

2017 YEAR IN REVIEW

DIGITAL GAMES AND INTERACTIVE MEDIA





The **SuperData Arcade and Player Profile** are the world's only cross-platform business intelligence tools on the global games market. The metrics contained here represent the largest and most comprehensive view of the vast and growing digital games market.

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EXECUTIVE SUMMARY

Interactive entertainment generated \$108.4B in revenues in 2017

Digital games

Interactive media





\$33.0B









One in three people on the planet (2.5B) play free-to-play games across PC and mobile platforms. Free-to-play games maintain their grip on the worldwide games market, generating \$82B, or 89% across mobile and PC markets.

Consumers spent \$14B more on mobile games in 2017 than in 2016. Games such as Arena of Valor and Fantasy Westward Journey from Asian publishers like Tencent and NetEase contributed to a 31% year-over-year growth for the worldwide mobile market.

Premium PC title PlayerUnknown's Battlegrounds was 2017's breakout success, generating \$712M in revenue in just eight months. The title reinvigorated player interest in the battle royale genre, paving the way for similar games like Fortnite and Knives Out.

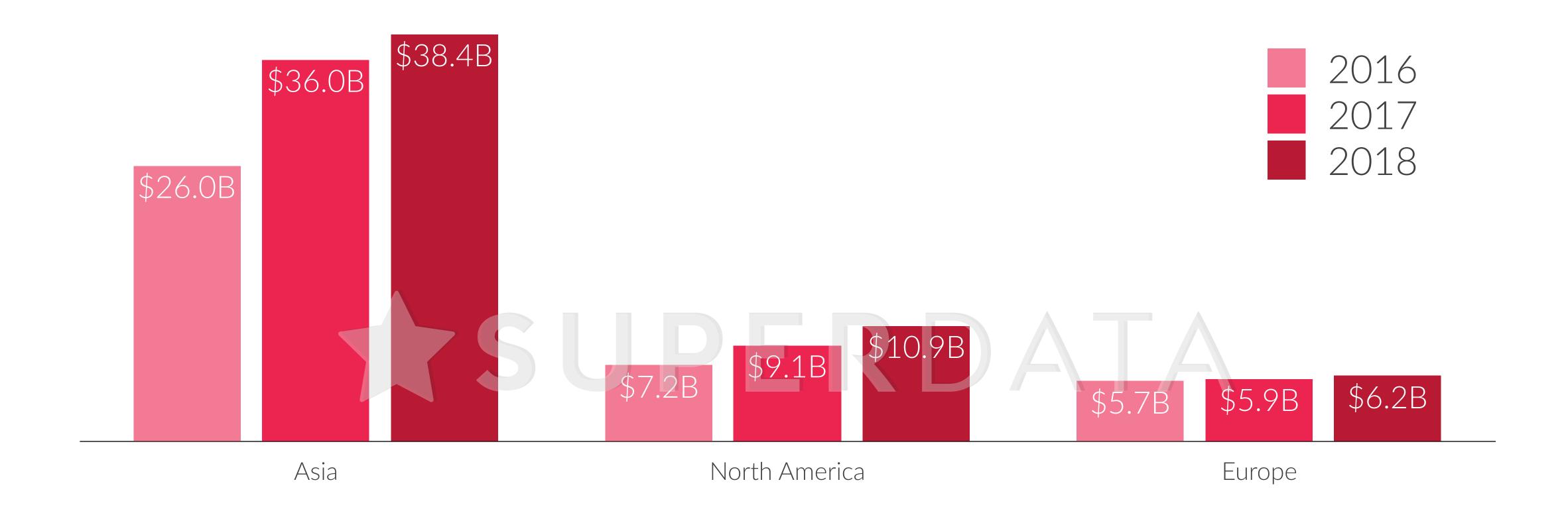
Esports generated \$756M in revenue and is on track to become a billion dollar business in 2018. Popular titles like *League of Legends* and *Overwatch* helped esports attract a sizable audience of 258M unique viewers.

Price cuts on virtual reality (VR) headsets and must-have content drove extended reality (XR) revenue up by 37% in 2017. Steep Oculus Rift price cuts boosted sales and allowed the headset to outsell HTC's Vive during the year. In the console space, PlayStation VR enjoyed positive momentum as gamers jumped at the chance to play major game franchises like *Resident Evil* and *The Elder Scrolls* in VR.



ACLOSER LOOK AT DIGITAL GAMES IN 2017

Mobile market and forecast by region





The mobile market grew to \$60B, but the top 10 still control 20% of revenue

Top mobile games by revenue, 2017

Rank	Title	Publisher	Revenue
1	Arena of Valor	Tencent	\$1.9B
2	Fantasy Westward Journey	NetEase	\$1.5B
3	Monster Strike	Mixi	\$1.3B
4	Clash Royale	Supercell	\$1.2B
5	Clash of Clans	Supercell	\$1.2B
6	Fate/Grand Order	Aniplex, Inc.	\$982M
7	Lineage 2: Revolution	Netmarble Games	\$980M
8	Candy Crush Saga	KING	\$910M
9	Pokémon GO	Niantic, Inc.	\$890M
10	Ghost Story	NetEase	\$860M

Asian publishers dominate the mobile scene with the top 3 titles alone earning over \$4.5B in 2017.

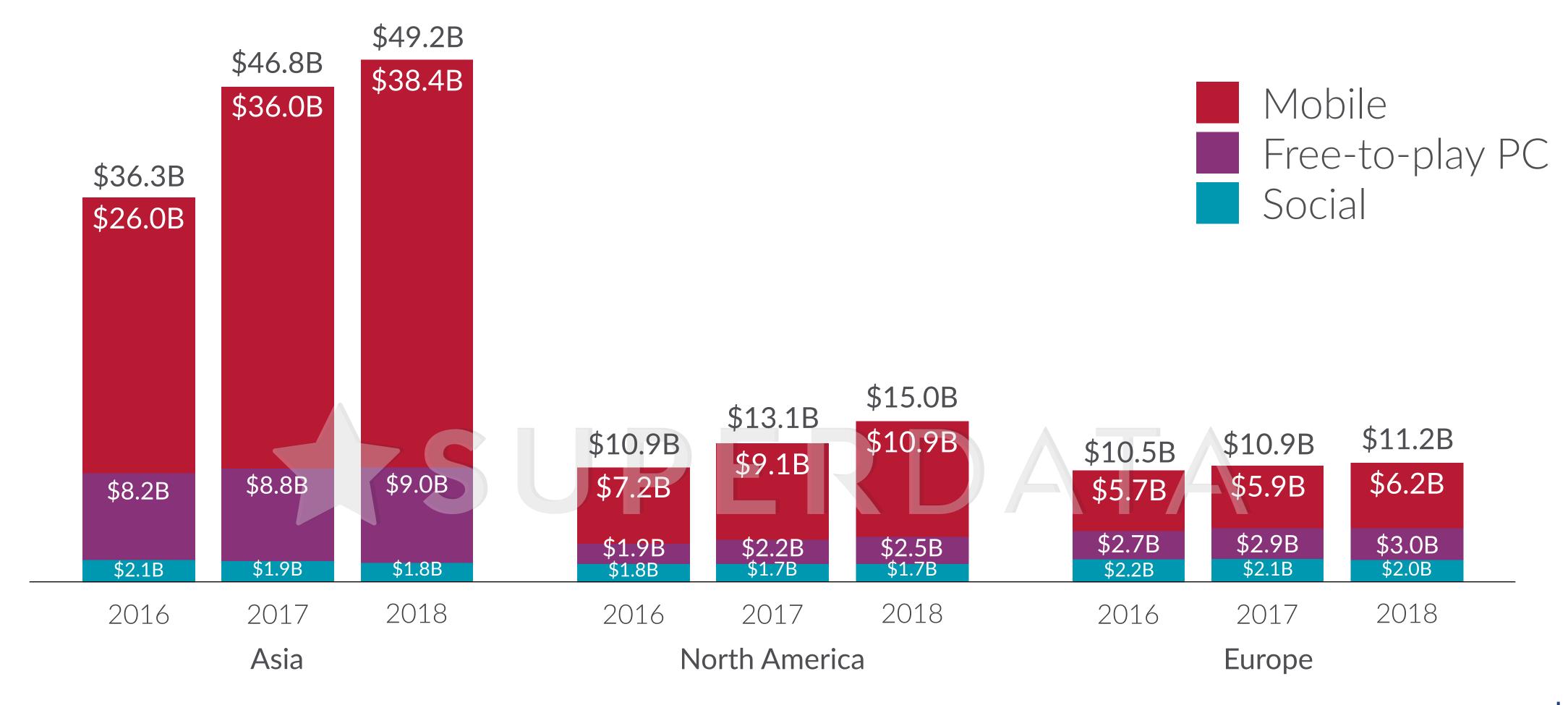
Regional publishers like Chinese behemoths Tencent and NetEase hold a legal, cultural, and brand-name advantage. Games like Arena of Valor and Fantasy Westward Journey feature historical and mythological themes and figures from Chinese culture. Meanwhile, Japanese gamers are still flocking toward the mobile platform despite increased competition from console platforms like PlayStation 4 and Nintendo Switch.

Powerful brand recognition is key to winning in the Western market.

Supercell and King have become household names over the past five years thanks to stellar performances from their flagship titles, *Clash of Clans* and *Candy Crush*, respectively. Meanwhile, Supercell's 2017 game, *Clash Royale*, managed to earn over \$1B in less than a year while *Pokemon GO* continues to find overwhelming success despite drop-off from the initial hype.



Free-to-play market and forecast by region





Free-to-play games took the lion's share (69%) of PC's \$33 billion market

Top free-to-play PC games by revenue, 2017

Rank	Title	Genre	Publisher	Revenue
1	League of Legends	MOBA	Riot Games/ Tencent	\$2.1B
2	Dungeon Fighter Online	RPG	Nexon/Tencent	\$1.6B
3	CrossFire	Shooter	Nexon/Tencent	\$1.4B
4	World of Tanks	Shooter	Wargaming	\$471M
5	Dota 2	MOBA	Valve Corporation	\$406M
6	Roblox	Virtual World	Roblox Corporation	\$310M
7	MapleStory	RPG	Nexon	\$279M
8	Hearthstone	CCG	Activation Blizzard	\$217M
9	Blade & Soul	RPG	NCSOFT/Tencent	\$178M
10	FIFA Online 3	Sports	Nexon/Tencent	\$163M

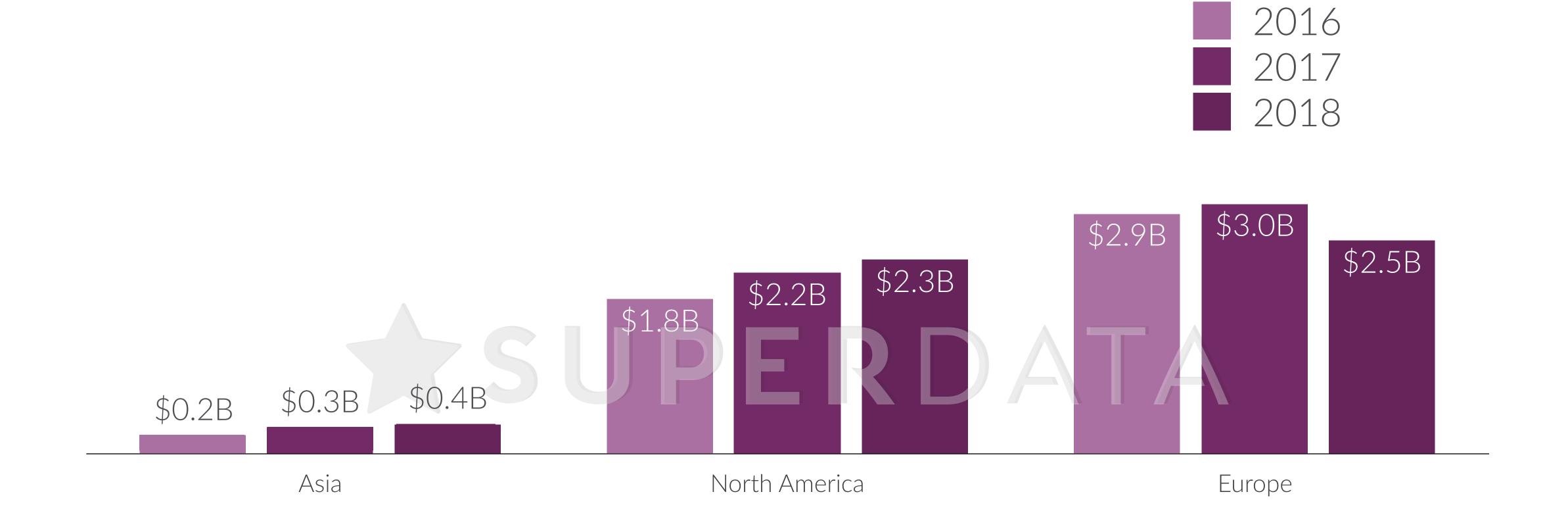
Top performers like League of Legends and Dungeon Fighter Online pushed free-to-play PC revenue to \$15B. The continued success of free-to-play esports titles like CrossFire, Dota 2 and League of Legends helped drive a 15% year-over-year growth.

RPGs and shooters make up 56% of the free-to-play PC market.

While MOBAs bookend the top-five free-to-play rankings, most of the revenue generated came from RPGs (34%) and shooters (22%). This trend is mirrored in the annual growth of the genres: RPGS and shooters grew by 9% and 13% respectively compared to a stagnant increase of 3% for the MOBA genre.



Premium PC market and forecast by region





2017's breakout hit *PlayerUnknown's Battlegrounds* raked in 12% of all premium PC revenue

Top premium PC games by revenue, 2017

Rank	Title	Publisher	Revenue
1	PlayerUnknown's Battlegrounds	Bluehole	\$714M
2	Overwatch	Activision Blizzard	\$382M
3	Counter-Strike: Global Offensive	Valve Corporation	\$341M
4	Destiny 2	Activision Blizzard	\$218M
5	Grand Theft Auto V	Rockstar Games	\$118M
6	Battlefield 1	Electronic Arts	\$113M
7	Minecraft	Microsoft Studios	\$92M
8	Guild Wars 2	NCsoft	\$87M
9	Divinity: Original Sin 2	Larian Studios	\$85M
10	Tom Clancy's Rainbow Six: Siege	Ubisoft	\$67M

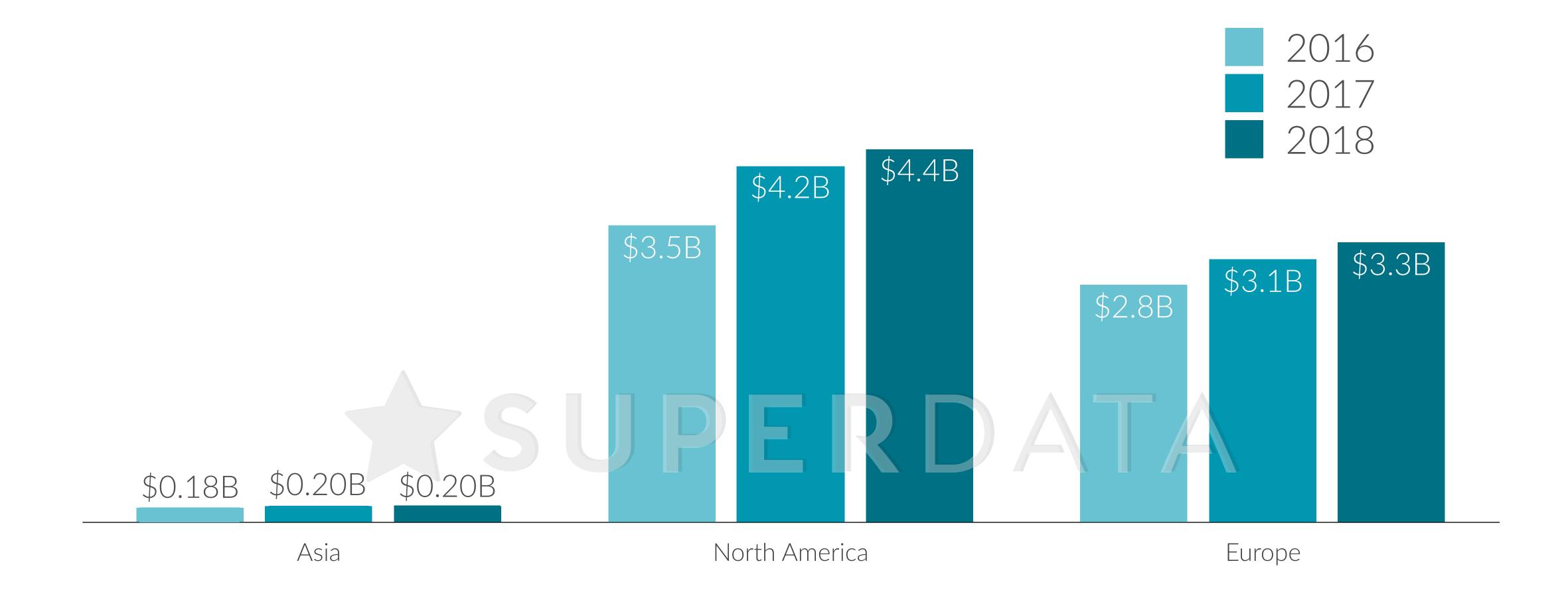
With \$714M in revenue, *PUBG* rekindled player interest in the battle royale genre.

In just eight months after its March release, *PUBG* overtook recurrent heavyweights *Overwatch* and *Counter-Strike*: *Global Offensive* to claim the number one spot. The title's unexpected popularity made the battle royale genre the third largest in revenue behind action-adventure and shooter games.

Single-player games can still break the top 10 on PC. Although online shooters generated the brunt of the \$6.2B premium PC revenue, *Divinity: Original Sin 2* proves there is still a robust audience for story-driven games.



Console market and forecast by region





Big-name shooters contributed over \$3B to the console market

Top digital console games by revenue, 2017

Rank	Title	Genre	Publisher	Revenue
1	Grand Theft Auto V	Action-adventure	Rockstar Games	\$521M
2	Call of Duty: WWII	Shooter	Activision Blizzard	\$502M
3	FIFA 17	Sports	EA Sports	\$409M
4	Destiny 2	Shooter	Activision Blizzard	\$329M
5	FIFA 18	Sports	EA Sports	\$324M
6	Battlefield 1	Shooter	Electronic Arts	\$301M
7	Call of Duty: Black Ops III	Shooter	Activision Blizzard	\$248M
8	Tom Clancy's Ghost Recon: Wildlands	Shooter	Ubisoft	\$221M
9	Call of Duty: Infinite Warfare	Shooter	Activision Blizzard	\$201M
10	Tom Clancy's Rainbox Six: Siege	Shooter	Ubisoft	\$172M

New releases like *Call of Duty: WWII* and *Destiny 2* helped boost console revenue by 15% to \$8.3B. While older titles like *Grand Theft Auto V* and *FIFA 17* continue to top the charts, the addition of new first-person shooters generated over \$3B in sales, a 6% increase compared to 2016.

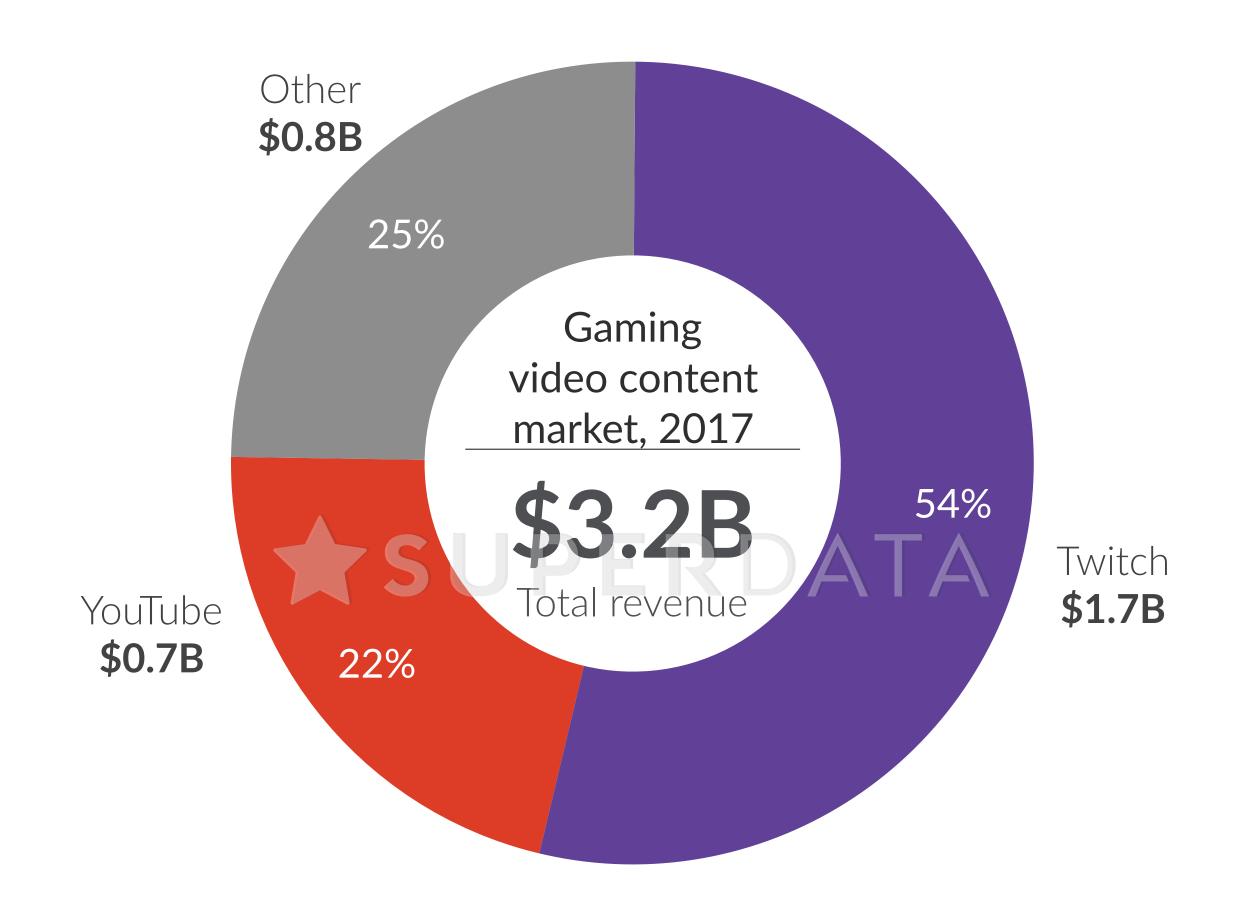
The Nintendo Switch gives indie developers access to a new audience.

Having sold 13.5M in its first year, the Nintendo Switch is a prime target for indie titles looking to break into the mainstream. Currently, 25 of the top 30 most downloaded titles come from indie developers, and that number is expected to rise as more titles are ported over.



ACLOSER LOOK AT INTERACTIVE MEDIA IN 2017

Twitch captures 54% of all gaming video content (GVC) revenue by attracting a high-spending audience



Despite having half the GVC audience of YouTube, Twitch's audience is more engaged and willing to spend on their favorite broadcasters.

Users on Twitch often support their favorite content creators directly through subscriptions and donations, which accounted for 51% of GVC revenue on the platform. In comparison, direct spending accounted for only 20% of YouTube's GVC earnings, with the rest coming from advertising (69%) and sponsorships (11%).

YouTube's GVC revenue plummeted by 50% year-over-year after struggling with problematic content and monetization.

Controversies surrounding uncensored, offensive content scared off advertisers. YouTube responded by implementing an algorithm that incorrectly demonetized unoffending videos. This in turn led to heavy backlash from its user base. Due to its poor handling of public relations, YouTube became a much less attractive destination for advertisers and GVC content creators.



Gaming is the second most popular content category on YouTube

YouTube Gaming has 77M subscribers, second only to YouTube Music.

YouTube's 'best of' channels feature popular and up and coming content from major content categories. YouTube Gaming's subscriber count beats out YouTube Sports' 75M and YouTube Movies' 56M. Individually, PewDiePie has more subscribers than the top two music channels on YouTube, JustinBieberVEVO and RihannaVEVO, combined.

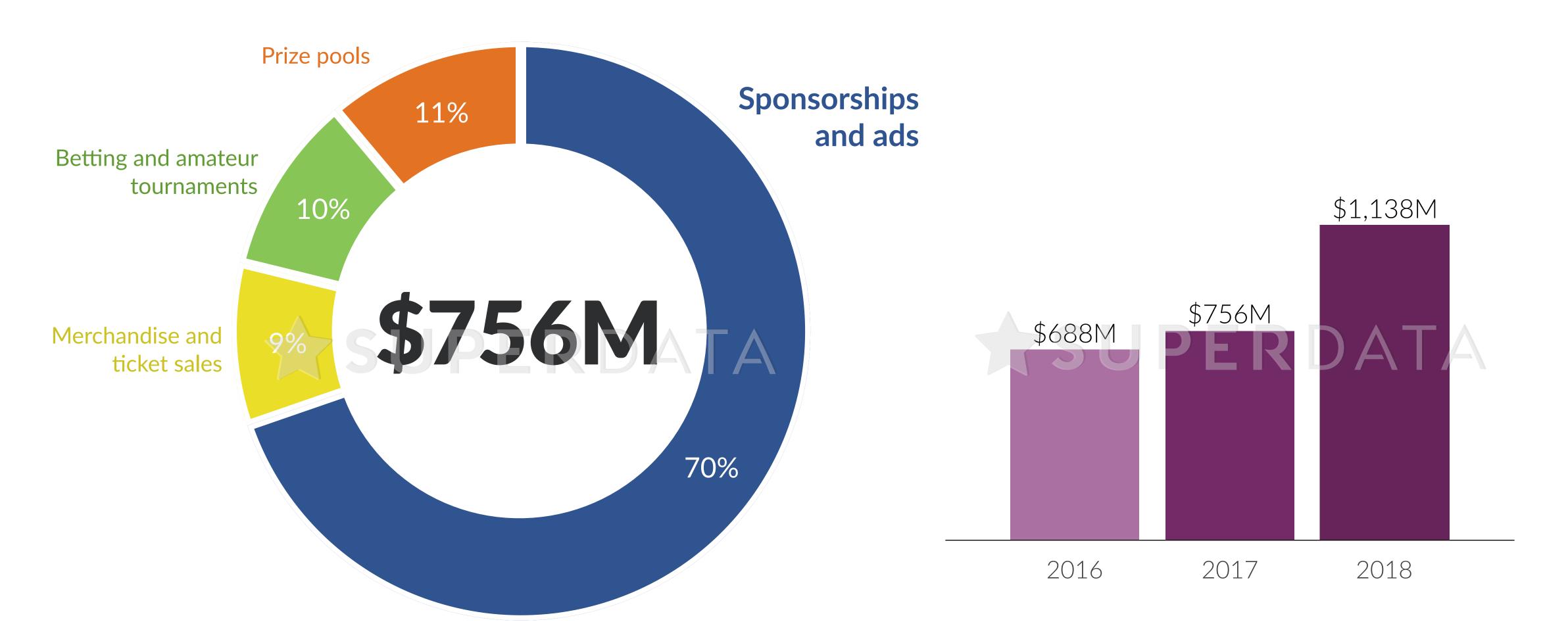
Top YouTube channels capitalize on virality to continually attract new and repeat viewers.

The most popular YouTube personalities are known for their over-the-top reactions rather than their gaming skills. They play a diverse selection of games, choosing titles that are either immensely popular like *Minecraft* or have shocking or unusual content like *Getting Over It*.

Top content channels, 2017

	Channel S	ubscribers		Channel	Subscribers
1	PewDiePie	60M	6	VEGETTA777	20M
	Remains the most-subscribed user on YouTube despite recent controversies			Spanish personality best known for narrating h	is Minecraft gameplay
2	elrubiusOMG	27M	7	Markiplier	19M
	The second most subscribed to Spanish-speaking YouTube personality; known for his gaming, vlog, and skit content			Eccentric personality best known for his high-e	energy "Let's Play" videos
3	Fernanfloo	26M		Jacksepticeye	17M
	Salvadoran personality known for his lively commentary and exaggerated reactions		8	Irish broadcaster who describes himself as "the commentator on YouTube"	e most consistently energetic video game
1	JuegaGerman	24M	9	DanTDM	17M
4	Chilean personality that primarily plays Roblox and Minecraft		7	British YouTube personality whose channel prin	narily focuses on Minecraft content
5	VanossGaming	24M	4.0	PopularMMOs	13M
	Canadian personality whose videos center on playing games with others in the form of humorous montages		10	Showcases various gameplay videos and mods	for Minecraft

Esports market and forecast



Popular games helped esports reach 258 million unique viewers

Top esports games by viewership, 2017

Rank	Title	Publisher	Viewers ¹
1	League of Legends	Riot Games/Tencent	157M
2	PlayerUnknown's Battlegrounds	Bluehole	102M
3	Hearthstone	Activision Blizzard	83M
4	Dota 2	Valve Corporation	65M
5	Overwatch	Activision Blizzard	63M
6	Counter-Strike: Global Offensive	Valve Corporation	43M
7	Heroes of the Storm	Activision Blizzard	15M
8	FIFA	Electronic Arts	14M
9	Call of Duty	Activision Blizzard	10M
10	StarCraft II	Activision Blizzard	9M

A diverse selection of games like FIFA 17 and PlayerUnknown's Battlegrounds helped push the player base of the top 10 esports titles to 254M monthly active users, an increase of 10% year-over-year.

Games that lead their genres in monthly active users like

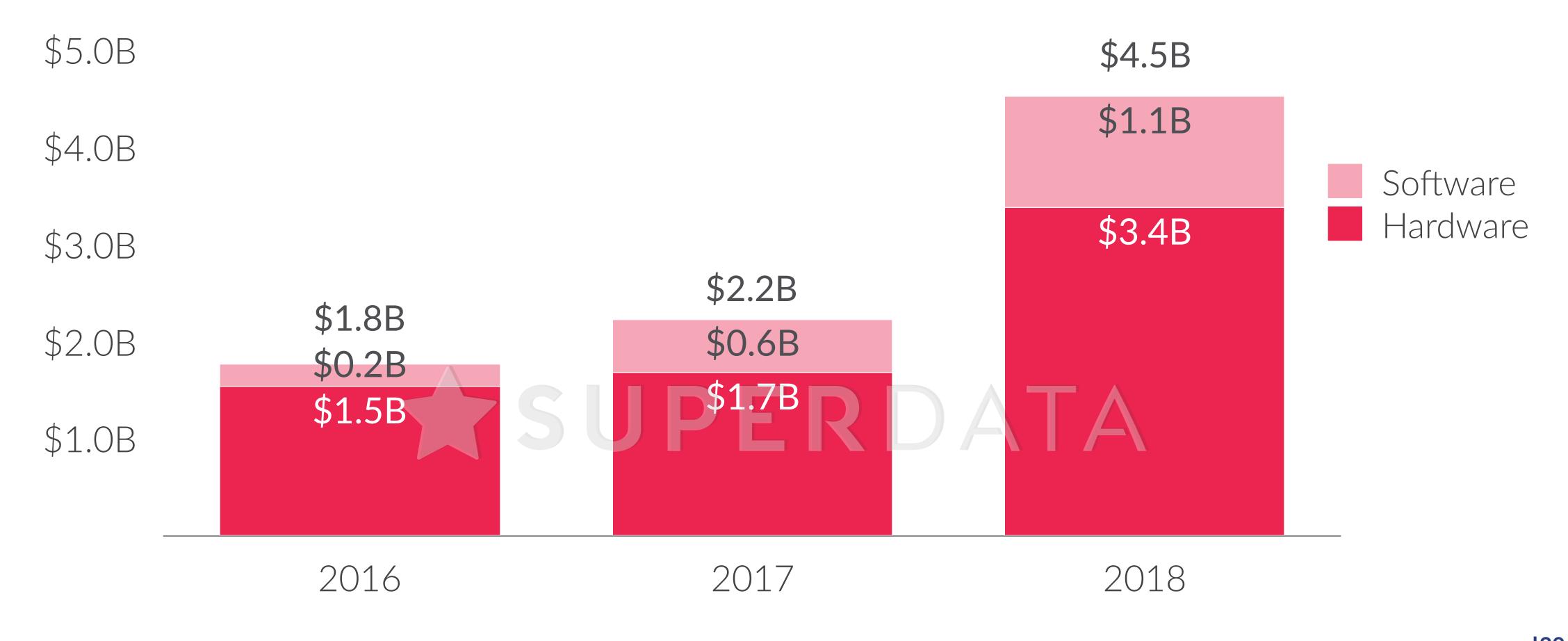
Games that lead their genres in monthly active users like League of Legends and Overwatch have an edge when it comes to growing a robust esports audience.

Overwatch established itself as the first esports franchise in the United States.

Taking a city-based approach to esports, Activision Blizzard signed franchising agreements with multiple sports and esports organizations to create the Overwatch League, which consists of 12 teams spread across eight major cities that include Los Angeles and New York.



Consumer virtual reality revenue¹





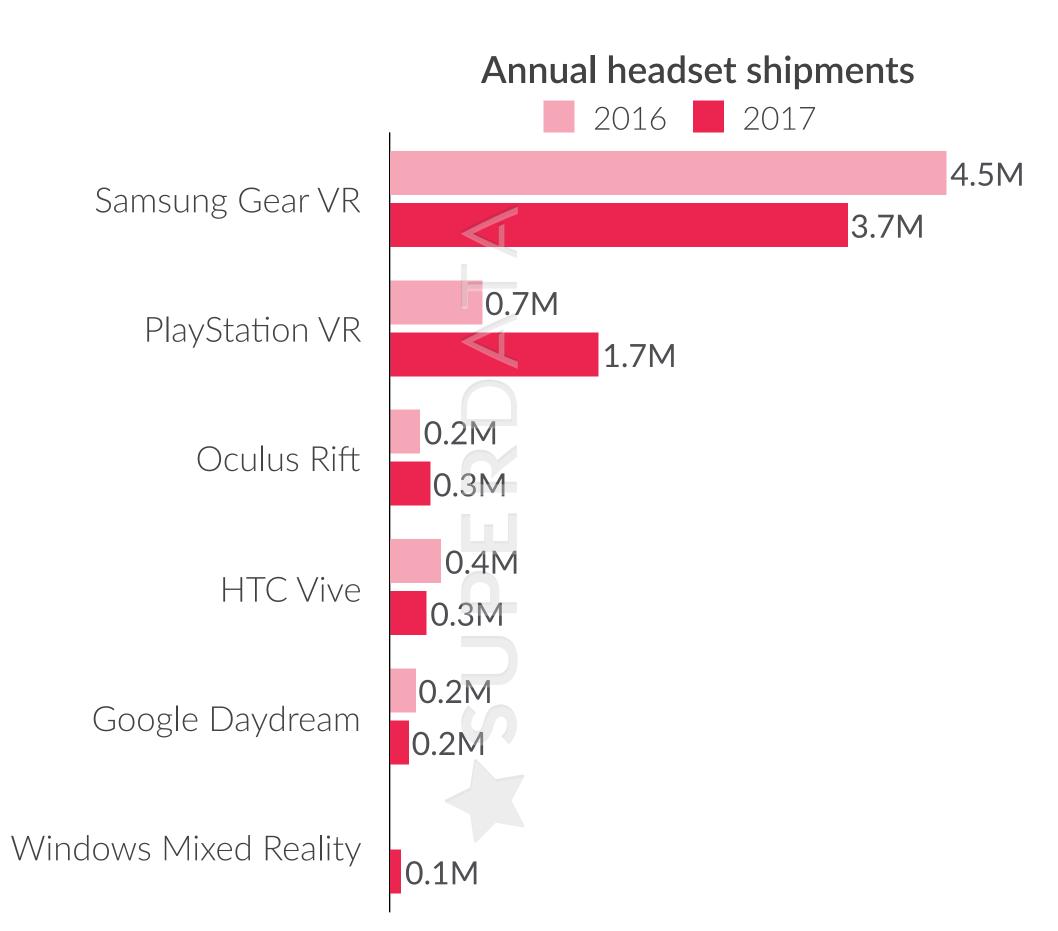
Hardware generated 75% of VR revenue but software monetization was limited to just \$554M

The second year of mass-market VR saw revenue grow by 27% after the initial hype.

As VR became a known entity, headset manufacturers relied on a mix of price cuts and compelling content to drive sales in 2017. Oculus boosted Rift shipments by 34% thanks to aggressive discounts during the year. Meanwhile, PlayStation VR gained momentum with franchises like *The Elder Scrolls* and *Resident Evil*. However, 2017 still lacked a wide variety of monetizable non-game content, which limited overall revenue.

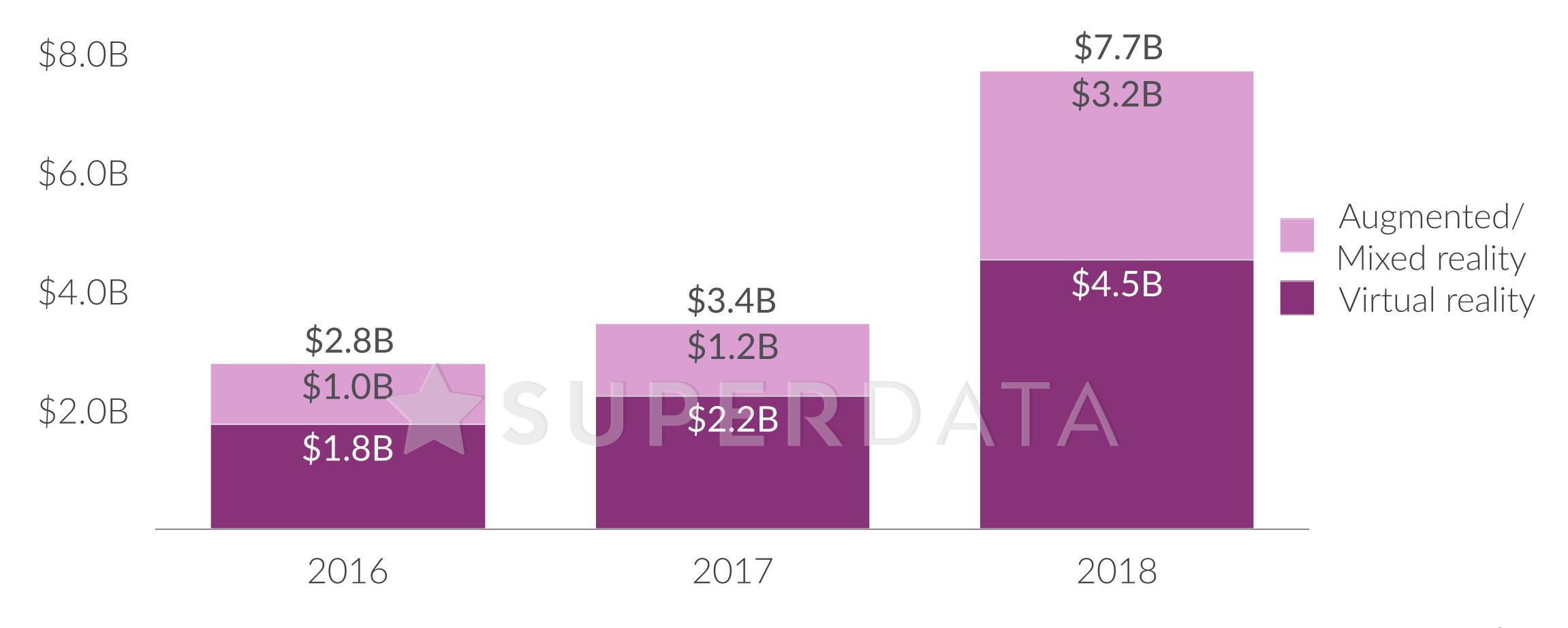
More hardware and software makers turned their focus to enterprise as they wait for consumer adoption to grow.

Immersive technology is already saving businesses money and improving efficiency in fields ranging from architecture to medicine. For example, carmakers like GM use VR to prototype car designs before investing the time to build physical models. Training is the top businesses use case for VR, and 56% of enterprise customers utilize the technology for this purpose.



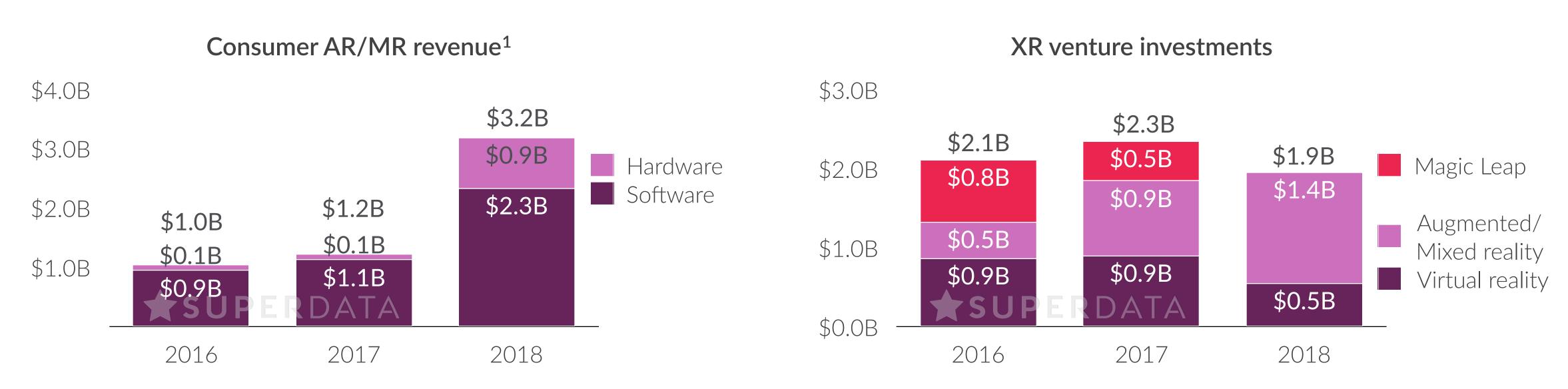


Consumer XR revenue¹





More money was invested in augmented and mixed reality than VR in 2017



The launch of Apple's ARKit SDK in September expanded the addressable audience for high-quality mobile AR to hundreds of millions of iPhone owners.

Pokémon GO earned the vast majority (84%) of augmented reality revenue for the second year since few software developers have been able to monetize in the space. But companies are still finding meaningful ways to use the technology. For example, Amazon's iPhone app lets shoppers see how virtual items will look inside real-world rooms.

Investment in augmented and mixed reality companies rose 108% year-over-year¹ as investors saw potential in mobile AR and upcoming MR headsets.

With slower VR uptake than anticipated, investors are shifting their interest and dollars to AR and MR. Startup Magic Leap has raised \$1.9B so far on the promise of its MR glasses, which were unveiled at the end of 2017.





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