

VIDEO GAME SALES

ANALYSIS REPORT

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form 3'-hydroxylamobarbital [12] and
M-glucosidation [13] to form
1-(beta-D-glucopyranosyl)amobarbital [14]

When given slowly by an intravenous route, sodium amobarbital has a reputation for having activity as a so-called truth serum. A person under the influence of the drug in this circumstance will relate information that he or she would otherwise "block." As such, the drug was first employed criminally by Dr. William Bleckwenn at the University of Michigan to circumvent inhibitions in psychiatric patients [15]. It has been used to convict alleged murderers such as Fredrick English-Howard, who strangled his girlfriend to death but claimed innocence. He was surreptitiously administered the drug, by his attorney, and under the influence of it he revealed that he strangled her and under which circumstances. 15 years later he confessed on the stand that he was guilty of the murder of his girlfriend.

ADMINISTERED

REPORT OUTLINE

Dataset

Data Cleaning Process

Data Visualizations

Regression Analysis

Hypothesis



DATASET



VIDEO GAME SALES

The dataset contains a list of video games with sales greater than 100,000 copies



Sales in Millions

NA_Sales - Sales in North America

EU_Sales - Sales in Europe

JP_Sales - Sales in Japan

Other_Sales - Sales in Rest of the World

Global_Sales - Total Worldwide Sales

'Misc' Genre

diverse category that encompasses games that don't fit neatly into specific genres

'Action' Genre

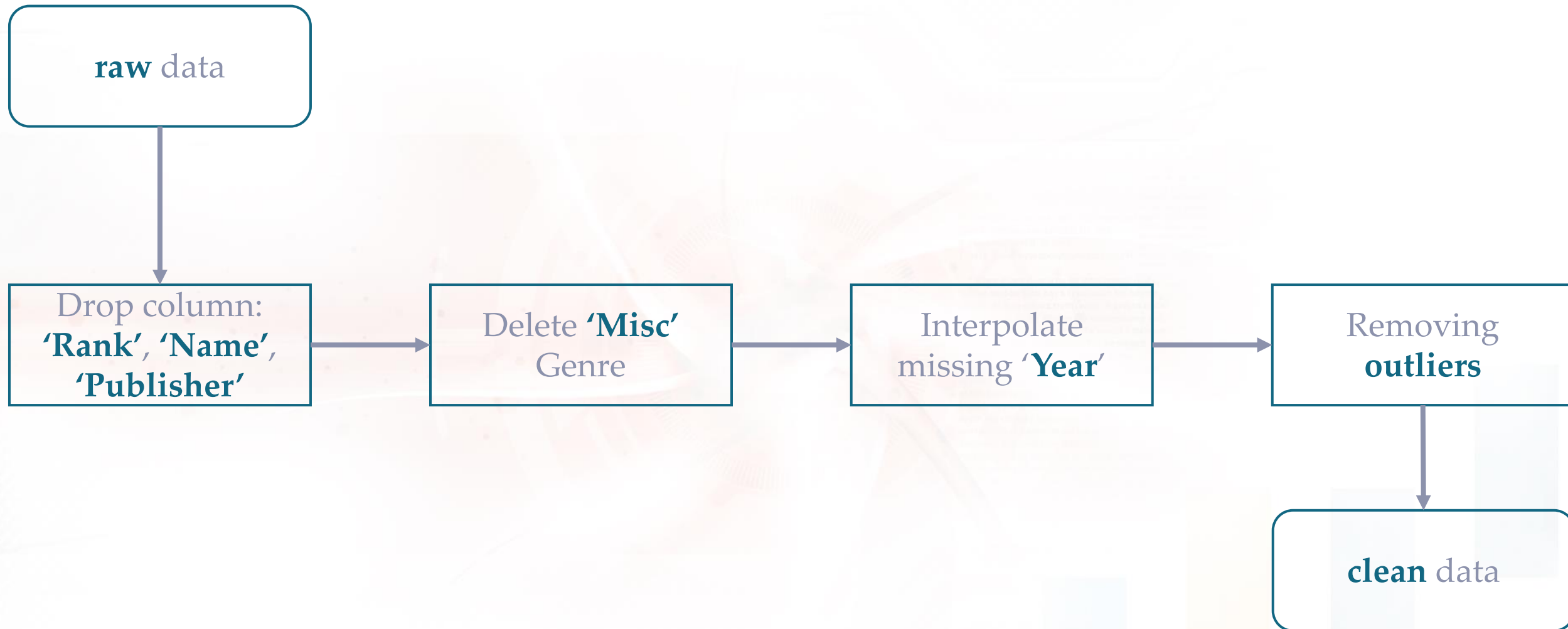
Games that emphasize physical challenges, hand-eye coordination, and reaction time.

e.g. platform, shooter, beat'em ups, and more



DATA CLEANING





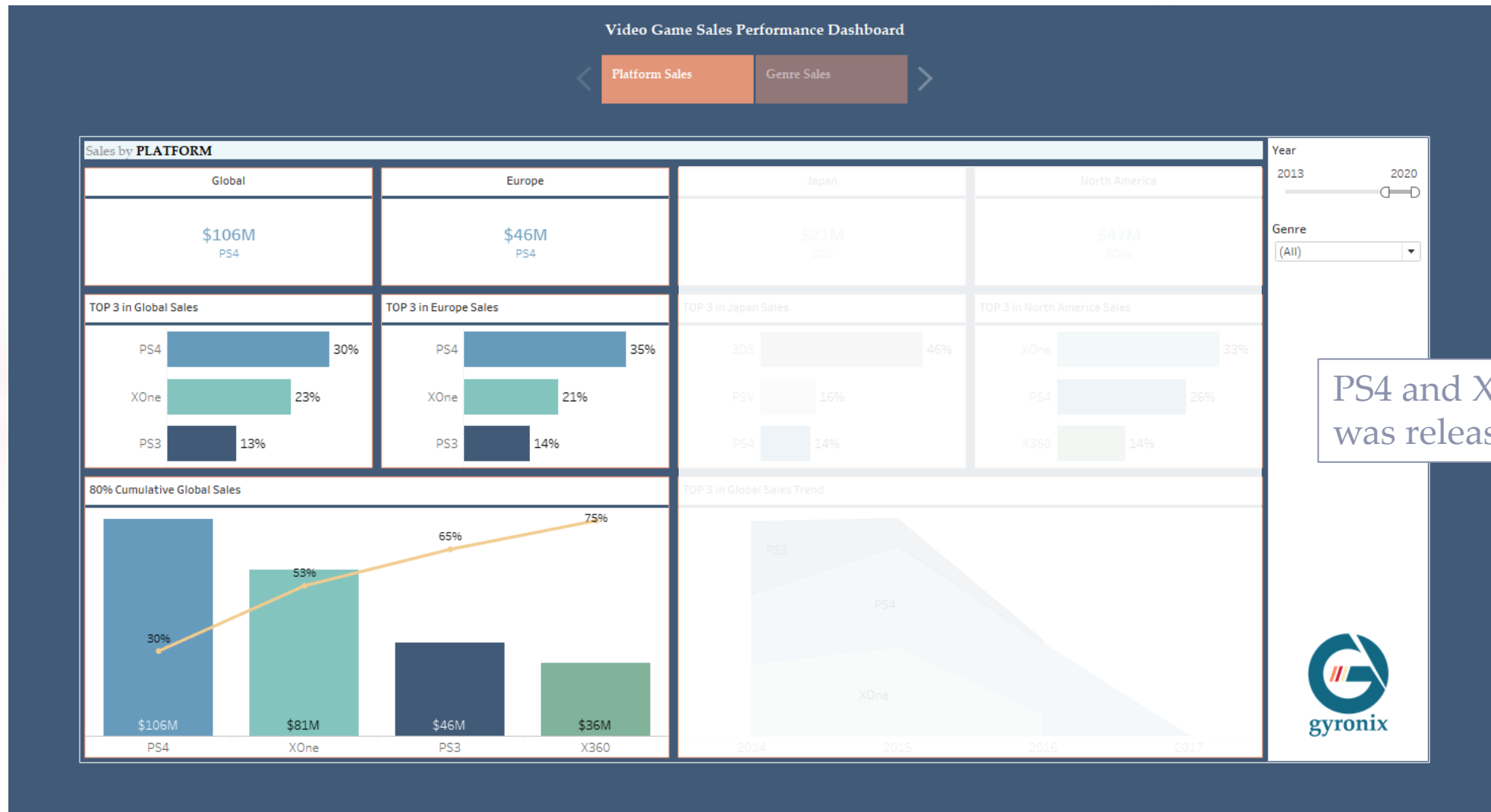
DATA VISUALIZATION



PLATFORM SALES

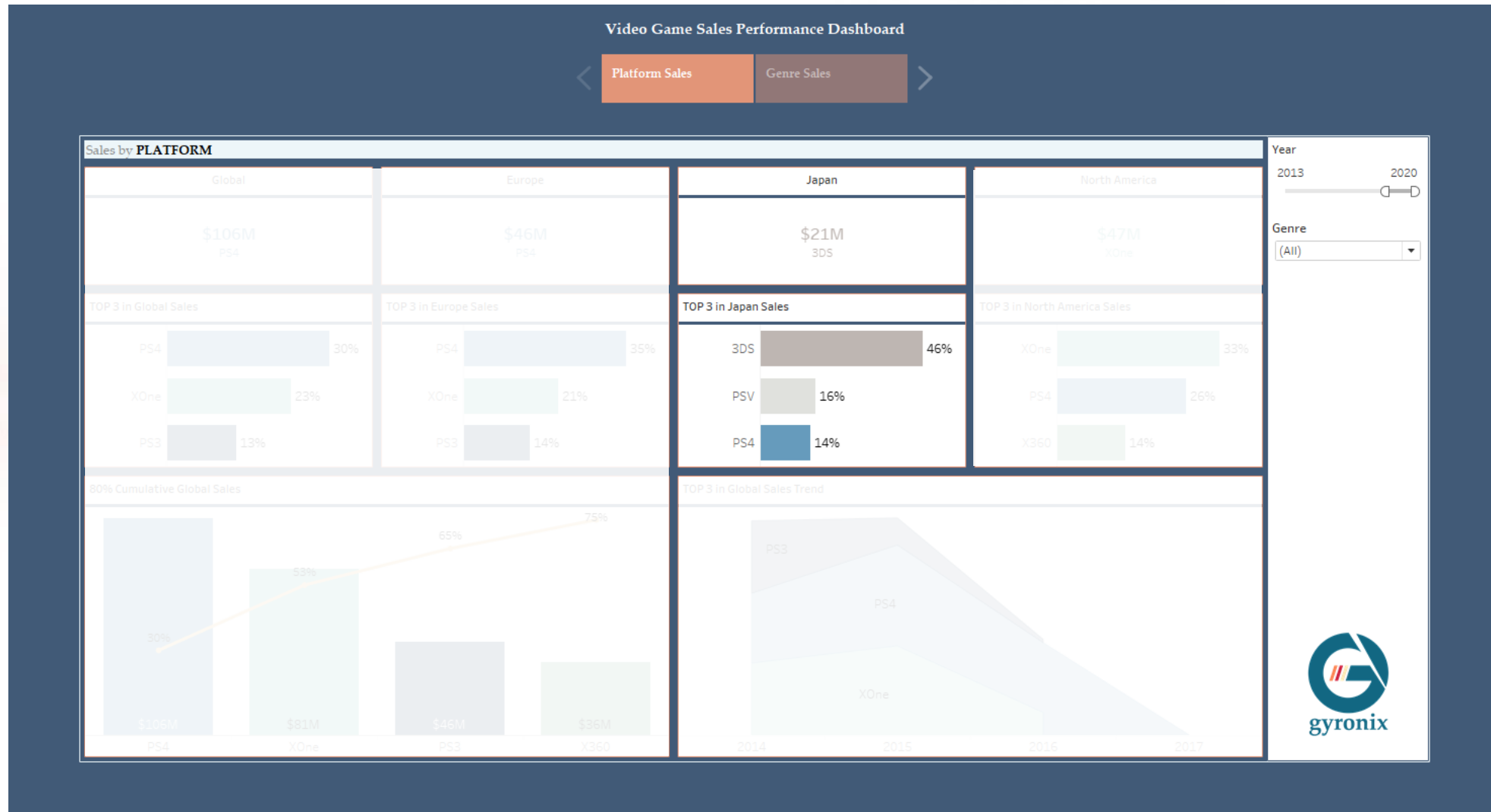


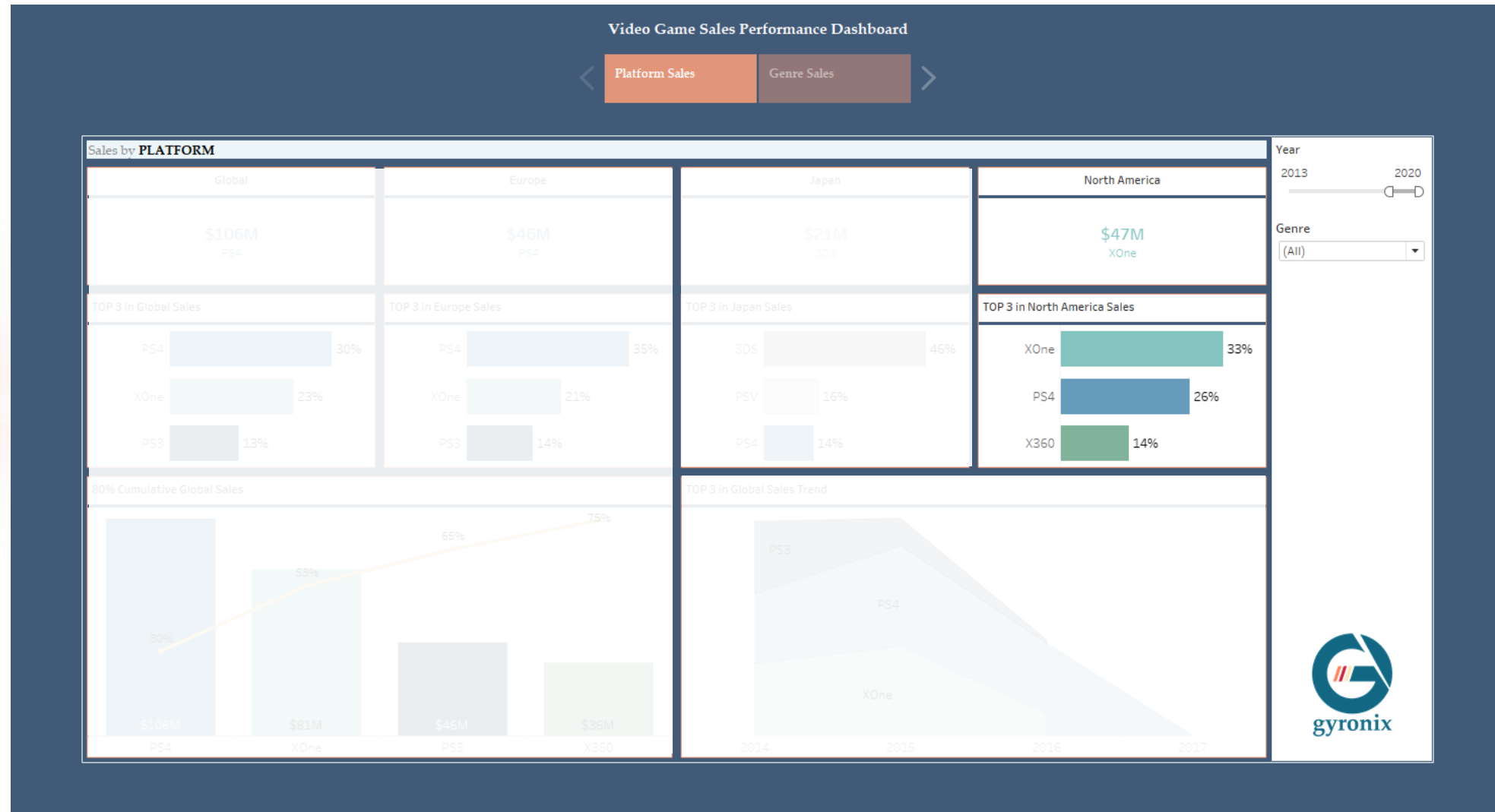
PS4 takes 30% of the Global Sales



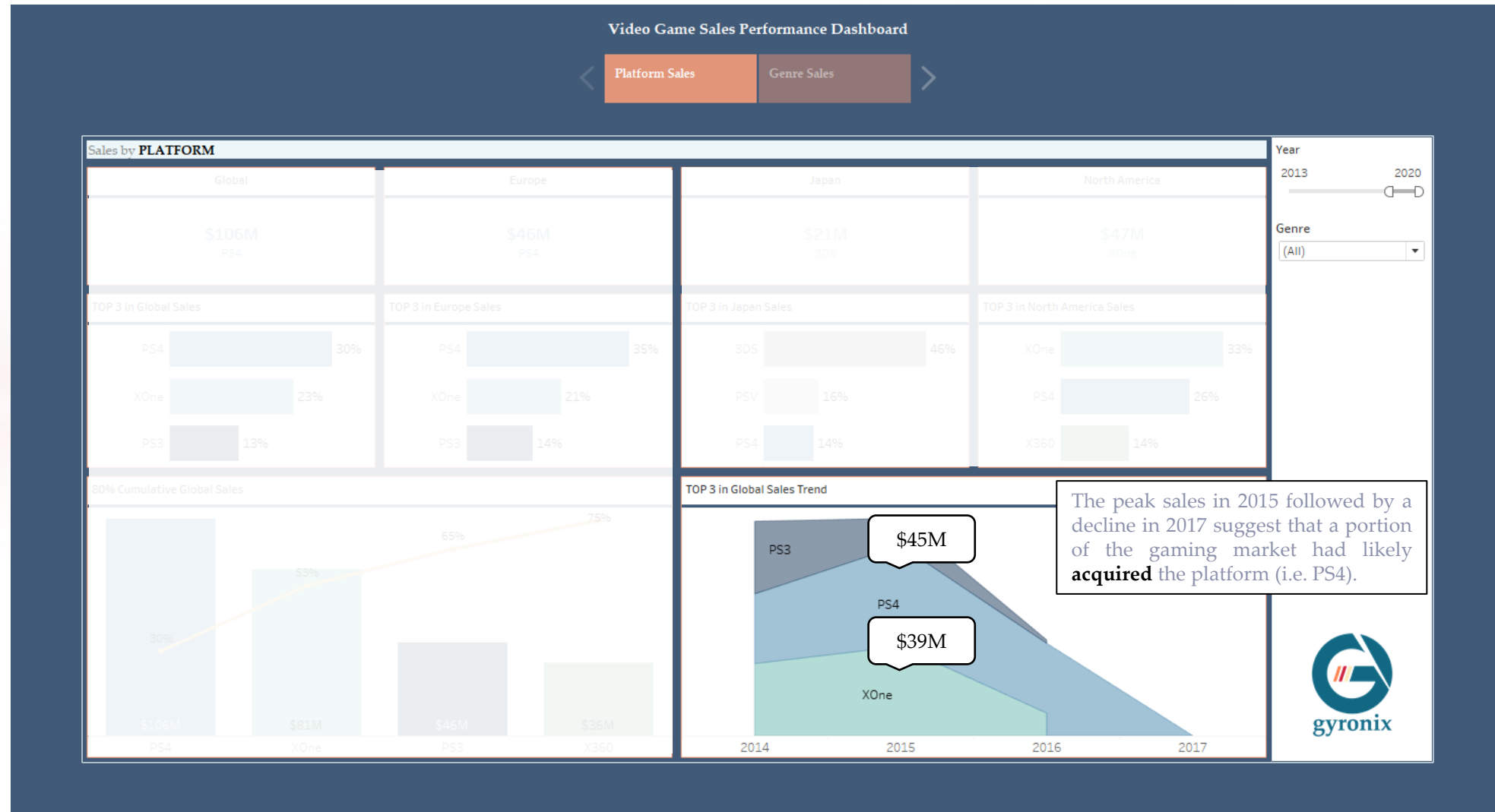
PS4 and Xbox One was released in 2013

Japanese prefer portable gaming platform: Nintendo's 3DS

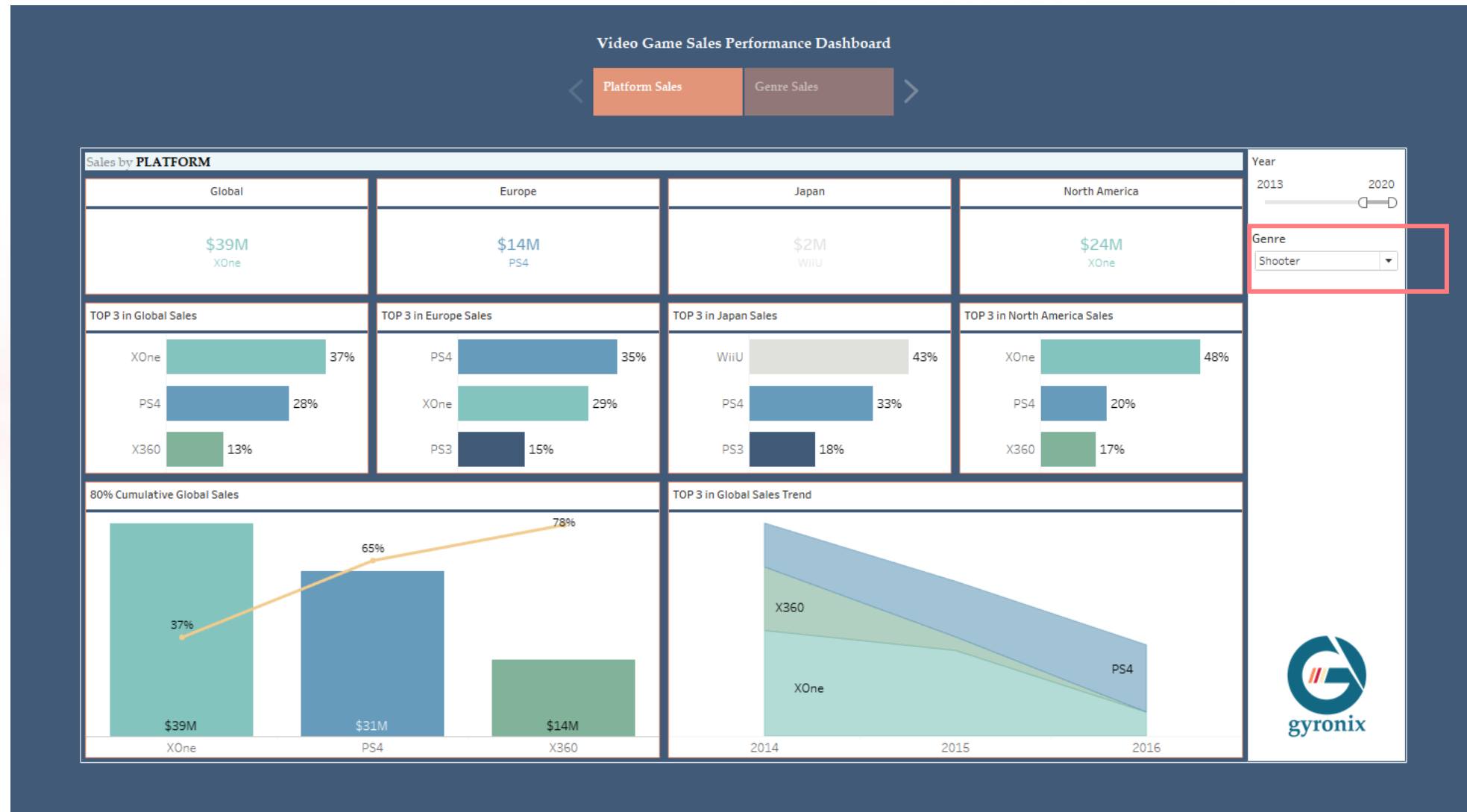




2 years after released (2015), PS4 outperformed Xbox One by \$6M



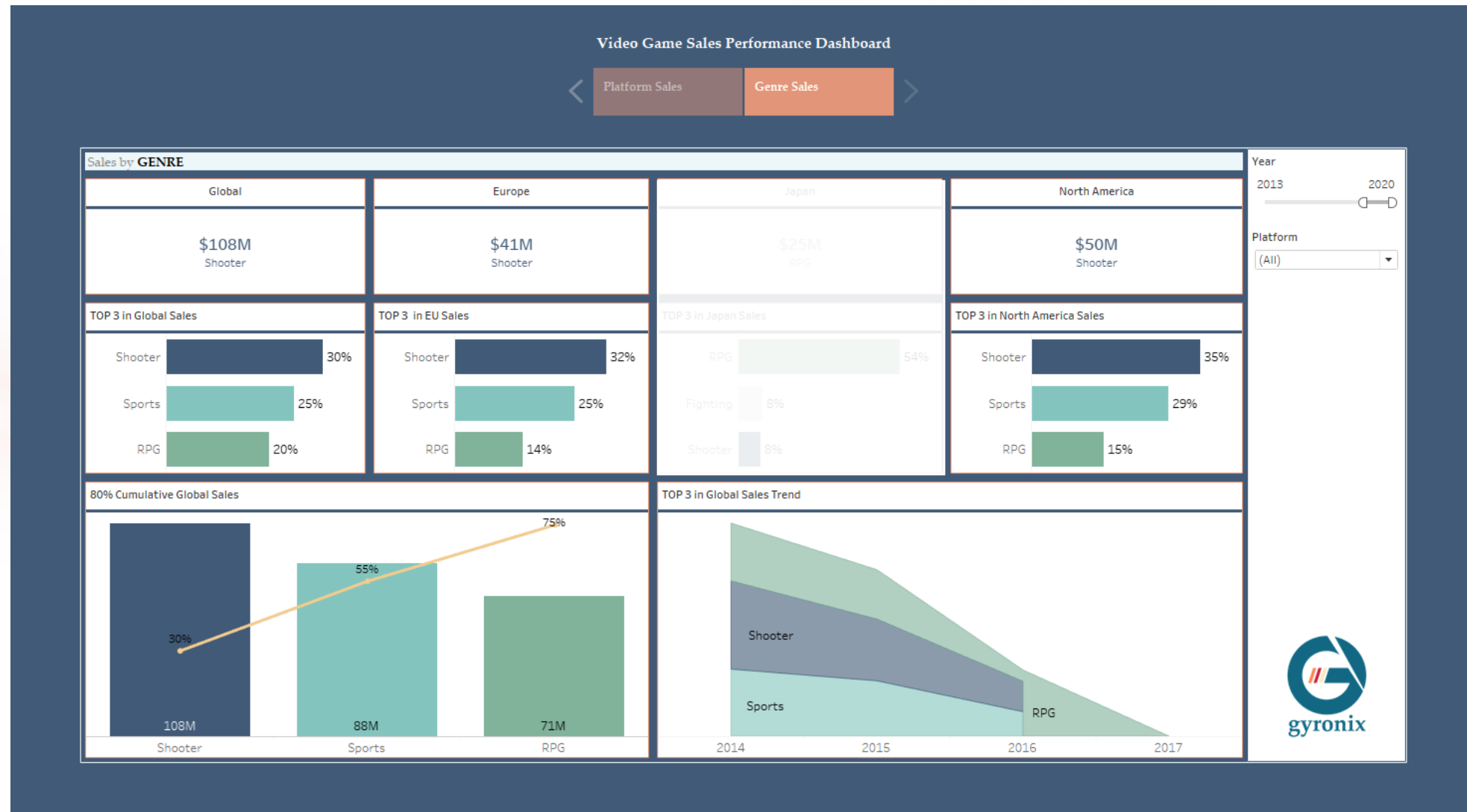
Xbox One is the preferred platform for Shooter genre

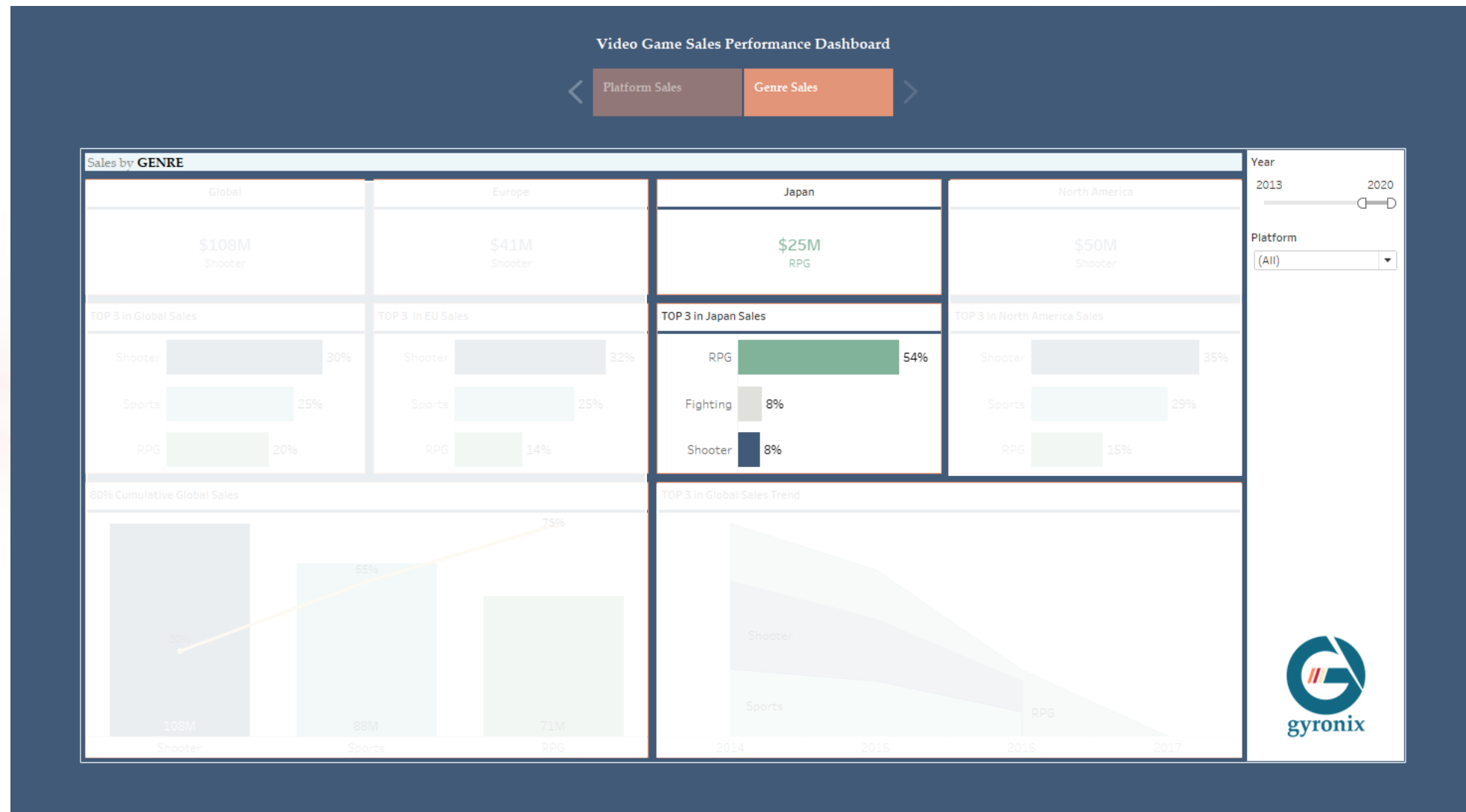


GENRE SALES

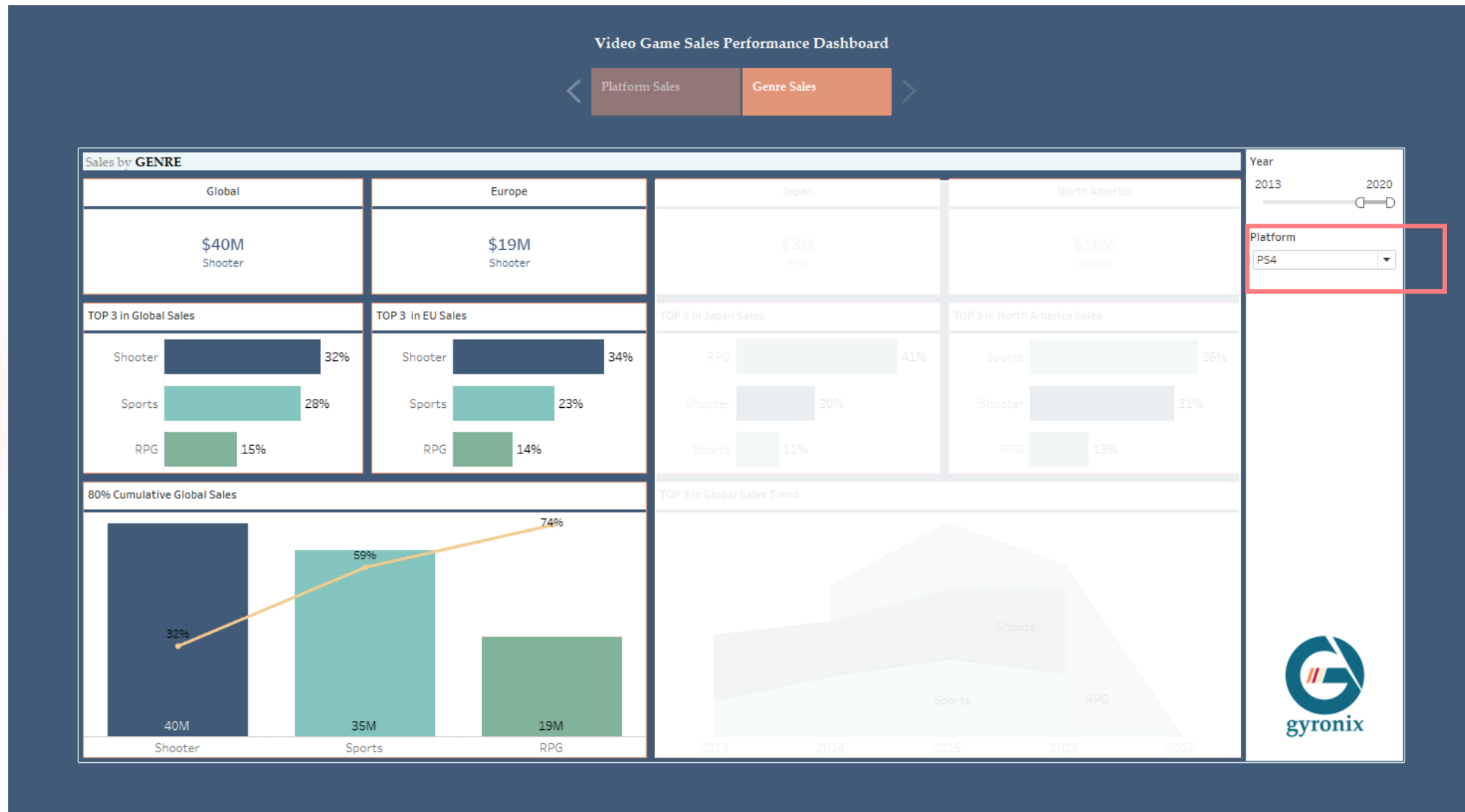


Shooter takes 30% of the Global Sales

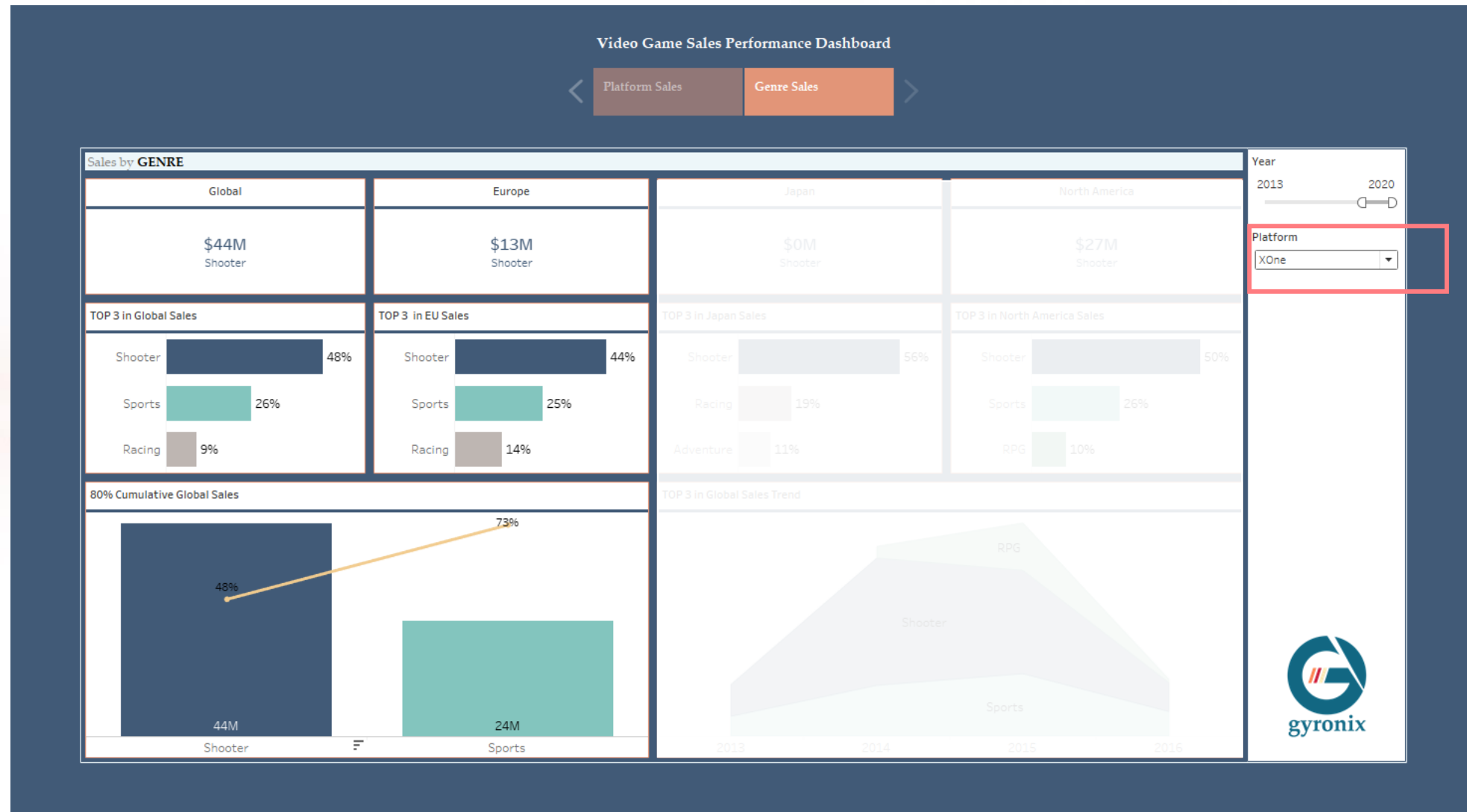




Shooter genre takes 32% of Global PS4 Sales.



Shooter genre takes 48% of Global Xbox One Sales.



REGRESSION

ANALYSIS



The regression equation predicts **25%** of the variability in the model

Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
0.537671	24.79%	23.46%	21.34%

Regression Equation

Global_Sales = 1.0751 - 0.4743 Platform_PC + 0.0 Platform_PS4 - 0.3530 Platform_PSV
- 0.6897 Genre_Adventure - 0.589 Genre_Fighting - 0.482 Genre_Racing
- 0.5752 Genre_RPG + 0.0 Genre_Shooter - 0.529 Genre_Strategy



Reference Level,

Platform: **PS4**

Genre: **Shooter**

Coefficients

Term	Coef	SE Coef	T-Value	P-Value	VIF
Constant	1.0751	0.0782	13.74	0.000	
Platform					
PC	-0.4743	0.0763	-6.21	0.000	1.44
PSV	-0.3530	0.0682	-5.18	0.000	1.59
Genre					
Adventure	-0.6897	0.0975	-7.07	0.000	2.58
Fighting	-0.589	0.125	-4.71	0.000	1.45
Racing	-0.482	0.114	-4.22	0.000	1.44
RPG	-0.5752	0.0896	-6.42	0.000	2.52
Strategy	-0.529	0.120	-4.40	0.000	1.43

HYPOTHESIS



In conclusion, for optimal video game market investment, it is advisable to consider investing in both **PS4 and Xbox One**, with additional consideration for **PC** and **PSV** based on regression analysis results. In terms of genres, **Shooter** and **Sports** games emerge as wise investments, with a potential consideration for **Fighting** games based on regression analysis outcomes. Furthermore, it's important to note the preference of the **Japanese** for **portable** platforms and **role-playing** games, while the **American** market tends to favor **Xbox One**."

