

### **Asia Online Games**

# Post-COVID slowdown persisting into 30: Inflection point and pipelines key to watch; top ideas across the region

In this July-Aug edition of our Asia Online Games series, we expand our analysis to the broader **Asia Pacific region** (**c.60%** of worldwide mobile game revenue as of July), tracking the top **15 regional game publishers** across mainland China, South Korea, ASEAN, and Japan and the top **1,500 mobile games** by revenue in the world.

**July (global mobile game revenue -11% yoy,** mainland China -6%/Korea -6%/AESAN -8%/Japan +9%) continues to be a contrasting month with short-term industry fundamentals pressured by weaker broader gaming environment/post-COVID normalization, while leading game companies still envision long-term prospects of existing IP and forward pipeline by pursuing quality studios/developers through M&A.

**Investors' top of mind questions include: 1)** Asia game market post-Covid slowdown in the face of rising macroeconomic volatility, and potential inflection timeline before end-2022; **2)** China Banhao approvals for international games, especially for mainland China's top 2 players Tencent/NTES, **3)** Secular growth opportunities offered by the game verticals, with global game-related M&A remaining solid in both volume/transaction value in YTD2022, despite weaker near-term trends.

### What to expect next:

Most gaming companies will report in next 2 weeks (detail dates in Exhibit 1), and we see forward guidance on 3Q trends, new game pipelines, and levers for legacy games as key points to monitor. Into 2H22, we see a continued post-Covid normalization trend in the global gaming market, both in/outside mainland China. We believe the broad **growth slowdown is likely to persist till 4Q22**, given the relatively high comps and varied reopening trend across regions. Key focus areas remain on the resilience of legacy games, Banhao approvals for Tencent/NTES and slowdown/inflection timeline for *PUBG mobile/Free Fire* titles.

**Investment ideas: Buy** -Tencent, NetEase (NTES/9999.HK), SEA; **Sell** - Netmarble, Krafton

Relevant reports: 1) NetEase Inc.(NTES): 2Q preview: likely another solid quarter

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on market share gain; re-sizing Diablo China revenue; Buy

- 2) **Sea Ltd. (SE)**: 2Q22 Preview: Expect GMV growth to decelerate but eCommerce cash burn to improve sequentially; Buy
- 3) **Krafton (259960.KS)**: In-line 2Q earnings expected but Street overly bullish on The Callisto Protocol; Maintain Sell; **NCSOFT Corp. (036570.KS)**: 2Q22E preview; Expect weak OP from steeper sequential LW revenue decline; Maintain Neutral

Exhibit 1: Summary of our Asia Game coverage: Key watch points and debates, timeline of catalyst events, and differences between current 2022-July 2022 grossing run rate and our estimates

For Sea/Garena, the game revenue figure is referring to gross billing

Region		Rating	2021	2021	2Q22E game Rev %yoy					2Q22 Rev %yoy	July 202 Rev %yo
China	Ticker		Game Rev (US\$ mn)	Game % of group Rev	GSe Consensus	Key watch points & debates	Timeframe	2Q22 report date	SensorT	ower gross game only	
Tencent	700.HK	Buy	33,040	37%	-4% -1%	International banhao approval grants	Since Aug-2022	8/17/2022	Global	-3%	-13%
						2. Stablization of domestic game after base re-set	Since Sept-2022		China	4%	-8%
						3. Intl. pipeline meets post-COVID slowdown	2H22				
NetEase	NTES	Buy	9,882	72%	13% 14%	Diablo China trend compared with HP China	Aug/Sept-2022	8/18/2022	Global	0%	-8%
						2. Domestic banhao for Justice M & Naraka M	End-2022		China	6%	-9%
						3. Harry Potter Japan release announcement	4Q22				
Bilibili	BILI	Neutral	795	26%	-13% -12%	International banhao approval (Pretty Derby)	Since Aug-2022	Early Sept	Global	-37%	117%
						2. Longevity of Pretty Derby in TW/HK	2H22		China	-39%	122%
						3. Decline of Space Hunter 3 compared w. Guardian Tales	3Q22				
Korea											
NCSOFT	036570.KS	Neutral	1,942	100%	14% 22%	Natural decay rate of LW	3Q22		Global	21%	23%
						2. PLC of LM & L2M (e.g. impact of June update)	2H22	8/12/2022			
						3. Details on launch schedules & footage of TL	4Q22				
Krafton	259960.KS	Sell	1,649	100%	-7% 0%	1. PLC of legacy PUBG franchise games	3Q22	8/11/2022		-38% (PUB	G global)
						2. Sales performance of Callisto Protocol	12/2/2022			17% (Krafto	on self-pub
						3. Rebound in PUBG New State	2H22				
Netmarble	251270.KS	Sell	2,109	100%	40% 15%	Run-rate of CW global launch	3Q22	8/11/2022	Global	11%	1%
						2. Run-rate of SKR Korea launch	3Q22				
Pearl Abyss	263750.KQ	Neutral	340	100%	18% 7%	1. Run-rate of BDM China	3022	8/11/2022	Global	-31%	-49%
						2. Run-rate of Black Clover	2H22				
						3. Details on launch schedules & footage of CD	4Q22				
ASEAN											
SEA/Garena	SE	Buy	4,320	43%	-39% -36%	1. FreeFire post-COVID decline to bottom	3Q22	8/16/2022	Global	-43%	-45%
						2. Update on pipeline expansion	2H22				
						3. OPM pressure from FreeFire & pipeline expansion	2H22				

Source: Company data, Goldman Sachs Global Investment Research, SensorTower, Visible Alpha Consensus Data

- Mainland China (-6% yoy), despite (yoy %) industry weakness likely continuing into 3Q22E amid supply constraints, timespent declining on re-opening, industry wide base-effect and weakened macro; all eyes remain on new approvals, grossing trend of legacy games:
  - □ Tencent (-8% yoy domestic Monthly Grossing). Investor focus will likely be on whether Tencent games may be included in the next batch of approvals (esp. international game approvals) and grossing stablization on legacy games. For international games, Tencent with its 2H international pipeline could continue to outperform global peers on room for market share gains. Near-term, % yoy decline in Monthly Grossings in July has widened from June in domestic markets, though we note the base re-set of minor gaming contribution for domestic games should begin in Sept-22. Key areas to watch: 1) Sept domestic grossing performance following the rebase; 2) International game's Banhao approvals, 3) stabilization of *PKE/PUBGM* titles domestically/internationally, 4) Pace and consolidation of global gaming M&A deals.

■ NetEase: (-9% yoy domestic). We expect game revenues to grow at 13% yoy in 2Q22E, 20ppts quicker pace of growth relative to industry underpinned by market share gains across both mobile and PC games; Key areas to watch: 1) Domestic Banhao approvals (Justice Mobile, Naraka Mobile likely year-end/early 2023), 2) run-rate of Diablo Immortal mainland China; 3) 4Q22 release of Harry Potter Japan.

- □ Bilibili: Global grossing (ex. jointly-operated games) +114% yoy in July (domestic +122% yoy, international +84% yoy), with the inflection underpinned by release of *Space Hunter 3* in mainland mainland China and *Pretty Derby* in Taiwan. While we note *Pretty Derby* monthly grossing remains solid in August, IOS grossing ranking of *Space Hunter 3* has declined meaningfully.
- ASEAN (-8% yoy), specifically for SEA's (-45% yoy) Garena, we believe 1) the stabilizing of *Free Fire's* grossing following the post-Covid fatigue and 2) more visibility on pipeline are the key catalyst for Sea. In the past few months, we have been encouraged by the stabilized user engagement since March, with *Free Fire+Free Fire Max* MAU edging up on a MoM basis in July, by refreshing content and incentivizing time spent. However, grossing remains weak heading into 3Q22, as Garena intentionally slowed monetization to retain users. We expect Garena to increase monetization at a paced schedule post the recovery of user engagement, and hence grossing to bottom in 3Q22E.
- Korea (-6% yoy): With key game launches slated toward the latter part of the year, we believe the main debates around the companies will be product life cycle management for existing games before new games kick in and incremental data (i.e. exact launch date, pre-launch marketing activities, details on business model) on upcoming blockbuster games before their launch.
  - □ **For NCSOFT (+23% yoy)**, we believe the revenue trajectory of *LW* and *LM* will be key drivers of earnings while investors will be mostly looking for more details around *TL* launch in 4Q (key interest around specific business model). We expect *LW* (Region 1, launched Nov 2021) to sequentially decline by c.40% in 2Q22E as we observe *LW Korea* grossing rankings have been competing shoulder to shoulder with *LM* throughout 2Q, whereas we had expected *LW* to remain a solid #1. In Taiwan, *LW* has maintained robust grossing ranking #1 throughout 2Q.
  - □ For Krafton (-21% yoy Krafton self-pub), we expect *PUBG* franchise mobile revenue to drive near-term earnings but the main event for the year will likely be the launch of *The Callisto Protocol*, which recently set its launch date to Dec 2, 2022, improving visibility for the pipeline. With 2Q22 being a relatively weak season, we expect mobile revenue to decline (-11% YoY, 21% QoQ), which drives an 18% sequential decline for the overall top line (-7% YoY) accordingly. Mostly driven by QoQ decline in top line, OP will also decline sequentially, W160bn on our estimate.
  - □ For Pearl Abyss (-49% yoy), we believe investor expectations are likely low for *BDM mainland China* being a turnaround given the lukewarm datapoints

thus far post its Apr launch. We also think there could be some risk of game launch delay around *Crimson Desert* (current expectation of 4Q22 launch). The most imminent launch would be *Black Clover Mobile* (RPG, Korea/Japan), which we expect to be launched in 3Q22 (GSe).

□ For Netmarble (+1% yoy), which saw an OP loss in 1Q, we believe key debates for the short term would be on its top-line recovery through new game launches - namely, Cross Worlds' global launch (May 25) and Seven Knights Revolution Korea (July 28).

The authors would like to thank Joy (Haoyang) Yu for her contributions to the report.

### Exhibit 2: Global mobile game grossing revenue yoy % trend by region

As the global mobile game industry (ex. mainland China) is in the midst of a transition against tough comps created by the pandemic benefits for the majority of 2022, global mobile game grossing saw another -11% yoy in July or -3% for 2yr CAGR.

Global mobile game		Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22
YoY% - global		-6%	-7%	-6%	-2%	-8% 💻	-11% 🔲	-11%
2yr CAGR% - global		11%	9%	7%	4%	-2%	-2%	-3%
YoY% - region								
China (constant FX)	1	2%	-1 <b>3</b> %	3%	13%	10%	-3%	-6%
Korea (constant FX)		-1%	10%	26%	16%	3%	-4%	-6%
Japan (constant FX)		-12% 📕	-7%	-9%	-4%	0%	5%	9%
ASEAN (USD)		-8% 🔳	-10%	-5%	1%	-5%	-6%	-8%
Global Ex.China		-8% 📕	-5%	-8%	-6%	-11% 👅	-12%	-11%

Source: SensorTower, Goldman Sachs Global Investment Research

<sup>\*</sup> Unless otherwise stated, all grossing figures are yoy % trends of July-2022.

Exhibit 3: Key Asia Gaming names' monthly snapshot

			Jan-22		Feb-22		Mar-22		Apr-22	Ņ	May-22	1	Jun-22		Jul-22
China	Ticker						Monthi	y Gr	ossing `	YOY %	6				
Tencent - domestic Tencent - intl.	700.HK	1	-8% 12%	I	-9% 2%		1% 6%		7% -25%		8% -27%		-4% -40%		-8% -36%
NetEase - domestic NetEase - intl.	NTES		-13% -9%		-31% -28%		-11% -22%	-	4% -5%		9% -29%		4% -29%		-9% -8%
Bilibili - domestic Bilibili - intl.	BILI	Ī	63% -8%		0% 28%		46% 75%		-33% 28%		-53% -69%		-25% -13%		122%
XD - domestic XD - intl.	2400.HK		19% -18%		7% -30%		40% -31%		80% -39%		90% -28%		77% -16%	F	65% -2%
MiHoYo - domestic MiHoYo - intl.	Unlisted		66% 29%	-	-4% -4%	F	56% -7%		150% 23%		56% -41%		155% 35%		8% -24%
orea															
Netmarble	251270.KS		-19%		-21%		-34%		20%		42%	I	-14%		1%
NCSOFT	036570.KS		61%		82%		108%		25%		26%	1	13%	I	23%
NEXON	<b>36</b> 59.T		-21%		-18%		30%		79%		49%		26%		38%
Pearl Abyss	263750.KQ		-45%		-45%		-30%	4	-16%		-34%		-41%		-49%
apan															
BANDAI NAMCO	7832.T		-46%		-36%		-45%		-37%		26%		104%		23%
CyberAgent	4751.T		60%		51%		-29%		-44%		-26%		-32%	I	-21%
SQUARE ENIX	9684.T		-25%		-26%		-32%		-30%		-18%		5%	1	22%
Konami	9766.T	I	-23%		16%	1	-6%	1000	10%		-17%	[	-14%	I	-10%
ASEAN															
SEA/Garena	SE	I	-9%		-17%		-22%		-32%		-48%		-48%		-45%
Global mobile game			-6%		-7%		-6%		-2%		-8%		-11%		-11%

 $Source: Sensor Tower, Company \ data, \ data \ compiled \ by \ Goldman \ Sachs \ Global \ Investment \ Research$ 

**Exhibit 4: Key Asia online gaming stocks comp sheet**Japan game publishers data are based on Visible Alpha Consensus Data, and the rest are based on GSe

				Last	Target	+/-		Mkt Cap	ADTV	Perfo	rm ance	Fiscal	PE n	Gaap	EPS	CAGR	Rev	CAGR
Com pany	Primary Analyst	Ticker	fx	Price	Price	Side	Rating	(US\$mn)		1Mo	YTD	Year	22E	23E	21-23	23E	21-23	2023E
China game																		
Tencent	Ronald Keung, CFA	0700.HK	HKS	298.00	503.00	68.8%	Buy	368,044	1,105	-15.5%	-34.8%	Dec	21.8x	15.7x	11%	39%	7%	13%
Ne tEase	Lincoln Kong, CFA	NTES	\$	89.38	120.00	34.3%	Buy	59,454	198	-1.7%	-12.2%	Dec	19.3x	16.4x	9%	18%	13%	14%
NetEase HK	Lincoln Kong, CFA	9999.HK	HK\$	138.80	187.00	34.7%	Виу	58,808	150	-1.0%	-11.9%	Dec		17.3x	6%	14%	10%	10%
BILIPIII	Lincoln Kong, CFA	BILL	5	24.11	28.00	16.1%	Neutral	9,526	160	-10.0%	-48.0%	Dec	NM	NM	NM	-37%	25%	33%
Bilibili HK	Lincoln Kong, CFA	9626.HK	HKŞ	192.60	219.00	13.7%	Neutral	9,694	62	-9.3%	-46.3%	Dec	NM	NM	NM	-36%	26%	33%
Median (Sum for Mkt cap)						34%		505,526	1,675	-9.3%	-34.8%		19.7x	16.4x	9%	14%	13%	14%
ASEAN game																		
Sea	Pang Vittayaa mnuaykoo	n se	5	83.53	176.00	111%	Buy	51,626	503	7.8%	-62.7%	Dec	NM	NM	NM	-73%	30%	29%
Korea gam e																		
NCSOFT	Eric Cha	036570.KS	w	412,000	430,000.00	4%	Neutral	6,933	39	10.3%	-35.9%	Dec	20.0x	20.4x	2%	-2%	7%	0%
Netmarble	Eric Cha	251270.KS	w	73,500	82,000.00	12%	Sell	4.843	12	7.0%	-41.2%	Dec		19.7x	12%	15%	16%	6%
Poarl Abves	Eric Cha	263750.KQ	w	61,300	65,000.00	6%	Neutral	3,112	18	16.5%	-55.7%	Dec	NM	16.9x	91%	551%	32%	78%
Kra fton	Eric Cha	259960.KS	w	263,000	210,000.00	-20%	Sell	9,435	44	11.0%	-42.8%	Dec	17.9x	22.0x	-1%	-19%	4%	1%
Median (Sum for Mkt cap)		22220		223,000	220,000.00	5%		24,323	113	10.6%	-42.0%			20.1x	7%	7%	12%	3%
US/Europe game																		
Electronic Arts	Eric Sheridan	EA	5	129.28	133.00	3%	Neutral	36,328	329	2.9%	-2.0%	Mar	18.2x	16.8x	7%	8%	10%	7%
Playtika	Eric Sheridan	PLTK	5	11.46	15.00	31%	Neutral	4,731	29	-12.9%	-33.7%	Dec	19.3x	14.8x	2%	30%	3%	6%
Roblox	Eric Sheridan	RBLX	\$	47.35	28.00	-41%	S∎II	27,866	1,121	14.8%	-54.1%	Dec	NM	79.5x	-25%	3.5%	21%	22%
Take Two	Eric Sheridan	TTWO	Ś	120.76	131.00	8%	Neutral	20,227	361	-3.3%	-32.1%	Mar	25.2x	18.6x	9%	36%	39%	28%
Ubisoft	Eric Sheridan	UBIP.PA	€	44.91	41.00	-9%	Sell	5,847	24	7.1%	4.3%	Mar		24.9x	65%	57%	2%	6%
Median (Sum for Mkt cap)						3%		94,999	1,864	2.9%	-32.1%		22.2x	18.6x	4%	32%	7%	10%
Japan game																		
Nintendo		7974.T	¥	57,300.00			Coverage Suxpended	50,580	269	-1.1%	6.8%	Mar						
Bandal Namco		7832.T	¥	10,035.00			Coverage Suspended	16,335	45	0.9%	11.6%	Mar						
Nexon		3659.T	¥	2,814.00			Coverage Suspended	18,417	38	-4.3%	26.5%	Dec						
Capcom		9697.T	¥	3,650.00			Coverage Suspended	5,775	27	-0.5%	34.8%	Mar						
Konami		9766.T	¥	7,060.00			Coverage Suspended	6,969	36	-1.1%	27.9%	Mar						
Square Enix		9684.T	¥	6,260.00			Coverage Suspended	5,533	26	3.5%	5.1%	Mar						
Median (Sum for Mkt cap)								103,610	441	-0.8%	19.1%							

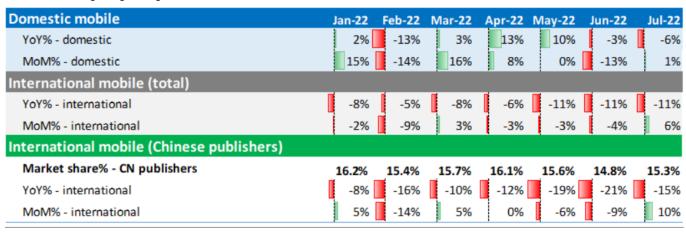
TPs are based on a 12-month period.

Source: Company data, Goldman Sachs Global Investment Research, Visible Alpha Consensus Data

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## Mainland China: Industry-wide weakness to continue yet diverging trend from market share gainers persist

Exhibit 5: Mobile game grossing YoY% and MoM% trends: domestic and international (ex.mainland China)



Source: SensorTower, data compiled by Goldman Sachs Global Investment Research

Domestic performance: Industry weakness (yoy %) to continue in 3Q22. Since May-22, mainland China's mobile game industry has encountered headwinds including:

1) Game supply constraints amid lower quantity of Banhao approvals, especially towards relatively high-ARPPU games; 2) Game timespent dropping on re-opening in economically developed regions in mainland China, which has led to a redirection of user timespent/dollar spent to physical goods, with total timespent on games growing +7% yoy (vs. 21% yoy in April); 3) Industry-wide base effect given controls around minor gaming timespent/spending, commenced since Sept-21; and 4) Weakened macro that has dented users' online entertainment spending. While we view most of the headwinds as cyclical (except for NPPA's banhao issuance preference), we still see limited likelihood for the industry to resume positive yoy (%) growth in the upcoming months given the low visibility on industry pipeline, as the 4 batches of banhao approvals issued YTD did not include new titles that demonstrate blockbuster potential, in our view.

**July grossing -6% yoy** in the domestic mainland China market, widened the decline from -3% yoy in June. **By company, Monthly Grossings:** Tencent -8% yoy/+7% mom, NetEase -9% yoy/-4% mom, Bilibili +122% yoy/+67% mom, according to SensorTower.

**Domestic regulation:** On 1 August, the NPPA issued the 4th batch of approvals of the monetization license (Banhao) for 69 domestic games (our <u>note</u>), on par with the 67 approvals in the 3rd July batch issued 20 days ago. Aside from the further shortened approval time frame (20 days vs. 34 for the 3rd batch and 57 for the 2nd batch) as well as the issuance focus skewing towards SMEs, we note Bilibili received 1 approval, after already obtaining 2 approvals in the July batch. No Banhao has been granted to Tencent/NetEase just yet.

**International expansion: Wider-than-industry magnitude of decline for Chinese publishers.** While the global mobile game industry (ex. mainland China) is in the midst of a transition against tough comps created by the pandemic benefits for the majority of

2022, grossings saw another **-11% yoy/-15% yoy** decline for industry/Chinese game publishers in July. We observe the weaker-than-industry performance of Chinese publishers **by-company**: Tencent -36% yoy given the high base of Supercell and grossing drop of *PUBGM*; NetEase -8% yoy. Bilibili saw its July international grossing +67% yoy, primarily due to the release of *Pretty Derby* in Taiwan market.

### Latest game grossing trends from Tencent, NetEase and Bilibili

**Tencent: Global mobile grossing -13% yoy (domestic -8% yoy constant FX, international -36% yoy)** in July, a month with widened decline from domestic markets, with the company entering the last month before the base re-set of minor gaming contribution starting Sept-22. **By key title**:

■ Internationally, 1) *PUBGM* grossing was hindered by post-COVID normalization, with July grossing dropping 39% yoy, with the weakness to likely extend towards year-end 2) Supercell grossing declined by 34% yoy. We note the SensorTower grossing has not captured PC game revenue trend (such as V Rising, that has contributed over US\$50mn)

### Domestically,

- □ **Legacy games:** Honour of Kings (HoK) saw grossing growth at -3% yoy in July, with the season 28 expansion pack, released on June 23, supporting July grossing, despite the challenging comps. Peacekeeper Elites (PKE) saw grossing decline of -45% yoy in July, against a record high comp in July-2021, also partly due to the decline of revenue from change in controls around minors game timespent.
- □ **New games:** *LOL: E-sport manager* (英雄联盟电竞经理), the e-sport simulation adaption game that is based off the *LOL* IP has turned out to be Tencent's largest new release domestic game on grossing contribution, with **2.0% total market share in July** (despite just being launched on 20 July).

NetEase: Global grossing -8% yoy (domestic -9% yoy constant FX, international -8% yoy) in July, as *Diablo Immortal's* grossing contribution has not fully kicked-in in July. By key title:

■ Internationally, NetEase's grossing dropped 8% yoy in July, driven by a combination of a 21% decline in JPY:USD but offset by solid traction in *Knives Out Japan*, through its IP collaboration with One Piece and Sword Art Online.

### Domestically:

- □ **Diablo Immortal** was released 25 July, contributing 11% of NetEase July grossing. We now project the game to gross Rmb4.1bn for the first year or c.Rmb890mn for first month, after attaining c.Rmb270mn grossing for the first week since July 25.
- □ **Legacy games:** Fantasy Westward Journey (FWJ) saw grossing -21% yoy in July, after its 4 consecutive month of grossing growth (Mar-June 2022). **Harry Potter China** saw grossing -15% mom in July, remaining on a declining curve. Infinite Lagrange remains as NetEase's 3rd largest mobile game domestically

in July, which we expect to gross Rmb536mn/Rmb2.1bn revenue in 2Q22E/2022E, reflecting user re-acceleration on a major content expansion update and corresponding user acquisition spending.

Bilibili: Global grossing (ex. jointly-operated games) +117% yoy in July (domestic +122% yoy, international +84% yoy), with the inflection underpinned by release of Space Hunter 3 in mainland China and Pretty Derby in Taiwan. While we note Pretty Derby grossing remains solid in August, IOS grossing ranking of Space Hunter 3 has declined meaningfully.

Exhibit 6: Tencent: international and domestic grossing performances

Tencent international mobile game grossing includes Supercell, Miniclip, Pocket Gems and Marvelous

Tencent腾讯 - International		Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22
International Grossing % yoy		12%	2%	6%	-25%	-27%	-40%	-36%
International Market share %		4.8%	4.5%	4.7%	4.4%	4.4%	3.8%	3.5%
Tencent腾讯 - domestic		Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22
Domestic Grossing % yoy - const	tant FX	-8%	-9%	1%	7%	8%	-4%	-8%
Domestic Grossing % mom - con	stant FX	27%	-9%	6%	8%	-1%	-14%	7%
Grossing % yoy - by titles			10.00	200	100		4.2	20
Honour of Kings	王者荣耀		1					-3%
PeaceKeeper Elite	和平精英							-45%
League of Legends Mobile	英雄联盟手游					-		0%
Return to Empire	重返帝国							10%
Cross Fire	穿越火线手游							-13%
Teamfight tactics	金铲铲之战							0%
QQ Speed	QQ飞车		Į.					-17%
Naruto	火影忍者							-26%
Moon Light Blade	天涯明月刀							-68%
LoL: E-sport manager	英雄联盟电竞经理			- 1				096
Domestic Market share %		45.5%	48.2%	44.0%	43.9%	43.5%	42.9%	45.3%
Market share % - by titles								
Honour of Kings	王者荣耀							17.9%
PeaceKeeper Elite	和平精英							9.5%
League of Legends Mobile	英雄联盟手游							1.9%
Return to Empire	重返帝国							0.3%
Cross Fire	穿越火线手游							1.5%
Teamfight tactics	金铲铲之战							2.2%
QQ Speed	QQ飞车	l i						1.2%
Naruto	火影忍者							0.9%
Moon Light Blade	天涯明月刀						1	0.5%
LoL: E-sport manager	英雄联盟电竞经理							2.0%

Source: SensorTower, data compiled by Goldman Sachs Global Investment Research

Exhibit 7: NetEase: international and domestic grossing performances

NetEase网易 - International	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22
International Grossing % yoy	-9%	-28%	-22%	-5%	-29%	-29%	-8%
International Market share %	1.2%	1.1%	1.0%	1.1%	1.1%	0.9%	1.2%

international Market Share 70		1.2/0	4.4/0	1.070	4.470	/-	0.570	1.2/0
NetEase网易 - domestic		Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22
Domestic Grossing % yoy - const	ant FX	-13%		-11%	4%	9%	4%	-9%
Domestic Grossing % mom - con		-6%	-20%	12%	19%	4%	-16%	-4%
Grossing % yoy - by titles		Charles .	Ch.		20	200	0000	55
Fantasy Westward Journey	梦幻西游							-21%
Day After	明日之后							-28%
Harry Potter:Magic Awakene	ed 哈利波特:魔法觉醒							0%
Sky:Children of Light	光遇							-73%
Invincible	率土之滨							-40%
Westward Journey	大话西游							-62%
Onmyoji	阴阳师							-62%
A Chinese Ghost Story	倩女幽魂							-14%
Diablo Immortal	暗黑破坏神: 不朽							0%
Infinite Lagrange	无尽的拉格朗日							0%
Domestic Market share %		14.1%	13.2%	12.7%	14.0%	14.6%	14.1%	13.4%
Market share % - by titles								
Fantasy Westward Journey	梦幻西游							4.4%
Day After	明日之后						I	0.5%
Harry Potter:Magic Awakene	ed 哈利波特:魔法觉醒						1	0.3%
Sky:Children of Light	光遇						1	0.2%
Invincible	率土之滨							0.9%
Westward Journey	大话西游						1	0.4%
Onmyoji	阴阳师		j					0.5%
A Chinese Ghost Story	倩女幽魂							0.4%
Diablo Immortal	暗黑破坏神: 不朽							1.5%
Infinite Lagrange	无尽的拉格朗日							1.3%

Source: SensorTower, data compiled by Goldman Sachs Global Investment Research

Exhibit 8: Bilibili: international and domestic grossing performances

Bilibili哔哩哔哩 - International	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22
International Grossing % yoy	-8%	28%	75%	28%	-69%	-13%	84%
International Market share %	0.08%	0.05%	0.04%	0.03%	0.04%	0.19%	0.13%

Bilibili哔哩哔哩 - domestic		Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22
Domestic Grossing % yoy - co		63%	0%	46%	-33%	-53%	-25%	122%
Domestic Grossing % mom - o	constant FX	-19%	-41%	-14%	15%	56%	19%	67%
Grossing % yoy - by titles		200			2000	W. 10	4	
Azur Lane	碧蓝航线							97%
Fate/GrandOrder	命运: 冠位指定							237%
GuardianTales	坎公骑冠剑							-80%
Princess Connect	公主连结							-20%
Nofland	诺弗兰物语							. 0%
BanGDream	BanGDream							57%
Gu Jian Qi Tan	古剑奇谭							-69%
You Jiu Zhi Shu	悠久之树					_		109
Space Hunter 3	时空猎人3							10%
Burst Witch	爆裂魔女					096		0%
Domestic Market share %		0.9%	0.6%	0.5%	0.5%	0.8%	1.1%	1.7%
Market share % - by titles								
Azur Lane	碧蓝航线							0.14%
Fate/GrandOrder	命运: 冠位指定							0.40%
Guardian Tales	坎公骑冠剑							0.06%
Princess Connect	公主连结	1 1	1				1	0.07%
Nofland	诺弗兰物语	1 1		1	1			0.06%
BanGDream	BanGDream	1 1	1	1		- 1	1	0.03%
Gu Jian Qi Tan	古剑奇谭	1 1	1	1		Ĭ	1	0.03%
You Jiu Zhi Shu	悠久之树	1	3					0.01%
Space Hunter 3	时空猎人3							0.92%
Burst Witch	爆裂魔女	1						0.01%

Source: SensorTower, data compiled by Goldman Sachs Global Investment Research

Exhibit 9: XD: international and domestic grossing performances

XD(()动 - International	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22
International Grossing % yoy	-18%	-30%	-31%	-39%	-28%	-16%	-2%
International Market share %	0.16%	0.14%	0.12%	0.11%	0.15%	0.18%	0.16%

international Market Share 70		0.10/0	0.17/0	0.12/0	0.11/0	0.1370	0.10/0	0.10/0
XD(()회 - domestic		Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22
Domestic Grossing % yoy - const	ant FX	19%	7%	40%	80%	90%	77%	65%
Domestic Grossing % mom - con	stant FX	18%	-3%	5%	6%	4%	2%	-9%
Grossing % yoy - by titles		4.	10			×	10	
Sausage Party	香肠派对							37%
Ragnarok RO: Eternal Love	仙境传说RO: 守护疗							81%
Ulala: IdleAdventure	Ulala:IdleAdventure							95%
Immortal Tao	神仙道(三周年)							149%
Girls' Frontline	少女前线Girls'Frontlin							7%
Human fall flat	人类跌落梦境							81%
MuseDash Run	MuseDash喵斯快跑-l							-20%
Sweep the Thousand Army	横扫千军-正统三国第					0		-31%
Peeping Dreams in a Cage	笼中窥梦							0%
Ragnarok RO: Play Polly Eve	ry仙境传说RO:天天打							-26%
Domestic Market share %		0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%
Market share % - by titles								
Sausage Party	香肠派对							0.10%
Ragnarok RO: Eternal Love	仙境传说RO: 守护剂							0.07%
Ulala: IdleAdventure	Ulala:IdleAdventure							0.05%
Immortal Tao	神仙道(三周年)							0.05%
Girls' Frontline	少女前线Girls'Frontlin							0.02%
Human fall flat	人类跌落梦境	1		1 1				0.01%
MuseDash Run	MuseDash喵斯快跑-	1				1		0.01%
Sweep the Thousand Army	横扫千军-正统三国第							0.01%
Peeping Dreams in a Cage	笼中窥梦	1	j				1	0.00%
Ragnarok RO: Play Polly Eve	n. 仙境传道RO・天天打			l i				0.00%

Source: SensorTower, data compiled by Goldman Sachs Global Investment Research

Timespent and Engagement of mainland China's top 50 mobile games dropped 2% in July 2022, at similar pace compared with -1% in June, given consumer behavior change after lockdown lifted since June

Exhibit 10: Games: timespent on games dropped 2% yoy in July, largely on par with -1% yoy in June.

Game	Timespent % yoy	2021-10	2021-11	2021-12	2022-01	2022-02	2022-03	2022-04	2022-05	2022-06	2022-07
Honour of Kings	王者荣耀	-9%	-17%	-22%	-18%	-28%	-2%	4%	-13%	-22%	-21%
Peacekeeper Elite	和平精英	-18%	-18%	-24%	-12%	21%	4%	26%	13%	-5%	-10%
Anipop	开心消消乐	22%	17%	14%	21%	37%	32%	32%	22%	17%	24%
Fight of The Golden Spatula	金铲铲之战									30	8
Genshin Impact	原神	-19%	10%	12%	105%	68%	86%	135%	76%	91%	94%
League of Legends: Wild Rift	英雄联盟手游										
Huanle Doudizhu (Tencent)	欢乐斗地主 (腾讯)	8%	-6%	-14%	-19%	-23%	-32%	-32%	-30%	-34%	-32%
Tencent Huanle Mahjong	腾讯欢乐麻将全集	3%	4%	2%	5%	20%	2%	2%	-6%	-15%	-12%
Tiantian Xiangqi	天天象棋	13%	8%	7%	11%	11%	19%	26%	19%	15%	23%
CrossFire: Legends	穿越火线:枪战王者	-47%	-50%	-55%	-37%	-30%	-4%	3%	-16%	-25%	0%
Total		13%	11%	-1%	-2%	-11%	12%	21%	7%	-1%	-2%

Game	Timespent % share	2021-10	2021-11	2021-12	2022-01	2022-02	2022-03	2022-04	2022-05	2022-06	2022-07
Honour of Kings	王者荣耀	40%	37%	37%	40%	39%	39%	40%	39%	39%	39%
Peacekeeper Elite	和平精英	11%	11%	12%	15%	17%	15%	16%	15%	13%	15%
Anipop	开心消消乐	7%	7%	8%	7%	7%	8%	8%	8%	8%	8%
Fight of The Golden Spatula	金铲铲之战	4%	5%	6%	4%	4%	5%	4%	5%	6%	5%
Genshin Impact	原神	3%	3%	3%	4%	4%	4%	4%	4%	4%	5%
League of Legends: Wild Rift	英雄联盟手游	12%	14%	9%	6%	4%	4%	4%	4%	4%	4%
Huanle Doudizhu (Tencent)	欢乐斗地主 (腾讯)	3%	3%	3%	3%	3%	3%	3%	3%	3%	2%
Tencent Huanle Mahjong	腾讯欢乐麻将全集	1%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Tiantian Xiangqi	天天象棋	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
CrossFire: Legends	穿越火线: 枪战王者	2%	1%	2%	2%	2%	2%	2%	2%	2%	2%

Source: QuestMobile, data compiled by Goldman Sachs Global Investment Research

### Imminent game pipeline update:

- **1) Tencent** now possesses a confirmed pipeline of 40+ new games dedicated to global audiences, which will be published by Level Infinite and other subsidiaries in 2022E-2024E, including 20+ games for 2022 as of May.
- **Domestic**: *LOL: E-sport manager* (英雄联盟电竞经理), the e-sport simulation adaption game that's based off the *LOL IP* has turned out to be Tencent's largest new-release domestic game based on grossing contribution, with 2.0% total market share in July (despite having only been launched on 20 July).
- International investee studios & partnership: 1) V Rising, the PC survival action RPG developed by Tencent investee, Stunlock Studio, sold 2.5mn copies as it went into early access on May 17, grossing over US\$50mn; 2) Into 3Q22, Tencent will release Metal: Hellsinger through Funcom; Tower of Fantasy through Level Infinite and Turbo Golf through Sumo Group.
- **2) NetEase** has 5 games (with Banhao) pending launches domestically, yet with only 1 game with a confirmed release date *Viva Le Football* for 1 Oct. Longer term, we expect:
- **Diablo: Immortal**, the action RPG title that is co-developed with Activision Blizzard, was released in mainland China on 25 July. With the game tracking at No. 2/3 on the IOS grossing chart for the first week, we currently estimate the game to gross Rmb0.9bn/Rmb4.1bn in cash revenues in first month/12 months.

■ Harry Potter: Magic Awakened: Confirmed 2022 global release, with its overseas closed beta testing (incl. Japan, where NetEase will be the main publisher) concluded on 30 July. We estimate the Japan version to be launched in 4022E, and reach a similar level of grossing as Knives Out (2-3% of Japanese mobile game market share).

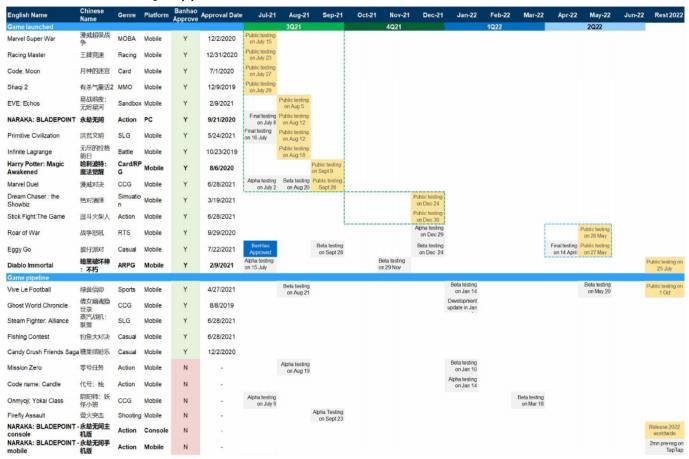
- Naraka: BladePoint Mobile: We estimate the game could reach a potential Rmb6.1bn revenue (equivalent to 10% of our 2023E mobile game revenue assumption). We expect potential Banhao approval for the game as early as March 2023.
- **Justice Mobile:** We expect Banhao approval as early as end-2022 or 1H23 using average lead-time of NetEase domestic games, or historical martial-arts MMORPG games' lead-time as proxy.
- **3) Bilibili**: Bilibili has a total of 7 games in the pipeline slated for 2H22-1H23 release, after obtaining 3 approvals of its domestic games: **1)** *Non-anonymous instruction* (非匿 名指令), a mobile based CCG game with 141k pre-registration users on Bilibili, and has kicked-off the beta test on 4-Aug-2022; **2)** *ChangAn Bai Wan Guan* (长安百万贯), a mobile based business simulation game with 79k pre-registration users on Bilibili app store.

Exhibit 11: Tencent: domestic game pipeline

English Name	Chinese	Banhao	СР	Genre	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Rest 2022
Game launched	Name	Status				1022			2Q22			3 Q22		
Stairway to Stardorm	璀璨星途	Approved	Tencent	Simulation	Public testing on 13 Jan									
The Story of Yanxi Palace	延禧攻略之 凤凰于飞	Approved	Tencent	Casual		Public testing on 15 Feb								
Xuan Zhong Ji	玄中记	Approved	Seasun	SLG		Public testing on 18 Feb								
Wo Long Yin 2	卧龙吟 2	Approved	Seasun	SLG	2nd Beta testing on 4 Jan	Public testing on 22 Feb								
Joy of Life	庆余年	Approved	Tencent	MMORPG	Beta testing on 20 Jan		Public testing on 25 Mar							
Return to Empire	重返帝国	Approved	Tencent	SLG			Public testing on 29 Mar							
Noah's Heart	诺亚之心	Approved	Archosaur Games	RPG				Public testing on 13 April						
Black Desert	黑色沙漠	Approved	Tencent	RPG	Beta testing on 13 January			Public testing on 26 April						
Code: Three Kingdom	乱世逐鹿: 风起三国	Approved	Tencent	SLG			Final testing on 21 Mar		Public testing on 26 May					
3 on 3 Freestyle	全民大灌篮	Approved	Tencent	Sports						Public testing on 10 June				
Zhi Jian Ling Zhu	指尖领主	Approved	Tencent	Casual					Beta testing on 30 May		Public testing on 5 July			
Arena Breakout	暗区突围	Approved	Tencent	FPS	Beta testing on 14 Jan	Beta testing on 23 Feb	Beta testing on 31 Mar		Beta testing on 17 May		Public testing on on 13 July			
League of Legends: e-sport manager	英雄联盟: 电竞经理	Approved	Tencent	SLG			Alpha testing on 18 Mar				Public testing on 20 July			
Game pipeline														
Kitten Match	小猫爱消除	Approved	Tencent	Casual								Public testing on 24 August		
One-Punch Man Justice is Served	一拳超人正 义执行	Approved	Tencent	Action									Public testing on 30 September	
Chio Hero	奇奥英雄传	Approved	Tencent	Strategy										Public testing on 15 November
New Eternal Love	新三生三世 十里桃花	Approved	Tencent	RPG										Public testing on 31 December
Music World	劲乐幻想	Approved	Tencent	Music										Public testing on 31 December
Handmade Planet	手工星球	Approved	Tencent	Sandbox										Public testing on 31 December
Bu Liang Ren3	不良人3	Approved	Tencent	Action										Public testing on 31 December
Mobile DnF	地下城与勇 士	Approved	Nexon	MMOACT			Intl. launch in Mar 2022							
Dawn Awakening	黎明觉醒	Approved	Tencent	Survival										Public testing delayed to 2022
Uncharted Waters: Lord of the sea	大航海时代 :海上霸主	N	Tencent	Strategy										Public testing on 11 November
New Nobunaga's Ambition	新信长之野 望	N	Tencent	Strategy										Public testing on 24 November
Wu Xu Ci Yuan	无序次元	Ν	Tencent	Action							Beta tesing on 14 July			
Apex Legends Mobile	Apex英雄手 游	NA	Tencent	Shooting					International soft launch in May 2022					

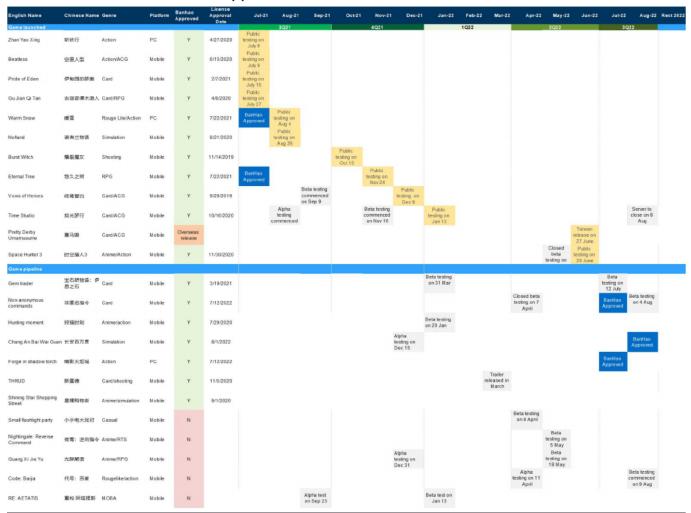
Source: Company data, Goldman Sachs Global Investment Research

Exhibit 12: NetEase: domestic game pipeline



Source: Company data, Goldman Sachs Global Investment Research

Exhibit 13: Bilibili: domestic and international pipeline



Source: Company data, Goldman Sachs Global Investment Research

### **Summary of Tencent and NetEase international pipelines**

Exhibit 14: Tencent now possesses a confirmed pipeline of 40+ new games dedicated to global audiences, which will be published by Level Infinite and other subsidiaries in 2022-2024E, including 20+ games for 2022 as of August, which has expanded from 10 games as of Jan.

	Title	Launch time	Platform(s)	Genre(s)	Developer(s)	Developer relation with Tencent	Publisher(s)
	gTF0	10-Dec-21	Win	4-player co-op action horror FPS	10 Chambers	Subsidiary	10 Chambers
					Sharkmob	-	Sharkmob
	Vampire: The Masquerade - Bloodhunt	7-Sep-21	Win, PS5	Battle royale		Subsidiary	
	SYNCED: Off-Planet	17-Sep-21	PC	Shooter	NExT Studios	In-house	Level Infinite
	Chimerland (妄想山海	Jan-22	Win, Mobile	MMORPG	Pixel Soft	Subsidiary	Level Infinite
	Warhammer 40,000: Darktide	30-Nov-22	Win, XSX	Action	Fatshark	Subsidiary	Fatshark
	Metal: Hellsinger	13-Sep-22	Win, PS5, XSX	Shooter	The Outsiders	Subsidiary	Funcom
	Conan Chop Chop	2022	Win, PS5, XSX	Action, adventure	Mighty Kingdom	Subsidiary	Funcom
	Avatar: Reckoning	2022	Mobile	MMO, shooting	Archosaur Games	Co-developed	Level Infinite
	The Cycle: Frontier	8-Jun-22	Win	shooting	YAGER	Subsidiary	Level Infinite
	Tower of Fantasy (幻場)	11-Aug-22	Mobile	MMO, CCG	Perfect World	Partner	Level Infinite
	NIKKE: The goddess of victory	2022	Mobile	CCG, shooting	SHIFT UP	Partner	Level Infinite
	Little Orpheus	Mar-22	Win, PS5, XSX, NS	Action	Sumo Group	Subsidiary	Sumo Group
	Turbo Golf	4-Aug-22	Win, XSX	Racing	Sumo Group	Subsidiary	Sumo Group
	Nightingale	2022	Win, PS5, XSX	Action, adventure	Inflexion Games	Subsidiary	Level Infinite
	VED	2022	PC	RPG	Karaclan	Subsidiary	1C Entertainment
	Men of War II	2022	PC	RTS	Best Way	Subsidiary	1C Entertainment
	Hyperviolent	2022	PC	Action	Terminist Arcade	Subsidiary	1C Entertainment
			Mobile	MMORPG		-	Level Infinite, Gare
	Moon Light Blade Mobile (天涯明月刀)	2022			Tencent	In-house	
	Dune: Spice Wars	26-Apr-22	Win	4X, real-time strategy	Shiro Games	Subsidiary	Funcom
	Don't Starve: Newhome	TBA	Mobile	Survival, Sandbox, Adverture	Shengqu Games	Subsidiary	Level Infinite
	Soul Frame	TBA	Win, PS5, XSX	MMORPG	Digital Extreme	Subsidiary	Digital Extreme
	Vanguard	TBA	Win, PS5, XSX	Battle royale	Remedy Entertainment	Co-developed	Level Infinite
	Ruined King	16-Nov-21	Nintendo Switch, PS4, XBO, Win	Role playing	Airship Syndicate	Subsidiary	Riot Forge
	Hextech Mayhem	16-Nov-21	Nintendo Switch, Win	Rhythm	Choice Provisions	Subsidiary	Riot Forge
	-	2023	TBA			-	Riot Games
	Hytale			Sandbox	Hypixel Studios Double Stallion	Subsidiary	
	Convergence: A League of Legends Story	TBA		Action, platform	Games	Subsidiary	Riot Forge
	Song of Nunu: A League of Legends Story	TBA	Win, NS, PS4, PS5, XBO, XSX	Action-adventure	Tequila Works	Subsidiary	Riot Forge
	Project L	TBA	TBA	Fighting	Riot Games	Subsidiary	Riot Games
	Project F	TBA	TBA	Action role-playing	Riot Games	Subsidiary	Riot Games
	World of Runeterra	TBA	TBA	MMORPG	Riot Games	Subsidiary	Riot Games
	Clash Quest	TBA	Mobile	Strategy, turn-based battle	Supercell	Subsidiary	Supercell
	Everdale	23-Aug-21	Mobile	village-building	Supercell	Subsidiary	Supercell
							-
	Clash Mini	8-Ngy-21	Mobile	Strategy, board game	Supercell	Subsidiary	Supercell
	Clash Mini Clash Hernes	8-Nov-21	Mobile Mobile	Strategy, board game	Supercell	Subsidiary	Supercell
	Clash Mini Clash Heroes	8-Nov-21 TBA	Mobile Mobile	Strategy, board game Action	Supercell	Subsidiary Subsidiary	Supercell
			Mobile				-
	Clash Heroes	ТВА	Mobile	Action	Supercell Remedy	Subsidiary	Supercell Epic Games
	Clash Heroes  Alan Wake Remastered	TBA 5-Oct-21	Mobile Win, PS4, XBO, PS5, Xbox X/S	Action Horror	Supercell  Remedy Entertainment	Subsidiary Associates	Supercell  Epic Games Publishing
	Clash Heroes Alan Wake Remastered Rocket League Sideswipe	TBA 5-Oct-21 2-Dec-21	Mobile Win, PS4, XBO, PS5, Xbox X/S IOS, Android	Action Horror Racing	Supercell  Remedy Entertainment Psyonix	Subsidiary Associates Associates	Supercell  Epic Games Publishing  Epic Games
	Clash Heroes  Alan Wake Remastered  Rocket League Sideswipe  Fortnite Chapter 3	TBA 5-Oct-21 2-Dec-21 7-Dec-21	Mobile Win, PS4, XBO, PS5, Xbox X/S iOS, Android PlayStation, Xbox, and PC	Action  Horror  Racing  Battle Royale, shooting	Supercell Remedy Entertainment Psyonix Epic Games Iron Galaxy Studios Remedy	Associates Associates Associates	Supercell  Epic Games Publishing  Epic Games  Epic Games  Epic Games  Epic Games  Epic Games
	Clash Heroes  Alan Wake Remastered  Rocket League Sideswipe  Fortnite Chapter 3  Rumbleverse	TBA  5-Oct-21 2-Dec-21 7-Dec-21 15-Feb-22	Mobile  Win, PS4, XBO, PS5, Xbox X/S iOS, Android  PlayStation, Xbox, and PC  PlayStation, Xbox, and PC	Action  Horror  Racing  Battle Royale, shooting  Battle Royale	Supercell  Remedy Entertainment Psyonix  Epic Games  Iron Galaxy Studios	Subsidiary Associates Associates Associates Co-operated	Supercell  Epic Games Publishino  Epic Games  Epic Games  Epic Games
	Clash Heroes  Alan Wake Remastered  Rocket League Sideswipe  Fortnite Chapter 3  Rumbleverse  Alan Wake 2  The Matrix Awakens	TBA 5-Oct-21 2-Dec-21 7-Dec-21 15-Feb-22 2023 TBA	Mobile  Win, PS4, XBO, PS5, Xbox X/S IOS, Android  PlayStation, Xbox, and PC  PlayStation, Xbox, and PC  Win, PS4, XBO, PS5, Xbox X/S  PS5 and Xbox Series X S	Action  Horror  Racing  Battle Royale, shooting  Battle Royale  Horror  Open-world, action	Supercell  Remedy Entertainment Psyonix  Epic Garnes  Iron Galaxy Studios Remedy Entertainment Epic Garnes	Subsidiary  Associates Associates Associates Co-operated Co-operated Co-operated	Supercell  Epic Games Publishing  Epic Games  Epic Games  Epic Games  Epic Games  Publishing  Epic Games  Epic Games
	Clash Heroes  Alan Wake Remastered  Rocket League Sideswipe  Fortnite Chapter 3  Rumbleverse  Alan Wake 2	TBA 5-Oct-21 2-Dec-21 7-Dec-21 15-Feb-22 2023	Mobile  Win, PS4, XBO, PS5, Xbox X/S IOS, Android PlayStation, Xbox, and PC PlayStation, Xbox, and PC Win, PS4, XBO, PS5, Xbox X/S PS5 and Xbox Series X S  Win, PS5, XBO	Action  Horror  Racing  Battle Royale, shooting  Battle Royale  Horror  Open-world, action  Horror	Supercell  Remedy Enterdatioment Psyonix  Epic Games  Fon Galaxy Studios  Remedy Enterdatioment Epic Games  Bloober Team	Subsidiary  Associates Associates Associates Co-operated Co-operated	Supercell  Epic Games Publishino Epic Games  Epic Games  Epic Games  Epic Games  Epic Games  Bloober Team
	Clash Heroes  Alan Wake Remastered  Rocket League Sideswipe  Fortnite Chapter 3  Rumbleverse  Alan Wake 2  The Matrix Awakens	TBA 5-Oct-21 2-Dec-21 7-Dec-21 15-Feb-22 2023 TBA	Mobile  Win, PS4, XBO, PS5, Xbox X/S IOS, Android  PlayStation, Xbox, and PC  PlayStation, Xbox, and PC  Win, PS4, XBO, PS5, Xbox X/S  PS5 and Xbox Series X S	Action  Horror  Racing  Battle Royale, shooting  Battle Royale  Horror  Open-world, action  Horror	Supercell  Remedy Entertainment Psyonix  Epic Garnes  Iron Galaxy Studios Remedy Entertainment Epic Garnes	Subsidiary  Associates Associates Associates Co-operated Co-operated Co-operated	Supercell  Epic Games Publishing  Epic Games  Epic Games  Epic Games  Epic Games  Publishing  Epic Games  Epic Games
	Clash Heroes  Alan Wake Remastered  Rocket League Sideswipe  Fortnite Chapter 3  Rumbleverse  Alan Wake 2  The Matrix Awakens  MEDIUM	TBA  5-Oct-21 2-Dec-21 7-Dec-21 15-Feb-22 2023 TBA 28-Jan-21	Mobile  Win, PS4, XBO, PS5, Xbox X/S IOS, Android PlayStation, Xbox, and PC PlayStation, Xbox, and PC Win, PS4, XBO, PS5, Xbox X/S PS5 and Xbox Series X S  Win, PS5, XBO	Action  Horror  Racing  Battle Royale, shooting  Battle Royale  Horror  Open-world, action  Horror  Action	Supercell  Remedy Enterdatioment Psyonix  Epic Games  Fon Galaxy Studios  Remedy Enterdatioment Epic Games  Bloober Team	Subsidiary  Associates Associates Associates Co-operated Co-operated Co-operated Subsidiary	Supercell  Epic Games Publishinn Epic Games Epic Games Epic Games Epic Games Epic Games Biober Team Bloober Team Indone Indepartation
	Clash Heroes  Alan Wake Remastered  Rocket League Sideswipe  Fortnite Chapter 3  Rumbleverse  Alan Wake 2  The Matrix Awakens  MEDIUM  Hood: Outlaws & Legends	TBA 5-Oct-21 2-Dec-21 7-Dec-21 15-Feb-22 2023 TBA 28-Jan-21 10-May-21	Mobile  Win, PS4, XBO, PS5, Xbox X/S IOS, Android  PlayStation, Xbox, and PC  PlayStation, Xbox, and PC  Win, PS4, XBO, PS5, Xbox X/S  PS5 and Xbox Series X S  Win, PS5, XBO  Win, Nintendo Switch, PS4, XBO	Action  Horror  Racing  Battle Royale, shooting  Battle Royale  Horror  Open-world, action  Horror  Action	Supercell  Remedy Folderlairment Psyonix  Epic Garnes  Fon Galaxy Studios  Remedy Folderlairment  Epic Garnes  Bioober Team  Sumo Digital	Subsidiary  Associates Associates Associates Co-operated Co-operated Co-operated Subsidiary Subsidiary	Supercell  Epic Games Publishinn Epic Games Epic Games Epic Games Epic Games Epic Games Biober Team Bloober Team Indone Indepartation
	Clash Heroes  Alan Wake Remastered  Rocket League Sideswipe  Fortnite Chapter 3  Rumbleverse  Alan Wake 2  The Matrix Awakens  MEDIUM  Hood: Outlaws & Legends  Griftlands	TBA  5-Oct-21 2-Dec-21 7-Dec-21 15-Feb-22 2023 TBA 28-Jan-21 10-May-21 1-Jun-21	Mobile  Win, PS4, XBO, PS5, Xbox X/S IOS, Android PlayStation, Xbox, and PC PlayStation, Xbox, and PC Win, PS4, XBO, PS5, Xbox X/S PS5 and Xbox Series X S  Win, PS5, XBO Win, Nintendo Switch, PS4, XBO Win, Nintendo Switch, PS4, XBO	Action  Horror  Racing  Battle Royale, shooting  Battle Royale  Horror  Open-world, action  Horror  Action  Roguelike, RPG	Supercell  Remedy Enterdatioment Psyonix  Epic Garmes  Fon Galaxy Studios  Remedy Enterdatioment  Epic Garmes  Bloober Team  Sumo Digital  Kiel Entertainment	Subsidiary  Associates Associates Associates Co-operated Co-operated Co-operated Subsidiary Subsidiary Subsidiary	Supercell  Epic Games Publishina Epic Games Epic Games Epic Games Epic Games Epic Games Bloober Team Focus Home Interactive Klei Entertainme THUMBAGE
	Clash Heroes  Alan Wake Remastered  Rocket League Sideswipe  Fortnite Chapter 3  Rumbleverse  Alan Wake 2  The Matrix Awakens  MEDIUM  Hood: Outlaws & Legends  Grittands  CROWZ: Squad Operation	TBA  5-Oct-21 2-Dec-21 7-Dec-21 15-Feb-22 2023 TBA 28-Jan-21 10-May-21 1-Jun-21 13-Nov-21	Mobile  Win, PS4, XBO, PS5, Xbox X/S IOS, Android PlayStation, Xbox, and PC PlayStation, Xbox, and PC Win, PS4, XBO, PS5, Xbox X/S PS5 and Xbox Series X S  Win, PS5, XBO Win, Nintendo Switch, PS4, XBO Win, Nintendo Switch, PS4, XBO Win	Action  Horror  Racing  Battle Royale, shooting  Battle Royale  Horror  Open-world, action  Horror  Action  Roguelike, RPG  Shooting	Supercell  Remedy Enterdatioment Psyonix  Epic Games  Fon Galaxy Studios  Remedy Enterdatioment  Epic Games  Bloober Team  Sumo Digital  Klei Entertainment  Royal Crow	Subsidiary  Associates Associates Associates Co-operated Co-operated Co-operated Subsidiary Subsidiary Subsidiary Subsidiary Subsidiary	Supercell  Epic Games Publishina Epic Games Epic Games Epic Games Epic Games Epic Games Bloober Team Focus Home Interactive Klei Entertainme THUMBAGE
	Clash Heroes  Alan Wake Remastered  Rocket League Sideswipe  Fortnite Chapter 3  Rumbleverse  Alan Wake 2  The Matrix Awakens  MEDIUM  Hood: Outlaws & Legends  Grifflands  CROWZ: Squad Operation  V Risting	TBA  5-Oct-21 2-Dec-21 7-Dec-21 15-Feb-22 2023 TBA 28-Jan-21 10-May-21 1-Jun-21 13-Nov-21 5/17/2022	Mobile  Win, PS4, XBO, PS5, Xbox X/S  IOS, Android  PlayStation, Xbox, and PC  PlayStation, Xbox, and PC  Win, PS4, XBO, PS5, Xbox X/S  PS5 and Xbox Series XIS  Win, PS5, XBO  Win, Nintendo Switch, PS4, XBO  Win, Nintendo Switch, PS4, XBO  Win  Win	Action  Horror  Racing  Battle Royale, shooting  Battle Royale  Horror  Open-world, action  Horror  Action  Roguelike, RPG  Shooting  Action, RPG	Supercell  Remedy Entertainment Psyonix  Epic Garnes Iron Galaxy Studios Remedy Entertainment Epic Garnes  Bloober Team Sumo Digital  Klei Entertainment Royal Crow Studios	Subsidiary  Associates Associates Associates Co-operated Co-operated Co-operated Subsidiary Subsidiary Subsidiary Subsidiary Subsidiary Subsidiary	Supercell  Epic Games Publishinn Epic Games Epic Games Epic Games Epic Games Epic Games Epic Games Bloober Team Focus Home Interactine Kiel Entertainme THUMBAGE Stunlock Studios
	Clash Heroes  Alan Wake Remastered  Rocket League Sideswipe  Fortnite Chapter 3  Rumbleverse  Alan Wake 2  The Matrix Awakens  MEDIUM  Hood: Outlaws & Legends  Grifflands  CROWZ: Squad Operation  V Rising  Wanted: Dead  Vengeance is Mine	TBA  5-Oct-21 2-Dec-21 7-Dec-21 15-Feb-22 2023 TBA  28-Jan-21 10-May-21 1-Jun-21 13-Nov-21 5/17/2022 4022 2023	Mobile  Win, PS4, XBO, PS5, Xbox X/S IOS, Android  PlayStation, Xbox, and PC  Win, PS4, XBO, PS5, Xbox X/S  PS5 and Xbox Series XIS  Win, PS5, XBO  Win, Nintendo Switch, PS4, XBO  Win, Nintendo Switch, PS4, XBO  Win, Win, PS5, XBO  Win, PS5, XBO  Win, PS5, XBO  Win, PS5, XBO	Action  Horror  Racing  Battle Royale, shooting  Battle Royale  Horror  Open-world, action  Horror  Action  Roguelike, RPG  Shooting  Action RPG  Shooting  Action	Supercell  Remedy Entertainment Psyonix  Epic Games Iron Galaxy Studios Remedy Entertainment Epic Games  Bloober Team Sumo Digital Kiel Entertainment Royal Crow  Studios Wake Up Interactive Wake Up Interactive	Subsidiary  Associates Associates Associates Co-operated Co-operated Subsidiary	Supercell  Epic Games Publishinn Epic Games Epic Games Epic Games Epic Games Epic Games Epic Games Bloober Team Focus Home Interactione Riel Entertainm THUMBAGE Stunlock Studios 110 Industries
	Clash Heroes  Alan Wake Remastered  Rocket League Sideswipe  Fortnite Chapter 3  Rumbleverse  Alan Wake 2  The Matrix Awakens  MEDIUM  Hood: Outlaws & Legends  Grifflands  CROWZ: Squad Operation  V Rising  Wanted: Dead  Vengeance is Mine  Layers of Fears	TBA 5-Oct-21 2-Dec-21 7-Dec-21 15-Feb-22 2023 TBA 28-Jan-21 10-May-21 1-Jun-21 13-Nov-21 5/17/2022 4Q22 2023 2023	Mobile  Win, PS4, XBO, PS5, Xbox X/S IOS, Android  PlayStation, Xbox, and PC  Win, PS4, XBO, PS5, Xbox X/S PS5 and Xbox Series X S  Win, PS5, XBO  Win, Nintendo Switch, PS4, XBO  Win, Nintendo Switch, PS4, XBO  Win, PS5, XBO	Action  Horror  Racing  Battle Royale, shooting  Battle Royale  Horror  Open-world, action  Horror  Action  Roguelike, RPG  Shooting  Action, RPG  Shooting  Action  Horror	Supercell Remedy Entertainment Psyonix Epic Games Iron Galaxy Studios Remedy Entertainment Epic Games Bloober Team Sumo Digital Kiel Entertainment Royal Crow Stunlock Studios Wake Up Interactive Wake Up Interactive Bloober Team	Subsidiary  Associates Associates Associates Co-operated Co-operated Co-operated Subsidiary	Supercell  Epic Games Publishinn Epic Games Epic Games Epic Games Epic Games Epic Games Epic Games Bloober Team Focus Home Interactive Kiel Enterlainme THUMBAGE Stunlock Studios 110 Industries Bloober Team Bloober Team H
	Clash Heroes  Alan Wake Remastered  Rocket League Sidesnipe  Fortnite Chapter 3  Rumbleverse  Alan Wake 2  The Matrix Awakens  MEDIUM  Hood: Outlaws & Legends  Grittands  CROWZ: Squad Operation  V Rising  Wanted: Dead  Vengeance is Mine  Layers of Fears  Path Of Exile 2	TBA  5-Oct-21 2-Dec-21 7-Dec-21 15-Feb-22 2023 TBA  28-Jan-21 10-May-21 1-Jun-21 13-Nov-21 5/17/2022 4022 2023 2023 2024	Mobile  Win, PS4, XBO, PS5, Xbox X/S IOS, Android  PlayStation, Xbox, and PC  Win, PS4, XBO, PS5, Xbox X/S PS5 and Xbox Series X S  Win, PS5, XBO  Win, Nintendo Switch, PS4, XBO  Win, Nintendo Switch, PS4, XBO  Win  Win  Win  Win, PS5, XBO	Action  Horror  Racing  Battle Royale, shooting  Battle Royale  Horror  Open-world, action  Horror  Action  Roguelike, RPG  Shooting  Action, RPG  Shooting  Action  Horror  MMORPG	Supercell Remedy Entertainment Psyonix Epic Games Iron Galaxy Studios Remedy Entertainment Epic Games Bloober Team Sumo Digital Klei Entertainment Royal Crow Stunlock Studios Wake Up Interactive Wake Up Interactive Bloober Team Grinding Gear Games	Subsidiary  Associates Associates Associates Co-operated Co-operated Co-operated Subsidiary	Supercell  Epic Games Publishinn  Epic Games Epic Games Epic Games Epic Games Epic Games Epic Games Bloober Team Focus Home Interactione Kiel Entertainme THUMBAGE Stunlock Studios 110 Industries Bloober Team Grinding Gear G
	Clash Heroes  Alan Wake Remastered  Rocket League Sidesnipe  Fortnite Chapter 3  Rumbleverse  Alan Wake 2  The Matrix Awakens  MEDIUM  Hood: Outlaws & Legends  Grittands  CROWZ: Squad Operation  V Rising  Wanted Dead  Vengeance is Mine  Layers of Fears  Path Of Exile 2  Little Devil Inside	TBA  5-Oct-21 2-Dec-21 7-Dec-21 15-Feb-22 2023 TBA  28-Jan-21 10-May-21 1-Jun-21 13-Nov-21 5/17/2022 4022 2023 2023 2024 TBA	Mobile  Win, PS4, XBO, PS5, Xbox X/S IOS, Android PlayStation, Xbox, and PC PlayStation, Xbox, and PC Win, PS4, XBO, PS5, Xbox X/S PS5 and Xbox Series XIS  Win, PS5, XBO Win, Nintendo Switch, PS4, XBO Win, Nintendo Switch, PS4, XBO Win, PS5, XBO	Action  Horror  Racing  Battle Royale, shooting  Battle Royale  Horror  Open-world, action  Horror  Action  Roguelike, RPG  Shooting  Action, RPG  Shooting  Action  Horror  MMORPG  Action role-playing	Supercell Remedy Entertainment Psyonix Epic Games Iron Galaxy Studios Remedy Entertainment Epic Games Bloober Team Sumo Digital Klei Entertainment Royal Crow Stunlock Studios Wake Up Interactive Wake Up Interactive Bloober Team Grinding Gear Games Neostream Interactive	Subsidiary  Associates Associates Associates Co-operated Co-operated Co-operated Subsidiary	Supercell  Epic Games Publishinn  Epic Games Epic Games Epic Games Epic Games Epic Games Epic Games Bloober Team Focus Home Interaction Kiel Entertainme THUMBAGE Stunlock Studios 110 Industries Bloober Team Grinding Gear G Neostream Intera
•	Clash Heroes  Alan Wake Remastered  Rocket League Sidesnipe  Fortnite Chapter 3  Rumbleverse  Alan Wake 2  The Matrix Awakens  MEDIUM  Hood: Outlaws & Legends  Grittlands  CROWZ: Squad Operation  V Rising  Wanted-Dead  Vengeance is Mine  Layers of Fears  Path Of Exile 2  Little Devil Inside  Project M1	TBA  5-Oct-21 2-Dec-21 7-Dec-21 15-Feb-22 2023 TBA  28-Jan-21 10-May-21 1-Jun-21 13-Nov-21 5/17/2022 4022 2023 2024 TBA TBA TBA	Mobile  Win, PS4, XBO, PS5, Xbox X/S IOS, Android PlayStation, Xbox, and PC PlayStation, Xbox, and PC Win, PS4, XBO, PS5, Xbox X/S PS5 and Xbox Series XIS  Win, PS5, XBO Win, Nintendo Switch, PS4, XBO Win, Nintendo Switch, PS4, XBO Win, PS5, XBO Win, NS, PS4, PS5, XBO Win, NS, PS4, PS5, XBO Win, NS, PS4, PS5, XBO	Action  Horror  Racing  Battle Royale, shooting  Battle Royale  Horror  Open-world, action  Horror  Action  Roguelike, RPG  Shooting  Action, RPG  Shooting  Action  Horror  MMORPG  Action role-playing	Supercell  Remedy Entertainment Psyonix  Psyonix  For Gariasy  For Gariasy  For Gariasy  For Gariasy  For Gariasy  Bloober Team  Sumo Digital  Klei Entertainment  Royal Crow  Stunlock Studios  Wake Up Interactive  Wake Up Interactive  Bloober Team  Grinding Gear Games  Neostream Interactive  Nyou	Subsidiary  Associates Associates Associates Co-operated Co-operated Co-operated Subsidiary	Supercell  Epic Games Publishinn Epic Games Bloober Team Focus Home Interactione Kiel Entertainme THUMBAGE Stunlock Studios 110 Industries Bloober Team Grinding Gear G Neostream Intera Nyou
	Clash Heroes  Alan Wake Remastered  Rocket League Sidesnipe  Fortnite Chapter 3  Rumbleverse  Alan Wake 2  The Matrix Awakens  MEDIUM  Hood: Outlaws & Legends  Griftlands  CROWZ: Squad Operation  V Rising  Wanted Dead  Vengeance is Mine  Layers of Fears  Path Of Exile 2  Little Devil Inside  Project EDO	TBA  5-Oct-21 2-Dec-21 7-Dec-21 15-Feb-22 2023 TBA 28-Jan-21 10-May-21 1-Jun-21 13-Nov-21 5/17/2022 4022 2023 2024 TBA TBA TBA TBA	Mobile  Win, PS4, XBO, PS5, Xbox X/S IOS, Android  PlayStation, Xbox, and PC  Win, PS4, XBO, PS5, Xbox X/S PS5 and Xbox Series XIS  Win, PS5, XBO  Win, Nintendo Switch, PS4, XBO  Win, Nintendo Switch, PS4, XBO  Win, PS5, XBO  Win, NS, PS4, PS5, XBO  Win, NS, PS4, PS5, XBO	Action  Horror  Racing  Battle Royale, shooting  Battle Royale  Horror  Open-world, action  Horror  Action  Roguelike, RPG  Shooting  Action, RPG  Shooting  Action  Horror  MMORPG  Action role-playing  MMORPG  Battle Royale, ninja	Supercell Remedy Entertainment Psyonix Epic Garnes Iron Galaxy Studios Remedy Entertainment Epic Garnes Bloober Team Sumo Digital Klei Entertainment Royal Crow Stunlock Studios Wake Up Interactive Wake Up Interactive Bloober Team Grinding Gear Garnes Neostream Interactive Nyou Wake Up Interactive	Subsidiary  Associates Associates Associates Co-operated Co-operated Co-operated Subsidiary	Supercell  Epic Games Publishinn Epic Games Bloober Team Focus Home Interactive Klei Entertainme THUMBAGE Stunlock Studios 110 Industries Bloober Team Grinding Gear G Neostream Intera Nyou 110 Industries
3	Clash Heroes  Alan Wake Remastered  Rocket League Sidesnipe  Fortnite Chapter 3  Rumbleverse  Alan Wake 2  The Matrix Awakens  MEDIUM  Hood: Outlaws & Legends  Grittlands  CROWZ: Squad Operation  V Rising  Wanted-Dead  Vengeance is Mine  Layers of Fears  Path Of Exile 2  Little Devil Inside  Project M1	TBA  5-Oct-21 2-Dec-21 7-Dec-21 15-Feb-22 2023 TBA  28-Jan-21 10-May-21 1-Jun-21 13-Nov-21 5/17/2022 4022 2023 2024 TBA TBA TBA	Mobile  Win, PS4, XBO, PS5, Xbox X/S IOS, Android PlayStation, Xbox, and PC PlayStation, Xbox, and PC Win, PS4, XBO, PS5, Xbox X/S PS5 and Xbox Series XIS  Win, PS5, XBO Win, Nintendo Switch, PS4, XBO Win, Nintendo Switch, PS4, XBO Win, PS5, XBO Win, NS, PS4, PS5, XBO Win, NS, PS4, PS5, XBO Win, NS, PS4, PS5, XBO	Action  Horror  Racing  Battle Royale, shooting  Battle Royale  Horror  Open-world, action  Horror  Action  Roguelike, RPG  Shooting  Action, RPG  Shooting  Action  Horror  MMORPG  Action role-playing	Supercell  Remedy Entertainment Psyonix  Psyonix  For Gariasy  For Gariasy  For Gariasy  For Gariasy  For Gariasy  Bloober Team  Sumo Digital  Klei Entertainment  Royal Crow  Stunlock Studios  Wake Up Interactive  Wake Up Interactive  Bloober Team  Grinding Gear Games  Neostream Interactive  Nyou	Subsidiary  Associates Associates Associates Co-operated Co-operated Co-operated Subsidiary	Supercell  Epic Games Publishinn Epic Games Bloober Team Focus Home Interactive Klei Entertainme THUMBAGE Stunlock Studios 110 Industries Bloober Team Grinding Gear G Neostream Intera Nyou 110 Industries
	Clash Heroes  Alan Wake Remastered  Rocket League Sideswipe  Fortnite Chapter 3  Rumbleverse  Alan Wake 2  The Matrix Awakens  MEDIUM  Hood: Outlaws & Legends  Grifflands  CROWZ: Squad Operation  V Rising  Wanted: Dead  Vengeance is Mine  Layers of Fears  Path of Exile 2  Little Devil Inside  Project EDO  Un-named new project	TBA  5-Oct-21 2-Dec-21 7-Dec-21 15-Feb-22 2023 TBA  28-Jan-21 10-May-21 1-Jun-21 13-Nov-21 5/17/2022 4Q22 2023 2023 2024 TBA TBA TBA TBA	Mobile  Win, PS4, XBO, PS5, Xbox X/S IOS, Android  PlayStation, Xbox, and PC  Win, PS4, XBO, PS5, Xbox X/S  PS5 and Xbox Series X S  Win, PS5, XBO  Win, Nintendo Switch, PS4, XBO  Win, Nintendo Switch, PS4, XBO  Win, PS5, XBO  Win, NS, PS4, PS5, XBO  Win, PS5, XBO	Action  Horror  Racing  Battle Royale, shooting  Battle Royale  Horror  Open-world, action  Horror  Action  Roguelike, RPG  Shooting  Action RPG  Shooting  Action  Horror  MIMORPG  Action releplaying  MMORPG  Battle Royale, ninja  Sci-fi, shooting	Supercell Remedy Entertainment Psyonix Epic Garnes Iron Galaxy Studios Remedy Entertainment Epic Garnes Bloober Team Sumo Digital Klei Entertainment Royal Crow Stunlock Studios Wake Up Interactive Wake Up Interactive Bloober Team Grinding Gear Garnes Neostream Interactive Nyou Wake Up Interactive	Subsidiary  Associates Associates Associates Co-operated Co-operated Co-operated Subsidiary	Supercell  Epic Games Publishinn Epic Games Epic Games Epic Games Epic Games Epic Games Epic Games Bloober Team Focus Home Interactive Kiel Entertainme THUMBAGE Stunlock Studios 110 Industries Bloober Team Grinding Gear G Neostream Intera Nyou 110 Industries Leyou Technolog
3	Clash Heroes  Alan Wake Remastered  Rocket League Sidesnipe  Fortnite Chapter 3  Rumbleverse  Alan Wake 2  The Matrix Awakens  MEDIUM  Hood: Outlaws & Legends  Gritlands  CROWZ: Squad Operation  V Rising  Wanted: Dead  Vengeance is Mine  Layers of Fears  Path Of Exile 2  Little Devil Inside  Project M1  Project EDO  Un-named new project  Order Zero	TBA  5-Oct-21 2-Dec-21 7-Dec-21 15-Feb-22 2023 TBA  28-Jan-21 10-May-21 1-Jun-21 13-Nov-21 5/17/2022 4022 2023 2023 2024 TBA TBA TBA TBA TBA TBA Sep-21	Mobile  Win, PS4, XBO, PS5, Xbox X/S IOS, Android  PlayStation, Xbox, and PC  PlayStation, Xbox, and PC  Win, PS4, XBO, PS5, Xbox X/S PS5 and Xbox Series X S  Win, PS5, XBO  Win, Nintendo Switch, PS4, XBO  Win, Nintendo Switch, PS4, XBO  Win, PS5, XBO  Mobile	Action Horror Racing Battle Royale, shooting Battle Royale Horror Open-world, action Horror Action Roguelike, RPG Shooting Action, RPG Shooting Action Horror MMORPG Action role-playing MMORPG Battle Royale, ninja Sci-fi, shooting Shooting Shooting	Supercell Remedy Entertainment Psyonix Epic Games Iron Galaxy Studios Remedy Entertainment Epic Games Bloober Team Sumo Digital Kiel Entertainment Royal Crow Stunlock Studios Wake Up Interactive Bloober Team Grinding Gear Games Neostream Interactive Nyou Wake Up Interactive Splash Damage IKINA Games	Subsidiary  Associates Associates Associates Co-operated Co-operated Co-operated Subsidiary	Supercell  Epic Games Publishinn  Epic Games Epic Games Epic Games Epic Games Epic Games Epic Games Bloober Team Focus Home Interactione Kiel Entertainme THUMBAGE Stunlock Studios 110 Industries Bloober Team Grinding Gear G Neostream Intera Nyou 110 Industries Leyou Technolog IKINA Games
	Clash Heroes  Alan Wake Remastered  Rocket League Sidesnipe  Fortnite Chapter 3  Rumbleverse  Alan Wake 2  The Matrix Awakens  MEDIUM  Hood: Outlaws & Legends  Grittands  CROWZ: Squad Operation  V Rising  Wanted Dead  Vengeance is Mine  Layers of Fears  Path Of Exile 2  Little Devil Inside  Project M1  Project EDO  Um-named new project  Order Zero  Galaxy Tales: Story of Rapunzel	TBA  5-Oct-21 2-Dec-21 7-Dec-21 15-Feb-22 2023 TBA  28-Jan-21 10-May-21 1-Jun-21 13-Nov-21 5/17/2022 4022 2023 2024 TBA TBA TBA TBA TBA TBA TBA Sep-21 Jan-22	Mobile  Win, PS4, XBO, PS5, Xbox X/S IOS, Android  PlayStation, Xbox, and PC  Win, PS4, XBO, PS5, Xbox X/S PS5 and Xbox Series X S  Win, PS5, XBO  Win, Nintendo Switch, PS4, XBO  Win, Nintendo Switch, PS4, XBO  Win, PS5, XBO  Mobile  Mobile	Action Horror Racing Battle Royale, shooting Battle Royale Horror Open-world, action Horror Action Roguelike, RPG Shooting Action, RPG Shooting Action Horror MMORPG Action role-playing MMORPG Battle Royale, ninja Sci-fi, shooting Shooting Shooting Shooting Shooting Sci-fi, shooting	Supercell Remedy Entertainment Psyonix Epic Games Iron Galaxy Studios Remedy Entertainment Epic Games Bloober Team Sumo Digital Klei Entertainment Royal Crow Stunlock Studios Wake Up Interactive Bloober Team Grinding Gear Games Neostream Interactive Nyou Wake Up Interactive Splash Damage IKINA Games IKINA Games	Subsidiary  Associates Associates Associates Co-operated Co-operated Co-operated Subsidiary	Supercell  Epic Games Publishinn  Epic Games Publishinn  Epic Games  Epic Games  Epic Games  Epic Games  Epic Games  Bloober Team Focus Home Interactione Klei Entertainme  THUMBAGE  Stunlock Studios  110 Industries  Hoober Team  Grinding Gear G.  Neostream Intera  Nyou  110 Industries  Leyou Technolog  IKINA Games  IKINA Games  IKINA Games
	Clash Heroes  Alan Wake Remastered  Rocket League Sidesnipe  Fortnite Chapter 3  Rumbleverse  Alan Wake 2  The Matrix Awakens  MEDIUM  Hood: Outlaws & Legends  Grittands  CROWZ: Squad Operation  V Rising  Wanted-Dead  Vengeance is Mine  Layers of Fears  Path Of Exile 2  Little Devil Inside  Project IM  Project EDO  Un-named new project  Order Zero  Galaxy Tales: Story of Rapunzel  Story of Seasons	TBA  5-Oct-21 2-Dec-21 7-Dec-21 15-Feb-22 2023 TBA  28-Jan-21 10-May-21 1-Jun-21 13-Nov-21 5/17/2022 4022 2023 2024 TBA TBA TBA TBA TBA TBA TBA Sep-21 Jan-22 2022	Mobile  Win, PS4, XBO, PS5, Xbox X/S IOS, Android PlayStation, Xbox, and PC PlayStation, Xbox, and PC Win, PS4, XBO, PS5, Xbox X/S PS5 and Xbox Series X S  Win, PS5, XBO Win, Nintendo Switch, PS4, XBO Win, Nintendo Switch, PS4, XBO Win, PS5, XBO Mobile Mobile Mobile	Action Horror Racing Battle Royale, shooting Battle Royale Horror Open-world, action Horror Action Roguelike, RPG Shooting Action RPG Shooting Action Horror MMORPG Action role-playing MMORPG Battle Royale, ninja Sci-fi, shooting Shooting Shooting Shooting Shooting Simulation	Supercell Remedy Entertainment Psyonix Epic Games Iron Galaxy Studios Remedy Entertainment Epic Games Bloober Team Sumo Digital Klei Entertainment Royal Crow Stunlock Studios Wake Up Interactive Bloober Team Grinding Gear Games Neostream Interactive Nyou Wake Up Interactive Splash Damage IKINA Games IKINA Games NeXT Studio	Subsidiary  Associates Associates Associates Co-operated Co-operated Co-operated Subsidiary	Supercell  Epic Games Publishinn Epic Games Publishinn Epic Games Epic Games Epic Games Epic Games Epic Games Epic Games Bloober Team Focus Home Interactive Klei Entertainme THUMBAGE Stunlock Studios 110 Industries Bloober Team Grinding Gear Ge Neostream Intera Nyou 110 Industries Leyou Technolog IKINA Games IKINA Games Level Infinite
y	Clash Heroes  Alan Wake Remastered  Rocket League Sidesnipe  Fortnite Chapter 3  Rumbleverse  Alan Wake 2  The Matrix Awakens  MEDIUM  Hood: Outlaws & Legends  Grittands  CROWZ: Squad Operation  V Rising  Wanted Dead  Vengeance is Mine  Layers of Fears  Path Of Exile 2  Little Devil Inside  Project M1  Project EDO  Um-named new project  Order Zero  Galaxy Tales: Story of Rapunzel	TBA  5-Oct-21 2-Dec-21 7-Dec-21 15-Feb-22 2023 TBA  28-Jan-21 10-May-21 1-Jun-21 13-Nov-21 5/17/2022 4022 2023 2024 TBA TBA TBA TBA TBA TBA TBA Sep-21 Jan-22	Mobile  Win, PS4, XBO, PS5, Xbox X/S IOS, Android  PlayStation, Xbox, and PC  Win, PS4, XBO, PS5, Xbox X/S PS5 and Xbox Series X S  Win, PS5, XBO  Win, Nintendo Switch, PS4, XBO  Win, Nintendo Switch, PS4, XBO  Win, PS5, XBO  Mobile  Mobile	Action Horror Racing Battle Royale, shooting Battle Royale Horror Open-world, action Horror Action Roguelike, RPG Shooting Action, RPG Shooting Action Horror MMORPG Action role-playing MMORPG Battle Royale, ninja Sci-fi, shooting Shooting Shooting Shooting Shooting Sci-fi, shooting	Supercell Remedy Entertainment Psyonix Epic Games Iron Galaxy Studios Remedy Entertainment Epic Games Bloober Team Sumo Digital Klei Entertainment Royal Crow Stunlock Studios Wake Up Interactive Bloober Team Grinding Gear Games Neostream Interactive Nyou Wake Up Interactive Splash Damage IKINA Games IKINA Games	Subsidiary  Associates Associates Associates Co-operated Co-operated Co-operated Subsidiary	Supercell  Epic Games Publishion Epic Games Publishion Epic Games Epic Games Epic Games Epic Games Epic Games Bloober Team Focus Home Interaction Klei Entertainme THUMBAGE Stunlock Studios 110 Industries Bloober Team Grinding Gear Ga Neostream Intera Nyou 110 Industries Leyou Technolog IKINA Games IKINA Games

Source: Company data, data compiled by Goldman Sachs Global Investment Research

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Exhibit 15: NetEase has a pipeline of over 7 international games in 2022, with the next meaningful contributor likely to be Harry Potter Japan, though the launch date has not been confirmed yet.

Game	Genre	Release date	Region
Naraka: Bladepoint mobile	Battle Royale	2023	Worldwide
Naraka: Bladepoint console	Battle Royale	2022	Worldwide
Harry Potter: Magic Awakened	MMORPG	4Q22	Japan, Korea, ASEAN
Lost Light	FPS	8/31/2022	Worldwide
Dead by Daylight Mobile	Horror	4/28/2022	Asia
The Lord of the Rings: Rise to War	SLG	4/15/2022	Japan, Korea, Macau, Hong Kong, Taiwain
Vikingard	MMORPG	3/21/2022	Canada, United States, France, Germany, United Kingdom, Australia
Revelation	MMORPG	10/4/2021	Korea
Harry Potter: Magic Awakened	MMORPG	9/9/2021	Mainland China, Macau, Hong Kong, Taiwan
The Lord of the Rings: Rise to War	SLG	9/6/2021	Worldwide
Genesis Masterwork Apocalypse	CCG	7/28/2021	Japan, Taiwan
MARVEL Duel	CCG	7/22/2020	Hong Kong, Thailand, Malaysia
X2: Eclipse	CCG	7/1/2021	Korea
Neko Crush	Simulation	6/26/2021	United States, Thailand
Onmyoji: Kindergarten	CCG	5/21/2021	Japan
Murderous Pursuits	Action	4/30/2020	Thailand, Singapore, Canada, Taiwan
Flower and Sword	MMORPG	4/24/2020	Canada, Singapore, Malaysia, Australia, United Kingdom, Thailand, Korea, Germany, □ France, Vietnam, Hong Kong
Infinite Lagrange	SLG	4/21/2021	USA, Germany, Japan
Onmyoji: The Card Game	CCG	9/21/2020	Japan, Thailand, Hong Kong

Source: Company data, Goldman Sachs Global Investment Research

### Target Price, TP Methodology and Risks

**Tencent:** Our 12-month SOTP-based target price is **HK\$503**, implying 69% upside. We are Buy-rated. Downside risks: More intense industry competition in performance-based advertising, unexpected delay in game launches/Banhao approvals, more intense competition in long-form video with larger margin drag, slower-than-expected growth in FinTech and Cloud businesses, reinvestment risk, and technical selling pressure from Prosus.

**NetEase:** Our 12-month SOTP-based target prices of **US\$120/HK\$187** for NTES/9999.HK, imply 33%/35% upside. We are Buy-rated on NTES/9999.HK. Downside risks: Weaker performance of legacy games; slower-than-expected monetization ramp-up of new games; more intensive competition in games, e-commerce, education and other business areas.

**Bilibili**: Our 12-month DCF-based target prices of **US\$28/HK\$219** (WACC of 15% and terminal growth rate of 3%) imply 20%/17% upside. We are Neutral rated on BILI/9626.HK. Upside risks: 1) Further growth in time spent share; 2) Stronger online game revenue growth; 3) Progress on cost-cutting initiatives. Downside risks: 1) Intensified competition for user time spent from other entertainment contenders, notably from short-form video companies; 2) Weaker-than-expected game grossing and pipeline due to Banhao suspension; 3) Losses continue if content costs/revenue sharing does not fall as a percentage of revenue.

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### South Korea: Focus on downward stabilization of relatively new games

NCSOFT (036570.KS), Netmarble (251270.KS), Krafton (259960.KS) and Pearl Abyss (263750.KQ) are covered by Eric Cha.

**Korea:** With key game launches slated toward the latter part of the year, we believe the main debates around the companies will be **product life cycle management** for existing games before new games kick in and incremental data (i.e. exact launch date, pre-launch marketing activities, details on business model) on the upcoming blockbuster games before their launch.

- For NCSOFT specifically, we believe the revenue trajectory of *LW* and *LM* will be key drivers of earnings while investors will be mostly looking for more details around *TL* launch in 4Q (key interest around specific business model). We expect *LW* (Region 1, launched Nov 2021) to sequentially decline by c.40% in 2Q22 as we observe *LW Korea* grossing rankings have been competing shoulder to shoulder with *LM* throughout 2Q, whereas we had expected *LW* to remain a solid #1. In Taiwan, *LW* has maintained robust #1 grossing ranking throughout 2Q.
- For Krafton, we expect *PUBG* franchise mobile revenue will drive near term earnings but the main event for the year will likely be the launch of *Callisto Protocol*, which recently set its launch date to Dec 2, 2022, improving visibility for the pipeline. With 2Q22 being a relatively weak season, we expect mobile revenue to decline (-11% YoY, 21% QoQ), which should drive an 18% sequential decline for the overall top line (-7% YoY) accordingly. Mostly driven by QoQ decline in top line, OP will also decline sequentially, W160bn on our estimate.
- For Pearl Abyss, we believe investor expectations are likely low on *BDM China* being a turnaround title given the lukewarm datapoints thus far post its Apr launch, and we also think there could be some risk of game launch delay around *Crimson Desert* (current expectation of 4Q22 launch). The most imminent launch would be *Black Clover Mobile* (RPG, Korea/Japan), which we expect to be launched in 3Q22 (GSe).
- For Netmarble, which saw an OP loss in 1Q, we believe key debates for the short term would be on its top line recovery through new game launches namely, Cross Worlds' global launch (May 25) and Seven Knights Revolution Korea launch (July 28).

### **Target Price, TP Methodology and Risks**

**NCSOFT:** We maintain our Neutral rating on NCSOFT with a 12mTP of W430,000, based on 20x target P/E to NTM+1Y EPS of W21,684. For the short-term, product life cycle management of existing major mobile games (i.e. *LM*, *L2M*, *LW*) pose as both upside and downside risk to earnings, in our view. Additional downside risk may come from delay in key game launch (*TL* is currently slated for launch towards 2022 year-end), while better-than-expected performance from *TL* could result in earnings upside as well as re-rating for the stock with other games in the pipeline could be perceived as having higher hit ratio in the overseas market.

**Netmarble:** We maintain our Sell rating on Netmarble with an SOTP-based 12mTP of W82,000. This implies target NTM+1Y (2023E) P/E of 22x, compared to global peer average (excl Netmarble) of 20x. Upside risks: 1) A more resilient revenue performance from *BSR* and *L2R* would provide meaningful upside risk to our earnings; 2) as we are bearish on the company owing to its dependence on external IP games, meaningful successes from self-developed games would provide upside risk to revenue as well as our OP margin assumptions; 3) meaningful increase in the value of investment assets would provide upside risk to Netmarble's SOTP valuation.

**Krafton:** We maintain our Sell rating on Krafton with a 12m TP of W210,000, based on 18x target P/E (10% discount on global peer average excluding Krafton) applied to NTM+1Y EPS of W11,464. Key upside risks include better-than-expected product life cycle management for *PUBG* and better-than-expected performance from *The Callisto Protocol*, which could subsequently lead to re-rating of the stock, on top of earnings upside.

**Pearl Abyss:** We maintain a Neutral rating with a 12m target price of W65,000, based on 18x target P/E (global peer average) applied to NTM+1Y EPS of W3,628. Upside risks include better-than-expected performance from *BDM China*, *Black Clover*, *CD*, *DokeV* etc., better product life cycle management of existing IP, a more recurring revenue stream from venture capital subsidiary, further multiple expansion from portfolio diversification and metaverse/NFT development. Downside risks include softer-than-expected *BDM* revenue from overseas, which could arise from differences in user behavior regarding in-game item sales or from potentially intensifying competition from other Korean developers. Delays in the game launch schedule could also weaken investment sentiment. Other risks include weaker-than-expected performance of new pipelines (e.g., *CD*, *DokeV*, *PLAN 8* etc.).

Goldman Sachs

Exhibit 16: South Korean mobile game publishers: worldwide grossing by player snapshot

Korea								
Netmarble Games Corp.	251270.KS	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22
oY% - local currency		-19%	-21%	-34%	20%	429	6 -149	6 19
2-Yr CAGR% - local currency		12%					12	
Grossing % yoy - by titles								
The Seven Deadly Sins: Grand Cross	七つの大罪光と闇の交戦:グラクロ	-38%	73%	-78%	72%	-40%	-55%	-44%
Cash Frenzy™ - Casino Slots	Cash Frenzy™ - Casino Slots	-18%	-20%	-26%	-26%	-26%	-21%	-21%
Jackpot World™ - Slots Casino	Jackpot World™ - Slots Casino	56%	49%	53%	50%	38%	24%	4%
Marvel Contest of Champions	Marvel Contest of Champions	-45%	-21%	-51%	-41%	-38%	-41%	-31%
Lotsa Slots - Casino Games	Lotsa Slots - Casino Games	-2%	0%	-1%	-4%	-2%	0%	4%
Global Market share %		1.5%	_	_		_		
Market share % - by titles								
The Seven Deadly Sins: Grand Cross	七つの大罪光と闇の交戦:グラクロ	0.3%	0.1%	0.1%	0.1%	0.3%	0.2%	0.2%
Cash Frenzy™ - Casino Slots	Cash Frenzy™ - Casino Slots	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%
Jackpot World™ - Slots Casino	Jackpot World™ - Slots Casino	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%
Marvel Contest of Champions	Marvel Contest of Champions	0.2%	0.2%	0.2%	0.3%	0.2%	0.2%	0.4%
Lotsa Slots - Casino Games	Lotsa Slots - Casino Games	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%
Lotsa Siots - Casillo Gallies	Lotsa siots - Casillo Gallies	MILYO	W.Z.70	V-2.70	W.Z.70	W-270	MxZ/D	0.279
NCSOFT	036570.KS	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22
YoY% - local currency	030370.R3	61%			_	_		_
YOY% - local currency 2-Yr CAGR% - local currency		5%						1,000
		5%	5%	10%	25%	199	149	8
Grossing % yoy - by titles	리니지w	09/	0%	0%	0%	0%	0%	0%
Lineage W	리니지M	0% -5 <mark>6%</mark>	-50%	-29%	2%	-22%	7%	0%
Lineage M	리니지2M	-55%	-48%	-41%	-77%		72%	-69%
Lineage 2M			- 10		The state of the s	-73%		
Lineage 2M - Japan	リネージュ2M (Lineage2M)	0%	0%	24%	-57%	-55%	-46%	-46%
Blade & Soul	블레이드&소울2	0%	0%	0%	0%	0%	0%	0%
Global Market share %		2.2%	2.3%	2.3%	2.0%	1.89	6 1.8%	6 1.79
Market share % - by titles	711171							
Lineage W	리니지W	1.2%	1.3%	1.3%	1.0%	1.0%	0.6%	0.6%
Lineage M	리니지M	0.4%	0.5%	0.5%	0.6%	0.5%	0.8%	0.8%
Lineage 2M	리니지2M	0.3%	0.3%	0.3%	0.2%	0.2%	0.2%	0.2%
Lineage 2M - Japan	リネージュ2M (Lineage2M)	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
Blade & Soul	블레이드&소울2	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	0.0%
NEXON Company		Jan-22		Mar-22		_	Jun-22	Jul-22
YoY% - local currency		-21%			1	1	The state of the s	The second second
2-Yr CAGR% - local currency		7%	3%	24%	31%	119	6 📑 -12%	6179
Grossing % yoy - by titles		1	- 4	- 1		ī	- 1	
DnF Mobile	던전앤파이터 모바일	0%	0%	0%	0%	0%	0%	0%
Maplestory M	메이플스토리M	-32%	-4%	8%	23%	18%	3%	-18%
FIFA ONLINE 4 M by EA SPORTS™	FIFA ONLINE 4 M by EA SPORTS™	18%	23%	156%	148%	51%	62%	79%
KartRider Mobile	카트라이더 러쉬플러스	-17%	-58%	-15%	-37%	-29%	-30%	-32%
FIFA Mobile	피파모바일	9%	39%	57%	5%	2%	9%	38%
Global Market share %		0.8%	0.7%	0.9%	1.1%	1.09	6 0.8%	0.89
Market share % - by titles								
DnF Mobile	던전앤파이터 모바일			0.2%	0.4%	0.3%	0.2%	0.3%
Maplestory M	메이플스토리M	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%
FIFA ONLINE 4 M by EA SPORTS™	FIFA ONLINE 4 M by EA SPORTS™	0.1%	0.1%	0.2%	0.1%	0.1%	0.1%	0.1%
KartRider Mobile	카트라이더 러쉬플러스	0.1%	0.1%	0.1%	0.0%	0.1%	0.1%	0.1%
National Mobile	피파모바일	0.1%	0.1%	0.1%	0.1%	0.0%	0.1%	0.1%
FIFA Mobile	씨씨エ미ㄹ							
FIFA Mobile	10, 10,			DOMESTIC OF THE OWNER,	100	THE RESERVE	Sales	1 20 2 2 2
FIFA Mobile Pearl Abyss Corp.	263750.KS	Jan-22	Feb-22		Apr-22			Jul-22
FIFA Mobile	10, 10,	- 11000	-45%	-30%	-16%	-349		
FIFA Mobile Pearl Abyss Corp.	10, 10,	Jan-22		-30%	-16%	-349	-419	-49
FIFA Mobile  Pearl Abyss Corp.  YoY% - local currency	10, 10,	Jan-22 -45%	-45%	-30%	-16%	-349	-419	-49 -49
FIFA Mobile  Pearl Abyss Corp.  YoY% - local currency 2-Yr CAGR% - local currency	10, 10,	Jan-22 -45%	-45%	-30%	-16 <mark>% -47%</mark>	-349	-419	-49
Pearl Abyss Corp. YoY% - local currency 2-Yr CAGR% - local currency Grossing % yoy - by titles	263750.KS	Jan-22 -45%	-45% -45%	-80% -46%	-16 <mark>% -47%</mark>	-49% -32%	-419 -489 -45%	-499 -499 -52%
Pearl Abyss Corp. YoY% - local currency 2-Yr CAGR% - local currency Grossing % yoy - by titles Black Desert Mobile	263750.KS	Jan-22 -45% -45%	-45% -45%	-80% -46%	-16 <mark>% -47%</mark>	-49% -32%	-419 -489 -45%	-499 -499 -52%

Source: SensorTower, data compiled by Goldman Sachs Global Investment Research

## ASEAN: Free Fire still the largest battle royale, but continues to drift lower on a yoy (%) basis with weakness seen across countries

### Sea Limited (SE) is covered by Pang Vittayaamnuaykoon

SEA: At Garena, we believe 1) the stabilizing of Free Fire's grossing following the post-Covid fatigue and 2) more visibility on pipeline continue to serve as the key catalysts for Sea. In the past a few months, we find encouraging the stabilized user engagement since March, with Free Fire+Free Fire Max MAU edged up on MoM basis in July, manifesting the effectiveness of Garena's proactive moves in refreshing contents and incentivizing time spent. However, grossing remains weak heading into 3Q22, as Garena intentionally slowed monetization to retain users. We expect Garena to increase monetization at a paced schedule post the recovery of user engagement, and hence grossing to bottom in 3Q22. In terms of profitability, we expect EBITDA margin to remain under pressure for the following quarters in 2022 as Garena is committed to investing into the Free Fire franchise while enhancing its pipeline. In the longer term, we believe the title is likely to follow MOBA's path and see potential for revenue to be reinvigorated with operational efforts. Meanwhile, Garena started publishing the sandbox game platform **Blockman Go** globally from July 5 in regions including Indonesia, Brazil and Thailand, and launched the 3rd round testing of Alpha Ace in June as a publisher. Despite at a nascent stage, it has shed light on the company's potential to diversify their game portfolio especially post the fatigue at Free Fire.

### Free Fire

- Based on SensorTower, Free Fire revenue decline stabilized at -c.45% yoy in the last a few months, with weakness across countries including USA, India, Brazil, Indonesia and Thailand. Note that, revenue from SensorTower does not include the portion of revenue that Garena generated through off platform top up. Downloads picked up sequentially in July post the weakness in June, with robust momentum observed in Brazil, Indonesia, Mexico and Columbia. That said, Free Fire remains the top title in the battle royale / FPS genre. In Brazil, Mexico, Thailand and Indonesia, Free Fire is still the largest battle royale / FPS game ranking above both Call of Duty mobile and PUBG.
- Garena is committed to investing in its Free Fire franchise. According to SocialPeta, it has topped the traffic acquisition spending list among non-mainland China mobile games at Andorid devices in June, primarily spending in the U.S., Vietnam and Pakistan market in the month.
- Free Fire has been rejuvenating the franchise with upgraded visual design.

  They recently unveiled a new logo featuring a more modern and dynamic look with the key details players are familiar with retained. They also updated the UI with new layout for mode selection and mission pages.
- To celebrate its **fifth anniversary**, Free Fire <u>unveiled its plan</u> to host the first in-game performance collaborating with popular artists in August. It will also bring back popular themed content, exclusive rewards and giveaways during the celebration

event.

### Blockman Go

Garena launched the game globally in July in 5 regions including Indonesia, Brazil and Thailand. The game resembles Minecraft and Roblox and is uniquely optimized to be compatible with lower end smartphones.

■ Since first being launched in 2017, **grossing** has been healthy as per SensorTower, reaching **US\$500k** per month at a peak level, despite weakening upon Post-Covid reopening. **Downloads** are also **strong** particularly with the version updates earlier this year. Total downloads have surpassed **100mn**, with most contributions from Brazil, Vietnam and Indonesia. For context, Roblox recorded US\$631mn total bookings as of 1Q22 with bookings per DAU at US\$11.67.

#### Arena of Valor

■ **Net Revenue growth (yoy)** increased sequentially in July, while downloads growth marginally softened compared with 2Q/1Q 2022. We note multiple collaborations with popular animation IPs in the last quarter, including **Ultraman** skins released in June 2022. Also in July, Garena launched update patch with new revamped hero Helen, battlefield changes and core game-play improvements. By country, for downloads we see stronger yoy growth momentum in Indonesia, Singapore and Thailand, while on revenue Malaysia, Hong Kong and Philippine led the growth.

### Moonlight Blade

Garena entered full launch of PC and mobile *Moolight Blade* on August 2 in Thailand. Previously, 1.2mn players showed interest in pre-registration. We note that Garena's *Moonlight Blade* global grossing (excl. mainland China) has dipped sequentially in June/July vs. earlier this year.

### **Acquisition of VIC Game Studios**

As reported on <u>July 27</u>, a South Korean game developer, **VIC Game Studio (VIC)**, closed a funding worth c.US\$27mn led by Garena. VIC was founded in 2020 by key personnel that produced *The Seven Deadly Sins: Grand Cross*, a blockbuster animation IP-based mobile RPG title. They are currently focused on promoting a number of new games, including another animation IP-based title *Black Clover Mobile*. It is scheduled to be released in 2022 and has recorded 283k pre-registrations on TapTap.

### **Target Price, TP Methodology and Risks**

**Maintain Buy on SE** as we continue to view Sea as a winner in the fast-growing gaming, ecommerce and digital finance markets in Asia, and we expect further upside from its successful move into LATAM. Our 12-month SOTP-based TP remains unchanged at US\$176.

**Key risks**: 1) Competition from global peers; 2) macroeconomic and geopolitical risks and exchange rate volatility; 3) execution in new markets e.g. LATAM/India; 4) inability to derive synergies from all three businesses.

Exhibit 17: ASEAN mobile game publishers: worldwide grossing by player snapshot

ASEAN								
SEA/Garena Games Online		Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22
YoY% - global		-99	6 🛚 -179	6 🌉 -22%	32%	-48%	-48%	-45%
2-Yr CAGR% - global		229	239	6 20%	5 5%	-4%	6 -89	-10%
Grossing % yoy - by titles								
Garena Free Fire	Garena Free Fire	-13%	-19%	-23%	-37%	-54%	-5 <mark>3%</mark>	-47%
Garena Arena of Valor	Garena Arena of Valor	31%	13%	-1%	10%	9%	14%	17%
Garena Moon Light Blade	天涯明月刀 M - Garena	0%	0%	0%	0%	0%	0%	-100 <mark>%</mark>
Global Market share %		1.3%	1.3%	<b>1.2</b> %	1.0%	1.1%	1.0%	1.0%
Market share % - by titles								
Garena Free Fire	Garena Free Fire	1.0%	1.0%	1.0%	0.8%	0.8%	0.8%	0.8%
Garena Arena of Valor	Garena Arena of Valor	0.1%	0.2%	0.1%	0.1%	0.2%	0.2%	0.2%
Garena Moon Light Blade	天涯明月刀 M - Garena	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Source: SensorTower, data compiled by Goldman Sachs Global Investment Research

## Japan mobile game grossings by publisher

Exhibit 18: Japanese mobile game publishers: worldwide grossing by player snapshot

Japan								
YoY% - domestic Japan (constant FX)		-12%	-7%	-9%	-4%	0%	5%	9%
YoY% - domestic Japan (US\$)	-	-20%	-15%	-18%	-17%	-15%	-15%	-10%
BANDAI NAMCO Entertainment	7832.T	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22
YoY% - local currency	123	-46%	-36%	-45%	-37%	26%	104%	23%
2-Yr CAGR% - local currency		-17%	-23%	-27%	-23%	-3%	-5%	-1%
Grossing % yoy - by titles				-			40	
ONE PIECE Treasure Cruise	ONE PIECE トレジャークルーズ	-5%	-	-25%	0%	67%	16%	-13%
DRAGON BALL LEGENDS	DRAGON BALL LEGENDS	-22%	1	-5%	-38%	10%	-1%	67%
ONE PIECE Bounty Rush-Action Game	ONE PIECE バウンティラッシュ - アク			-21%	16%	21%	22%	98%
	転生したらスライムだった件 魔王と			0%	0% -M: %	0%	0%	0%
Global Market share %	アイドルマスター シンデレラガール	1.3%	-42% 1.4%	51% 0.9%	0.9%	-40% 1.7%	- <mark>3</mark> 4%	-12% 2.5%
Market share % - by titles		1.370	1.470	0.376	0.576	1./70	1./70	2.376
ONE PIECE Treasure Cruise	ONE PIECE トレジャークルーズ	0.2%	0.1%	0.1%	b.1%	0.4%	0.1%	0.1%
DRAGON BALL LEGENDS	DRAGON BALL LEGENDS		The state of the s	0.3%	0.2%	0.2%	0.6%	0.5%
ONE PIECE Bounty Rush-Action Game	ONE PIECE バウンティラッシュ - アク			0.1%	0.1%	0.1%	0.1%	0.2%
That Time I Got Reincarnated as a Slime	転生したらスライムだった件魔王と		0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
The Idolmaster: Cinderella Girls Starlight	アイドルマスター シンデレラガール	0.1%	1%	0.1%	0.1%	0.1%	0.1%	0.1%
A 11 To A 1 To A		1275	F 1 00		A	100000	100000	Jul-22
CyberAgent	4751.T	Jan-22 60%			Apr-22 -44%		Jun-22 -32%	A STATE OF THE PARTY OF THE PAR
YoY% - local currency 2-Yr CAGR% - local currency		27%	35%	24%	15%	1000000	-	13%
Grossing % yoy - by titles		21/0	3370	2470	1376	32/	0.00	1370
Uma Musume Pretty Derby	ウマ娘プリティーダービー	0%	185%	-19%	56%	-42%	<b>4</b> 7%	-3%
Princess Connect! Re: Dive	プリンセスコネクト! Re:Dive	72%	-	-63%	-34%	23%	-20%	52%
BanG Dream! Girls band party!	パンドリ! ガールズパンドパーティ	The second second		55%	58%	-13%	59%	-86%
Shadowverse	シャドウバース (Shadowverse)	-84%	69%	117%	-40%	-38%	25%	2%
A blessing to this wonderful world!	この素晴らしい世界に祝福を! ファン	50%	3%	48%	56%	-13%	47%	37%
Global Market share %	333311	1.5%	1.5%	1.8%	1.1%	1.2%	1.1%	1.3%
Market share % - by titles								
Uma Musume Pretty Derby	ウマ娘 プリティーダービー		1 TO	1.3%	0.8%	0.9%	0.8%	1.3%
Princess Connect! Re: Dive	プリンセスコネクト! Re:Dive			0.1%	0.1%	D.1%	0.1%	0.1%
BanG Dream! Girls band party!	バンドリ! ガールズバンドパーティ		10000000	0.1%	0.0%	0.1%	0.0%	0.0%
Shadowverse	シャドウバース (Shadowverse) この素晴らしい世界に祝福を! ファン	1		0.1% 0.0%	0.0%	0.0%	0.1%	0.1%
A blessing to this wonderful world!	この素明のしい世界に依備をミック	-10.0%	0.0%	0.076	0.0%	U.U%	0.076	U.U20
SQUARE ENIX	9684.T	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22
YoY% - local currency		-25%	-26%	-32%	-30%			100
2-Yr CAGR% - local currency		4%	-1%	-11%	-13%	-10%	d%	
		- 20					4 U76	-4%
Grossing % yoy - by titles	h / l . /							-
Grossing % yoy - by titles Dragon quest walk	ドラゴンクエストウォーク	-33%	2000	-29%	-37%	-33%	-23%	15%
Grossing % yoy - by titles Dragon quest walk Dragon Quest Tact	ドラゴンクエストタクト	-33 <b>%</b> -7%	-26%	-33%	26%	-33 <b>%</b>	-23% -14%	15% II
Grossing % yoy - by titles Dragon quest walk Dragon Quest Tact FFBE Phantom War WAR OF THE VISION:	ドラゴンクエストタクト SFFBE幻影戦争 WAR OF THE VISIONS	-33% -7%	-26% -65%	-33 <b>%</b> -4 <b>8%</b>	26% -79%	-33%   25%   -9%	-23% -14% -45%	15%    1% -68%
Grossing % yoy - by titles Dragon quest walk Dragon Quest Tact FFBE Phantom War WAR OF THE VISION: Romancing SaGa Re: Universe	ドラゴンクエストタクト SFFBE幻影戦争 WAR OF THE VISIONS ロマンシング サガ リ・ユニバース	-33% -7% -68%	-26% - <mark>55%</mark> -3%	-33 <mark>%</mark> -48% -44%	26% - <b>79%</b> -33%	-33% 25% - <del>19%</del> -62%	-23% -14% -45% -10%	15%    1% -68%   -6%
Grossing % yoy - by titles Dragon quest walk Dragon Quest Tact FFBE Phantom War WAR OF THE VISION: Romancing SaGa Re: Universe Holy Sword Legend ECHOES of MANA	ドラゴンクエストタクト SFFBE幻影戦争 WAR OF THE VISIONS	-33 <mark>%</mark> -7% -68% 6% 0%	-26% - <mark>65%</mark> -3%	-33 <mark>%</mark> -4 <b>8%</b> -44 <b>%</b> 0%	26% - <b>79%</b> -33 <b>%</b> 0%	-33% 25% -59% -62%	-23% -14% -45% -10% 0%	15% 1 1% -68% 6 -6% 0%
Grossing % yoy - by titles Dragon quest walk Dragon Quest Tact FFBE Phantom War WAR OF THE VISION: Romancing SaGa Re: Universe Holy Sword Legend ECHOES of MANA Global Market share %	ドラゴンクエストタクト SFFBE幻影戦争 WAR OF THE VISIONS ロマンシング サガ リ・ユニバース	-33% -7% -68%	-26% - <mark>55%</mark> -3%	-33 <mark>%</mark> -48% -44%	26% - <b>79%</b> -33%	-33% 25% -59% -62%	-23% -14% -45% -10% 0%	15% 1 1% -68% 6 -6% 0%
Grossing % yoy - by titles Dragon quest walk Dragon Quest Tact FFBE Phantom War WAR OF THE VISION: Romancing SaGa Re: Universe Holy Sword Legend ECHOES of MANA Global Market share % Market share % - by titles	ドラゴンクエストタクト SFFBE幻影戦争 WAR OF THE VISIONS ロマンシング サガ リ・ユニバース	-33% -7%  -68%  -6%  -6%  -1.7%	-26% -55% -3% 0% 1.4%	-33 <mark>%</mark> -4 <b>8%</b> -44 <b>%</b> 0%	26% - <b>79%</b> -33 <b>%</b> 0%	-33% 25% -59% -62%	-23% -14% -45% -10% 0%	15% 1 1% -68% 6 -6% 0%
Grossing % yoy - by titles Dragon quest walk Dragon Quest Tact FFBE Phantom War WAR OF THE VISION: Romancing SaGa Re: Universe Holy Sword Legend ECHOES of MANA Global Market share %	ドラゴンクエストタクト SFRE幻影戦争 WAR OF THE VISIONS ロマンシング サガ リ・ユニバース 聖剣伝説 ECHOES of MANA	-33% -7%   -68% 6%   0%   1.7%	-26% -55% -3% 0% 1.4%	-33 <mark>%</mark> -4 <mark>8%</mark> -44 <b>%</b> 0% 1.2%	26% -79% -33% 0% 1.2%	-33%   25%   -59%   -62%   0%   1.3%	-23% -14% -45% -10% 0%	15%   1%   -68%   0%   1.6%
Grossing % yoy - by titles Dragon quest walk Dragon Quest Tact FFBE Phantom War WAR OF THE VISION: Romancing SaGa Re: Universe Holy Sword Legend ECHOES of MANA Global Market share % Market share % - by titles Dragon quest walk	ドラゴンクエストタクト SFFBE幻影戦争 WAR OF THE VISIONS ロマンシング サガ リ・ユニパース 聖剣伝説 ECHOES of MANA ドラゴンクエストウォーク ドラゴンクエストタクト	-33% -7% -68% 6% 0% 1.7% 0.5% 0.4%	-26% -55% -3% 0% 1.4%	-33% -48% -44% 0% 1.2%	26% -79% -33 6 0% 1.2%	-33%   25%   -59%   -62%   0%   1.3%	-23% -14% -45% -10% 0% 1.4%	15%   1%   -68%   0%   1.6%   0.5%
Grossing % yoy - by titles Dragon quest walk Dragon Quest Tact FFBE Phantom War WAR OF THE VISION: Romancing SaGa Re: Universe Holy Sword Legend ECHOES of MANA Global Market share % Market share %- by titles Dragon quest walk Dragon Quest Tact	ドラゴンクエストタクト SFFBE幻影戦争 WAR OF THE VISIONS ロマンシング サガ リ・ユニパース 聖剣伝説 ECHOES of MANA ドラゴンクエストウォーク ドラゴンクエストタクト	-33% -7% -68% 6% 0% 1.7% 0.5% 0.4% 0.1%	-26% -55% -3% 0% 1.4% 0.39% 0.2% b.1%	-33% -48% -44% 0% 1.2% 0.5%	26% -79% -33% 0% 1.2% 0.4% 0.2%	-33% 25% -59% -62% 0% 1.3%	-23% -14% -45% -10% 0% 1.4% 0.4% 0.1%	15% 1% -68% -6% 0% 1.6% 0.5% 0.3%
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Grossing % yoy - by titles Dragon quest walk Dragon Quest Tact FFBE Phantom War WAR OF THE VISION: Romancing SaGa Re: Universe Holy Sword Legend ECHOES of MANA Global Market share % Market share % - by titles Dragon quest walk Dragon Quest Tact FFBE Phantom War WAR OF THE VISION: Romancing SaGa Re: Universe Holy Sword Legend ECHOES of MANA	ドラゴンクエストタクト SFFBE幻影戦争 WAR OF THE VISIONS ロマンシング サガ リ・ユニパース 聖剣伝説 ECHOES of MANA ドラゴンクエストウォーク ドラゴンクエストタクト SFFBE幻影戦争 WAR OF THE VISIONS ロマンシング サガ リ・ユニバース 聖剣伝説 ECHOES of MANA	-33 16 -7% 1 -6896 6% 10% 1.7% 0.5% 0.4% 0.3%	-26% -55% -3% 0% 1.4% 0.3% 0.2% 0.1%	-33% -42% -44% 0% 1.2% 0.5% 0.2% 0.0% 0.1%	26% -79% -33% 0% 1.2% 0.4% 0.2% 0.0% 0.0%	-33% 25% -996 -62% 0% 1.3% 0.4% 0.2% 0.1% 0.1%	-23% -14% -45% -10% 0% 1.4% 0.1% 0.1% 0.1% 0.0%	15% 1% -683% -6% 0% 1.6% 0.5% 0.3% 0.0% 0.0%
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 $Source: Sensor Tower, \ data \ compiled \ by \ Goldman \ Sachs \ Global \ Investment \ Research$ 

### Disclosure Appendix

### Reg AC

We, Lincoln Kong, CFA, Ronald Keung, CFA, Eric Cha, Pang Vittayaamnuaykoon and Steve Qiu, hereby certify that all of the views expressed in this report accurately reflect our personal views about the subject company or companies and its or their securities. We also certify that no part of our compensation was, is or will be, directly or indirectly, related to the specific recommendations or views expressed in this report.

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### **GS Factor Profile**

The Goldman Sachs Factor Profile provides investment context for a stock by comparing key attributes to the market (i.e. our coverage universe) and its sector peers. The four key attributes depicted are: Growth, Financial Returns, Multiple (e.g. valuation) and Integrated (a composite of Growth, Financial Returns and Multiple). Growth, Financial Returns and Multiple are calculated by using normalized ranks for specific metrics for each stock. The normalized ranks for the metrics are then averaged and converted into percentiles for the relevant attribute. The precise calculation of each metric may vary depending on the fiscal year, industry and region, but the standard approach is as follows:

**Growth** is based on a stock's forward-looking sales growth, EBITDA growth and EPS growth (for financial stocks, only EPS and sales growth), with a higher percentile indicating a higher growth company. **Financial Returns** is based on a stock's forward-looking ROE, ROCE and CROCI (for financial stocks, only ROE), with a higher percentile indicating a company with higher financial returns. **Multiple** is based on a stock's forward-looking P/E, P/B, price/dividend (P/D), EV/EBITDA, EV/FCF and EV/Debt Adjusted Cash Flow (DACF) (for financial stocks, only P/E, P/B and P/D), with a higher percentile indicating a stock trading at a higher multiple. The **Integrated** percentile is calculated as the average of the Growth percentile, Financial Returns percentile and (100% - Multiple percentile).

Financial Returns and Multiple use the Goldman Sachs analyst forecasts at the fiscal year-end at least three quarters in the future. Growth uses inputs for the fiscal year at least seven quarters in the future compared with the year at least three quarters in the future (on a per-share basis for all metrics).

For a more detailed description of how we calculate the GS Factor Profile, please contact your GS representative.

### M&A Rank

Across our global coverage, we examine stocks using an M&A framework, considering both qualitative factors and quantitative factors (which may vary across sectors and regions) to incorporate the potential that certain companies could be acquired. We then assign a M&A rank as a means of scoring companies under our rated coverage from 1 to 3, with 1 representing high (30%-50%) probability of the company becoming an acquisition target, 2 representing medium (15%-30%) probability and 3 representing low (0%-15%) probability. For companies ranked 1 or 2, in line with our standard departmental guidelines we incorporate an M&A component into our target price. M&A rank of 3 is considered immaterial and therefore does not factor into our price target, and may or may not be discussed in research.

#### Quantum

Quantum is Goldman Sachs' proprietary database providing access to detailed financial statement histories, forecasts and ratios. It can be used for in-depth analysis of a single company, or to make comparisons between companies in different sectors and markets.

### **Disclosures**

### Logo disclosure

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The rating(s) for Bilibili Inc. (ADR), Bilibili Inc. (H), NetEase Inc. (ADR) and NetEase Inc. (H) is/are relative to the other companies in its/their coverage universe: Baidu.com Inc. (ADR), Baidu.com Inc. (H), Bilibili Inc. (ADR), Bilibili Inc. (H), NetEase Inc. (ADR), NetEase Inc. (H), Zhihu Inc., iQIYI Inc.

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### Distribution of ratings/investment banking relationships

Goldman Sachs Investment Research global Equity coverage universe

	Rating Distribution			Investme	ent Banking Relat	ionships
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### Target price history table(s)

rp. (263750.KQ)	NCSOFT Corp.	(036570.KS)
Target price (W)	Date of report	Target price (W)
65,000	31-Jul-22	430,000
113,000	15-May-22	480,000
104,000	21-Feb-22	460,000
110,000	25-Jan-22	880,000
97,000	11-Nov-21	1,010,000
490,000	04-Nov-21	970,000
350,000	02-Nov-21	920,000
	30-Aug-21	960,000
	11-Aug-21	1,260,000
	15-Jul-21	1,220,000
	10-May-21	1,200,000
	29-Mar-21	1,190,000
	03-Jan-21	1,260,000
	16-Nov-20	1,060,000
	21-Oct-20	1,040,000
	13-Aug-20	850,000
	65,000 113,000 104,000 110,000 97,000 490,000	Target price (W)         Date of report           65,000         31-Jul-22           113,000         15-May-22           104,000         21-Feb-22           110,000         25-Jan-22           97,000         11-Nov-21           490,000         04-Nov-21           350,000         02-Nov-21           30-Aug-21         11-Aug-21           15-Jul-21         10-May-21           29-Mar-21         03-Jan-21           16-Nov-20         21-Oct-20

Netmarble Cor	p. (251270.KS)	Krafton (259960.KS)				
Date of report	Target price (W)	Date of report	Target price (W)			
25-Apr-22	82,000	03-Aug-22	210,000			
21-Feb-22	83,000	10-Feb-22	220,000			
28-Apr-21	68,000	12-Jan-22	400,000			
11-Nov-20	64,000	05-Dec-21	480,000			
12-Aug-20	62.000					

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