

Bay Sales Performance Analysis (2017–2020)

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Introduction

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Every successful business eventually asks the same critical questions:

Are our sales growing?

- **Where are we making money?**
- **And where are we losing momentum?**

Just like companies such as **Amazon, Decathlon, or Jumia**, Bay relies on data to understand customer behavior, product performance, and regional demand. However, raw transaction data alone cannot answer these questions. Without a clear analytical view, decision-makers risk investing in declining products, missing growth opportunities, or misinterpreting customer trends.

This analysis transforms Bay's historical sales data from **2017 to 2020** into a **clear, visual, and actionable dashboard**, enabling leadership to understand performance trends, identify key revenue drivers, and make informed strategic decisions.

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Problem Statement

Bay experienced fluctuating sales and profit performance between 2017 and 2020, but lacked a consolidated view to answer key business questions such as:

- Which years performed best and worst?
- Which product categories and customer segments drive revenue?
- Which countries contribute the most to sales?
- Are sales improving or declining over time?

Objectives

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The primary objectives of this analysis were to:

- Evaluate **overall sales, revenue, and profit performance**
- Identify **sales trends over time (monthly and yearly)**
- Determine **top-performing product categories**
- Analyze **customer segments and geographic contributions**
- Provide **data-driven recommendations** to improve revenue and profitability



Dashboard Overview

The dashboard provides a **high-level and detailed view** of Bay's sales performance from 2017 to 2020. It includes:

- Key Performance Indicators (KPIs)
- Time-based trends
- Product, segment, and geographic breakdowns
- Interactive filters for period and category selection
- This design allows decision-makers to quickly move from **summary insights to detailed analysis**.

Bay Sales Performance Analysis 2017-2020

Total No of Customers



18400

Average sales



\$486.09

Revenue



\$29M

Profit



\$12M

OrderDate

All Periods

MONTHS

2020

JUN

JUL

AUG

SEP

OCT

Category

Bike Racks

Bike Stands

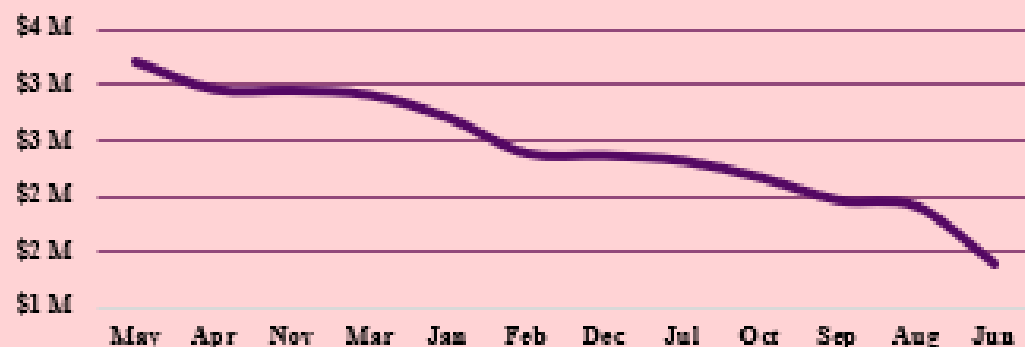
Bottles and Cages

Caps

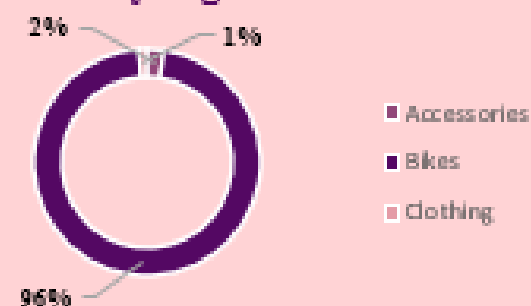
Cleaners

Fenders

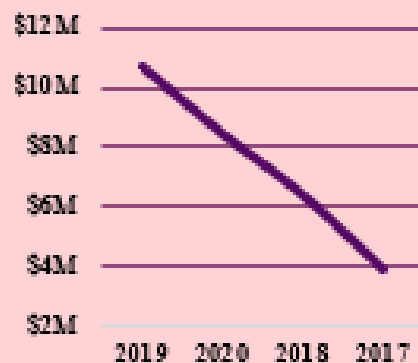
Monthly Sales Trend



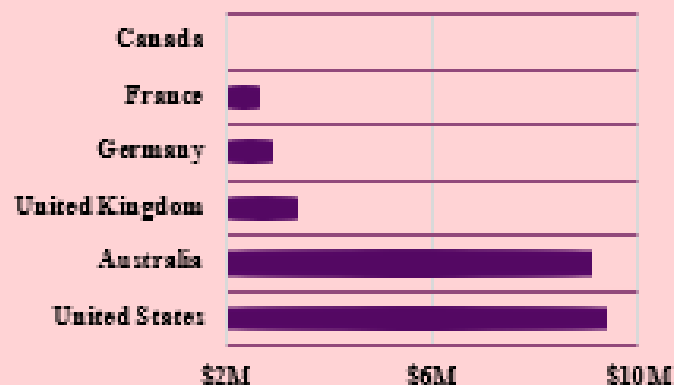
Sales by Segment



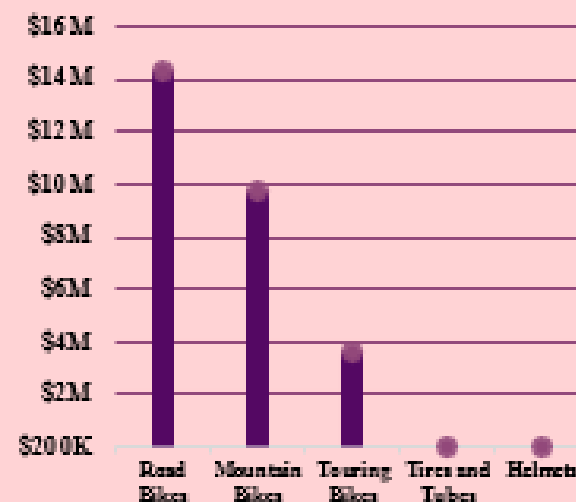
Yearly Sales Trend



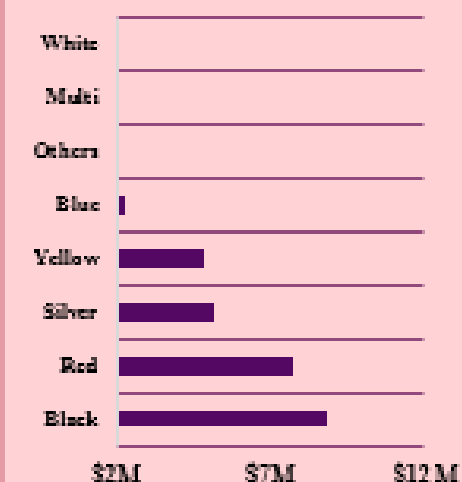
Sales by Country



Top 5 Product Category



Sales by Colour



Business Overview

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\$ 29m

Total Revenue

18,400

Total
Customers

\$12m

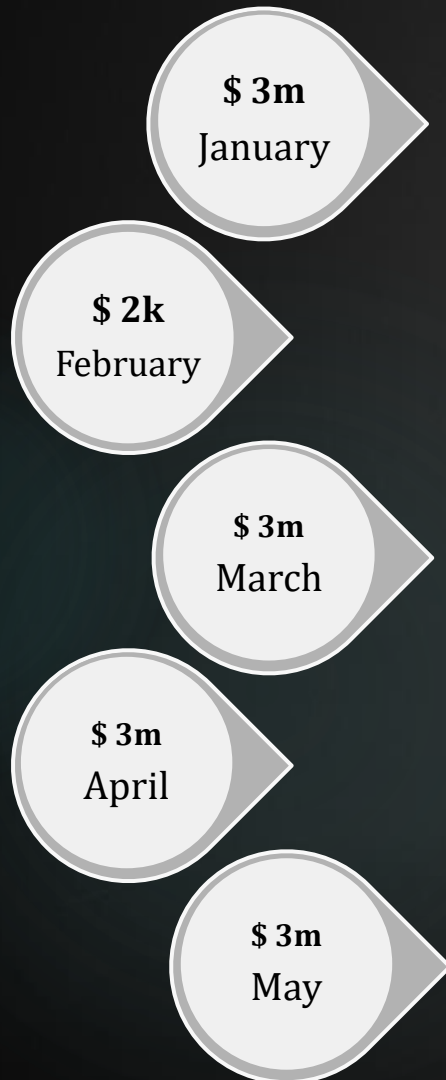
Total Profit

\$ 486.09

Average Sales
Per Customer

Monthly Sales Trend – Seasonality & Demand Patterns

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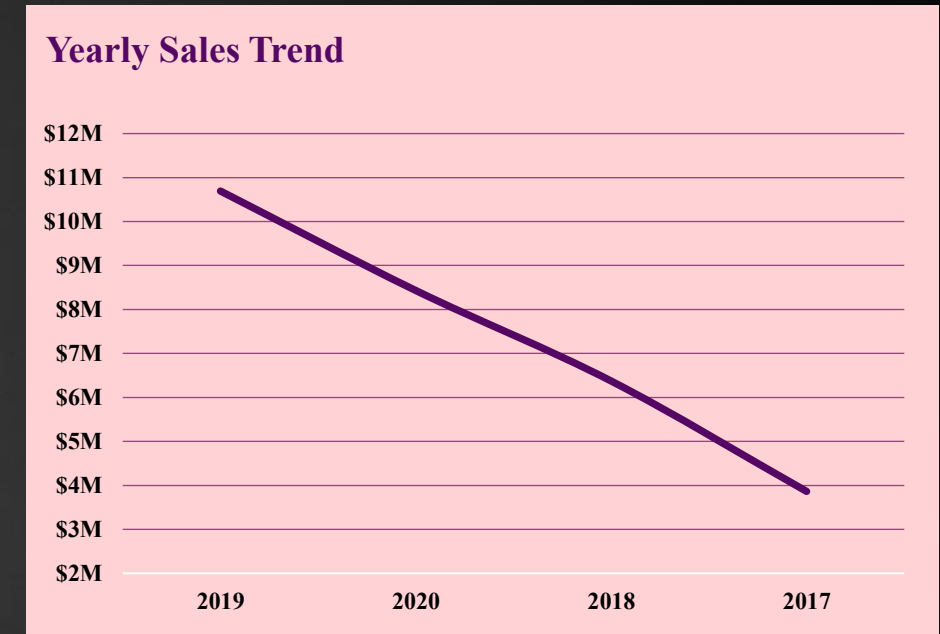
- Sales peak around **May** and gradually decline toward **June**
- A steady downward trend suggests **seasonal demand or declining customer engagement**
- Indicates potential need for **seasonal promotions or demand stimulation strategies**



Yearly Sales Trend – Long-Term Performance

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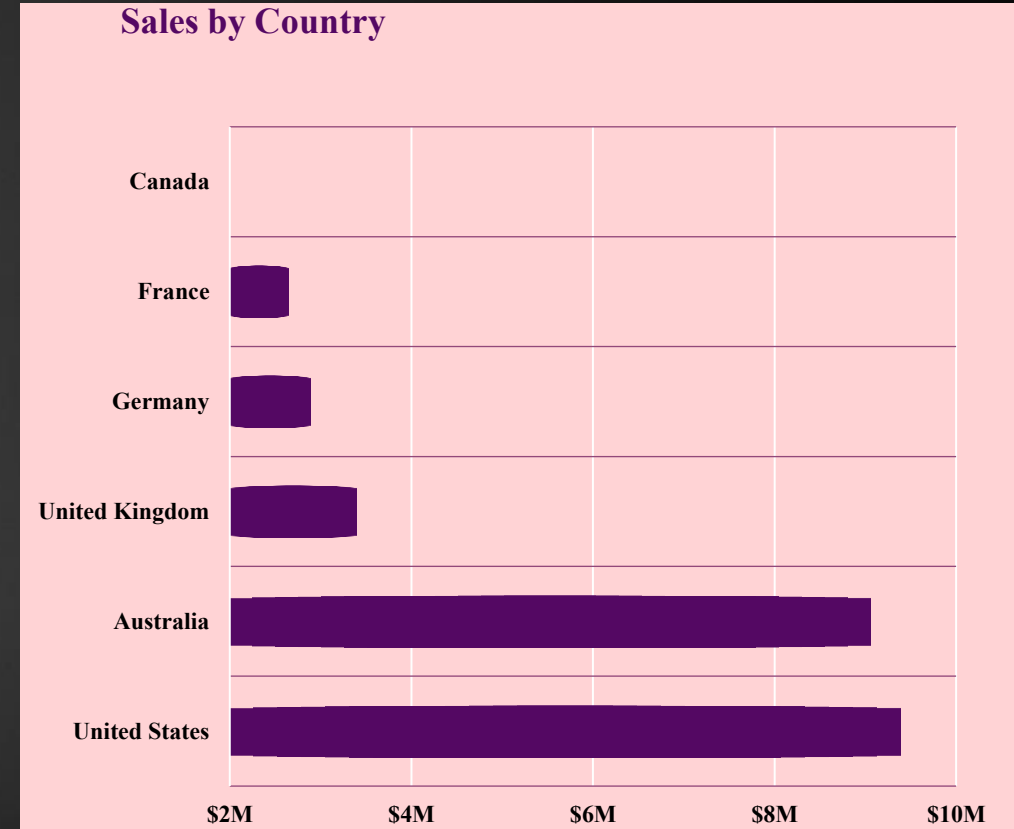
- Sales decline steadily from **2017** to **2020**
- Highest sales recorded in **2017**, lowest in **2020**
- Suggests possible impact of **market competition, product lifecycle issues, or external economic factors**



Sales by Country – Geographic Performance

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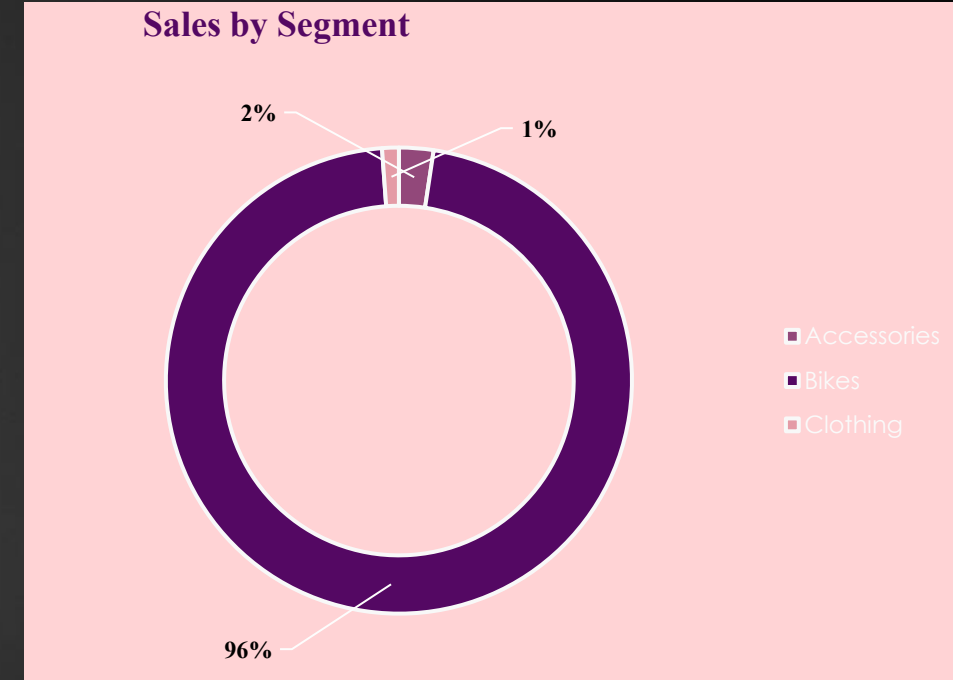
- **United States** is the highest-performing market
- **Australia** follows closely
- European markets (Germany, France) contribute less
- Indicates opportunities for **regional expansion** or **localized marketing**



Sales by Segment – Customer Contribution

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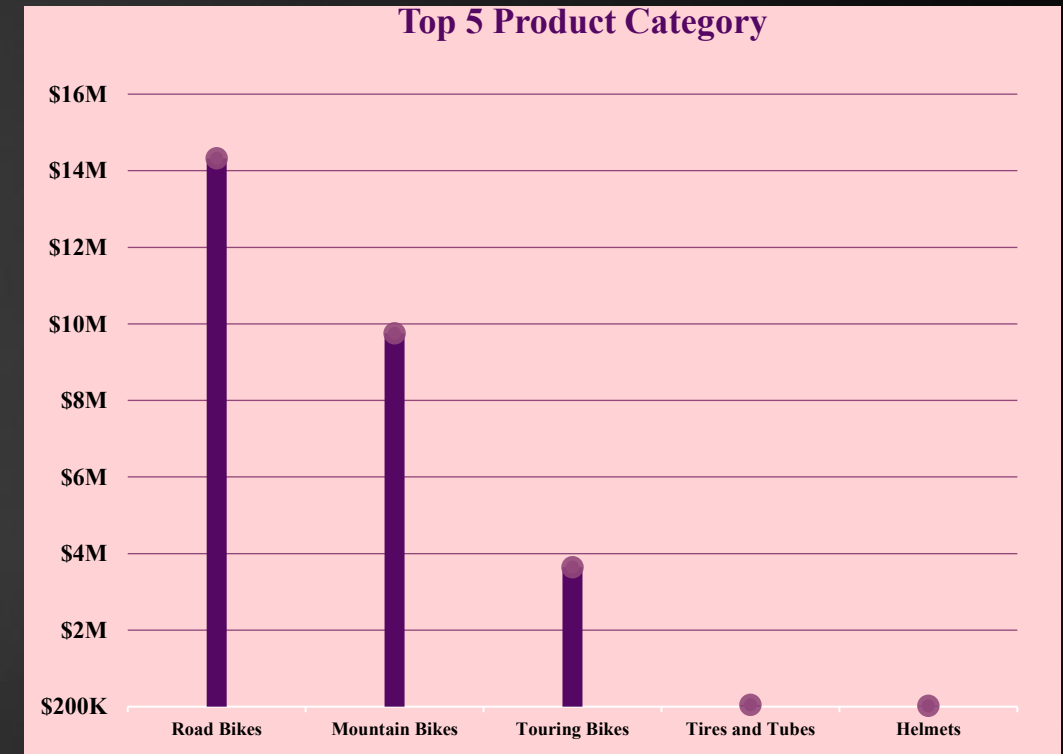
- **Bikes segment dominates with 96% of total sales**
- Accessories and clothing contribute minimally
- Heavy reliance on a single segment increases **business risk**



Top 5 Product Categories – Revenue Drivers

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- **Road Bikes** are the top-selling category
- **Mountain Bikes** follow strongly
- Touring bikes, tires, and helmets contribute significantly less
- Highlights where inventory, marketing, and R&D investments should focus



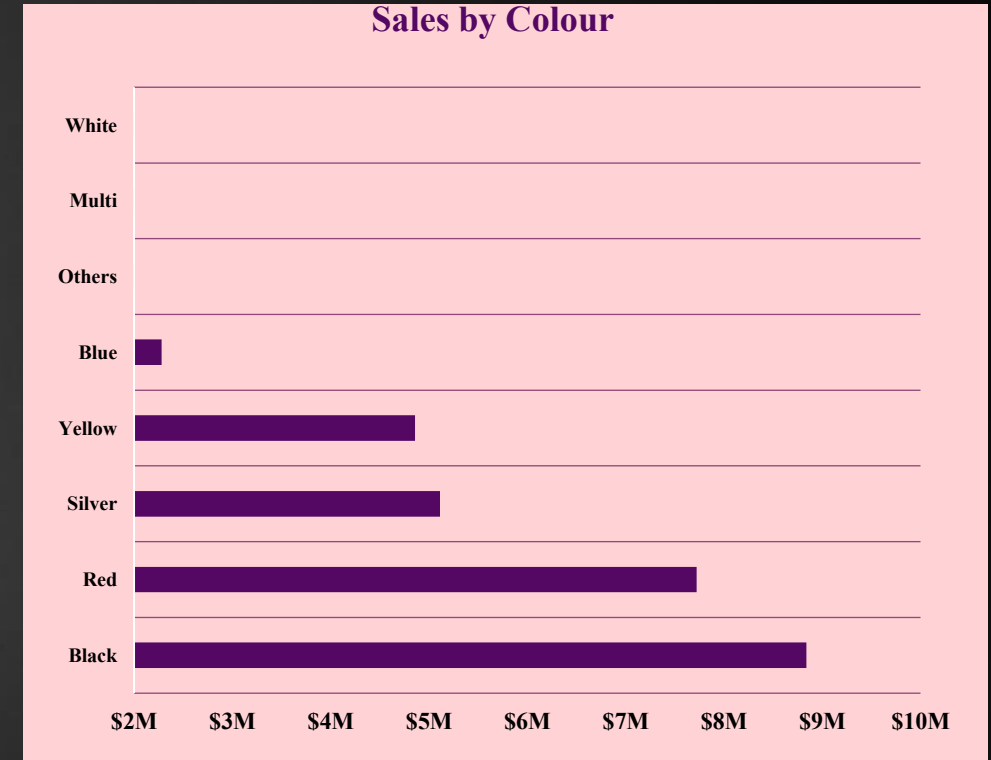
Sales by Colour – Customer Preference

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Black and Red are the most popular colors

White and multi-colored items underperform

Useful for **product design, inventory planning, and marketing**



CONCLUSION

The analysis reveals that while Bay remains profitable, it is experiencing a **gradual decline in sales over time**. Revenue is heavily driven by a **single product segment (Bikes)** and a **limited number of regions**, increasing business risk.

However, clear opportunities exist to **diversify product offerings, expand geographically, and re-engage customers through targeted strategies**.

Recommendation

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1. Diversify Product Portfolio

Invest in accessories and clothing to reduce dependence on bikes

2. Strengthen High-Performing Markets

Expand marketing efforts in the US and Australia

3. Revive Declining Sales Trends

Introduce seasonal promotions and loyalty programs

4. Optimize Inventory Strategy

Focus on top-selling categories and popular colors

5. Data-Driven Decision Making

Use dashboards like this regularly for performance monitoring

Challenges Encountered

- Cleaning and validating historical sales data
- Aligning multiple metrics across time periods
- Designing a dashboard that balances detail with clarity
- Ensuring insights are **business-focused, not just visual**

References

- Bay Sales Transaction Dataset (2017–2020)
- Microsoft Excel (Data Cleaning, Pivot Tables, Visualization)
- Data Visualization Best Practices
- Sales & Performance Analytics Frameworks

FUN FACT:

“Businesses that use data analytics effectively are 23 times more likely to acquire customers and 19 times more likely to be profitable. Data truly holds the power to transform success!”

-- McKinsey Global Institute

THANK YOU