer base, it is unlikely that Shopee will be displaced anytime soon. However, Garena is facing intense threat from game developer Activision and Riot Games which as of late, has produced hit titles that has gained traction among the PC gaming industry.

Threat of New Entrants - Moderate

Sea Limited operates in highly capital-intrusive industries such as E-commerce, Digital Entertainment and Digital Financial Services. As such, there is a significant barrier to entry for potential new entrants with a large scale of operations and complex infrastructure to put in place. Being a established market dominant force, Sea Limited is able to benefit from significant economies of sales allowing it to operate more cost efficiently and effectively which might not be the same case for new entrants, who will struggle to cope with initial overheads and rising costs.

In the case of Tiktok Shop, the company successfully managed to overcome the above stated challenges and established itself as a dominant force within SEA e-commerce. This was not short of challenges, with them experiencing difficulties with regulatory barriers as seen in Indonesia, where the company failed to comply with local regulatory requirements.

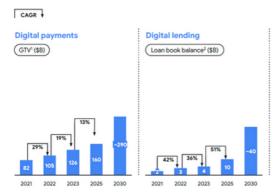


Figure 22: Garena's Free-Fire



Source: Sports Tiger, 2023

Figure 23: Growth in Vietnam's DFS Avenues



Source: Google, Temasek and Bain

Figure 24: Growth in Thailand's DFS Avenues

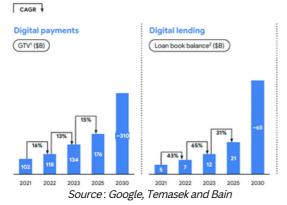
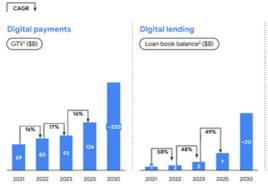


Figure 25: Growth in Philippines's DFS Avenues



Source: Google, Temasek and Bain

Catalysts

India's Reversal on Free-Fire Ban to Boost Top-Line

India was poised to be one of Garena's most promising market given it's massive population of over 1.40 billion however in early 2022, the Indian government had issued a ban on Free-fire apps as part of a broader ban on Chinese apps. A year later, India has since shifted it stance and Garena announced in August this year that Free-fire would return to the Indian market. This re-entry into the Indian market could prove vital for it's margins given the immense potential due to it's huge gaming committee, with the game being the most downloaded mobile game globally in Q323. Additionally, with new hits such as Arena of Valor and Call of Duty Mobile, these titles could steer it's recovery. Key metrics to look out for include a stabilizing QAU and MAU along with growth in bookings and ARPU.

2. Bright Spots in Vietnam & Brazil Markets with Secular Multivear Growth Tailwinds

In the company latest earnings call, management pointed out that e-commerce penetration is still relatively low in Sea's key markets, namely Brazil which is largely seen as Latin America's most resilient economy. As of the most recent quarter, growth metrics along with user economics figures were robust with Shopee already achieving sufficient scale and cost efficiency to sustain profitability. The company also mentioned that it will look to invest in growth while driving improvements in operational efficiency, with logistics taking the forefront. This is seen in Shopee's acquisition of Blu, a credit arm backed by Brazil's Warburg Pincus in a bid to offer credit directly to customers living in LatAM's largest economy. Additionally, Shopee being the market leader within the ecommerce space in Vietnam makes it well positioned to capitalize on strong CAGR figures with a 13% and 51% CAGR growth from 2023 to 2025 for Digital Payments and Digital Lending avenues respectively. [Figure 23] Thailand and Philippines are also dynamic markets within SEA, posting robust growth figures. [Figure 24 & 25]

3. Fintech's Exponential Growth Set to Benefit SeaMoney

Fintech is poised to grow at a rapid pace following the disruption of traditional banking methods. SeaMoney has since become one of Sea's core businesses contributing heavily towards both top and bottom-line. The financial services business also reported strong numbers in the latest quarter with revenue of USD 446.20 million, up 36.5% YOY. EBITDA was posed a solid turnaround from a USD 67.60 million loss in the prior year to a profit of USD 165.70 million as of Q323. A key metric providing guidance over future growth prospects would be the Gross Loans Receivable, which was up over 5.3% YOY to USD 2.40 billion.



Figure 26: SE is trading at 90% off its highs

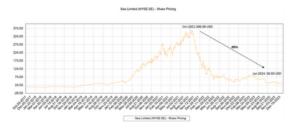


Figure 27: YoY % change in Sales and Marketing Expenses

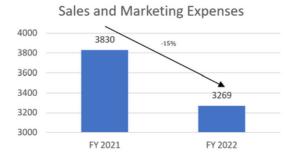


Figure 28: YoY % change in Revenue Streams



Investment Thesis

1. Strong Recovery Play, Undervalued Growth Prospects

Based on valuations forecasted, I believe that the decline in Sea's stock price has plateaued and with stable profitability on the horizon, this could prove to be SE's largest tailwind going into FY 2024.

Beaten-Down Stock Pricing in Near-Term Cash Burns

From its 2021 high of 366.99 USD, the stock has since fallen off a cliff, down over 90% from the highs [Figure 26] with concerns over poor management of cash flows along with exorbitant amounts spend on marketing expenses in a bid to acquire and retain market share with the E-commerce industry.

Contrary to market sentiment, I believe SE's stock is poised for a strong comeback story with robust numbers being posted in recent quarters. FY 2022 demonstrated strong operational fundamentals and exemplified management's commitment to cost-cutting strategies with a steep decline in Sales and Marketing Expenditure, the company's largest expense account. In 2022, Sales and Marketing expenses saw a YoY drop of over 15% [Figure 27], representing over USD 561 million in cost-savings. Additionally, Cost of Goods Sold and Digital Entertainment Cost of Service also saw noteworthy cuts after years of continuous large increments. However, this cost-cutting strategy has not impacted top-line growth in the least. Revenue saw a 25% YoY increase and Ecommerce and Digital Finance segments showing growth of 42% and 160% respectively. [Figure 28] These strong figures demonstrate SE's ability to replicate monumental growth despite tightening cash flows. As the company's focus begins to shift from growth to cost management, I expect it to yet again be an attractive investment for investors seeking to capitalize on the potential recovery play, with substantial upside.

Attractive Valuation, Undervalued Intrinsic Valuation

I believe that the current market valuation of the stock does not fairly reflect its intrinsic value. I refer to my base case derived implied share price of 51.34 USD computed using the DCF Valuation where I had taken into account conservative estimates to project future revenue streams. For E-commerce, my estimated growth rates with regards to Average Order Value and Total Number of Orders led to diminishing returns in overall Gross Merchandise Value (GMV). In Digital Finance, I had factored in a constant take rate of 60% over the forecasted period even though historically SeaMoney's take rate has been increasing exponentially from FY 2020 onwards.



As Shopee and SeaMoney continues its penetration into SEA and LatAM markets, I expect lower operating overheads as well as greater top-line growth. I also believe that Shopee's and SeaMoney's ability to scale and comparative advantage over its peers in presiding countries are not reflected in its current market valuation.

2. Overlooked Prospects, Future of SeaMoney

Strong Figures & Catalyst of COVID 19

SeaMoney is arguably Sea's most attractive business unit in the years to come. SeaMoney is a mobile wallet for payment transfers, loans, and other banking features. SeaMoney's revenue is derived from earning fees from mobile wallet services and payment processing services and commissions from third-party financial institutions which offer financial products or lend to consumers on our platform.

Spanning from FY2020-2022, SeaMoney's top-line grew at a 3-year CAGR of 465% and 160% YoY in just FY 2022 alone, to USD 1.222 billion [Figure 29] in spite of the turbulent macro environment with sky-high interest rates. This huge upswing led to a spike in segment contribution to revenue, more than doubling from 4.7% in FY 2021 to 9.8% in FY 2022. [Figure 30] The exponential growth can be largely attributed to the transformation of traditional banking services to digital finance following the COVID 19 Pandemic. The COVID-19 pandemic has undeniably been the most significant catalyst for the rapid expansion and adoption of the digital payments ecosystem, introduced as the viable solution to limit physical contact as well as the handling of fiat money.

Figure 30: SeaMoney's Segment Contribution

Figure 29: SeaMoney's Top-Line Exponential

Growth

SeaMoney

470

FY 2021

1222

FY 2022

Revenue

1400

1200

1000

200

600

400

200

0

FY 2020



Penetration of Digitalisation within EMs and SEA

Following the pandemic, there is a immense market opportunity to capitalize on the digitalization of payments and banking systems in SEA as well as EMs such as Brazil and India. It is expected that a new era of digitalization will be ushered in within EMs , indicating a gradual uptick in smartphone adoption. ShopeePay and Shopee Partner will be well-positioned to benefit from this, given their exposure and expansion into EMs.

It is worth noting that at present only a limited segment of Sea's primary market enjoys access to essential financial services, thus opening the door for an expansion of digital financial offerings in the area. I believe that Sea can exploit the scarcely penetrated market and establish a foothold within SEA and EMs thus allowing them to gain comparative advantage over its peers.



Figure 31: MariBank's Competitive Interest Rates



Figure 32: ShopeePay



Figure 33: Shopee Buy Now Pay Later (BNPL)



Synergy of SeaMoney and Shopee

As SEA intensifies its investments in e-commerce, it positions itself at the forefront of a burgeoning market, tapping into new customer segments and enhancing its digital financial services. This strategic pivot, while potentially impacting earnings and share prices in the near term, is a calculated move to capitalize on the rising tide of digital globalization and the evolving digital landscape. With digital and social media marketing offering avenues for lower costs and increased sales, and the digital finance sector facing a transformative period, Sea's focus on these areas signals its commitment to long-term growth and market dominance.

The company's approach reflects a broader industry trend where digitalization and emerging technologies are reshaping business environments, creating new opportunities for growth and stability in the dynamic digital economy. The launch of ShopeePay vouchers and Shopee Coins on the platform has significantly boosted ShopeePay's traction in Singapore. Additionally, Maribank, a Sea Group-owned digital bank recently secured a full digital banking license and offers Singapore highest savings account interest rate of 2.88% as part of lower costs and overheads. [Figure 31] It is estimated that customer acquisition cost are seven times lower than that of traditional banks.

Late this year, the bank also launched an instant cash-out investment account in collaboration with Lion Global Investors. This provides much sought-after liquidity among investors who detest lock-up periods. Sea has strategically integrated ShopeePay into its E-commerce platform, allowing users the ease of transacting through the Shopee App without having to switch to a third-party payment provider which significantly reduces the rate of transaction abandonment. I also anticipate Sea to replicate this strategy across its other financial services, such as Buy Now Pay Later (BNPL) [Figure 33] and Digital Lending. These services align seamlessly with Sea's pre-existing e-commerce and gaming operations in the region.

3. Low Leverage and Strong Stance Against Gearing

It can be said that Sea's long-term solvency is one of the bright spots within their balance sheets, with low leverage ratios all lesser than 1. D/E ratio came in at 0.77 and Debt-to-Capital coming in at 0.43. As of the latest quarter, figures dipped even further to 0.70 and 0.41 respectively, highlighting Sea's consistent commitment to maintaining low gearing levels.



Furthermore, Sea has strayed away from long-term debt since 2020 and I expect the short-term outlook to remain consistent as the company looks to strengthen their financial position.

Revolving Credit Facility

In recent years, Sea sustained a line of credit through means of a Credit Revolver which is bound to propel Sea forward by enhancing its financial flexibility and operational capability. This type of credit arrangement allows Sea Limited to have immediate access to cash, which is vital for covering operational costs, investing in new projects, or managing unexpected expenses. It provides a buffer against credit cycle volatility and the risk of credit losses, which is particularly important for Sea Limited's banking and consumer and merchant credit businesses.

The availability of a revolving credit line also helps Sea Limited mitigate risks associated with its diverse business operations. With significant cash reserves on its balance sheet, such as the USD 7.70 billion reported earlier, and a stable revenue stream from its various business units, Sea Limited can strategically use the credit revolver to sustain and expand its business without excessively relying on its cash reserve. Moreover, the flexibility of revolving credit, comes with favorable terms as compared to traditional loans, allowing Sea Limited to manage its finances more effectively and respond quickly to market opportunities or challenges, thus supporting its continued growth and market expansion.

Figure 34: Functions of a Credit Revolver



Figure 35: Revenue Growth



Figure 36: E-commerce Growth



Financial Analysis

Robust Top Line Growth Fueled by Exponential Industry Growth

Sea's historical financial trends showcase robust growth with uncapped potential top-line growth, propelled by the exponential expansion in the Digital Finance and E-commerce sectors in past years as well as years to come. From 2019-2021, Sea posted triple digit revenue growth YOY with a CAGR of 131% [Figure 35] with the COVID 19 Pandemic greatly boosting GMV and orders. In Q4 2022, SeaMoney netted USD 2.10 billion with a 92% YoY top-line growth, showcasing its untapped potential. E-commerce remains a bright spot within Sea, averaging a 5-year CAGR of 137% for top-line gains YoY. [Figure 36] I expect e-commerce to continue being Sea's core business segment for the years to come given its dominance and market leading position and will continue to be well-positioned to capture market share within EMs such as Brazil. SeaMoney continues to ride the wave of Digital Finance disruption and its expansion into untapped markets provides fertile ground. As global markets continue to digitalize at an accelerating pace in Digital Payments services, SeaMoney stands at the cusp of leveraging this transformation leading to market dominance in the years to come.



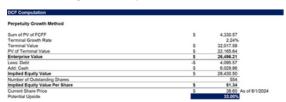
Figure 37: Sea Limited Gross Margins



Figure 38: Asset Turnover Ratio

Efficiency	2018A	2019A	2020A	2021A	2022A
Asset Turnover Ratio	0.38	0.42	0.42	0.53	0.73

Figure 39: Implied Share Price



Strengthening Profit Margins

Profitability is undoubtably the greatest area of concern for Sea Limited however the company has embarked on a ruthless cost-cutting drive which included layoffs and reduction in operational expenses which is seen in the decline of Sales and Marketing Expenses as of FY22. Sea's sound and healthy Gross Margins is seen in the continued YoY growth from 28% in 2019 to 42% in 2022 [Figure 37] and is projected to demonstrate further growth in the forthcoming years as the company turns to prudent financial management. I believe that a more balanced approach between growth and profitability is on the horizon as the company sets into a maturing phase with a optimal balance between aggressive expansion and cost management being critical to long-term profitability.

Efficient Operational Excellence and Optimizing Leverage

Sea Limited's operational efficiency has undergone significant evolution, reflecting both its growth trajectory and strategic focus. The company's asset turnover has been rising over the past 5 years to 0.73 in 2022 [Figure 38], suggesting excellent asset efficiency in generating revenue. Efficiency is also demonstrated in Sea's management of its receivables whereby the company is able to readily collect loans receivables and its conversative approach to extending credit lines. Together, these figures demonstrate Sea's adeptness in resource utilization and its commendable financial efficiency. As Sea inches towards stable profitability, I expect the company to strengthen its financial standing by reducing leverage. This is demonstrated in the declining Debt to Equity Ratio from 2018-2022 along with management's utilization of a Revolving Credit Facility instead of issuing convertible notes. This move will strengthen shareholder returns by reducing the dilution of shares. I have hence forecast Debt to Equity Ratios to fall further in the coming years.

Valuation

I reiterate my **BUY** recommendation for SE with a target price of **USD 51.34**, presenting a **33.00** % upside potential based on the closing price of **USD 38.60** on **08/01/2024**. This was derived using a Discounted Cash Flow (DCF) valuation, incorporating the Perpetuity Growth method.

Revenue Forecasting

Revenue was first broken down to reflect the main business segments namely being Digital Entertainment, E-commerce, Digital Finance and lastly Other Services. A bottom-up approach was then applied for the first 3 segments and for Other Services, constant growth was assumed due to its immaterial sum.



<u>Shopee</u>

E-commerce revenue was projected according to the number of transactions per active buyer where revenue was first broken down into First and Third-party revenue with GMV being utilized as the relevant metric. GMV was calculated by multiplying Total Number of Orders against Average Order Value. Orders were forecasted to grow at a decelerating rate to reflect the cooling environment from the COVID 19 Pandemic E-commerce frenzy, following the reopening of brick-and-mortar retail outlets. As Sea's ventures into EMs in LatAM, I expect Average Order Value to continue decreasing at 5% yearly.

Figure 40: Counter-Strike 2



Figure 41: Dota 2



Garena

To forecast Garena's in-game purchases, I utilized QAU and QPU figures provided by the management. I expect Garena's QAU to continue trending downwards due to the lack of sticky gaming titles along with the drop in bookings YoY. From there, I derived QPU to be a % of QAU and afterwards determining ARPPU by dividing Revenue by QPU (multiplied by 4 to reflect an entire year).

It is worth noting that QAU and hence QPU took a huge hit with the Indian Government issuing a user ban on Garena's biggest Hit Free-Fire. With that being said, I do expect QPU to gradually pick up following the recent unban announced by the Indian Government alongside Garena's capability in monetizing their platform as shown in previous years. ARPPU is also slated to increase at a conservative estimate of 6%, with it diminishing gradually over the years. This is in line with expectations that the gaming committee will turn to trending hits such as Counter-Strike 2 and Dota 2.

<u>SeaMoney</u>

Sea's Digital Financial Services arm, SeaMoney mainly derives revenue from granting loans to consumers on the platform, from which interest and fees are earned. As such, we look towards Loan Receivables net of Credit Losses and after determining the Take Rate, forecast the future year's revenue.

After posting over 160% YoY growth in top-line, I expect SeaMoney to extract more realistic figures with the expected rate cuts in the coming year to be taken into account. I also forecast a huge uptick in consumer and commercial loan receivables given the launch of Maribank in Singapore along with the partnership of SeaMoney with Ceuana Lhuillier, Philippines' leading microfinance services provider.



Cost of Revenue

Cost of Revenue is broken down into the 3 main cost-segments, Digital Entertainment, E-commerce and Cost of Goods Sold. I expected Garena to incur more cost as they look to reestablish themselves at the forefront of the gaming industry while looking to develop and publish original titles. E-commerce is also anticipated to see increments as it seeks to stay ahead of rising competition and new entrants. Lastly, Cost of Goods Sold will be expected to grow in conformity with top-line, noting a gradual downtrend.

DCF Valuation

I adopted a 5-year DCF model to recognize SE's upside potential due to its strategic geographical position and significant comparative advantage over its peers. A 2.24% terminal growth rate to derive SE's implied share price and well as to ensure conservatism. A 2.24% terminal growth rate was computed by dissecting total revenue split in accordance with SE's main geographical segments Southeast-Asia, Latin America, Rest of Asia and Rest of World. From there, a weighted perpetual growth rate was calculated using the market risk premiums of each geographical segment.

Discount Rate (WACC)

I computed a WACC of 9.69%. The Cost of Equity was determined using the Capital Asset Pricing Model (CAPM). Cost of Equity was calculated by multiplying the re-levered Beta with the Equity Risk Premium (ERP) and Country Risk Premium (CRP) and lastly adding it to the Risk-free Rate. Risk-free rate was 4.04% as of the US 10Y Treasury bill. Unlevered Beta was computed by utilizing the average of the Beta of SE's peers and re-levered using the Hamada Equation. ERP was taken at 4.60% based on Damodaran's research, seeing as the security was listed in the US market.

Given SE's geographically diversified revenue portfolio across key markets, I used a weighted country risk premium, blended according to SE's main markets within the Southeast-Asia, Latin America, Rest of Asia and Rest of the World geographical segments. The cost of equity was calculated to be 11.33% with a pre-tax cost of debt of 1.11% which was computed by dividing interest expense by convertible debt.

To derive the after-tax cost of debt, I multiplied the pre-tax cost of debt by 1 minus the Corporate Tax Rate, in which I utilized the Singapore Corporate Tax Rate of 17% as stated under the company's tax policies.

Using SE's market D/E ratio of 0.19, I arrived at a WACC of 9.69%.

Figure 42: Terminal Growth Rate

Sea Limited (NYSE: 5E) GDP Computation									
otal Reserve for FY 22	Southeast-Asia	Latin America 12.45		Rest of World	Notes				
rvemon per geographical segment.	8.321	2.044	1,727	357					
of Revenue in Respective Segment	66.84%	26.42%	13.67%	2.47%					
furket Kisk Premium [As of Est San 2004]	1.68%	5.76%	2N	25	Damodaran - Country Rick Premium (SDP weighted)				
Reighted FGR Based on Market Kisk Promiums		2.24%							

Figure 43: Country Risk Premium

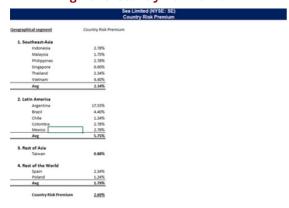


Figure 44: WACC Computation

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Weighed Revenge Cost of Capital WALC	-	100	



Figure 45: Sensitivity Analysis

				Terminal Growth Ra	te	
	51.34	1.24%	1.74%	2.24%	2.74%	3.24%
	8.69%	52.26	55.44	59.11	63.39	68.46
	9.19%	49.06	51.79	54.93	58.54	62.77
WACC	9.69%	46.25	48.63	51.33	54.42	57.99
	10.19%	43.78	45.87	48.22	50.88	53.93
	10.69%	41.60	43.44	45.50	47.81	50.44

Figure 46: Tiktok Shop Indonesia's Merger with Tokopedia



Figure 47: SEA E-commerce Market Share 2022



Source: Momentum Works, DBS Bank

Scenario Analysis

I performed a sensitivity analysis by varying our WACC and Terminal Growth Rate. This allows for greater accuracy in my derivation of the implied share price. I reiterate my BUY recommendation is maintained as it can be observed that even at a lower perpetual growth and a higher discount rate still represents an ample upside.

Investment Risks

1. Tiktok Shop Indonesia merger with GoTo's Tokopedia

In late September 2023, the Indonesian government issued a ban on social E-commerce platform TikTok Shop citing protection of offline merchants and marketplaces as one of the many reasons behind the move. Unexpectedly, Tiktok Shop relaunched itself back into in the Indonesian market by forming a strategic partnership with Local Internet Giant GoTo on 10th December 2023, in a bid to drive long-term growth for Indonesia's micro small medium enterprises (MSME) sector as well as the country's digital economy.

As part of the agreement, GoTo's E-commerce subsidiary Tokopedia and TikTok Shop will be combined under the existing PT Tokopedia entity, with Tiktok holding a controlling stake. It requires Tokopedia to spend USD 340 million to buy exclusive rights to own and operate TikTok Shop's Indonesian business with TikTok in turn, having to spend USD 840 million to buy 75% of Tokopedia's shares forming a joint venture. The deal which is targeted for completion by Q124 is estimated by Bloomberg Intelligence to raise TikTok's gross merchandise value by over 15%.

The merger of TikTok and Tokopedia is expected to capture about 40% of the Indonesian e-commerce market share. Research from Momentum Works found that Tokopedia and TikTok would jointly command a 40% market share of Indonesia's ecommerce landscape. [Figure 47] This surpasses the 36% share that Sea Group's Shopee holds in the country. This news comes as a blow to Shopee, which I had expected to be the frontrunner in capturing the existing 5% market share of TikTok following the ban.

During the period when TikTok Shop's operations in Indonesia were banned, Shopee temporarily captured a portion of its transaction volume. However, according to a November report by UBS, Shopee only managed to recapture about 30% of the total transaction volume, with the remaining 70% lost. This seems to indicate that TikTok's business model has a certain irreplaceability. Research from PYMNTS Intelligence and Amazon Web Services also further proven this with its research titled "Tracking the Digital Payment Takeover: Monetizing Social Media".



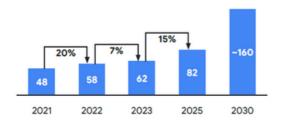
Figure 48: SEA E-commerce Market Share 2022

The most commonly used social media platforms in the U.S. share of consumers using select social networks to browse and surchase products in the last 30 days									
	O	0		_					
	Facebook	Instagram	YouTube	TikTok	Twitter	Snapchat	Pinterest		
Browsed for products	16.7%	11.7%	8.5%	7.3%	4.7%	4.0%	4.5%		
 Searched for reviews 	5.8%	5.6%	6.5%	5.2%	2.9%	3.0%	2.3%		
 Purchased products 	7.3%	4.6%	3.4%	2.6%	2.0%	1,1%	1.7%		
• TOTAL	29.8%	21.9%	18.4%	15.0%	9.7%	8.1%	7.9%		

Source: PYMNTS, AWS

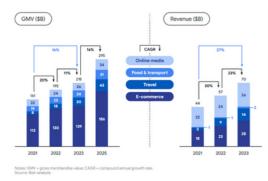
Figure 49: Indonesia's E-commerce Outlook

E-commerce



Source: Google, Temasek and Bain

Figure 50: SEA's GMV and Revenue Outlook



Source: Google, Temasek and Bain

The study found that found that 68% of Gen Z consumers searched for products on social media, and 22% ultimately completed a purchase, 40% of the generation also prefer using Instagram or TikTok to explore brands. The study also stated that Tiktok came in third, just behind Facebook and Instagram in having the highest conversion rates of all social medial platforms. [Figure 48] We are hence witnessing a shift in consumer preferences with younger audiences preferring Social Media platforms to browse and purchase products. With this venture in place, I expect Sea's entire ecosystem to face insurmountable challenges following the merger of two e-commerce powerhouses providing greater operational efficiency across various areas such as shopping, logistics, payments and more.

This move will also establish a strong e-commerce presence in Southeast Asia's largest economy. Meanwhile, online retailing in Indonesia has soared in recent years with the value of E-commerce sales increasing six-fold between 2018 to 2023 and is expected to hit 689 trillion Indonesian Rupiah, according to the country's central bank. According to the e-Conomy SEA 2023 report by Google, Temasek Holdings and Bain & Co, Indonesia's E-commerce industry is set for rapid growth, estimating valuation of USD 62 billion in 2023 and USD 160 billion by 2030. [Figure 49] E-commerce remains on track this year, increasing 22% in revenue year on year to hit USD 28 billion. Gross merchandise value (GMV) in the sector is projected to climb to USD 139 billion in 2023, before hitting USD 186 billion in 2025 on a 16% growth rate.

2. Garena's Lack of Visibility, Strong Games Pipeline

With the re-launch of Free-Fire in the huge Indian gaming market, it has since been the most downloaded mobile game globally in Q323. However, it remains to be seen if Garena will be able to replicate that success in other top hits to rival competitors in Riot Games and Epic Games with successes in Valorant. Since Free Fire, the company has struggled to develop a game to take the gaming industry by storm. This is depicted in the company's bookings which saw a YOY drop of 38% in Q323, falling for 6 straight quarters before finally rising minimally in Q323. Garena's decline is noteworthy seeing as the business once accounted for a substantial portion of revenue for the group but now makes up less than a fifth.

As we enter the endemic phase with lockdowns ending, revenues are now normalizing and have since dropped quarter after quarter since 2022. It is crucial for management to release games with sticky titles and a longer longevity as investors will be looking to that as a key determinant of the division's growth and prospering metrics. However, the company has chosen to place emphasis on it's core offering, Free-Fire by making improvements to user engagement while reducing its development pipeline to control costs.



Figure 51: Teamfight Tactics



Figure 52: League of Legends

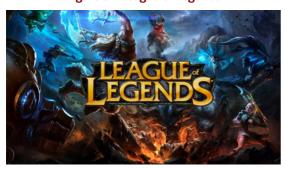


Figure 53: Net Profit / (Loss) Q4 22 vs Q3 23



Figure 54: Shopee Xpress Circular Packaging Program 2.0



The game is however not short of problems, with many longtime players expressing dissatisfaction with the current state of the games with issues such as hacking being persistent. It is also worth noting that last November, Garena lost the rights to publish League of Legends and Teamfight Tactics in SEA to Riot Games, who decided to self-publish its title in the region. Although the company did not disclose the impact of the loss of these rights on the top line, it is evident that declining numbers cannot be solely attributed to Free-Fire alone.

3. Unrestrained Financial Outlay, Unclear Pathway to Sustainable Profitability

After posting positive net income for the first time in Q4 22, Sea Limited announced an unexpected net loss of USD 144 million in Q3 23 despite an increased top line. [Figure 53] This brings about the question of sustainable profitability. The management attributed the net loss to investments in building its e-commerce content ecosystem, especially in live-streaming. Flagging consumption and intensifying competition from Alibaba (Lazada) and TikTok in its key markets. I expect competition to stiffen further as TikTok continues its expansion into SEA markets and Lazada mounting a comeback with the recent fresh capital injection from Alibaba of USD 634 million. Pinduoduo's E-commerce affiliate TEMU entered SEA first via the Philippines on Aug 26, then Malaysia on Sep 8. This adds another competitor into the ever-competitive scene that incumbents Shopee must square off against.

To fend off new entrants, Shopee invested heavily on advertising costs with Sea's marketing costs surging 12.4% YOY. Shopee alone saw sales and marketing expenses soar by almost 50% YoY for Q323 from USD 575 million to USD 861 million. This could prove to work against Sea, with the move possibly eroding margins and triggering a price war with e-commerce heavyweights Alibaba and TikTok.

ESG

1. Environmental

In July 2023, Shopee launched the Shopee Xpress Circular Packaging Program 2.0 in Taiwan for the second year running. This was aimed at reducing over 2.4 million kilograms of carbon emissions by year end. In 2020, this program successfully helped reduce over 600,000 kilograms of carbon emissions within a year and with the latest edition featuring a larger variety of products eligible for the program, it is estimated to help reduce the use of over 400,000 cardboard boxes. Shopee takes charge of handling the logistics, recycling, and sanitization of recyclable packaging. The program also incentivizes sellers through additional subsidies to promote the adoption of sustainable packaging solutions, including box rentals and related expenses.



Figure 55: Shopee Bayanihan Agapay Albay



Figure 56: Shopee Bayanihan Sorsogon Initiative



Figure 57: Ton Vinh Nong San Viet



Leveraging data from past operations, Shopee is crafting a variety of box sizes tailored to meet the diverse needs of seller products.

Furthermore, Shopee has implemented a self-return option for recyclable packaging at over 100 of its automated parcel collection points throughout Taiwan. This initiative enhances consumer access to the program, facilitating their engagement in eco-friendly practices. Through these efforts, Shopee is actively contributing to the advancement of Taiwan's online retail sector towards a more ecologically responsible direction.

2. Social

Shopee Philippines partnered with the Office of Second Albay District Representative Cong. Joey Sarte Salceda to distribute \$1,000,000 worth of rice aid to over 20,000 individuals impacted by the ongoing unrest of the Mayon Volcano. The rice aid provided sustenance to those temporarily displaced in Ligao, Guinobatan, Camalig, Daraga, Tabaco, Malilipot, and Santo Domingo—making it one of the most extensive relief initiatives for Mayon evacuees to date. Over the years, Shopee has expanded its umbrella CSR program Shopee Bayanihan to support disadvantaged communities. This program also enables users to express their solidarity towards the victims of other calamities, echoing the company's commitment to nurturing a sense of shared compassion and goodwill in times of vulnerability.

Another initiative by Shopee Bayanihan saw them partnering with the Philippine Coast Guard Station Sorsogon to deliver aid to fishing communities in Sorsogon. Noche Buena food packages were provided to over 400 families from coastal communities in Sorsogon. Shopee volunteers and Coast Guard Sorsogon representatives worked together in distributing the donations and providing hot meals for the families.

3. Governance

This aspect saw Shopee empowering local communities where they partnered with FoodMap to launch 'Ton Vinh Nong San Viet' - an initiative to empower local farmers from various provinces across Vietnam to build sustainable businesses and contribute to the development of the local economy. It aims create an ecosystem that supports farmers to preserve perennial native plants, improve production processes to meet VietGAP standards and bring Vietnamese agricultural products closer to users online. Under this project, Shopee Xpress will also play a pivotal role in the transportation of agricultural products, maintaining freshness of products.



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Appendix A - Financial Analysis

	Sea Limited (NYSE: SE)									
For Year Ended 31 December	Historical					F	orecasted			
All figures expressed in (SGDm) unless stated otherwise	2018A	2019A	2020A	2021A	2022A	2023E	2024E	2025E	2026E	2027E
YoY Revenue Growth by Segments										
Digital Entertainment	463	1,136	2.016	4,320	3.877	4.295	4,712	5,124	5.467	5,778
E-commerce	270	834	2,167	5,123	7,289	8,422	9,547	10,416	11,175	12,235
Digital Finance Services	12	9	61	470	1,222	1.652	2.225	3,108	4,494	6,497
Other Services	84	196	132	42	62	74	89	107	128	154
Total Revenue	827	2,175	4,376	9,955	12,450	14,443	16,573	18,755	21,264	24,664
YOY Growth (%)		163%	101%	128%	25%	16%	15%	13%	13%	16%
Profitability										
Gross Margin %	2%	28%	31%	39%	42%	40%	41%	42%	43%	45% /
BITDA Margin %	-120%	-41%	-30%	-16%	-12%	-7%	-4%	-1%	0%	1% /
BIT Margin %	-110%	-35%	-26%	-13%	-9%	-3%	2%	6%	8%	10% /
let Income Margin %	-116%	-67%	-37%	-21%	-13%	-7%	-3%	0%	2%	4% /
Return on Assets	-44%	-28%	-15%	-11%	-10%	-6%	-3%	0%	3%	5% /
Return on Equity	401%	-125%	-47%	-28%	-28%	-17%	-8%	0%	7%	11% \
Return on Invested Capital	-34%	-12%	-9%	-6%	-5%	-2%	2%	5%	9%	11% /
iquidity										
current Ratio	1.44	1.87	1.93	2.11	1.83	1.75	1.64	1.44	1.22	1.38 /
Quick Ratio	1.41	1.86	1.91	2.09	1.81	1.73	1.61	1.41	1.19	1.35 /
ash Ratio	0.85	1.32	1.33	1.29	0.87	0.74	0.49	0.24	0.01	0.14
everage										
Debt to Equity Ratio	(10.15)	3.46	2.06	1.53	1.93	1.87	1.82	1.55	1.12	0.96 /
ebt to EBITDA Ratio	(2.46)	(4.55)	(5.40)	(7.16)	(7.52)	(10.45)	(16.11)	(38.69)	224.62	27.24 _
fficiency										
sset Turnover Ratio	0.38	0.42	0.42	0.53	0.73	0.86	1.00	1.13	1.27	1.24 _
eceivables Turnover Ratio	8.46	7.64	7.96	13.25	18.95	28.53	32.55	32.34	32.32	32.67
oventory Turnover Ratio	(2.62)	(3.51)	(6.37)	(5.52)	(4.37)	(3.92)	(3.41)	(3.31)	(3.28)	(3.42)
ayables Turnover Ratio	(2.65)	(2.13)	(3.04)	(2.99)	(2.10)	(1.91)	(1.84)	(1.78)	(1.77)	(1.84) ^
overage									12.10	
terest Coverage Ratio	31.59	18.49	10.52	11.57	32.77	1.66	1.39	0.68	(0.19)	
perating Cash Flow Margin (%)	(1.05)	(0.40)	(0.20)	(0.09)	(0.07)	(0.06)	(0.05)	(0.05)	(0.04)	(0.04)
uPont Analysis	4400/	670/	270/	240/	120/	70/	20/	001	20/	40/
let Income Margin %	-116%	-67%	-37%	-21%	-13%	-7%	-3%	0%	2%	4% /
sset Turnover Ratio	0.38	0.42	0.42	0.53	0.73	0.86	1.00	1.13	1.27	1.24
Equity Multiplier	(9.01)	4.50 (3.17)	3.09 (3.30)	2.54	2.97	2.91 (1.83)	2.87	2.58 0.05	2.15	1.98 / 1.94
Earnings per Share	(2.83)			(3.72)	(2.98)		(0.85)	0.05	0.93	1 94



Appendix B – Pro-Forma Income Statement

	Sea l	imited (l	NYSE: SE	E)						
For the Fiscal Period Ending 31/12 (Figures in Millions US Income Statement	D otherwi		d) 2020A	2021A	2022A	2023E	2024E	2025E	2026E	2027E
Revenue										
Service Revenue										
- Digital Entertainment	463	1,136	2,016	4,320	3,877	4,295	4,712	5,124	5,467	5,778
- E-commerce	270	834	2,167	5,123	7,289	8,422	9,547	10,416	11,175	12,235
- Digital Finance Services	12	9	61	470	1,222	1,652	2,225	3,108	4,494	6,497
- Other Services Total Revenue	84 827	196 2,175	132 4,376	9,955	62 12,450	74 14,443	89 16,573	107 18,755	128 21,264	154 24.664
Growth (%)	021	163.0%	101.2%	127.5%	25.1%	16.0%	14.8%	13.2%	13.4%	16.0%
Cost of Revenue										
Cost of Goods Sold	(99)	(227)	(581)	(1,004)	(993)	(1,083)	(1,210)	(1,313)	(1,446)	(1,677)
Cost of Service										
- Digital Entertainment	(267)	(436)	(702)	(1,230)	(1,077)	(1,288)	(1,414)	(1,537)	(1,640)	(1,733)
- E-commerce and other services	(446)	(908)	(1,744)	(3,826)	(5,194)	(6,316)	(7,212)	(8,052)	(9,004)	(10,068)
Total Cost of Revenue	(812)	(1,570)	(3,027)	(6,059)	(7,264)	(8,688)	(9,836)	(10,902)	(12,090)	(13,479)
Gross Profit	15	605	1,349	3,896	5,185	5,755	6,737	7,852	9,173	11,185
Operating Expenses				(561)	15%					
Other Operating Income	10	16	190	288	279	289	298	300	319	370
Sales and Marketing Expenses	(705)	(970)	(1,831)	(3,830)	(3,269)	(3,020)	(2,994)	(2,889)	(2,908)	(3,189)
SG&A Expenses	(241)	(386)	(600)	(988)	(1,438)	(1,878)	(2,155)	(2,438)	(2,764)	(3,206)
Provision for Credit Losses	-	-	(58)	(117)	(514)	(602)	(731)	(1,023)	(1,442)	(2,089)
R&D Expenses	(68)	(157)	(354)	(832)	(1,377)	(1,589)	(1,823)	(2,063)	(2,339)	(2,713)
Impairment of Goodwill Total Operating Expenses	(1,004)	(1,496)	(2,652)	(5,479)	(355) (6,673)	(6,799)	(7,404)	(8,114)	(9,134)	(10,828)
	(1,004)	(1,436)	(2,692)	(3,473)	(6,613)	(6,733)	(7,404)	(0,117)	(3,134)	(10,020)
EBITDA	(989)	(891)	(1,303)	(1,583)	(1,487)	(1,045)	(666)	(262)	39	357
Depreciation and Amortization										
Depreciation	(79)	(122)	(181)	(279)	(428)	(584)	(790)	(1,023)	(1,288)	(1,594)
Amortisation	: '				•	(92)	(178)	(290)	(434)	(608)
Non-Operating Income (Loss)										
Interest Income	12	34	25	36	116	260	381	488	595	740
Interest Expense	(31)	(48)	(124)	(137)	(45)	(630)	(479)	(385)	(210)	
Gain / (Loss) on Investment	9	12	(18)	(44)	(207)	-	-		-	
Net (Loss) Gain on Debt Extinguishment			(24)	(2)	200	200	200	200	200	200
Changes in Fair Value of Convertible Notes	41	(473)	0	-	-	-	-	-	-	-
Foreign Exchange Gain / (Loss)	5	(2)	(39)	14	(76)	(19)	(19)	(19)	(19)	(19)
ЕВТ	(954)	(1,369)	(1,483)	(1,715)	(1,500)	(1,234)	(583)	22	606	1,278
Income Tax Expense	(4)	(86)	(142)	(333)	(168)	210	99	(4)	(103)	(217)
Share of results of equity investees	(3)	(3)	1	5	11	11	11	11	11	11
Net Income	(961)	(1,458)	(1,624)	(2,043)	(1,658)	(1,013)	(473)	29	514	1,072
Net Profit / (Loss) attributable to non-controlling interests	(0)	(5)	6	(4)	6	1	1	1	1	1
Net Income attributable to Sea Limited's Ordinary Sharel	(961)	(1,463)	(1,618)	(2,047)	(1,651)	(1,012)	(472)	30	515	1,073



Appendix C – Pro-Forma Balance Sheet

For the Fiscal Period Ending 31/12 (Figures in Mill	ions USD otherwi	ise state	d)							
Balance Sheet	2018A			2021A	2022A	2023E	2024E	2025E	2026E	2027
Total Assets										
Current Assets										
Cash and cash equivalents	1,003	3,119	6,167	9,248	6,030	4,842	3,142	1,668	90	1,13
Restricted Cash	254	435	859	1,552	1,550	1,550	1,550	1,550	1,550	1,55
Accounts Receivable, Net	98	187	363	388	269	237	272	308	350	40
Prepaid Expenses and Other Assets	312	535	1.054	1,402		2,022	2,320			
·	312				1,799			2,626	2,977	3,45
Loans Receivables	·	-	286	1,501	2,054	1,834	2,105	2,382	2,701	3,132
Inventories, Net	38	27	64	117	110	167	188	209	232	258
Short-term investments Amounts Due from Related Parties	1 5	102 5	126 19	911 16	864 13	852 9	978 10	1,107 11	1,255 12	1,455 13
Total Current Assets	1,711	4,410	8,939	15,135	12,688	11,512	10,564	9,859	9,165	11,397
N C .A .										
Non-Current Assets				4.000	4000	4070	4074	4070	4004	4.05
Property, Plant and Equipment, Net	192	319	386	1,030	1,388	1,670	1,874	1,976	1,964	1,850
Operating Lease Right-Of-Use Assets, Net	-	183	235	650	958	1,011	1,160	1,313	1,488	1,720
Intangible Assets, Net	13	15	40	53	65	100	193	314	471	653
Long-term Investments	111	114	190	1,053	1,254	1,257	1,442	1,632	1,850	2,146
Prepaid Expenses and Other Assets	69	66	205	125	136	159	182	206	234	27
Loans Receivables			117	29	22	29	33	38	43	49
Restricted Cash	2	17	27	39	18	18	18	18	18	18
Deferred Tax Assets	63	70	100	104	245	1,011	1,160	1,313	1,488	1,726
Goodwill	31	31	216	540	240	- 1,011	1,160	1,313	1,400	1,726
Total Non-Current Assets	482	814	1,517	3,621	4,315	5,254	6,062	6,809	7,556	8,446
Total Assets	2,193	5,224	10,456	18,756	17,003	16,766	16,626	16,668	16,721	19,843
Total Liabilities										
									4.54	
Accounts Payable	37	69	122	214	259	309	349	388	431	480
Accrued Expenses and Other Payables	637	981	2,033	1,520	1,397	1,738	1,180	1,090	1,209	1,348
Deposits Payable	-	-	-	466	1,316	1,121	1,269	1,406	1,560	1,738
Advances from Customers	29	65	161	1,790	1,862	1,998	2,262	2,508	2,781	3,100
Amounts Due to Related Parties	46	35	43	75	0	113	128	142	157	175
Short-term Borrowings (Revolver)	1 1	1	-	100	88	-	-	-	-	
Operating Lease Liabilities (Current Portion)		56	75	186	270					
Deferred Revenue	427	1,098	2,150	2,644	1,535	1,444	1,326	1,313	1,276	1,233
Convertible Notes	""	29	2,100	2,011	31	,,,,,,	1,020	1,010	1,210	1,200
Income Tax Payable	10	27	-	101			(07)	3	97	205
Total Current Liabilities	1,186	2,362	52 4,636	7,176	6,936	(160) 6.563	(87) 6,427	6,850	7,510	205 8,280
	"	_,,,,_	.,,,,,	.,	0,000	0,000	0,1.2.	0,000	1,010	0,200
Accrued Expenses and Other Payables	8	26	36	76	87	113	128	142	157	179
Long-term Borrowings	1	0		•	-	•	•	•		-
Operating Lease Liabilities		144	178	491	757	836	915	994	1,073	1,152
Deferred Revenue	171	161	343	105	64	72	83	94	106	123
Convertible Notes	1,062	1,356	1,840	3,476	3,339	3,339	3,187	2,042	-	-
Deferred Tax Liabilities	1	1	2	7	10	(4)	(2)	0	2	4
Unrecognised Tax Benefits	3	1	0	0	0		-			-
Total Non-Current Liabilities	1,246	1,689	2,399	4,155	4,256	4,356	4,311	3,272	1,338	1,454
Total Liabilities	2,432	4,052	7,035	11,332	11,192	10,919	10,738	10,122	8,848	9,734
Shareholders' Equity										
Additional Paid-in Capital	1,809	4,687	8,527	14,622	14,560	15,608	16,121	16,748	17,561	18,724
Other Comprehensive Income	15	5	5	(29)	(111)	(111)	(111)	(111)	(111)	(111
Statutory Reserves	"		2	(23)	12	12	12	12	12	12
•	(0.000)									
Retained Earnings Total Common Equity	(2,068) (243)	(3,531) 1,162	(5,151) 3,383	(7,201) 7,398	(8,746) 5,715	(9,757) 5,752	(10,229) 5,793	(10,199) 6,451	(9,684) 7,778	(8,611 10,014
. o.a. common Equity	(243)	.,102	0,000		0,110	0,102	0,100	0,701		10,017
Minority Interest	4	10	37	26	95	95	95	95	95	95
Total Shareholders' Equity	(240)	1,172	3,420	7,424	5,811	5,847	5,888	6,546	7,873	10,110
Total Liabilities and Shareholders' Equity	2 102	E 224	10.455	10 750	17 002	10 700	10 000	10 000	10 701	10 042
rotal clabilities and unaterioliders Equity	2,192	5,224 OK	10,455 OK	18,756 OK	17,003 OK	16,766 OK	16,626 OK	16,668 OK	16,721 OK	19,843 OK
	OK	01	OK.	OK.	011	-01	0.1	014	011	OK.



Appendix D - Pro-Forma Cash Flow Statement

Net Cash Flows from Operating Activities	For the Fiscal Period Ending 31/12 (Figures in Millions USI										
Net Cash provided by December 1 1,000 1,	Cash Flow Statement	2018A	2019A	2020A	2021A	2022A	2023E	2024E	2025E	2026E	2027E
Net Cash provided by December 1 1,000 1,	0.15. (0 . 1										
Add: Depreciation of PPE Add: Amoritzation of Intangible Assets Changes in Net Working Capital: Inventories Inven	• -										
Changes in Net Working Capital: Inventories							4	, ,			
Changes in Net Working Capital:											
Proposition	Add: Amortization of Intangible Assets						92	178	290	434	608
Proposition	Changes in Net Working Capital:										
Accounts Receivables Loans Receivable Receivables Loans Receivables Loans Receivable Receivable Receivables Loans Receivable Receiva							(57)	(21)	(21)	(23)	(27)
Loans Receivables										, ,	
Prepaid Expenses and Other Assets								, ,			
Amounts due from related Parties Deposits Payable Income Tax Payable Accounts Payable Accou											
Deposits Payable	·							, ,	, ,	, ,	
Income Tax Payable											
Accounts Payable	,										
Accorded Expenses and Other Payables Advances from Customers Deferred Revenue Income Tax Payable Amounts due to related parties Net Cash provided by Operating Activities Capital Expenditure for PPE Additions of Intangible Assets Deferred Tax Assets Act Cash provided by Investing Activities Cash Flows from Financing Activities Cash Flows from Financing Activities Cash Flows from Financing Activities Cash Provided by Investing Activities Cash Flows from Financing Activities Cash Provided by Investing Activities Cash Flows from Financing Activities Cash Flows from Financing Activities Cash Flows from Financing Activities Non-Current Lease Liabilities Non-Current L	•										
Advances from Customers Deferred Revenue Income Tax Payable Amounts due to related parties Net Cash provided by Operating Activities Capital Expenditure for PPE Additions of Intangible Assets Deferred Tax Assets Net Cash provided by Investing Activities Cash Flows from Financing Activities Non-Current Lease Liabilities Non-Current Lease	•										
Deferred Revenue	,							, ,			
Income Tax Payable											
Amounts due to related parties 113 15 14 15 18 Net Cash provided by Operating Activities (677) (195) 1,212 2,249 3,151 Cash Flows from Investing Activities Capital Expenditure for PPE (867) (994) (1,125) (1,276) (1,480) Additions of Intangible Assets (128) (179) (232) (302) (362) Deferred Tax Assets (766) (149) (153) (176) (238) Net Cash provided by Investing Activities (1,760) (1,322) (1,510) (1,753) (2,080) Cash Flows from Financing Activities (1,760) (1,322) (1,510) (1,753) (2,080) Cash Flows from Financing Activities (330) (100) (110) (110) (110) (110) Convertible Notes Due for Repayment Source Due fo	Income Tax Pavable										
Cash Flows from Investing Activities	•						, ,		14	15	18
Capital Expenditure for PPE (867) (994) (1,125) (1,276) (1,480) Additions of Intangible Assets (128) (179) (232) (302) (362) Deferred Tax Assets (766) (149) (153) (176) (238) Net Cash provided by Investing Activities (1,760) (1,322) (1,510) (1,753) (2,080) Cash Flows from Financing Activities 79 79 79 79 79 79 79 Non-Current Lease Liabilities 79 79 79 79 79 79 Repayment of Borrowings (380) (110) (110) (110) (110) (110) Convertible Notes Due for Repayment (31) (151) (1,145) (2,042) - Net Cash provided by Financing Activities (332) (182) (1,766) (2,073) (31) Net Change in Cash (186) 2,311 3,483 3,785 (3,228) (2,769) (1,700) (1,744) (1,577) 1,040 Cash, cash equivalents and restricted cash at beginning of year 1,445 1,259 3,571 7,053 10,838 7,610 4,842 3,142 1,668 90							(677)	(195)	1,212	2,249	3,151
Capital Expenditure for PPE (867) (994) (1,125) (1,276) (1,480) Additions of Intangible Assets (128) (179) (232) (302) (362) Deferred Tax Assets (766) (149) (153) (176) (238) Net Cash provided by Investing Activities (1,760) (1,322) (1,510) (1,753) (2,080) Cash Flows from Financing Activities 79 79 79 79 79 79 79 Non-Current Lease Liabilities 79 79 79 79 79 79 Repayment of Borrowings (380) (110) (110) (110) (110) (110) Convertible Notes Due for Repayment (31) (151) (1,145) (2,042) - Net Cash provided by Financing Activities (332) (182) (1,766) (2,073) (31) Net Change in Cash (186) 2,311 3,483 3,785 (3,228) (2,769) (1,700) (1,744) (1,577) 1,040 Cash, cash equivalents and restricted cash at beginning of year 1,445 1,259 3,571 7,053 10,838 7,610 4,842 3,142 1,668 90	Cach Flows from Investing Activities										
Additions of Intangible Assets (128) (179) (232) (302) (362) Deferred Tax Assets (766) (149) (153) (176) (238) Net Cash provided by Investing Activities (1,760) (1,322) (1,510) (1,753) (2,080) Cash Flows from Financing Activities 79 79 79 79 79 79 79 79 Repayment of Borrowings (380) (110) (110) (110) (110) (110) (100) ((007)	(994)	(1.125)	(1.276)	(1.400)
Deferred Tax Assets (766) (149) (153) (176) (238)								, ,			
Net Cash provided by Investing Activities - - - - - - - (1,760) (1,322) (1,510) (1,753) (2,080) Cash Flows from Financing Activities 79							, ,	, ,	, ,	, ,	, ,
Cash Flows from Financing Activities Non-Current Lease Liabilities 79 <		-				-	-				
Non-Current Lease Liabilities 79	2 - 2 p 2						(.,,	(1,022)	(.,,	(,	(2,000)
Repayment of Borrowings (380) (110) (120) (2,042) - Net Change in Cash (186) 2,311 3,483 3,785 (3,228) (2,769) (1,700) (1,474) (1,577) 1,040 Cash, cash equivalents and restricted cash at beginning of year 1,445 1,259 3,571 7,053 10,838 7,610 4,842 3,142 1,668 90	Cash Flows from Financing Activities										
Convertible Notes Due for Repayment (31) (151) (1,145) (2,042) - Net Cash provided by Financing Activities - - - - - - (332) (182) (1,176) (2,073) (31) Net Change in Cash (186) 2,311 3,483 3,785 (3,228) (2,769) (1,700) (1,474) (1,577) 1,040 Cash, cash equivalents and restricted cash at beginning of year 1,445 1,259 3,571 7,053 10,838 7,610 4,842 3,142 1,668 90	Non-Current Lease Liabilities						79	79	79	79	79
Net Cash provided by Financing Activities -	Repayment of Borrowings						(380)	(110)	(110)	(110)	(110)
Net Change in Cash (186) 2,311 3,483 3,785 (3,228) (2,769) (1,700) (1,474) (1,577) 1,040 Cash, cash equivalents and restricted cash at beginning of year 1,445 1,259 3,571 7,053 10,838 7,610 4,842 3,142 1,668 90	Convertible Notes Due for Repayment						(31)	(151)	(1,145)	(2,042)	
Cash, cash equivalents and restricted cash at beginning of year 1,445 1,259 3,571 7,053 10,838 7,610 4,842 3,142 1,668 90	Net Cash provided by Financing Activities	-	-	-	-	-	(332)	(182)	(1,176)	(2,073)	(31)
Cash, cash equivalents and restricted cash at beginning of year 1,445 1,259 3,571 7,053 10,838 7,610 4,842 3,142 1,668 90	Net Change in Cash	(186)	2.311	3,483	3.785	(3,228)	(2.769)	(1.700)	(1.474)	(1.577)	1.040
	_										
	Cash, cash equivalents and restricted cash at end of year	<u> </u>	3,571	7.053	10,838	7,610	4.842	3,142	1,668	90	1,130



Appendix E – Revenue Build & Income Statement Forecast

Se	a Limited Revenue	(NYSE: SE Model	Ε)							
For the Fiscal Period Ending 31/12 (Figures in Millions USD otherwise state Summary	2018A	2019A	2020A	2021A	2022A	2023E	2024E	2025E	2026E	2027E
Total Revenue Growth (%)	827	2,175 163.0%	4,376 101.2%	9,955 127.5%	12,450 25.1%	14,443 16.0%	16,573 14.8%	18,755 13.2%	21,264 13.4%	24,664 16.0%
Revenue By Segment										
Digital Entertainment Growth (%)	463	1,136 146%	2,016 77%	4,320 114%	3,877 -10%	4,295 11%	4,712 10%	5,124 9%	5,467 7%	5,778 6%
E-commerce Growth (%)	270	834 209%	2,167 160%	5,123 136%	7,289 42%	8,422 16%	9,547 13%	10,416 9%	11,175 7%	12,235 9%
Digital Finance Growth (%)	12	9 -20%	61 561%	470 673%	1,222 160%	1,652 35%	2,225 35%	3,108 40%	4,494 45%	6,497 45%
Other Services Growth (%)	84	196	132	42	62	74	89	107	128	154
Segment Contribution (%) Digital Entertainment E-commerce Digital Finance Other Services	55.9% 32.6% 1.4% 10.1%	52.2% 38.4% 0.4% 9.0%	46.1% 49.5% 1.4% 3.0%	43.4% 51.5% 4.7% 0.4%	31.1% 58.5% 9.8% 0.5%	29.7% 58.3% 11.4% 0.5%	28.4% 57.6% 13.4% 0.5%	27.3% 55.5% 16.6% 0.6%	25.7% 52.6% 21.1% 0.6%	23.4% 49.6% 26.3% 0.6%
Digital Entertainment Revenue										
Revenue	463	1,136	2,016	4,320	3,877	4,295	4,712	5,124	5,467	5,778
Quarterly Active Users (QAU) Growth (%) 1. Bull Case	170	314 85.1%	521 65.7%	689 32.2%	572 -17.0%	544 -5.0% 13.0%	516 -5.0% 12.0%	491 -5.0% 12.0%	466 -5.0% 11.0%	443 -5.0% 10.0%
2. Base Case 3. Bear Case						-5.0% -10.0%	-5.0% -10.0%	-5.0% -10.0%	-5.0% -10.0%	-5.0% -10.0%
Quarterly Paying Users (QPU) % of QAU Growth (%) 1. Bull Case 2. Base Case 3. Bear Case	8 ⁷ 4.8%	27 8.7% 232.2%	56 10.7% 104.9%	86 12.4% 52.9%	53 9.3% -37.9%	56 10.2% 10.0% 15.0% 10.0% 5.0%	58 11.2% 10.0% 15.0% 10.0% 5.0%	60 12.3% 9.0% 15.0% 9.0% 4.0%	62 13.2% 8.0% 15.0% 8.0% 3.0%	63 14.3% 8.0% 15.0% 8.0% 2.0%
Average Revenue Per Paying User (ARPPU) Growth (%) 1. Bull Case 2. Base Case 3. Bear Case	14	10 -26.1%	9 -13.4%	13 40.2%	18 44.5%	19 6.0% 10.0% 6.0% 3.0%	20 5.0% 15.0% 5.0% 3.0%	21 5.0% 20.0% 5.0% 2.0%	22 4.0% 25.0% 4.0% 2.0%	23 3.0% 30.0% 3.0% 2.0%
E-commerce Revenue										
Revenue	270	834	2,167	5,123	7,289	8,422	9,547	10,416	11,175	12,235
Gross Merchandise Value (GMV) Growth (%)	10,279	17,576 71.0%	35,356 101.2%	62,600 77.1%	73,500 17.4%	84,220 14.6%	94,897 12.7%	104,576 10.2%	115,440 10.4%	127,446 10.4%
Third-Party Revenue % of GMV 1. Bull Case 2. Base Case 3. Bear Case	177 1.7%	623 3.5%	1,724 4.9%	4,072 6.5%	5,819 7.9%	6,569 8.0% 10.0% 8.0% 4.9%	7,364 8.0% 10.3% 8.0% 5.2%	8,115 8.0% 10.6% 8.0% 5.5%	8,866 8.0% 11.0% 8.0% 5.8%	9,686 8.0% 11.3% 8.0% 6.1%
First- Party Revenue % of GMV 1. Bull Case 2. Base Case 3. Bear Case	93 0.9%	211 1.2%	443 1.3%	1,051 1.7%	1,470 2.0%	1,853 2.2% 2.0% 2.2% 1.0%	2,183 2.3% 2.0% 2.3% 1.0%	2,301 2.2% 2.0% 2.2% 1.0%	2,309 2.0% 2.0% 2.0% 1.0%	2,549 2.0% 2.0% 2.0% 1.0%
Total Number of Orders Growth (%) 1. Bull Case 2. Base Case 3. Bear Case	605	1,212 100.4%	2,821 132.8%	6,200 119.8%	7,600 22.6%	9,120 20.0% 40.0% 20.0% 10.0%	10,762 18.0% 40.0% 18.0% 10.0%	12,483 16.0% 40.0% 16.0% 10.0%	14,356 15.0% 40.0% 15.0% 10.0%	16,509 15.0% 40.0% 15.0% 10.0%

						I				I
Average Order Value Growth (%)	17	14 -14.9%	12 -13.6%	10 -19.8%	9 -4.5%	-5.0%	9 -5.0%	-5.0%	-5.0%	-5.0%
1. Bull Case		-14.570	-10.070	-13.070	-4.070	3.0%	3.0%	5.0%	5.0%	6.0%
2. Base Case						-5.0%	-5.0%	-5.0%	-5.0%	-5.0%
3. Bear Case						-15.0%	-15.0%	-17.0%	-20.0%	-20.0%
1P GMV	93	211	443	1,051	1,470	2,105	2,847	3,137	4,618	6,372
% of GMV	0.9%	1.2%	1.3%	1.7%	2.0%	2.5%	3.0%	3.0%	4.0%	5.0%
1. Bull Case						2.5%	3.0%	3.5%	4.0%	4.2%
Base Case Bear Case						2.5%	3.0% 2.1%	3.0% 2.2%	4.0% 2.4%	5.0% 2.6%
3. Deal Case						2.070	2.170	2.270	2.470	2.070
3P GMV	10,186	17,365	34,913	61,549	72,030	82,114	92,050	101,439	110,822	121,073
% of GMV 1. Bull Case	99.1%	98.8%	98.7%	98.3%	98.0%	97.5%	97.0% 99.1%	97.0%	96.0%	95.0%
2. Base Case						99.1% 97.5%	97.0%	99.1% 97.0%	99.1% 96.0%	99.1% 95.0%
3. Bear Case						93.0%	93.0%	93.0%	93.0%	93.0%
Digital Finance Revenue										
•										
Revenue	12	9	61	470	1,222	1,652	2,225	3,108	4,494	6,497
Take Rate	46.5%	23.3%	15.1%	30.7%	58.9%	60.0%	60.0%	60.0%	60.0%	60.0%
1. Bull Case 2. Base Case						70.0% 60.0%	75.0% 60.0%	80.0% 60.0%	83.0% 60.0%	85.0% 60.0%
3. Bear Case						58.0%	58.0%	55.0%	50.0%	45.0%
Loan Receivables, Net of Credit Losses	25	40 59.9%	403	1,530	2,075	2,753 32.6%	3,708 34.7%	5,180	7,490	10,829
Growth (%)		59.9%	919.0%	279.6%	35.7%	32.6%	34.7%	39.7%	44.6%	44.6%
1. Commercial	12	23	184	107	45	59	80	112	156	219
Growth (%) 1. Bull Case		90.4%	707.7%	-41.6%	-57.7%	30.0% 40.0%	35.0% 45.0%	40.0% 55.0%	40.0% 55.0%	40.0% 60.0%
2. Base Case						30.0%	35.0%	40.0%	40.0%	40.0%
3. Bear Case						10.0%	15.0%	15.0%	15.0%	15.0%
2. Consumer Growth (%)	13	17 31 4%	260 1445.7%	1,520 485.0%	2,269 49.2%	2,949 30.0%	3,982 35.0%	5,575 40.0%	8,083 45.0%	11,720 45.0%
1. Bull Case		01.470	1440.770	400.070	43.270	40.0%	45.0%	50.0%	55.0%	60.0%
2. Base Case						30.0%	35.0%	40.0%	45.0%	45.0%
3. Bear Case						10.0%	15.0%	15.0%	15.0%	15.0%
Loan Receivables	25	40	444	1,628	2,314	3,009	4,062	5,686	8,239	11,939
Credit Losses			(40)	(98)	(239)	(256)	(353)	(506)	(750)	(1,110)
% of Loan Receivables			9.1%	6.0%	10.3%	8.5%	8.7%	8.9%	9.1%	9.3%
1. Bull Case						6.0%	6.2%	6.4%	6.6%	6.8%
Base Case Bear Case						8.5% 10.3%	8.7% 10.5%	8.9% 10.7%	9.1% 10.8%	9.3%
3. Deal Case						10.370	10.5%	10.770	10.670	10.570
Other Services Revenue										
Revenue	84	196	132	42	62	74	89	107	128	154
Growth (%)		134.5%	-32.7%	-67.8%	46.0%	20.0%	20.0%	20.0%	20.0%	20.0%
1. Bull Case 2. Base Case						30.0% 20.0%	30.0% 20.0%	30.0% 20.0%	30.0% 20.0%	30.0% 20.0%
3. Bear Case						10.0%	10.0%	10.0%	10.0%	10.0%
	!:	ANYOF: 0	-\							
5	ea Limited Expense		=)							
For the Fiscal Period Ending 31/12 (Figures in Millions USD otherwise state Summary	e 2018A	2019A	2020A	2021A	2022A	2023E	2024E	2025E	2026E	2027E
Total Revenue	827	2,175	4,376	9,955	12,450	14,443	16,573	18,755	21,264	24,664
Digital Entertaiment Revenue	463	1,136	2,016	4,320	3,877	4,295	4,712	5,124	5,467	5,778
E-commerce Revenue	270	834	2,167	5,123	7,289	8,422	9,547	10,416	11,175	12,235
Digital Finance Revenue	12	9	61	470	1,222	1,652	2,225	3,108	4,494	6,497
_										
E-commerce GMV	10,279	17,576	35,356	62,600	73,500	84,220	94,897	104,576	110,440	127,446



046-0										
Cost of Revenue										
Cost of Revenue Growth (%)	(812)	(1,570) 93.4%	(3,027) 92.7%	(6,059) 100.2%	(7,264) 19.9%	(8,688) 19.6%	(9,836) 13.2%	(10,902) 10.8%	(12,090) 10.9%	(13,479) 11.5%
<u>Cost Segments</u>										
Digital Entertainment Growth (%) % of Digital Entertainment Revenue 1. Bull Case 2. Base Case 3. Bear Case	(267)	(436) 63.0% 38.4%	(702) 61.1% 34.8%	(1,230) 75.1% 28.5%	(1,077) -12.4% 27.8%	(1,288) 19.6% 30.0% 23.0% 30.0% 31.0%	(1,414) 9.7% 30.0% 20.0% 30.0% 32.0%	(1,537) 8.7% 30.0% 18.0% 30.0% 33.0%	(1,640) 6.7% 30.0% 16.0% 30.0% 34.0%	(1,733) 5.7% 30.0% 15.0% 30.0% 35.0%
E-commerce Growth (%) % of GMV 1. Bull Case 2. Base Case 3. Bear Case	(446)	(908) 103.4% 5.2%	(1,744) 92.1% 4.9%	(3,826) 119.4% 6.1%	(5,194) 35.8% 7.1%	(6,316) 21.6% 7.5% 5.8% 7.5% 7.8%	(7,212) 14.2% 7.6% 5.9% 7.6% 7.9%	(8,052) 11.7% 7.7% 6.0% 7.7% 8.0%	(9,004) 11.8% 7.8% 6.1% 7.8% 8.0%	(10,068) 11.8% 7.9% 6.2% 7.9% 8.0%
Cost of Goods Sold Growth (%) % of Total Revenue 1. Bull Case 2. Base Case 3. Bear Case	(99) 11.9%	(227) 130.3% 10.4%	(581) 155.8% 13.3%	(1,004) 72.8% 10.1%	(993) -1.0% 8.0%	(1,083) 9.0% 7.5% 6.0% 7.5% 10.7%	(1,210) 11.7% 7.3% 5.5% 7.3% 10.5%	(1,313) 8.5% 7.0% 5.0% 7.0% 10.3%	(1,446) 10.1% 6.8% 5.0% 6.8% 10.2%	(1,677) 16.0% 6.8% 4.5% 6.8% 10.2%
Operating Expenses										
Other Operating Income Growth (%) % of Total Revenue 1. Bull Case 2. Base Case 3. Bear Case	10 1.2%	16 62.2% 0.7%	190 1093.5% 4.3%	288 51.8% 2.9%	279 -3.0% 2.2%	289 3.5% 2.0% 2.3% 2.0%	298 3.3% 1.8% 2.3% 1.8%	300 0.6% 1.6% 2.2% 1.6%	319 6.3% 1.5% 2.0% 1.5%	370 16.0% 1.5% 2.0% 1.5%
Sales and Marketing Expenses	(705)	(970)	(1,831)	(3,830)	(3,269)	(3,020)	(2,994)	(2,889)	(2,908)	(3,189)
Digital Entertainment Growth (%) % of Digital Entertainment Revenue 1. Bull Case 2. Base Case 3. Bear Case	(68) 14.7%	(109) 60.3% 9.6%	(165) 51.4% 8.2%	(357) 116.4% 8.3%	(276) -22.7% 7.1%	(258) -6.6% 6.0% 4.0% 6.0% 7.0%	(236) -8.6% 5.0% 3.5% 5.0% 6.8%	(205) -13.0% 4.0% 2.5% 4.0% 6.5%	(164) -20.0% 3.0% 2.0% 3.0% 6.0%	(144) -11.9% 2.5% 1.5% 2.5% 5.5%
E-commerce Growth (%) % of GMV 1. Bull Case 2. Base Case 3. Bear Case	(603) 5.9%	(765) 26.9% 4.4%	(1,220) 59.5% 3.5%	(2,630) 115.6% 4.2%	(2,056) -21.8% 2.8%	(1,684) -18.1% 2.0% 1.8% 2.0% 2.6%	(1,423) -15.5% 1.5% 1.5% 1.5% 2.3%	(1,150) -19.2% 1.1% 1.0% 1.1% 2.0%	(1,154) 0.4% 1.0% 0.8% 1.0% 1.7%	(1,274) 10.4% 1.0% 0.8% 1.0% 1.4%
Digtal Finance Growth (%) % of Loan Receivables 1. Bull Case 2. Base Case 3. Bear Case			(415) 93.6%	(743) 79.0% 45.7%	(834) 12.2% 36.0%	(963) 15.4% 32.0% 25.0% 32.0% 35.0%	(1,218) 26.6% 30.0% 26.0% 30.0% 34.0%	(1,422) 16.7% 25.0% 20.0% 25.0% 30.0%	(1,483) 4.3% 18.0% 18.0% 27.0%	(1,671) 12.7% 14.0% 15.0% 14.0% 25.0%
Other Services Growth (%) % of Total Revenue 1. Bull Case 2. Base Case 3. Bear Case	(34) 4.1%	(96) 180.9% 4.4%	(31) -67.7% 0.7%	(100) 223.1% 1.0%	(103) 3.5% 0.8%	(116) 11.9% 0.8% 0.6% 0.8% 1.0%	(116) 0.4% 0.7% 0.5% 0.7% 0.9%	(113) -3.0% 0.6% 0.4% 0.6% 0.8%	(106) -5.5% 0.5% 0.3% 0.5% 0.7%	(99) -7.2% 0.4% 0.3% 0.4% 0.6%
Selling, General and Adminstrative Expenses Growth (%) % of Total Revenue 1. Bull Case 2. Base Case 3. Bear Case	(241) 29.1%	(386) 60.3% 17.7%	(600) 55.4% 13.7%	(988) 64.7% 9.9%	(1,438) 45.5% 11.5%	(1,878) 30.6% 13.0% 9.0% 13.0%	(2,155) 14.8% 13.0% 8.0% 13.0%	(2,438) 13.2% 13.0% 7.0% 13.0%	(2,764) 13.4% 13.0% 6.0% 13.0%	(3,206) 16.0% 13.0% 5.0% 13.0%
Digital Entertainment (Based of % Contribution to Revenue)	(135)	(202)	(276)	(429)	(448)	(558)	(613)	(666)	(711)	(751)
E-commerce (Based of % Contribution to Revenue)	(78)	(148)	(297)	(508)	(842)	(1,095)	(1,241)	(1,354)	(1,453)	(1,591)
Digital Finance (Based of % Contribution to Revenue)	(3)	(2)	(8)	(47)	(141)	(215)	(289)	(404)	(584)	(845)
Other Services (Based of % Contribution to Revenue)	(24)	(35)	(18)	(4)	(7)	(10)	(12)	(14)	(17)	(20)

Trading & Research Department *Insights through research and analysis*

Provision for Credit Losses % of Loans Receivables 1. Bull Case 2. Base Case 3. Bear Case	-	-	(58) 13.0%	(117) 7.2%	(514) 22.2%	(602) 20.0% 14.0% 20.0% 25.0%	(731) 18.0% 14.0% 18.0% 25.0%	(1,023) 18.0% 14.0% 18.0% 25.0%	(1,442) 17.5% 14.0% 17.5% 25.0%	(2,089) 17.5% 14.0% 17.5% 25.0%
Research and Development Expenses Growth (%) % of Total Revenue 1. Bull Case 2. Base Case 3. Bear Case	(68) 8.2%	(157) 132.0% 7.2%	(354) 125.9% 8.1%	(832) 135.1% 8.4%	(1,377) 65.5% 11.1%	(1,589) 15.4% 11.0% 8.0% 11.0% 12.0%	(1,823) 14.8% 11.0% 8.5% 11.0% 12.0%	(2,063) 13.2% 11.0% 9.0% 11.0% 12.0%	(2,339) 13.4% 11.0% 9.5% 11.0% 12.0%	(2,713) 16.0% 11.0% 9.5% 11.0% 12.0%
Digital Entertainment (Based of % Contribution to Revenue)	(38)	(82)	(163)	(361)	(429)	(472)	(518)	(564)	(601)	(636)
E-commerce (Based of % Contribution to Revenue)	(22)	(60)	(175)	(428)	(806)	(926)	(1,050)	(1,146)	(1,229)	(1,346)
Digital Finance (Based of % Contribution to Revenue)	(1)	(1)	(5)	(39)	(135)	(182)	(245)	(342)	(494)	(715)
Other Services (Based of % Contribution to Revenue)	(7)	(14)	(11)	(4)	(7)	(8)	(10)	(12)	(14)	(17)
Income Tax Expenses										
Pre-Tax Income (Loss)	(954)	(1,369)	(1,483)	(1,715)	(1,500)	(1,234)	(583)	22	606	1,278
Tax Expense Effective Tax Rate (%)	(4) 0.4%	(86) 6.3%	(142) 9.6%	(333) 19.4%	(168) 11.2%	210 17.0%	99 17.0%	(4) 17.0%	(103) 17.0%	(217) 17.0%
Interest income										
Interest Income Growth (%) % of Total Revenue 1. Bull Case 2. Base Case 3. Bear Case	12 1.4%	34 194.6% 1.6%	25 -26.9% 0.6%	36 45.5% 0.4%	116 220.1% 0.9%	260 125.1% 1.8% 2.0% 1.8% 0.5%	381 46.6% 2.3% 2.5% 2.3% 0.5%	488 27.9% 2.6% 3.0% 2.6% 0.5%	595 22.1% 2.8% 3.5% 2.8% 0.5%	740 24.3% 3.0% 4.0% 3.0%



Appendix F - Supporting Schedules

		Limited (NYSE: ing Capital Sche								
For the Fiscal Period Ending 31/12 (Figures in Millions USD otherwise stated Summary	2018A	2019A	2020A	2021A	2022A	2023E	2024E	2025E	2026E	2027E
•										
BOP EOP	1/1/2018 31/12/2018	1/1/2019 31/12/2019	1/1/2020 31/12/2020	1/1/2021 31/12/2021	1/1/2022 31/12/2022	1/1/2023 31/12/2023	1/1/2024	1/1/2025	1/1/2026	1/1/2027
Days	31/12/2018	31/12/2019	31/12/2020	31/12/2021	31/12/2022	365	366	365	365	365
Total Revenue	827	2,175	4,376	9,955	12,450	14,443	16,573	18,755	21,264	24,664
Total Cost of Revenue	(812)	(1,570)	(3,027)	(6,059)	(7,264)	(8,688)	(9,836)	(10,902)	(12,090)	(13,479)
Fotal Operating Expenses	(1,004)	(1,496)	(2,652)	(5,479)	(6,673)	(6,799)	(7,404)	(8,114)	(9,134)	(10,828)
EBT	(954)	(1,369)	(1,483)	(1,715)	(1,500)	(1,234)	(583)	22	606	1,278
Current Assets										
Accounts Receivables, Net Accounts Receivable Days	98 43	187 31	363 30	388 14	269 8	237 6	272 6	308 6	350 6	405 6
Prepaid Expenses and Other Assets % of Total Revenue	312 37.8%	535 24.6%	1,054 24.1%	1,402 14.1%	1,799 14.4%	2,022 14.0%	2,320 14.0%	2,626 14.0%	2,977 14.0%	3,453 14.0%
	571575	211070					•			
Loans Receivables, Net % of Total Revenue	0.0%	0.0%	286 6.5%	1,501 15.1%	2,054 16.5%	1,834 12.7%	2,105 12.7%	2,382 12.7%	2,701 12.7%	3,132 12.7%
70 St Fold Novellage						12.770	12.770	12.770	12.770	12.770
Inventories, Net Inventory Days	38 17	27 6	64 8	117 7	110 6	167 7	188	209 7	232	258 7
Short-Term Investments	1	102	126	911	864	852	978	1,107	1,255	1,455
% of Total Revenue	0.1%	4.7%	2.9%	9.2%	6.9%	5.9%	5.9%	5.9%	5.9%	5.9%
Amounts Due from Related Parties % of Cost of Total Revenue	5 0.6%	5 0.3%	19 0.6%	16 0.3%	13 0.2%	9 0.1%	10 0.1%	0.1%	12 0.1%	13 0.1%
Non-Current Assets										
Long-Term Investments	111	114	190	1,053	1,254	1,257	1,442	1,632	1,850	2,146
% of Total Revenue	13.4%	5.2%	4.4%	10.6%	10.1%	8.7%	8.7%	8.7%	8.7%	8.7%
Prepaid Expenses and Other Assets % of Total Revenue	69 8.4%	66 3.0%	205 4.7%	125 1.3%	136 1.1%	159 1.1%	182 1.1%	206 1.1%	234 1.1%	271 1.1%
Loans Receivables, Net % of Total Revenue	0.0%	0.0%	117 2.7%	29 0.3%	22 0.2%	29 0.2%	33 0.2%	38 0.2%	43 0.2%	49 0.2%
Deferred Tax Assets % of Total Revenue	69 0.2%	66 0.2%	205 0.5%	125 0.3%	136 0.3%	899 2.0%	906	913 2.0%	920 2.0%	928 2.0%
Operating Lease Right-Of-Use Assets, Net	-	183	235	650	958	1,011	1,160	1,313	1,488	1,726
% of Total Revenue	0.0%	8.4%	5.4%	6.5%	7.7%	7.0%	7.0%	7.0%	7.0%	7.0%
Current Liabilities										
Accounts Payables, Net Accounts Payables Days	37 17	69 16	122 15	214 13	259 13	309 13	349 13	388 13	431 13	480 13
Accrued Expenses and Other Payables % of Cost of Total Revenue	637 78.4%	981 62.5%	2,033 67.2%	1,520 25.1%	1,397 19.2%	1,738 20.0%	1,180 12.0%	1,090 10.0%	1,209 10.0%	1,348 10.0%
Deposits Payable	-	-	-	466	1,316	1,121	1,269	1,406	1,560	1,739
% of Cost of Total Revenue	0.0%	0.0%	0.0%	7.7%	18.1%	12.9%	12.9%	12.9%	12.9%	12.9%
Advances from Customers % of Cost of Total Revenue	29 3.6%	65 4.1%	161 5.3%	1,790 29.5%	1,862 25.6%	1,998 23.0%	2,262 23.0%	2,508 23.0%	2,781	3,100 23.0%
Amounts Due from Related Parties % of Cost of Total Revenue	46 5.7%	35 2.2%	43 1.4%	75 1.2%	0 0.0%	113 1.3%	128 1.3%	142 1.3%	157 1.3%	175 1.3%
Deferred Revenue % of Total Revenue	427 51.6%	1,098 50.5%	2,150 49.1%	2,644 26.6%	1,535 12.3%	1,444	1,326 8.0%	1,313 7.0%	1,276 6.0%	1,233 5.0%
% of Total Revenue Income Tax Payable	10	27	49.1%	181	177	(160)	(87)	7.0%	97	205
% of EBT	1.0%	2.0%	3.5%	10.6%	11.8%	13.0%	15.0%	15.0%	16.0%	16.0%
Non-Current Liabilities										
Accrued Expenses and Other Payables % of Cost of Total Revenue	8 1.0%	26 1.6%	36 1.2%	76 1.3%	87 1.2%	113 1.3%	128 1.3%	142 1.3%	157 1.3%	175 1.3%
Deferred Revenue % of Total Revenue	171 20.7%	161 7.4%	343 7.8%	105 1.1%	64 0.5%	72 0.5%	83 0.5%	94 0.5%	106 0.5%	123 0.5%
Deferred Tax Liabilities	1	1	2	7	10	(4)	(2)	0	2	4
% of EBT	0.1%	0.1%	0.1%	0.4%	0.7%	0.3%	0.3%	0.3%	0.3%	0.3%



	Se	ea Limited (NYS PPE Schedul								
For the Fiscal Period Ending 31/12 (Figures in Millions USD otherwise state)	2018A	2019A	2020A	2021A	2022A	2023E	2024E	2025E	2026E	2027E
Revenue	827	2,175	4,376	9,955	12,450	14,443	16,573	18,755	21,264	24,664
PPE Schedule										
Computers	208.44	339.22	522.11	883.25	1,381.80	1,908.80	2,513.55	3,197.89	3,973.79	4,873.76
Office Equipment, Furniture and Fittings Leasehold Improvements	15.45 63.78	24.88 129.30	31.61 162.03	43.06 252.78	62.26 381.44	86.01 526.92	113.26 693.86	144.09 882.77	179.05 1,096.96	219.61 1,345.39
Transportation Assets	5.07	14.62	6.18	208.70	123.84	171.06	225.26	286.59	356.13	436.78
Warehouse Equipment	-	3.46	7.30	20.80	36.02	49.76	65.53	83.37	103.60	127.06
Land	-	20.60	22.71	196.42	272.04	375.80	494.86	629.59	782.34	959.52
Building Construction-in-progress	-	0.81	2.09 0.97	1.96 22.95	14.70 51.58	20.31 51.58	26.74 51.58	34.02 51.58	42.28 51.58	51.86 51.58
Total PPE, at cost	292.74	532.90	755.01	1,629.91	2,323.68	3,190.24	4,184.63	5,309.90	6,585.73	8,065.55
Less: Accumulated Depreciation Net PPE	(100.38) 192.36	(214.28) 318.62	(368.61) 386.40	(599.95) 1,029.96	(935.78) 1,387.90	(1,520.17) 1,670.07	(2,310.49) 1,874.13	(3,333.85) 1,976.05	(4,621.43) 1,964.30	(6,215.47) 1,850.08
PPE										
FY2022 PPE:	Value	% of Total PPE	Average Useful Life	% of CAPEX						
Computers	1,381.80	59.47%	4 Years	60.8%						
Office Equipment, Furniture and Fittings	62.26	2.68%	6 Years	2.7%						
Leasehold Improvements	381.44	16.42%	5 Years	16.8%						
Transportation Assets Warehouse Equipment	123.84 36.02	5.33% 1.55%	7 Years 6 Years	5.5% 1.6%						
Land	272.04	11.71%	20 Years	12.0%						
Building	14.70	0.63%	13 Years	0.6%						
Construction-in-progress Total PPE	51.58 2,323.68	2.22%	-	-						
Capital Expenditure % of Total Revenue	178 21.6%	247 11.4%	357 8.2%	807 8.1%	976 7.8%	867 6.0%	994 6.0%	1,125 6.0%	1,276 6.0%	1,480 6.0%
Addition of CAPEX										
Computers						527	605	684	776	900
Office Equipment, Furniture and Fittings						24 145	27 167	31 189	35 214	41 248
Leasehold Improvements Transportation Assets						145 47	54	61	70	248 81
Warehouse Equipment						14	16	18	20	23
Land						104	119	135	153	177
Building						6	6	7	8	10
Depreciation										
Existing Depreciation of PPE	54.90	116.78	169.07	260.68	404.93	404.93	404.93	404.93	404.93	404.93
New Depreciation of PPE Total Depreciation	54.90	116.78	169.07	260.68	404.93	179.46 584.39	385.39 790.32	618.43 1,023.36	882.65 1,287.58	1,189.12 1,594.04
Depreciation of Existing PPE	54.90	116.78	169.07	260.68	404.93	404.93	404.93	404.93	404.93	404.93
Depreciation of New PPE										
Computers										
computers				FY 2023E	527.01	131.75	131.75	131.75	131.75	131.75
				FY 2024E	604.74		151.19	151.19	151.19	151.19
				FY 2025E FY 2026E	684.34 775.91			171.09	171.09 193.98	171.09 193.98
				FY 2027E	899.97				133.36	224.99
						131.75	282.94	454.02	648.00	872.99
Office Equipment, Furniture and Fittings										
				FY 2023E FY 2024E	23.75 27.25	3.96	3.96 4.54	3.96 4.54	3.96 4.54	3.96 4.54
				FY 2024E	30.84		4.34	5.14	5.14	5.14
				FY 2026E	34.96			0.2.	5.83	5.83
				FY 2027E	40.55	3.96	8.50	13.64	19.47	6.76 26.22
Leasehold Improvements				EV 22						
				FY 2023E FY 2024E	145.48 166.94	29.10	29.10 33.39	29.10 33.39	29.10 33.39	29.10 33.39
				FY 2024E FY 2025E	188.91		33.33	37.78	37.78	37.78
										42.84
				FY 2026E	214.19				42.84	40.60
					214.19 248.43	29.10	62.48	100.27	143.10	49.69 192.79
Transportation Assets				FY 2026E FY 2027E FY 2023E		29.10 6.75	6.75	100.27 6.75	143.10 6.75	192.79 6.75
Transportation Assets				FY 2026E FY 2027E FY 2023E FY 2024E	248.43 47.23 54.20			6.75 7.74	143.10 6.75 7.74	192.79 6.75 7.74
Transportation Assets				FY 2026E FY 2027E FY 2023E FY 2024E FY 2025E	248.43 47.23 54.20 61.33		6.75	6.75	143.10 6.75 7.74 8.76	192.79 6.75 7.74 8.76
Transportation Assets				FY 2026E FY 2027E FY 2023E FY 2024E FY 2025E FY 2026E	248.43 47.23 54.20 61.33 69.54		6.75	6.75 7.74	143.10 6.75 7.74	192.79 6.75 7.74 8.76 9.93
				FY 2026E FY 2027E FY 2023E FY 2024E FY 2025E	248.43 47.23 54.20 61.33		6.75	6.75 7.74	143.10 6.75 7.74 8.76	192.79 6.75 7.74 8.76
				FY 2026E FY 2027E FY 2023E FY 2024E FY 2025E FY 2026E FY 2027E	248.43 47.23 54.20 61.33 69.54 80.65	6.75	6.75 7.74 14.49	6.75 7.74 8.76	143.10 6.75 7.74 8.76 9.93	192.79 6.75 7.74 8.76 9.93 11.52 44.71
				FY 2026E FY 2027E FY 2023E FY 2024E FY 2025E FY 2026E	248.43 47.23 54.20 61.33 69.54	6.75	6.75 7.74	6.75 7.74 8.76	143.10 6.75 7.74 8.76 9.93	192.79 6.75 7.74 8.76 9.93 11.52
Transportation Assets Warehouse Equipment				FY 2028E FY 2027E FY 2023E FY 2024E FY 2025E FY 2026E FY 2027E FY 2027E FY 2023E FY 2024E FY 2025E	248.43 47.23 54.20 61.33 69.54 80.65 13.74 15.77 17.84	6.75	6.75 7.74 14.49 2.29	6.75 7.74 8.76 23.25	143.10 6.75 7.74 8.76 9.93 33.18 2.29 2.63 2.97	192.79 6.75 7.74 8.76 9.93 11.52 44.71 2.29 2.63 2.97
				FY 2026E FY 2027E FY 2023E FY 2024E FY 2025E FY 2026E FY 2027E FY 2027E	248.43 47.23 54.20 61.33 69.54 80.65	6.75	6.75 7.74 14.49 2.29	6.75 7.74 8.76 23.25 2.29 2.63	143.10 6.75 7.74 8.76 9.93 33.18 2.29 2.63	192.79 6.75 7.74 8.76 9.93 11.52 44.71 2.29 2.63



Trading & Research Department

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For the Fiscal Period Ending 31/12 (Figures in Millions USD otherwise stated Dening Balance (+) Additions Growth (%) Fotal Intangible Assets before Amortization (-) Amortization % of Intangible Asset Ending Balance For the Fiscal Period Ending 31/12 (Figures in Millions USD otherwise stated		a Limited (NYSE ntangible Asse 2019A 13 7 31.2% 20	e: SE)	FY 2023E FY 2024E FY 2025E FY 2026E FY 2027E FY 2023E FY 2024E FY 2025E FY 2026E FY 2027E	103.75 119.06 134.73 152.76 177.18 5.61 6.43 7.28 8.26 9.58	5.19 0.43	5.19 5.95 11.14 0.43 0.49	5.19 5.95 6.74 17.88 0.43 0.49 0.56	5.19 5.95 6.74 7.64 25.52 0.43 0.49 0.56 0.64	5.19 5.95 6.74 7.64 8.86 34.37 0.43 0.49 0.56 0.64 0.74 2.86
For the Fiscal Period Ending 31/12 (Figures in Millions USD otherwise stated Dening Balance (+) Additions Growth (%) Total Intangible Assets before Amortization (-) Amortization % of Intangible Assets before Amortization ntangible Asset Ending Balance	2018A 37 5 43 (24) 56.0%	2019A 13 7 31.2% 20	E: SE) 2020A	FY 2024E FY 2025E FY 2026E FY 2027E FY 2023E FY 2024E FY 2025E FY 2026E FY 2027E	119.06 134.73 152.76 177.18 5.61 6.43 7.28 8.26 9.58	5.19 0.43	11.14 0.43 0.49	17.88 0.43 0.49 0.56	5.95 6.74 7.64 25.52 0.43 0.49 0.56 0.64	5.95 6.74 7.64 8.86 34.37 0.43 0.49 0.56 0.64 0.74
For the Fiscal Period Ending 31/12 (Figures in Millions USD otherwise stated Dening Balance (+) Additions Growth (%) Total Intangible Assets before Amortization (-) Amortization % of Intangible Assets before Amortization ntangible Asset Ending Balance	2018A 37 5 43 (24) 56.0%	2019A 13 7 31.2% 20	E: SE) ets 2020A	FY 2026E FY 2027E FY 2023E FY 2024E FY 2025E FY 2026E FY 2027E	152.76 177.18 5.61 6.43 7.28 8.26 9.58	0.43	0.43 0.49	17.88 0.43 0.49 0.56	7.64 25.52 0.43 0.49 0.56 0.64	7.64 8.86 34.37 0.43 0.49 0.56 0.64 0.74
For the Fiscal Period Ending 31/12 (Figures in Millions USD otherwise stated Dening Balance (+) Additions Growth (%) Total Intangible Assets before Amortization (-) Amortization % of Intangible Assets before Amortization ntangible Asset Ending Balance	2018A 37 5 43 (24) 56.0%	2019A 13 7 31.2% 20	E: SE) ets 2020A	FY 2027E FY 2023E FY 2024E FY 2025E FY 2026E FY 2027E	5.61 6.43 7.28 8.26 9.58	0.43	0.43 0.49	0.43 0.49 0.56	25.52 0.43 0.49 0.56 0.64	8.86 34.37 0.43 0.49 0.56 0.64 0.74
For the Fiscal Period Ending 31/12 (Figures in Millions USD otherwise stated Dening Balance (+) Additions Growth (%) Total Intangible Assets before Amortization (-) Amortization % of Intangible Assets before Amortization ntangible Asset Ending Balance	2018A 37 5 43 (24) 56.0%	2019A 13 7 31.2% 20	E: SE) ets 2020A	FY 2023E FY 2024E FY 2025E FY 2026E FY 2027E	5.61 6.43 7.28 8.26 9.58	0.43	0.43 0.49	0.43 0.49 0.56	0.43 0.49 0.56 0.64	34.37 0.43 0.49 0.56 0.64 0.74
For the Fiscal Period Ending 31/12 (Figures in Millions USD otherwise stated Dening Balance (+) Additions Growth (%) Total Intangible Assets before Amortization (-) Amortization % of Intangible Assets before Amortization ntangible Asset Ending Balance	2018A 37 5 43 (24) 56.0%	2019A 13 7 31.2% 20	E: SE) ets 2020A	FY 2024E FY 2025E FY 2026E FY 2027E	6.43 7.28 8.26 9.58	0.43	0.49	0.49 0.56	0.49 0.56 0.64	0.49 0.56 0.64 0.74
Opening Balance (+) Additions Growth (%) Total Intangible Assets before Amortization (-) Amortization % of Intangible Assets before Amortization ntangible Asset Ending Balance	2018A 37 5 43 (24) 56.0%	2019A 13 7 31.2% 20	E: SE) ets 2020A	FY 2024E FY 2025E FY 2026E FY 2027E	6.43 7.28 8.26 9.58	0.43	0.49	0.49 0.56	0.49 0.56 0.64	0.49 0.56 0.64 0.74
Opening Balance (+) Additions Growth (%) Total Intangible Assets before Amortization (-) Amortization % of Intangible Assets before Amortization ntangible Asset Ending Balance	2018A 37 5 43 (24) 56.0%	2019A 13 7 31.2% 20	E: SE) ets 2020A	FY 2026E FY 2027E	8.26 9.58		0.93		0.64	0.64 0.74
Opening Balance (+) Additions Growth (%) Total Intangible Assets before Amortization (-) Amortization % of Intangible Assets before Amortization ntangible Asset Ending Balance	2018A 37 5 43 (24) 56.0%	2019A 13 7 31.2% 20	E: SE) ets 2020A	FY 2027E 2021A	9.58		0.93	1.49		0.74
Opening Balance (+) Additions Growth (%) Total Intangible Assets before Amortization (-) Amortization % of Intangible Assets before Amortization ntangible Asset Ending Balance	2018A 37 5 43 (24) 56.0%	2019A 13 7 31.2% 20	2020A	2021A			0.93	1.49	2.12	
Opening Balance (+) Additions Growth (%) Total Intangible Assets before Amortization (-) Amortization % of Intangible Assets before Amortization ntangible Asset Ending Balance	2018A 37 5 43 (24) 56.0%	2019A 13 7 31.2% 20	2020A 15		2022A					
Opening Balance (+) Additions Growth (%) Total Intangible Assets before Amortization (-) Amortization % of Intangible Assets before Amortization ntangible Asset Ending Balance	2018A 37 5 43 (24) 56.0%	2019A 13 7 31.2% 20	2020A 15		2022A					
Opening Balance (+) Additions Growth (%) Total Intangible Assets before Amortization (-) Amortization % of Intangible Assets before Amortization ntangible Asset Ending Balance	37 5 43 (24) 56.0%	13 7 31.2% 20	15		2022A					
(+) Additions Growth (%) Total Intangible Assets before Amortization (-) Amortization % of Intangible Assets before Amortization ntangible Asset Ending Balance	5 43 (24) 56.0%	7 31.2% 20				2023E	2024E	2025E	2026E	2027E
Growth (%) Fotal Intangible Assets before Amortization (-) Amortization % of Intangible Assets before Amortization Intangible Asset Ending Balance	43 (24) 56.0%	31.2% 20	15	40	53	65	192.58	371.18	603.34	905.16
Fotal Intangible Assets before Amortization (-) Amortization % of Intangible Assets before Amortization ntangible Asset Ending Balance	(24) 56.0%	20	13	104	91	127.57	178.59	232.17	301.82	362.18
(-) Amortization % of Intangible Assets before Amortization nangible Asset Ending Balance	(24) 56.0%		112.5%	612.1%	-12.5%	40.0%	40.0%	30.0%	30.0%	20.0%
% of Intangible Assets before Amortization ntangible Asset Ending Balance	56.0%	(5)	30 (12)	144 (91)	144 (79)	193 (92.44)	371 (178.16)	603 (289.61)	905 (434.48)	1,267 (608.33)
ntangible Asset Ending Balance		24.5%	39.4%	63.5%	54.7%	48.0%	48.0%	48.0%	48.0%	48.0%
or the Fiscal Period Ending 31/12 (Figures in Millions USD otherwise stated		15	18	53	65	100	193	314	471	659
or the Fiscal Period Ending 31/12 (Figures in Millions USD otherwise stated	Sea	a Limited (NYSE	E: SE)							
For the Fiscal Period Ending 31/12 (Figures in Millions USD otherwise stated		Debt Schedule	e							
	2018A	2019A	2020A	2021A	2022A	2023E	2024E	2025E	2026E	2027E
nterest Expense						630	479	385	210	-
Cash Flows before Revolving Cash Facility										
Cash Flows from Operating Activities						(677)	(195)	1,212	2,249	3,151
Cash Flows from Investing Activities (+) Beginning Cash Balance						(1,760) 7,610	(1,322) 4,842	(1,510) 3,142	(1,753) 1,668	(2,080) 90
(+) New Long-Term Borrowings						-	-,042	-	-	-
(-) Target Minimum Cash Balance						5000.00	5000.00	5000.00	5000.00	5000.00
Available Cash before Short-Term Borrowings						174	(1,676)	(2,157)	(2,836)	(3,839)
Convertible Notes Schedule										
Debt	Principle Amount	ear of Maturity	Effective I/R	Valued (FY22)						
2023 Convertible Notes	575									
Equity Component	153	FY2023	9.38%	31						
Jability Component	411									
Debt Issuance Cost	(11)									
Beginning Principal Amount						575	-	-	-	-
Principal Repayment						(575)			-	
Ending Principal Amount					575	-	-	-	-	-
nterest Payment						27	-	-	-	-
2024 Convertible Notes	1,150									
Equity Component	241	FY 2024	6.03%	151						
iability Component	898									
Debt Issuance Cost	(12)									
Beginning Principal Amount						1,150	1,150	_	_	_
Principal Repayment						-	(1,150)	-	-	-
Ending Principal Amount nterest Payment					1,150	1,150 69	69	-	-	-
025 Convertible Notes	1,150									
quity Component	285	EV 2025	0.000							
iability Component	857	FY 2025	8.21%	1,145						
Debt Issuance Cost	(9)									
leginning Principal Amount						1,150	1,150	1,150	-	-
rincipal Repayment nding Principal Amount					1,150	1,150	1,150	(1,150)	-	-
nterest Payment					1,130	94	94	94	-	-
026 Convertible Notes	2,875									
quity Component	487	FY 2026	4.27%	2,042						
iability Component	2,359			-, - · -						
Debt Issuance Cost	(29)									
						2,875	2,875	2,875	2,875	_
leginning Principal Amount rincipal Repayment						_	-	-	(2,875)	-
					2,875	- 2,875	2,875		(2,875) -	



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Revolving Credit Facility Effective Interest Rate: 3.98% Beginning Revolver Balance 149 0 (+) Drawdown - </th <th>0 0.00</th> <th>- 0</th> <th>- 0</th>	0 0.00	- 0	- 0
149 0 0 0 0 0 0 0 0 0 0	- 0	- 0	- 0
149 0 0 0 0 0 0 0 0 0 0	- 0	- 0	- 0
(+) Drawdown - - (-) Paydown [149] - Ending Revolver Balance 0 0	- 0	- 0	- 0
(-) Paydown (149) - Ending Revolver Balance 0 0	- 0	- 0	- 0
Ending Revolver Balance 0 0 0			
Interest Expense (Revolver) 2.97 0.00	0.00	0.00	0.00
			- 11
Short Term Debt			
SHORT TERM DEBT			
Current Lease liabilities			
Beginning Balance 270 -	-		-
Additions	-	-	-
Repayments (270) -	-	-	-
Ending Balance - 56 75 186 270	-	-	-
Long Term Debt			
Convertible Notes 2023 2024	2025	2026	
Beginning Balance 3,370 3,339	3,187	2,042	-
Additions	-	-	-
Repayments (31) (151)	(1,145)	(2,042)	-
Ending Balance 1,062 1,356 1,840 3,476 3,370 3,339 3,187	2,042	-	-
Interest Expense (Convertible Notes) 313 192	168	87	-
Non-Current Lease liabilities			
Beginning Balance 757 836	915	994	1,073
Additions 144 34 313 266 189 189	189	189	189
Repayments [110] [110]	(110)	(110)	(110)
Ending Balance - 144 178 491 757 836 915	994	1,073	1,152



4. Rest of the World Spain

Poland

Country Risk Premium

Avg

Appendix G – Terminal Growth Rate & Country Risk Premium Computation

2.34%

1.24% 1.79%

2.69%

		Sea Limited (NY GDP Compu	SE: SE)	
		GDF Compu	auon	
	Southeast-Asia			Rest of World Notes
Total Revenue for FY 22 Revenue per geographical segment	8,321	12,450 2,044) 1,727	357
% of Revenue in Respective Segment	66.84%	16.42%		2.87%
Market Risk Premium [As of 1st Jan 2024]	1.68%	5.76%		1% Damodaran - Country Risk Premium (GDP weighted)
Weighted TGR Based on Market Risk Premiums	01	2.24%		
		imited (NY		
	Cour	ntry Risk P	remium	
Geographical segment	Country Risk Premium			
1. Southeast-Asia				
Indonesia	2.78%			
Malaysia	1.75%			
Philippines	2.78%			
Singapore	0.00%			
Thailand	2.34%			
Vietnam	4.40%			
Avg	2.34%			
2. Latin America				
Argentina	17.55%			
Brazil	4.40%			
Chile	1.24%			
Colombia	2.78%			
Mexico	2.78%			
Avg	5.75%			
3. Rest of Asia				
Taiwan	0.88%			



Appendix H – Weighted Average Cost of Capital (WACC) Computation

	Sea Lim	nited (NYSE: DCF	SE)							
For the Fiscal Period Ending 31/12 (Figures in Millions USD otherwise stated)	2018A	2019A	2020A	2021A	2022A	2023E	2024E	2025E	2026E	2027E
WACC Computation										
Capital Structure					Notes					
Market Cap Book Value of Debt Market D/E				4,096	NASDAQ As o	of 9/1/2024				
Market Ore. % of Equity % of Debt				0.19 84.2% 15.8%						
Beta										
Quick Comps										
Company Name NetEase, Inc Grab Holdings Limited Asphere Innovations Public Company Limited Alibaba Bilibili Inc Amazon Average		N G A B B	icker ITES GRAB S IS IABA IILI MZN	Unlevered Beta (5Y) 0.57 0.91 0.95 0.55 1.16 0.865						
Cost of Equity					Notes					
Risk-Free Rate Unlevered Beta from Peers Re-levered Beta Equity Risk Premium Country Risk Premium Cost of Equity				0.865 1.00 4.60%	US 10Y Treas Average Unle Hamada Equ Damodaran Damodaran CAPM	vered Beta of	Comps			
Cost of Debt					Notes					
Pre-tax Cost of Debt Tax Rate After-Tax Cost of Debt				1.11% 17% 0.92%	Management	's Tax Policy i	n Accordance	to Singapore (Corporate Tax	Rate
Weighed Average Cost of Capital WACC				9.69%						



Appendix I – Discounted Cash Flow (DCF) Valuation

FCFF Computation										
For the Fiscal Period Ending 31/12 (Figures in Millions USD otherwise stated)	2018A	2019A	2020A	2021A	2022A	2023E	2024E	2025E	2026E	2027E
Revenue	827	2,175	4,376	9,955	12,450	14,443	16,573	18,755	21,264	24,664
Growth (%)		163%	101%	128%	25%	16%	15%	13%	13%	16%
EBITDA	(989)	(891)	(1,303)	(1,583)	(1,487)	(1,045)	(666)	(262)	39	357
Margin (%)	-119.53%	-40.97%	-29.78%	-15.90%	-11.95%	-7.23%	-4.02%	-1.40%	0.19%	1.45%
EBIT	(910)	(770)	(1,123)	(1,304)	(1,059)	(368)	302	1,051	1,761	2,560
Margin (%)	-110.01%	-35.38%	-25.65%	-13.10%	-8.51%	-2.55%	1.82%	5.61%	8.28%	10.38%
Income Tax	(4)	(86)	(142)	(333)	(168)	210	99	(4)	(103)	(217)
Tax Rate (%)	0.4%	6.3%	9.6%	19.4%	11.2%	17.0%	17.0%	17.0%	17.0%	17.0%
NOPAT	(914)	(856)	(1,264)	(1,637)	(1,227)	(158)	401	1,048	1,658	2,342
Margin (%)	-110.51%	-39.33%	-28.89%	-16.44%	-9.86%	-1.10%	2.42%	5.59%	7.80%	9.50%
Add: Depreciation and Amortization	79	122	181	279	428	584	790	1,023	1,288	1,594
% of Revenue	9.52%	5.59%	4.13%	2.80%	3.44%	4.05%	4.77%	5.46%	6.06%	6.46%
Less: Capital Expenditure	(178)	(247)	(357)	(807)	(976)	(867)	(994)	(1,125)	(1,276)	(1,480)
% of Revenue	-21.57%	-11.36%	-8.16%	-8.11%	-7.84%	-6.00%	-6.00%	-6.00%	-6.00%	-6.00%
Less: NWC Changes						(341)	(691)	(131)	13	(124)
% of Revenue										
Unlevered Free-Cash Flow						(781)	(494)	815	1,684	2,333
PV of FCFF										
Valuation Date	9/1/2024									
Fiscal Year End	31/12/2023					31/12/2023	31/12/2024	31/12/2025	31/12/2026	31/12/2027
Period						0.03	0.98	1.98	2.98	3.98
Mid-Year Adjustment						0.01	0.49	0.99	1.49	1.99
UFCF PV of FCFF (Gordon Growth Method)						(781) (782)	(494) (517)	815 893	1,684 1,932	2,333 2,804
						, , , , , ,	1-7-7			

Perpetuity Growth Method

Sum of PV of FCFF	\$	4,330.57
Terminal Growth Rate		2.24%
Terminal Value	\$	32,017.58
PV of Terminal Value	\$	22,165.64
Enterprise Value	\$	26,496.21
Less: Debt	-\$	4,095.57
Add: Cash	\$	6,029.86
Implied Equity Value	\$	28,430.50
Number of Outstanding Shares		554
Implied Equity Value Per Share	\$	51.34
Current Share Price	\$	38.60 As of 8/1/2024
Potential Upside		33.00%

Sensitivity Analysis

 Increment for WACC
 0.50%

 Increment for TGR
 0.50%

				reminal drown nate		
	51.34	1.24%	1.74%	2.24%	2.74%	3.24%
	8.69%	52.26	55.44	59.11	63.39	68.46
	9.19%	49.06	51.79	54.93	58.54	62.77
WACC	9.69%	46.25	48.63	51.33	54.42	57.99
	10.19%	43.78	45.87	48.22	50.88	53.93
	10.69%	41.60	43.44	45.50	47.81	50.44



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