

Behind The Great Wall

A Deep dive into the Chinese Mobile Gaming Market

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Mobile Games

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China's largest data service provider for Mobile Gaming



App Analytics

Analytics for mobile games

Mobile Ad Tracking

Market Intelligence

BIG DATA + MOBILE INTERNET





By the end of 2013,

Accessing 400m+ Smart Devices Serving 5000+ Mobile Games







By the end of 2013,

Over 40% top grossing chart of Appstore Around 80%+ Midcore & Hardcore mobile games.























































🆀 TalkingData

1Market Stats in 2013Total • Gamers • Spending • Devices • Re

Total • Gamers • Spending • Devices • Revenues



• In 2013, China has become the largest market of mobile gaming.

Total volume of smartphone users continued to rise in each quarter, doubling every six months. Transitory mobile gamers (people who have played any kind of mobile games) grew in numbers, and the growth rate is **1.5** times that of the industry.





• The most of growth come from low-end android devices

In 2013, the ratio of Android and iOS distribution widened from 6:4 to 7:3.





Data sources: TalkingData Data Center

• The market of smartphones become more fragmented

Market share of domestic brands of Android device reached nearly **2/3**; And Total share of Top 10 brands is decreasing; Makes the device market more **FRAGMENTED**

Rank	Company	Share% -2014.1	6month before		1000/			
1	Samsung	28.67%	37.69%	-9.01%	100% -	45%	61%	
2	Xiaomi	9.37%	5.34%	4.04%	80% -			
3	OPPO	4.57%	2.38%	2.19%				
4	HTC	3.87%	4.83%	-0.96%	60% -			
5	ВВК	3.78%	1.82%	1.96%	40% -			
6	YuLong	3.27%	2.93%	0.34%				
7	LENOVO	2.00%	3.47%	-1.48%	20% -			
8	SONY	1.86%	2.68%	-0.82%	0%			
9	HUAWEI	1.86%	3.59%	-1.73%	070	2013-7	2014-1	
10	GIONEE	1.61%			Glob	oal Brands	Local Brands	
	TOP 10 Total	60.86%	66.49%	-5.63%				



Top Android device in China

2.	Samsung GT-I9300	¥1750-2480
2.14	Samsung GT-N7100	¥ 2300-4699
1.69%	Xiaomi MI 2S	¥1299-1899
1.45%	Samsung GT-I9500	¥2800-3600
1.12%	Xiaomi MI 2	¥1949-2599
0.97%	Samsung GT-I9100	¥1350
0.96%	Xiaomi MI 2SC	¥1299-1899
0.92%	Xiaomi MI 3	¥1999
0.90%	Xiaomi 1S	¥1099
0.89%	Xiaomi 红米	¥ 799
0.81%	Xiaomi MI 2A	¥1499
0.66%	ZTE U880E	¥ 390
0.60%	Samsung GT-S7562	¥750
0.58%	HUAWEI C8815	¥800
0.56%	Xiaomi MI-ONE Plus	¥1299
1% 2%	0%	

• No single model exceeds 3% market share in 2013; While Samsung had 4 models exceeding **5%** in 2012

2.33%

3%

- Fragmented by too many options that enjoy very close market share
- High-end (> ¥ 2000) is still the first choice for the majority; While low-end(<¥1000)'s demand started increasing
- Xiaomi(8 in Top 15) Vs Samsung(5 in Top 15), **local competency** is getting stronger in a fast pace



More and more people would like to pay for mobile games

The cumulative proportion of money spenders is **2.5** times that compared to the beginning of the year. The absolute number of money spenders has increased five times+.





2 Deep into Player Behaviors Install • Update • Gaming • Spending • Uninstall Install • Update • Gaming • Spending • Uninstall



Casual games compose of a majority of all the game installations

As of December 31, every active device has an average of **5.59** games installed. This represents **1/4** of the total number of apps per device.

54% are casual games, 24% are strategy/card games, and 22% are other types of games.





Players install new games every **3.48** days on average Prefer to install over weekends

On average, a player installs a new game every **3.48** days. **30%** of players install **6 to 10** games per month. They prefer to download new games on their day off. The period between Friday evening and Sunday accounts for half of the week's installation.



Player distribution data based on game installation receipts in December



 Proportion of installations during the week



Where do the players go to find new games to download and install?

Android gamers prefer to download games from **third-party markets** which bring 80% of the distribution volume; iOS gamers prefer to download from official sources, with 60% of the download coming from **App Store**.







Do players like to update their games? What kinds of problems do updates cause players?

After the release of a game update, **62%** of the existing players update within 2 days. After 2 days, only **9%** of players perform the update.

Almost **30%** of players never perform any updates. Games that adopt required full-package updates cause an increase to the churn rate (criteria: 7 consecutive days without playing a game) on the day of the update. Every required update causes an exodus of **4.2%** of the existing players.



Comparison between churn rate on routine days and forcing update days





• How much time do players assign to gameplay per day?

Players spend an average of **32 minutes** per day playing games.

28% of players spend **over 1 hour per day** playing games. They are considered heavy or "mid-core" gamers.





How many games do players play per day? How do they allocate their time?

82% of active gamers play a variety of games every day. However, players only play **2.4** types of games per day on average. They allocate **86%** of their time to their primary games.





• When do players like to play games?

Mid-day and **evenings** are the peak periods for gameplay. Evenings attract many 'night-owl' gamers, and an obvious trend of after-hour gameplay is towards **midnight**.



Daypart



Data sources: TalkingData Data Center

• What is player connectivity like?

74% of the players use WiFi network connections when they visit the app markets. During gameplays, only **48%** use WiFi.

Compared to the beginning of the year, the proportion of 3G use has gone down rather than up.





• Where do players spend their money?

45% of mobile gamers choose casual games as their primary games30% choose card/strategy games.





• On which types of games are players more willing to spend money?

Card Battle, **turn-based RPG**, and **MMORPG** games account for more than 70% of total mobile games' earnings.

The low development cost and high profit return nature of **cards games** is still a key point of attraction for developers. The proportion of earnings from **casual games** have increased.



Revenue By Genres



• When do players like to spend / top-up?

Spend and topping-up behavior is more evenly spread during the day, particularly for casual games. As many players play at night, the spend activity also tend to be more focused at night.



Daily Spending Times Distribution



• Which payment methods do players prefer?

The proportion of pre-pay cards and service cards are gradually dwindling. Payment via **Alipay** has become the mainstream pre-pay method.





Data sources: TalkingData Data Center

How long until a player uninstalls a game? The performance of "zombie" players in games

Approximately **80%** of players uninstall a game **2.66 days** after abandoning the game. If the player doesn't uninstall the game and doesn't log into the game, then **90%** of them become "zombie" players of the game. For at least one month, the player neither plays nor uninstalls the game. On average, each player becomes a "zombie" player for about **2** games. This accounts for approximately **2.78%** of the game applications on a single device.



Proportion of uninstallation occurring within 2.66 days of a player's abandoning a game.

Abandoning : No login for 3+ consecutive days



WeChat games are phenomenal things

Spread out Virally, retention is good.





3 Trending Forecast Operation • Genres • Market size



• Enhancing the player's LTV is the focus of 2014

Mobile game operations has shifted to mirror web game development, highlighted by the phenomenon of short usage life cycles. After **20 days** of gameplay, the player stops deriving value from a game. The average value of the single-player is about **4 RMB (less than \$1)** overall.



Industry Average LTV of Players

LTV=ARPU×LT



With their frequent payment rates and high spending amounts, RPG & card battle are expected to continue their strong performance in 2014

Single-player user experience game spend continue to do well. **RPG & Card Battle** are expected to continue their strong performance in 2014.



Main types of monthly spending rates



ARPPU of Main Types



• As a contributor to the future earnings of RPG games, iOS is still a focal point

In 2013, the RPG game earnings that focused on iOS players accounted for 57%. This is mainly due to the characteristic of iOS gamers and the higher-level device support afforded by iOS to high-quality RPG games. The number of Android players on ARPPU is about **half** that of iOS players. Although ARPPU is slightly better on other operating systems than Android, their number tends to be small, and needs to be observed in the long-term.



RPG Revenue by OSs



RPG ARPPU by OSs



• In 2014, the opportunity is up to \$3.5-4.0 billion.







TalkingData AARRR Model For Mobile Game Operation



TalkingData White Paper For Mobile Game Data Analysis





Versions Initial release : Sep 14, 2012 Second version : Nov 1, 2012

Description ★ TouchArcade.com HOT NEW GAME ★

Puzzle + Battle + Collection + EDU





É Test in App Store , without marketing





How to optimize?

Dashboards and Alerts – Why did it Happen? – Advantage - Dashboards

DAU

KPI

- Day 1 retention
- Day 7 retention
- Virtual income
- Marketing Users





Benchmark concerning recent key indicators of the mobile gaming industry





Data sources: TalkingData Data Center

Day 1 Retention

The most Important Metric between Initial release.

The first experience

WHY ? It's been relatively Low





Bad Day 1 retention, but kind of okay of Day2.

用户留存				分析粒度	E	周	月	展为	示方式 热	力图
首次使用日期	用户数	第N天后 留存用户%								
		+1	+2	+3	+4	+5	+6	+7	+8	+9
9月18日	100%	18.2%	16.1%	14.8%	13.3%	11.3%	9.3%	9.3%	8.4%	8.0%
9月19日	100%	18.1%	17.1%	13.8%	12.4%	11.4%	9.6%	7.8%	7.2%	
9月20日	100%	17.9%	17.3%	13.3%	11.0%	11.2%	7.4%	7.6%		
9月21日	100%	16.9%	15.1%	12.6%	11.2%	10.2%	8.5%			
9月22日	100%	18.2%	15.8%	12.1%	12.5%	10.5%				
9月23日	100%	18.1%	16.1%	13.1%	11.4%					
9月24日	100%	17.8%	16.9%	14.8%						
9月25日	100%	18.0%	16.5%							2
9月26日	100%	17.4%								
9月27日	100%									В







Funnel analysis to find pitfalls of game design





How to optimize?

- Move to more reliable data center
- Consider domestic and overseas server distribution
- Simplify introduction, less steps
- Embellish introduction
- Polish pet UI to make it more attractive





Day 7 Retention

Difficulty? **Operation**.

Daily awards

Know players progress

Pay attention to degree of difficulty of early levels







Data sources: TalkingData Data Center







Virtual income

Make more money.

A/B testDrill down

■Whale









How to optimize in app purchase?







What's your opinions?

Extra gems?

Bonus pets?



The result of new version is great!





Thanks

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