

Video Game Business Primer The Latest Disruption

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Design Budgeting P&I **Publishing Development Process** Social Media Forecasting Contracts and Legal Free-to-Play Strategies Live Service Strategies Starting A New Business Hiring / Firing **Funding Options** Crowd-Sourcing Analytics and Telemetry Modeling

NOT COVERING

AGENDA

YES COVERING

- 1. Brief History of the Video Game Business
- 2. How the Business Works
- 3. Current Business Models and Distribution Channels
- 4. Breakeven and Revenue Calculations
- 5. Live Services Overview

"I've built this game, now how do I make money with it?"



"Should I build THIS game?"



5

THISIS THE BUSINESS

handheld PC grinders **MOBA** freaks **MMO** addicts sh'mup advocates gamers pvp streamers card collectors bubble poppers pve narratives social match 3 mobile casual players console VR / AR / XR Indies

The History of the VIDEO GAME Business.



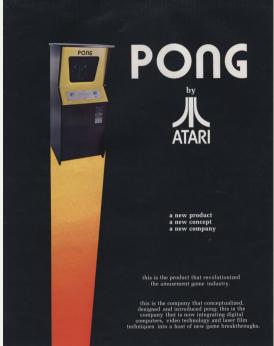
Those that fail to learn from history, are doomed to repeat it.

Winston Churchill 1874 - 1965

OTHEMADLAB.EU

It begins...



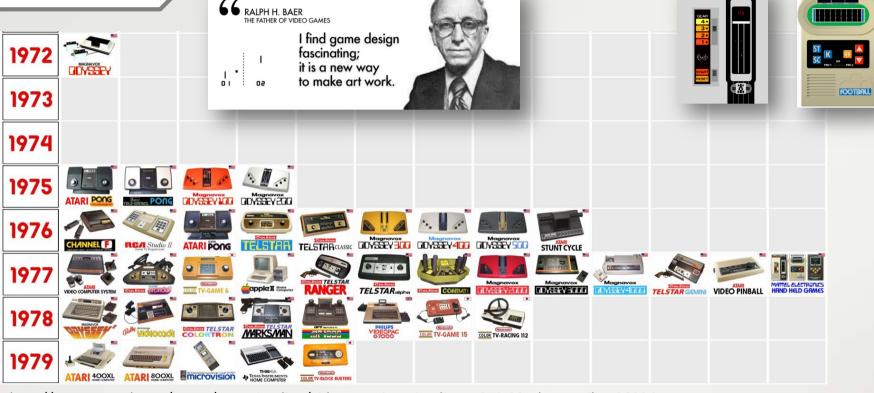


"The true entrepreneur is a doer. Not a dreamer."

Nolan Bushnell Entrepreneur Atari



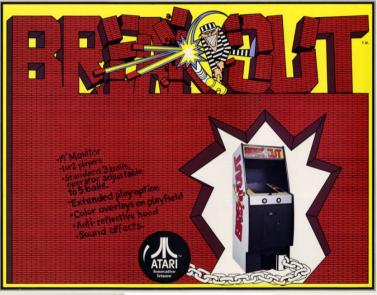




MATTEL ELECTRONICS

http://www.epocalc.net/pages/mes_timeline/video_gaming_timeline_1970-80s_by_atariboy2600.jpg







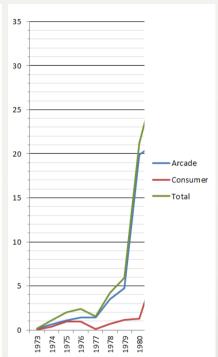
1972-79





U.S. Video Game Market Revenues (Billion US Dollars, inflation adjusted for 2012)

Year •	Video game industry revenue (nominal US dollars, without inflation) ♦	Inflation-adjusted revenue (2012 US dollars) ^[93] ♦
1973	\$40 million (US) ^[104]	\$207 million (US)
1975	\$22 million (US retail) ^[104]	\$94 million (US retail)
1976	\$242 million (US retail) ^[104]	\$977 million (US retail)
1977	\$400 million (worldwide) [32] [©]	\$1.5 billion (worldwide)
1978	\$1.8 billion (US & Japan) \$1.2 billion (US) ^[104] \$600 million (Japan arcade cabinet sales of Space Invaders) ^[30]	\$6.34 billion (Japan & US)
1979	\$1.88 billion (US) ^[104]	\$5.95 billion (US)



SOURCE: http://vgsales.wikia.com/wiki/Video game industri

First in a Series of Boring Charts...

Pay-Per-Play: Retail

Business Models

It Crashes...















https://www.usnationalvideogameteam.com/



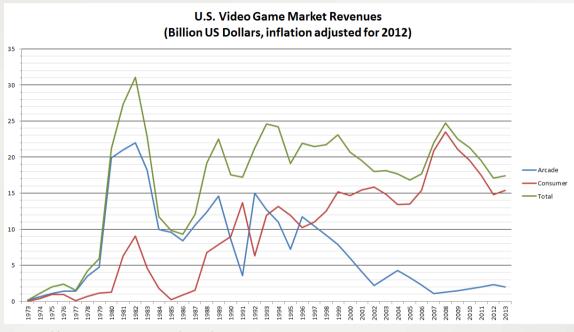






... More Boring Charts...

1980	\$7.614 billion (US) ^[104]	\$21.22 billion (US)
1981	\$20-\$35 billion (worldwide estimate)[128]	\$50-\$88 billion (worldwide estimate)
1982	\$17.73 billion (workhwide) \$15.6 billion (US) ^[104] \$1.33 billion (Japan retail) ^[30] \$800 million (EU) ^[127]	\$42.18 billion (worldwide)
1983	\$11.65 billion (US & Japan) \$9.9 billion (US) ⁽¹⁰⁴⁾ \$1.75 billion (Japan retail) ⁽²⁰⁾	\$26.86 billion (US & Japan)
1984	\$6.82 billion (US & Japan) \$5.3 billion (US) ⁽¹⁰⁴⁾ \$1.52 billion (Japan retail) ⁽³⁰⁾	\$15.07 billion (US & Japan)
1985	\$7.21 billion (US & Japan) \$4.6 billion (US) ⁽¹⁰⁴⁾ \$2.61 billion (Japan retail) ⁽³⁰⁾	\$15.38 billion (US & Japan)
1986	\$8.71 billion (US & Japan) \$4.43 billion (US) ^[104] \$4.28 billion (Japan retail) ^[30]	\$18.25 billion (US & Japan)
1987	\$4.45 billion (Japan & US retail) \$3.7 billion (Japan retail) ^[30] \$750 million (US retail) [31] ⁶	\$8.99 billion (Japan & US retail)



http://vgsales.wikia.com/wiki/Video_game_industry

Pay-Per-Play: Retail

Business Models

Hollywood and CDROMs to the Rescue! VR Part 1

Video Games Live!

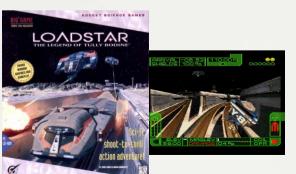












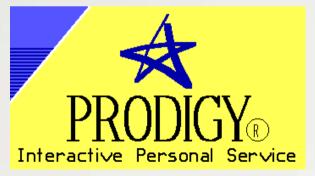




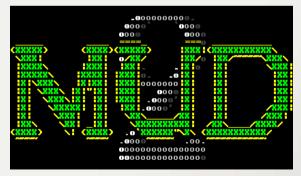


























Pay-Per-Play: Retail: Subscription: Ads: Shareware Demo

Business Models

Social and Mobile Ruin it All...

[OR]

Is Retail Dead?





...Even More Boring Charts...



Pay-Per-Play: Retail: Subscription: Ads: Shareware

Demo: IAP: Digital: Free-to-Play

Business Models

Free-to-play takes over...

[OR]

VR Part 2; of course it will work this time!?











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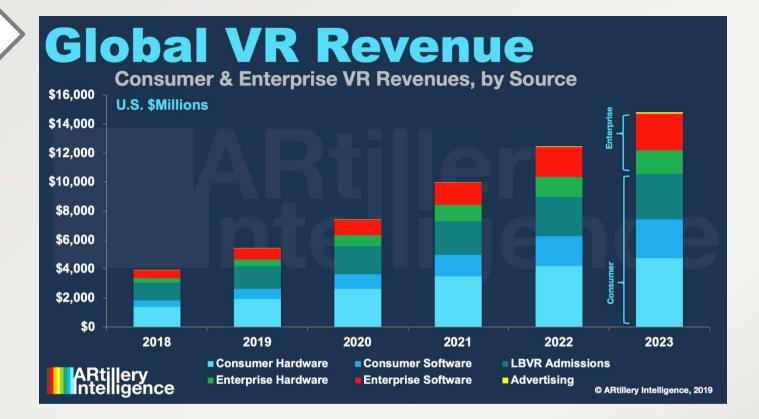








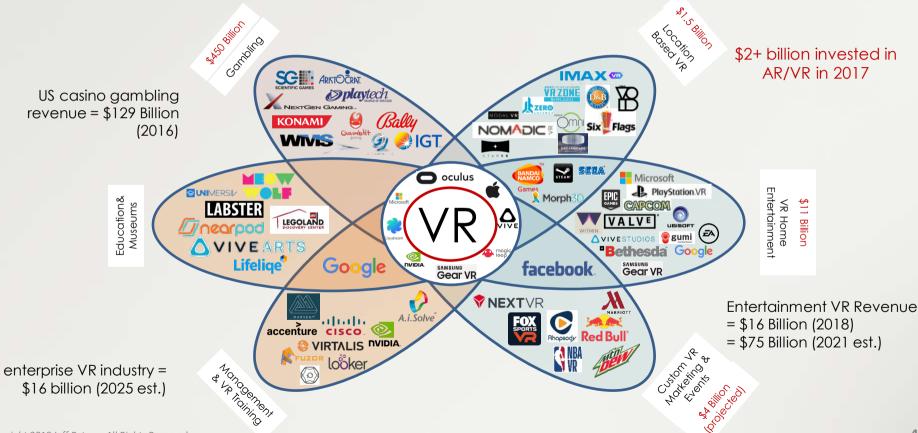




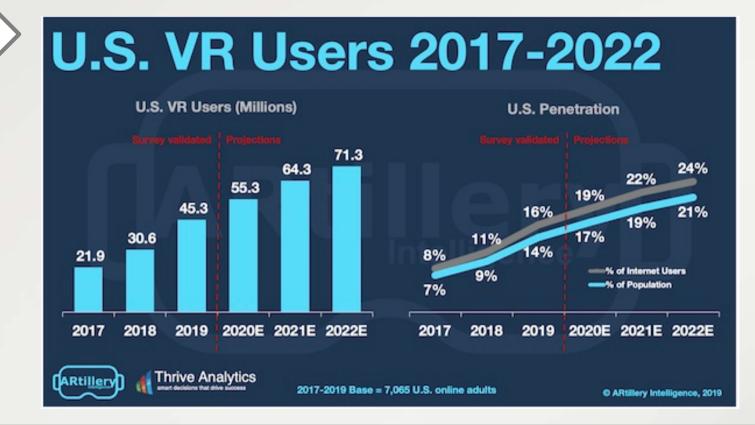
And the Data...

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VR LBE market analysis



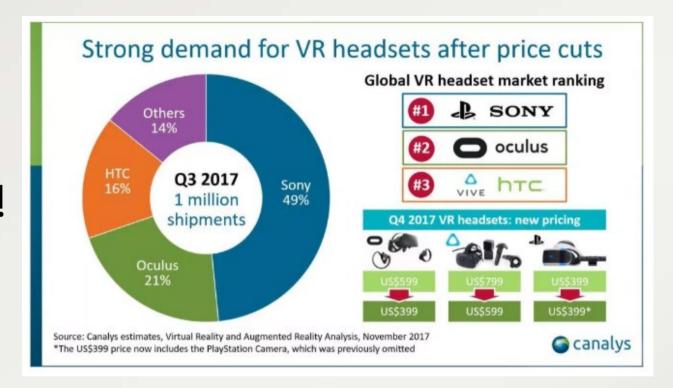
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More Data...

PSVR = 5 Mil!





https://variety.com/2017/digital/news/vr-headset-shipments-q3-1202624703/

Seriously, More Data?

NOW





























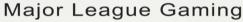
ESPORTS HOURS WATCHED ON TWITCH FOR LEAGUE OF LEGENDS, CS:GO & DOTA 2 | AUGUST 2015 - JUNE 2016 TOM BOM SOM 11-MONTH TOTAL 201.3M 263.8M 229.2M



≡ Newton 20%

Twitch Top Games by Esports & Total Viewing Hours: https://newzoo.com/insights/rankings/top-games-twitch/











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eSPORTS

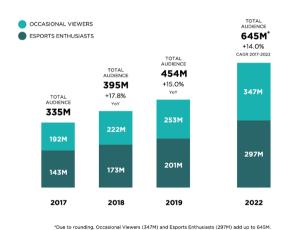
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NOW

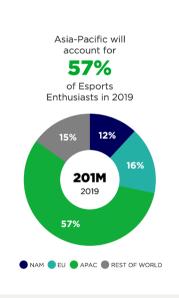


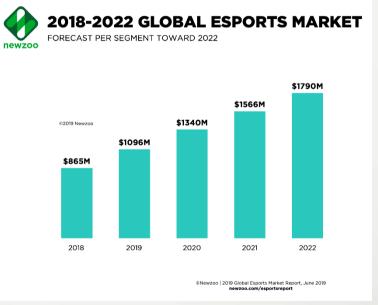
ESPORTS AUDIENCE GROWTH

GLOBAL | FOR 2017, 2018, 2019, 2022



©Newzoo | 2019 Global Esports Market Report

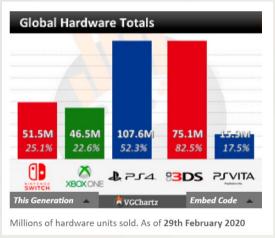




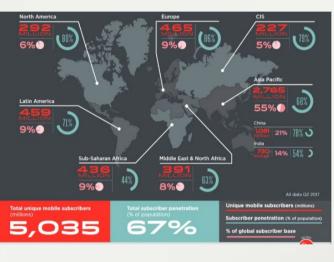


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NOW



¹⁷⁵Number of PC Gamers WW 1 500 1 315.4 1 266.9 1.215.6 1 162 1 105.2 1 040.6 E 1 000 750 250 2015 2016 2017° 2018° 2019*



Vgchartz.com - 2020*

Statistica.com-Sept. 2018**

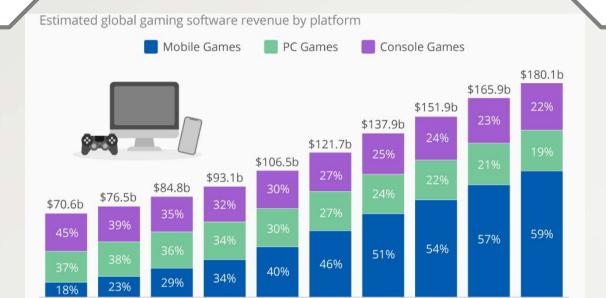
Venturebeat.com – 2017***

290+ Million (all consoles)

1.2+ Billion (PC Gamers WW)

5+ Billion (Mobile Phone Subscribers)

NOW



cc • = @StatistaCharts Source: Newzoo

statista 🗷



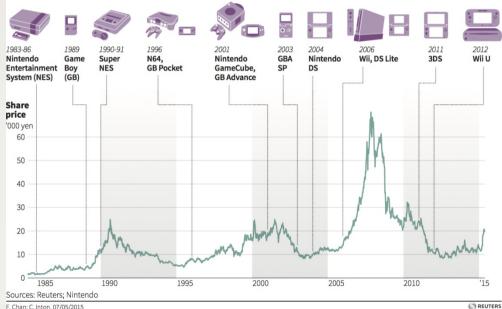
CASE STUDY

Nintendo profit forecast

Japanese videogame maker Nintendo Co Ltd on Thursday forecast annual operating profit to double in the year through March, with its entry into smartphone games widely expected to help make up for weak sales growth of its traditional consoles.

Net income In billion Japanese Yen 250 200 150 100 50 FY '05 '06 '07 '08 '09 '10 '11 '12 '13 '14 '15

GAME CONSOLE RELEASES



Playing Cards
Arcade Games
Consoles
Portables
Fitness
Licensing
Mobile
Cardboard
Amibos
???

http://blog.thomsonreuters.com/index.php/tag/video-games/

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Today...

Business Models

Pay-to-Play

Subscription

Retail

Digital

Demo

Share Ware

Premium

Ad Driven

Contract

Free-to-Play*

IAP / DLC

Whatever-you-pay

BUSINESS MODELS

VR/AR

CONSOLE

DIGITAL

MOBILE









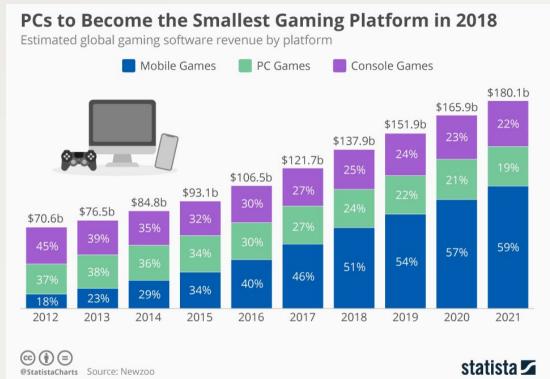
DISTRIBUTION CHANNELS





= ~250 / day*







^{*}http://www.gamasutra.com/view/news/237811/500_games_launched_per_day_on_iOS_last_year_and_other_digital_sales_facts.ph

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^{*}https://www.pcgamer.com/steam-now-has-30000-games/

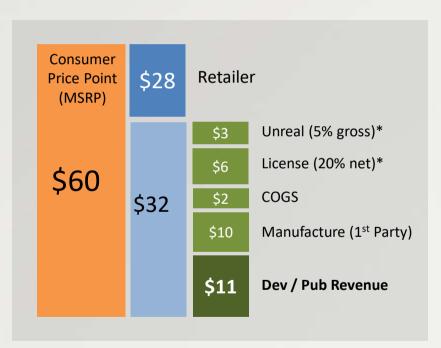
So, How Does this Work?

Simple Revenue Models

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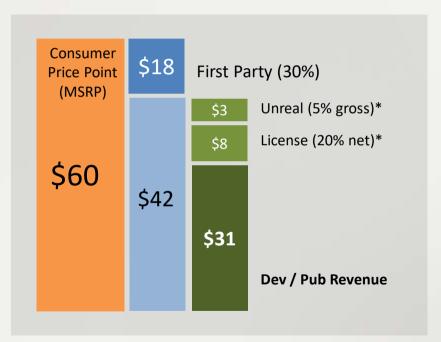
REVENUE BREAKDOWN

Retail



\$11 Revenue to Dev/Pub Per Unit Sold

Digital



\$31 Revenue to Dev/Pub Per Unit Sold

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PREMIUM

SIMPLE REVENUE MODELING

Gross Revenue?

(MSRP Revenue per Unit) X (Estimated Units Sold)

Net Revenue?

(Dev / Pub Revenue per Unit) X (Estimated Units Sold)

Breakeven?

(Total Product Costs) /
(Dev / Pub Revenue per Unit)

EXAMPLE

Product Cost Assumptions

Development Budget \$12,000,000 Marketing \$3,000,000 Public Relations (PR) \$1,500,000

Total Product Costs: \$16,500,000

Breakeven

Retail \$16,500,000 / \$11 = 1,500,000 (units) Digital \$16,500,000 / \$31 = 532,260 (units)

Revenue

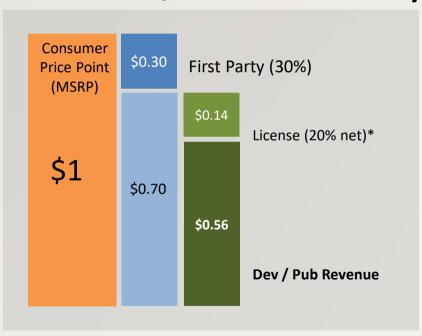
GROSS 2,000,000 x **\$60** = **\$120,000,000**

Net 2,000,000 **X \$31 = \$62,000,000** 2,000,000 **X \$11 = \$22,000,000**

FREE-TO-PLAY

REVENUE BREAKDOWN

Mobile / Free-to-Play



\$0.56 Revenue to Dev/Pub Per Dollar Spent

Key Factors:

Downloads
Daily Active Users (DAU)
Revenue Per Download
Average Revenue Per DAU
Conversion %

Averages:

Downloads = (est.)
Daily Active Users (DAU) = (est.)
Revenue Per Download = (est.)
Average Revenue Per DAU = \$0.03
Conversion % = 2%

FREE-TO-PLAY

SIMPLE REVENUE MODELING

Mobile / Free-to-Play

Gross Revenue Per Day

(ARPDAU) X (DAU)

Net Revenue Per Day

(ARPDAU) X (DAU) X (70%)

Breakeven?

(Total Product Costs) / (Revenue Per Download)

EXAMPLE

Product Cost & KPIs

Development Budget
Marketing / PR

\$1,200,000 \$2,000,000

Total Product Costs: \$3,200,000

Daily Active Users 40,000
Revenue Per Download \$0.25
ARPDAU \$0.06
Conversion % 2%

Breakeven

\$3,200,000 / \$0.25 = 12,800,000 (Downloads)

Revenue (Per Day)

GROSS

\$0.06 x 40,000 = \$2400

Net

\$0.06 X 40,000 X 70% = \$1680

Net Per Month:

\$1680 X 30 = \$50,400 Net Per Year

\$1680 X 365 = \$613,200

FREE-TO-PLAY SIMPLE REVENUE MODELING

8,000 New daily installs **Q:** So How Do I Maintain This? **Current ARPDAU** \$0.06

	Days since player launch	Retention %	# of interval days	# players in this duration bucket	
D0	0	100.0%	0	8,000	< New players that day
D1	1	35.0%	1	2800	< D1 players (i.e. players remaining since yesterday)
D3	3	25.0%	2	4400	< D2-3 players (players remaining since 2-3 days ago)
D7	7	10.0%	4	5000	< D4-7 players
D14	14	2.0%	7	3040	< D8-14 players
D29	29	5.0%	15	4320	< D15-29 players
D90*	90	0.15%	61	12372	< D29-90 players

^{*}D90 retention % is a guestimate. No data is available

Daily Average Users (DAU): 39,932 (assumes daily install rate does not change over 90 day period)

Daily Average Revenue: \$2,395.92 (assumes ARPU does not change)

LOOKING FORWARD









<u>MISC</u>

Airline Inflight

Restaurant Ordering

Streaming Services



XBOX ONE

130+ Million Users

10% 1st Party

85+ Million Users

12% 1st Party

Waive 5% Unreal Royalty 125+ Million Users

30% 1st Party

Indie Program

+\$10 Million Sales Lower 25%-20% New Subscription Service

Arcade

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ADDITIONAL REVENUE STREAMS

Post Launch Revenue Options

Retail & Digital

IAP (in app purchases)

ADs

Sponsorships

eSport Streaming/TV

Subscription

DLC

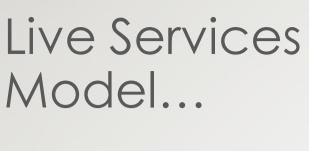
Episodes

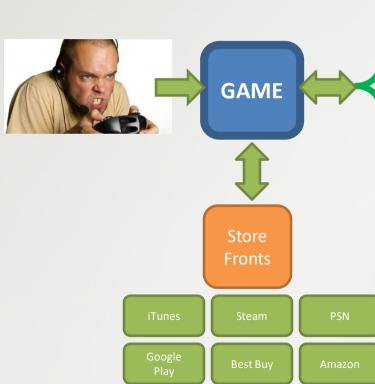
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Biggest Industry Disruption?

Biggest Industry Disruption?

LIVE Services.





Ads

accounts

Severs

Security

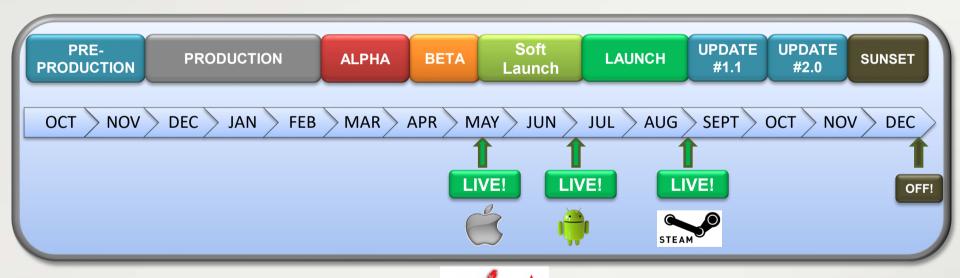
ARPU DAU **ARPPU RFTFNTION** D1, D7, D30 **ENGAGEMENT** MONFTI7ATION SESSIONS ARPD MTX IAP **Analytics**

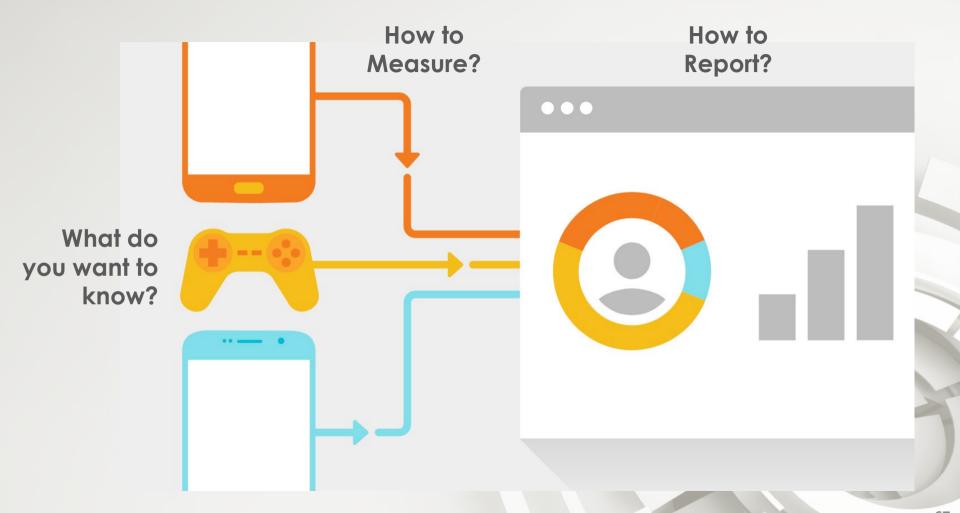


UA **CPi** eCPM **CTR** Fill Rates Funnel Onboarding **FTUE Tutorials** Compulsion Loop Telemetry Cohort

Language of Live Services

Live Services Model...





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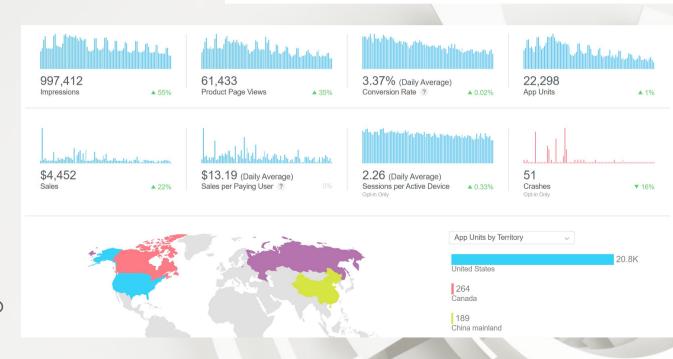
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Analytics What is it... How do I plan for it? How do I use it?

"Microtransactions have tripled the value of the game industry."*

KEY QUESTIONS:

- •What do you want to know about your game?
- •How do you quantify it?
- •How do you measure it?
- •How do you report it? (to be usable)



Game Industry History...

```
Development = Game
Game = Product
Product = Business
```

Business = \$\$

PASSION or PROFIT?







What Happened to FUN?!?!

American Psychologist says that (Feb. 2014):

"Playing video games, including violent shooter games, may boost children's learning, health and social skills."

Business Insider says that (Sept. 2014):

"Games are: "...often portrayed as antisocial, violent, and as an addictive waste of time that encourages obesity."



FOR CONSIDERATION...

Biggest Business Questions:

- •Who's going to play it?
- •Who's going to pay for it?

ALSO....

Where do they live?
When do they Game?
When do they Game?
How do I fit in their lifestyle?
How can I connect to them?
How will they know about my Game?

www.gamasutra.com

www.Gameindustry.biz

https://businessofindiegames.com

www.venturebeat.com

https://www.roadtovr.com/

http://immersioninsights.com

https://www.utahden.org/

VIDEO GAME BUSINESS REFERENCE