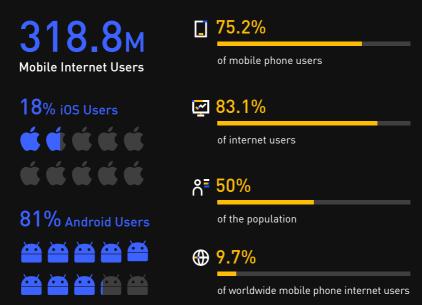


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DIGITAL ADVERTISING

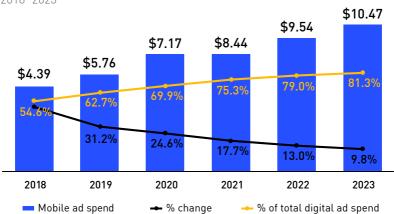
Latin America remains below the global average on the mobile Internet penetration in large part due to the limited penetration caused by the region's sheer TV influence. Nonetheless, as more customers come online, brands are beginning to utilize digital media as part of their media strategy to better connect and engage with consumers.

LATAM MOBILE INTERNET



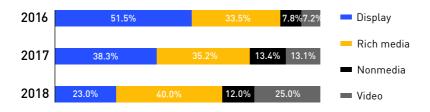
MOBILE AD SPEND IN LATAM

billions, % change and % of total digital ad spend, 2018–2023



BY FORMAT

2016-2018, % of total





We can see a rapid decline in display advertising and a shift to Video.

Includes SMS / MMS and push notifications.

BY FORMAT & COUNTRY

2016-2018, % of total

Display	Rich r	nedia	Video		■ Nonmedia
Chile					2.0%
	70.0	%		15.0 %	6 13.0%
Bolivia					
35.3	%	4	5.1%		19.6%
Brazil					
35.3	%	30.0%		25.0°	% 10.1%
Mexico					
32.9%	6	30.0%	14	.0%	22.9%
Peru					
32.0%		38.0%		11.0%	19.0%
Colombia					
25.8%	20.7	7.8%		45.7°	%
Argentina					
18.4%		45.0%	29.0%		7.4%
Guatemala					
17.3%	38.	38.0%			29.4%
Latin America					
40.	0%	23.0%		25.0%	12.0%

TOTAL MEDIA AD SPEND IN LATAM BY COUNTRY INCLUDE ALL TYPES OF MEDIA

billions, % change, 2019-2023.

	2019	2020	2021	2022	2023
TOTAL MEDI	TOTAL MEDIA AD SPENDING				
Brazil	\$14.56	\$15.25	\$15.85	\$16.45	\$16.98
Mexico	\$5.08	\$5.32	\$5.51	\$5.73	\$5.91
Argentina	\$1.21	\$1.23	\$1.25	\$1.28	\$1.31
Colombia	\$1.14	\$1.16	\$1.17	\$1.19	\$1.21
Chile	\$1.13	\$1.15	\$1.17	\$1.19	\$1.20
Peru	\$0.73	\$0.74	\$0.76	\$0.77	\$0.78
Other	\$4.89	\$5.05	\$5.19	\$5.30	\$5.41
Latin America	\$28.74	\$29.90	\$30.90	\$31.90	\$32.81

TOTAL MEDIA AD SPEND GROWTH					
Mexico	6.2%	4.7%	3.6%	4.0%	3.3%
Brazil	5.9%	4.8%	3.9%	3.8%	3.2%
Argentina	2.5%	1.0%	2.0%	2.5%	2.5%
Colombia	2.0%	1.5%	1.3%	1.6%	1.5%
Chile	1.8%	1.6%	2.0%	1.4%	1.2%
Peru	1.5%	1.5%	2.2%	1.3%	1.2%
Other	0.9%	3.4%	2.7%	2.0%	2.2%
Latin America	4.5%	4.0%	3.3%	3.2%	2.9%

Brazil is the largest ad market in Latin America, making up more than half (50.7%) of regional ad spend, followed by Mexico (17.7%) and Argentina (4.2%).



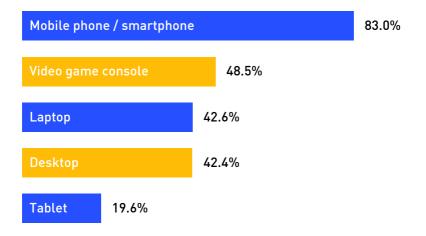
MOBILE GAMING IN LATAM

What Devices Do Video Gamers in Brazil Use to Play Video Games?

% of respondents, Feb 2019

BRAZIL RANKS TOP 5

in mobile gaming and non gaming app downloads.



TOP 5 COUNTRIES, RANKED BY MOBILE GAME VS. NONGAME APP DOWNLOADS.

billions and CAGR, 2016-2022.

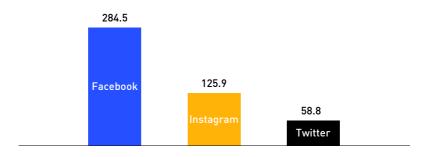
	2016	2017	2018	2022	GAGR (2017-2022)		
NONGAME /	NONGAME APPS						
1.China	37.42	54.16	68.19	85.73	9.6%		
2.India	4.88	8.33	12.45	25.83	25.4%		
3.US	7.22	6.98	6.89	6.71	-0.8%		
4.Brazil	3.42	3.64	3.89	4.78	5.6%		
5.Indonesia	2.05	2.45	2.73	4.10	10.9%		
GAMES							
1.China	15.64	25.16	29.18	33.75	6.0%		
2.India	1.64	3.74	5.65	11.38	25.0%		
3.US	4.53	4.34	4.05	3.62	-3.6%		
4.Brazil	2.30	2.64	2.89	3.60	6.5%		
5.Russia	1.71	1.94	2.18	3.04	9.4%		
TOTAL							
1.China	53.06	79.32	97.36	119.48	8.5%		
2.India	6.51	12.07	18.11	37.21	25.3%		
3.US	11.75	11.32	10.94	10.33	-1.8%		
4.Brazil	5.72	6.28	6.78	8.39	6.0%		
5.Indonesia	3.25	3.98	4.54	6.83	11.4%		

Note: includes smartphones and tablets via the Apple App Store, Google Play and third-party Android app stores in China; excludes re-installs and updates.

Source: App Annie, "App Annie Forecast: 2017-2022," May 2, 2018.

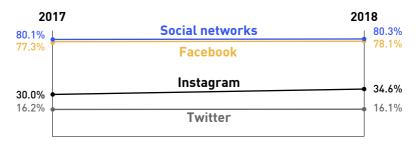
LATAM SOCIAL NETWORKS

Social Network Users in Latin America, by Platform, 2018 (millions)



Social Network User Penetration, by Platform

(% of internet users)



Facebook is the largest social network in Latin America, with an estimated 284.5 million users in 2018. Facebook growth is plateauing and will rise by low single digits over the next five years.

Instagram is on a very different trajectory. We forecast its user base to increase by 18.4% to 125.9 million this year, reaching 43.1% of social network users.

LATAM TOP 5 APPS BY MARKET (BY DOWNLOAD)

November 2019, Source: AppAnnie.

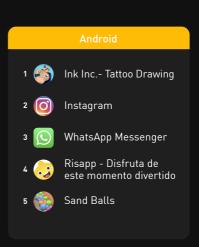
BRAZIL

1 Mercado Pago 2 a Americanas 3 Magazine Luiza: Black Friday 4 WhatsApp Messenger 5 iFood: Ofertas de Black Friday



ARGENTINA

	IOS				
1 🥞	Ink Inc Tattoo Drawing				
2	MAS OSDE				
3	WhatsApp Messenger				
4 🧿	Instagram				
5	Mercado Pago				



LATAM TOP 5 APPS BY MARKET (BY DOWNLOAD)

November 2019, Source: AppAnnie.

COLOMBIA

105 WhatsApp Messenger WhatsApp Messenger Instagram Facebook Lite Stump Me! - Can you Facebook pass it? YouTube: Watch, Listen, Messenger - Text and Video Chat for Free Stream Beat - Ride app Beat - Ride app

MEXICO	
IOS	Android
1 NhatsApp Messenger	1 WhatsApp Messenger
2 YouTube: Watch, Listen, Stream	2 🚳 Ink Inc Tattoo Drawing
3 Facebook	3 Facebook
4 Messenger - Text and Video Chat for Free	4 Messenger - Text and Video Chat for Free
5 S Ink Inc Tattoo Drawing	5 Sand Balls

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