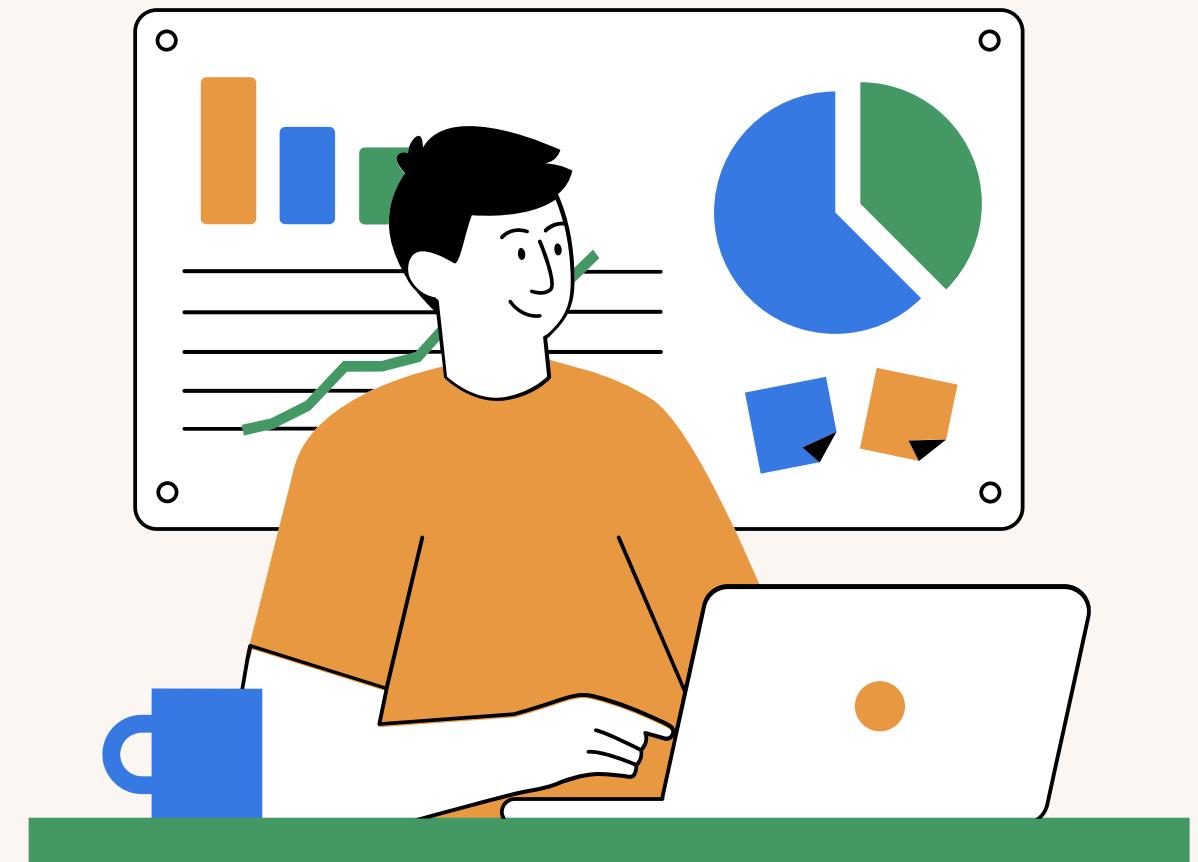


Presented by Oscar Hernandez

# Data insider

## Forbes 2000 2015-2023

[https://github.com/hzoscarr/ds\\_challenge\\_2\\_Data\\_Insider/blob/main/challenge\\_3\\_data\\_insider.ipynb](https://github.com/hzoscarr/ds_challenge_2_Data_Insider/blob/main/challenge_3_data_insider.ipynb)



# Preview

This is the final presentation of the data insider challenge proposed by **Alura Latam**. The objective is to produce a detailed report to objectively understand the behavior of large corporations worldwide using the different editions of Forbes 2000 from 2015 onwards. I was provided with all the data until 2022 and I included the Forbes 2000 edition 2023 dataset from:

<https://data.world/aroissues/forbes-global-2000-2008-2019>

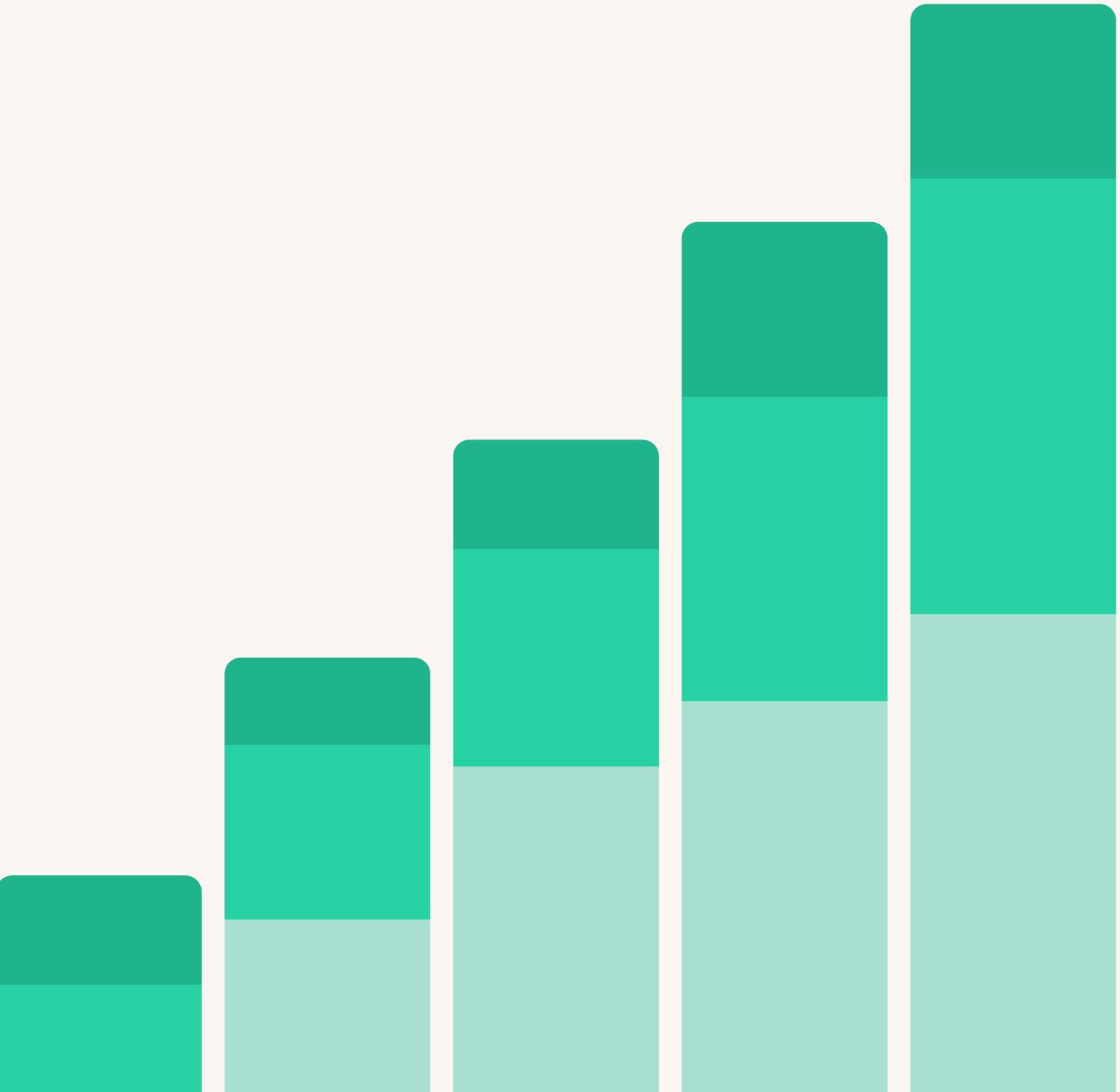
The charts and analysis presented here go beyond the surface of the challenge. You can find all the code for the challenge itself, along with the charts and analysis featured here, on my GitHub account:

[GitHub account](#)

This presentation is divided into 7 parts:

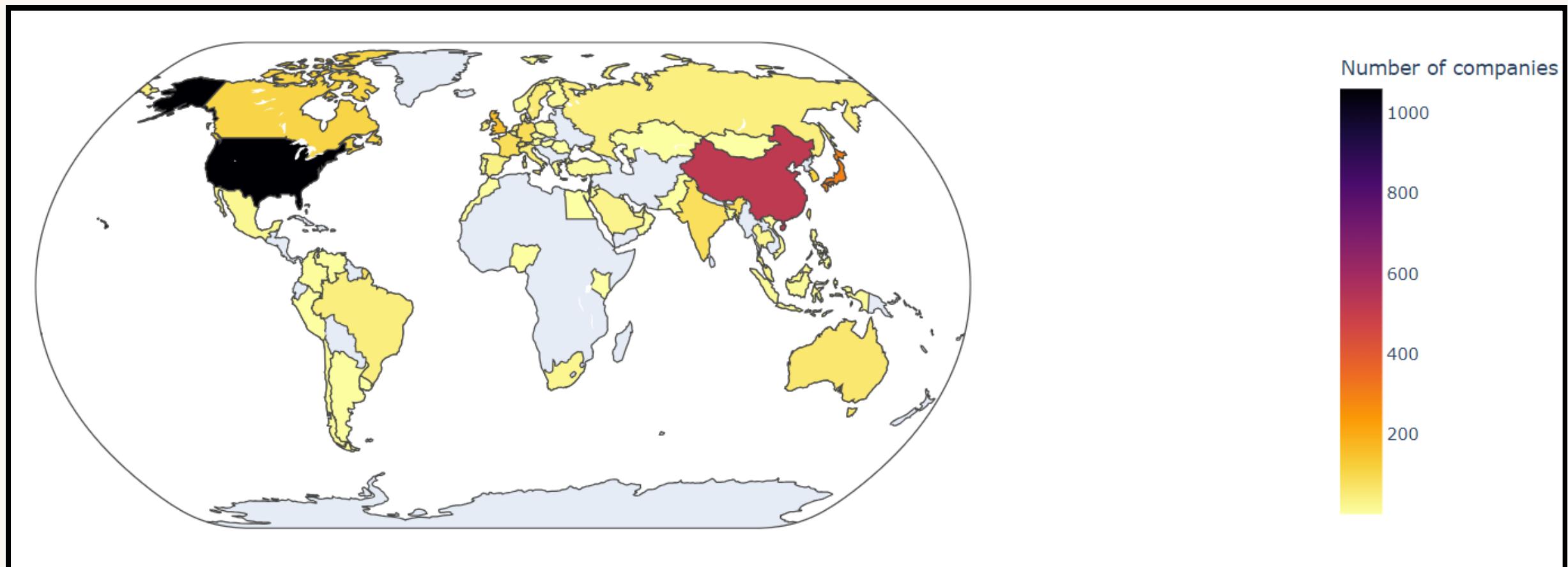
1. The introduction.
2. Analysis by number of companies
3. Analysis by total income
4. Analysis by industry
5. Analysis of Companies with Consistent Presence in Forbes 2000 (2015-2023)
6. Conclusion
7. Bonus (Industry Participation of Top Industries in Forbes 2000 for European Countries (2015-2023))

# 1. Introduction



# 1. Introduction

**Number of Unique Companies by Country**  
Forbes 2000, 2015-2023 Edition



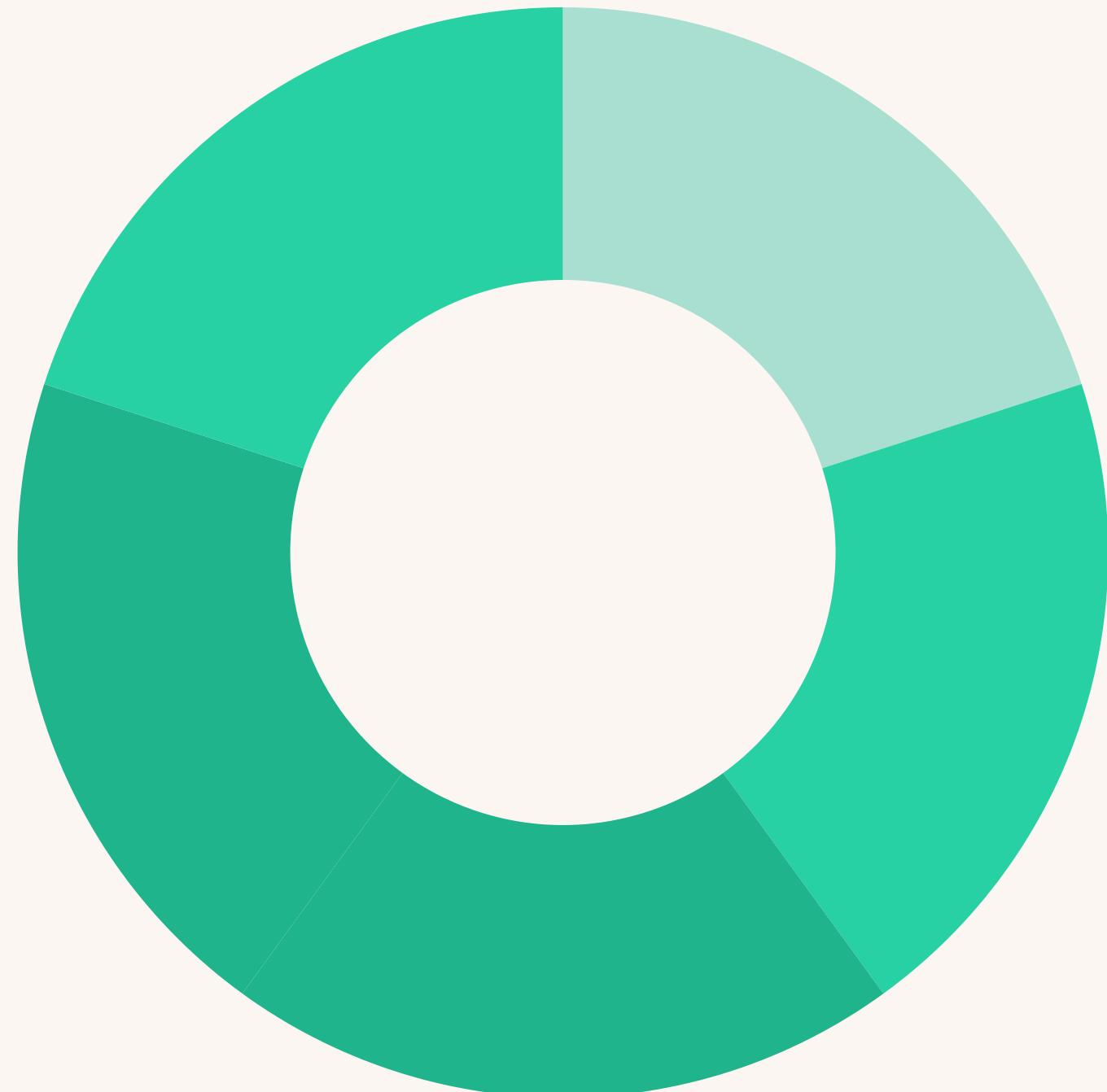
**Number of Countries per Continent**  
Forbes 2000, 2015-2023 Edition

Continent	Number of Countries
Africa	5
Asia	24
Europe	27
North America	6
Oceania	1
South America	7

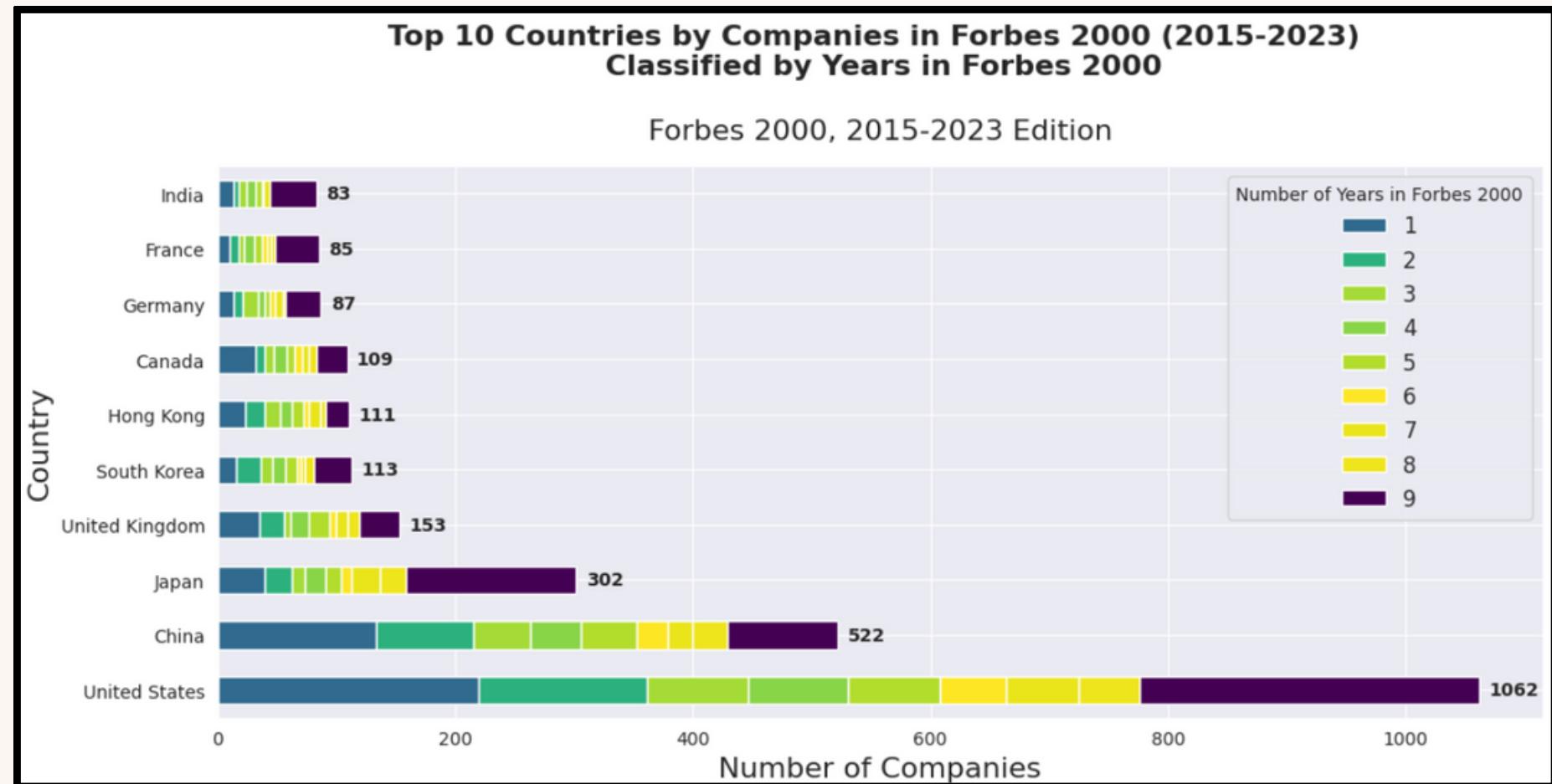
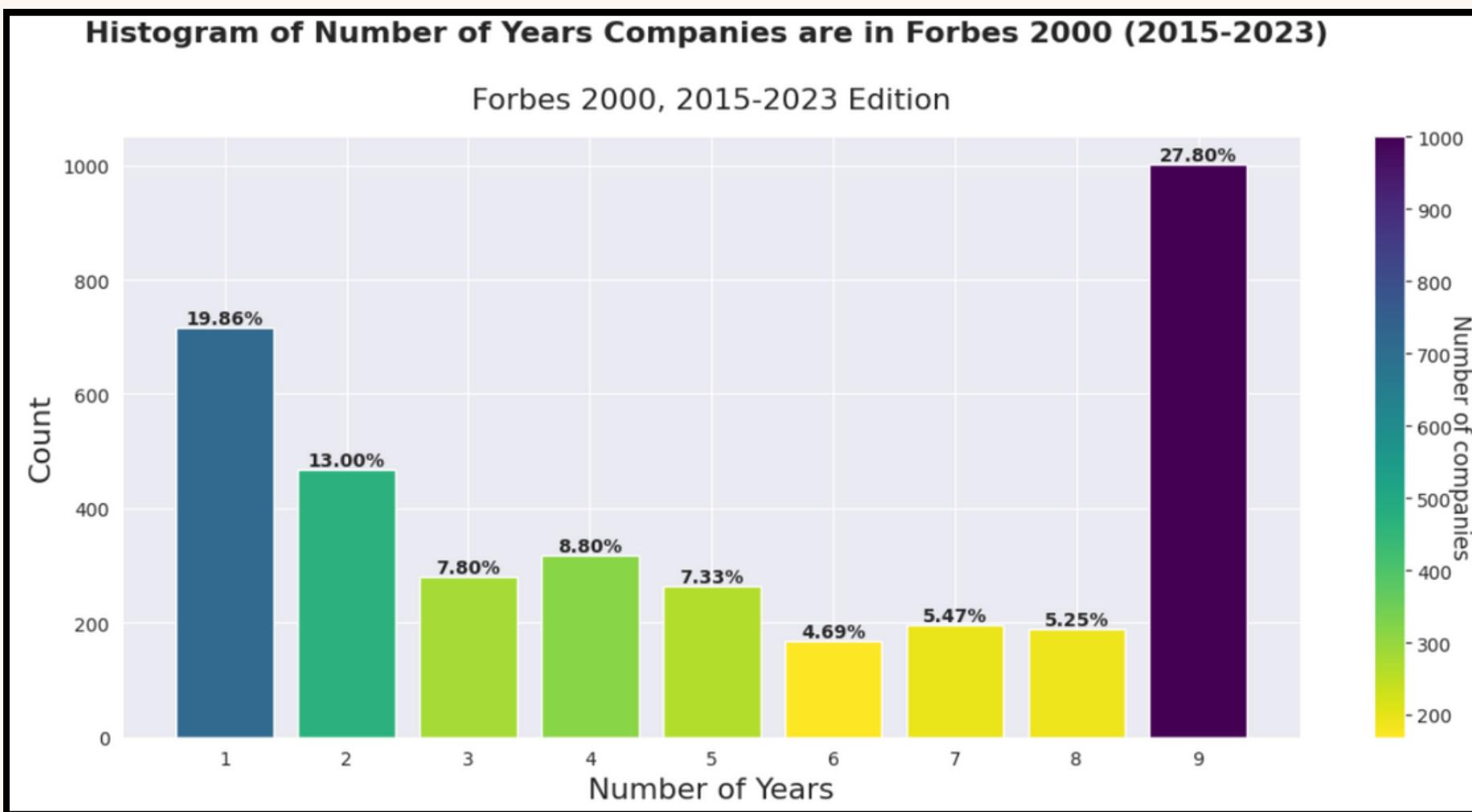
## Additional Information:

- 70 Countries
- 26 Industries
- 9 years: From 2015 to 2023

## 2. Analysis by Number of Companies



## 2. Analysis by Number of Companies



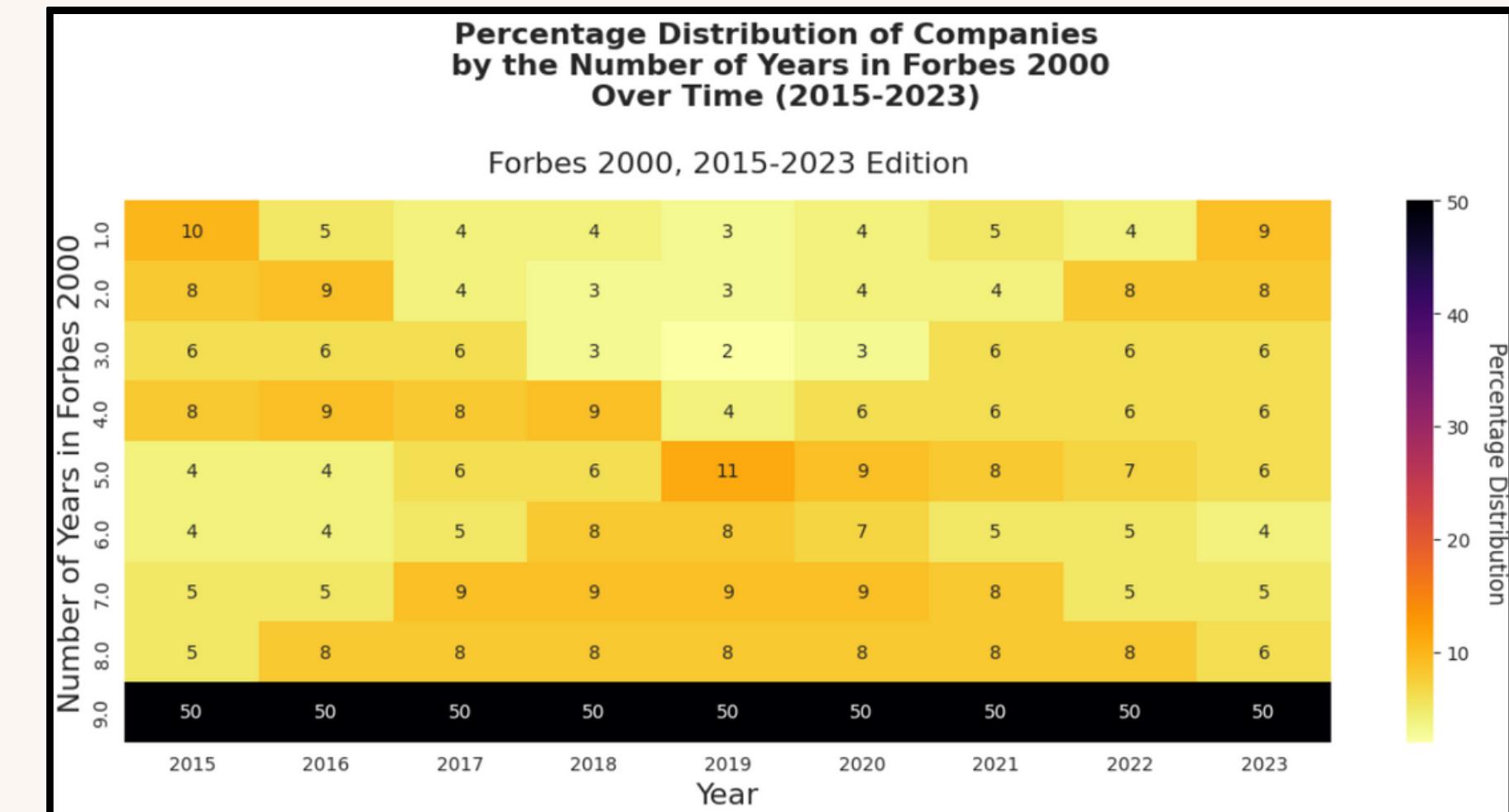
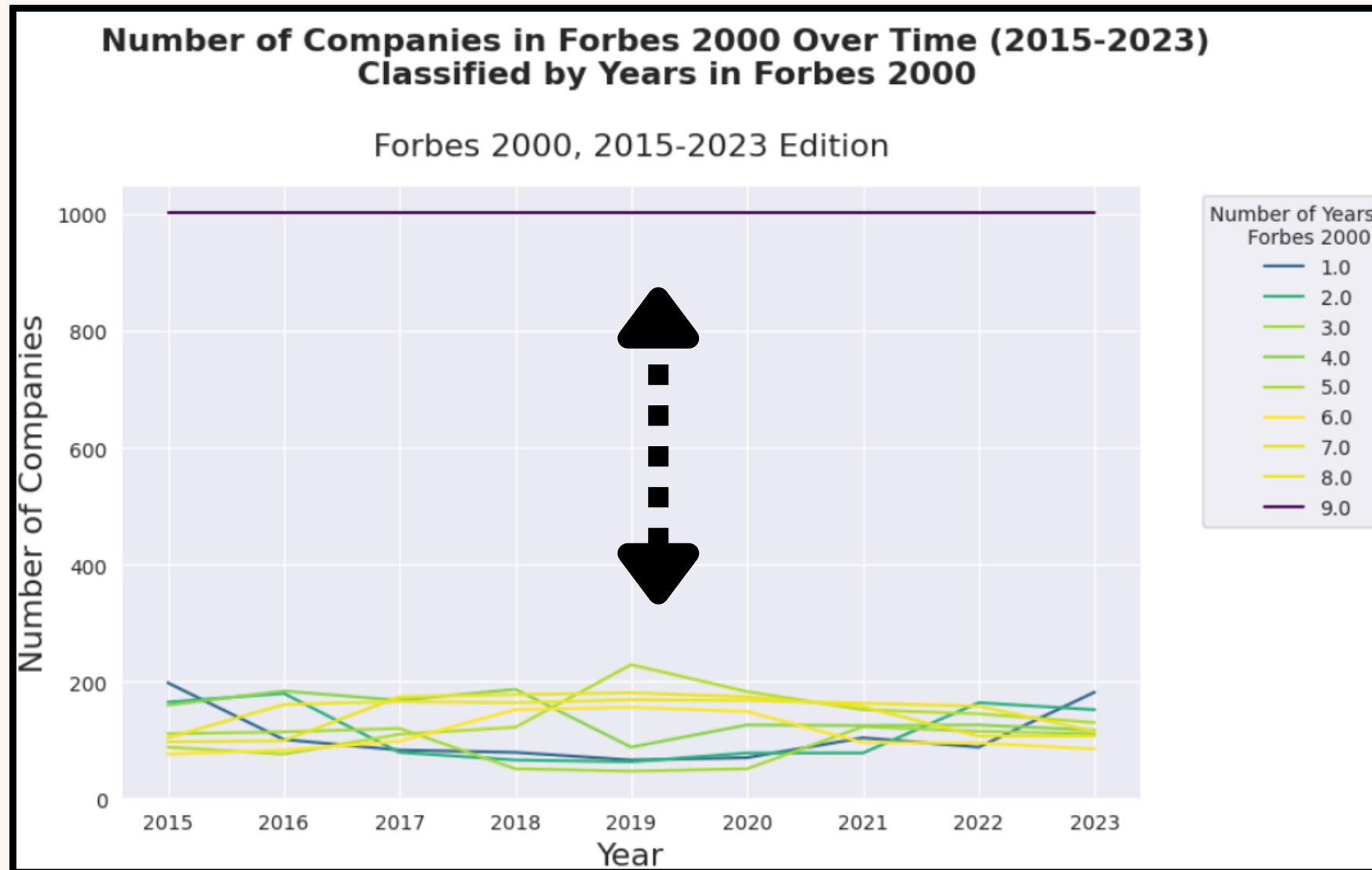
### Insights:

- The companies consistently appearing in the previous nine editions of the Forbes 2000 have the highest frequency.

### Insights:

- The countries with the most companies in Forbes 2000 in the last 9 editions are the United States, China and Japan.

## 2. Analysis by Number of Companies



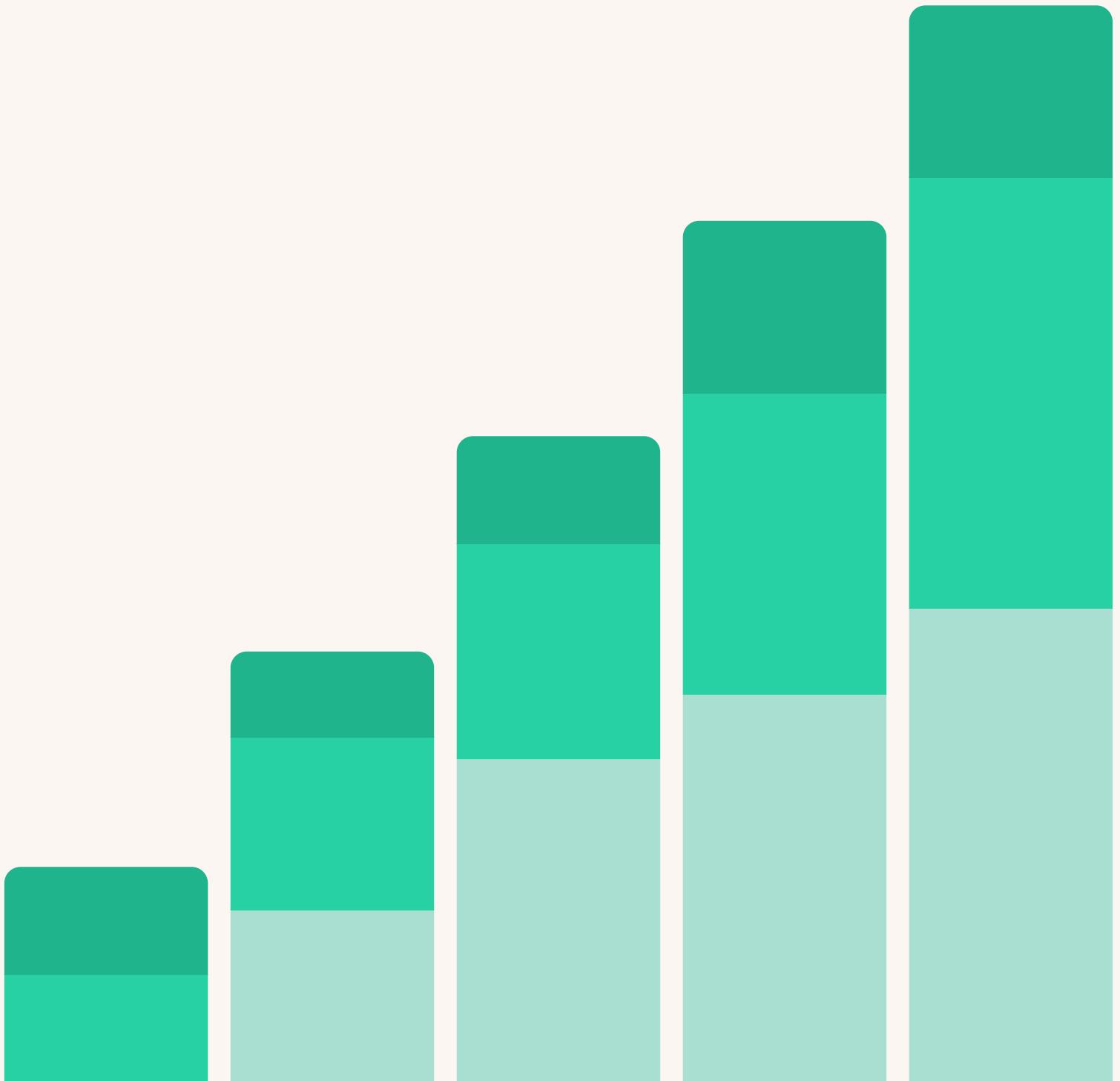
### Insights:

- There is a significant disparity in quantity between the companies that consistently appear and those that do not across the previous nine editions of the Forbes 2000.

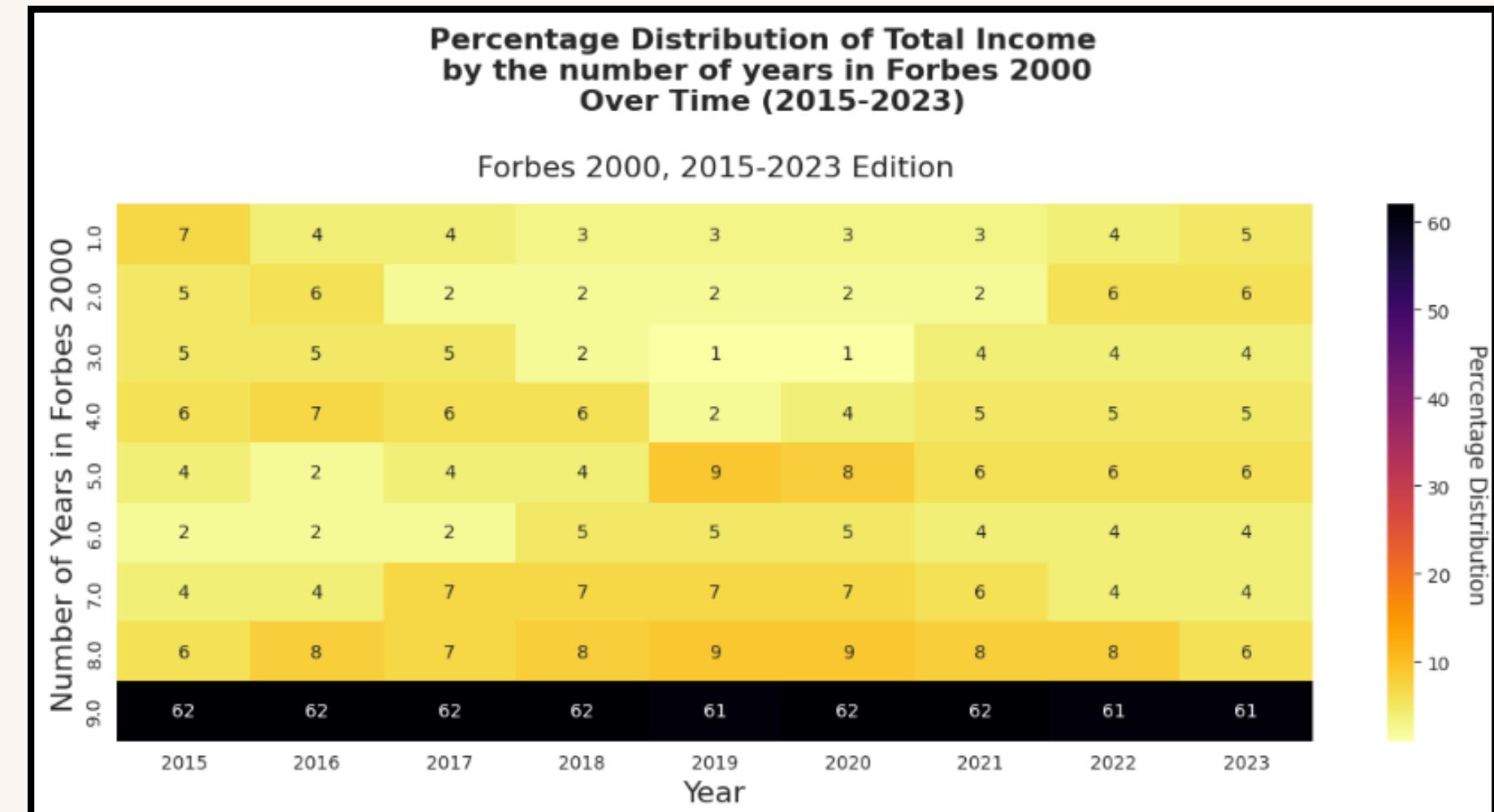
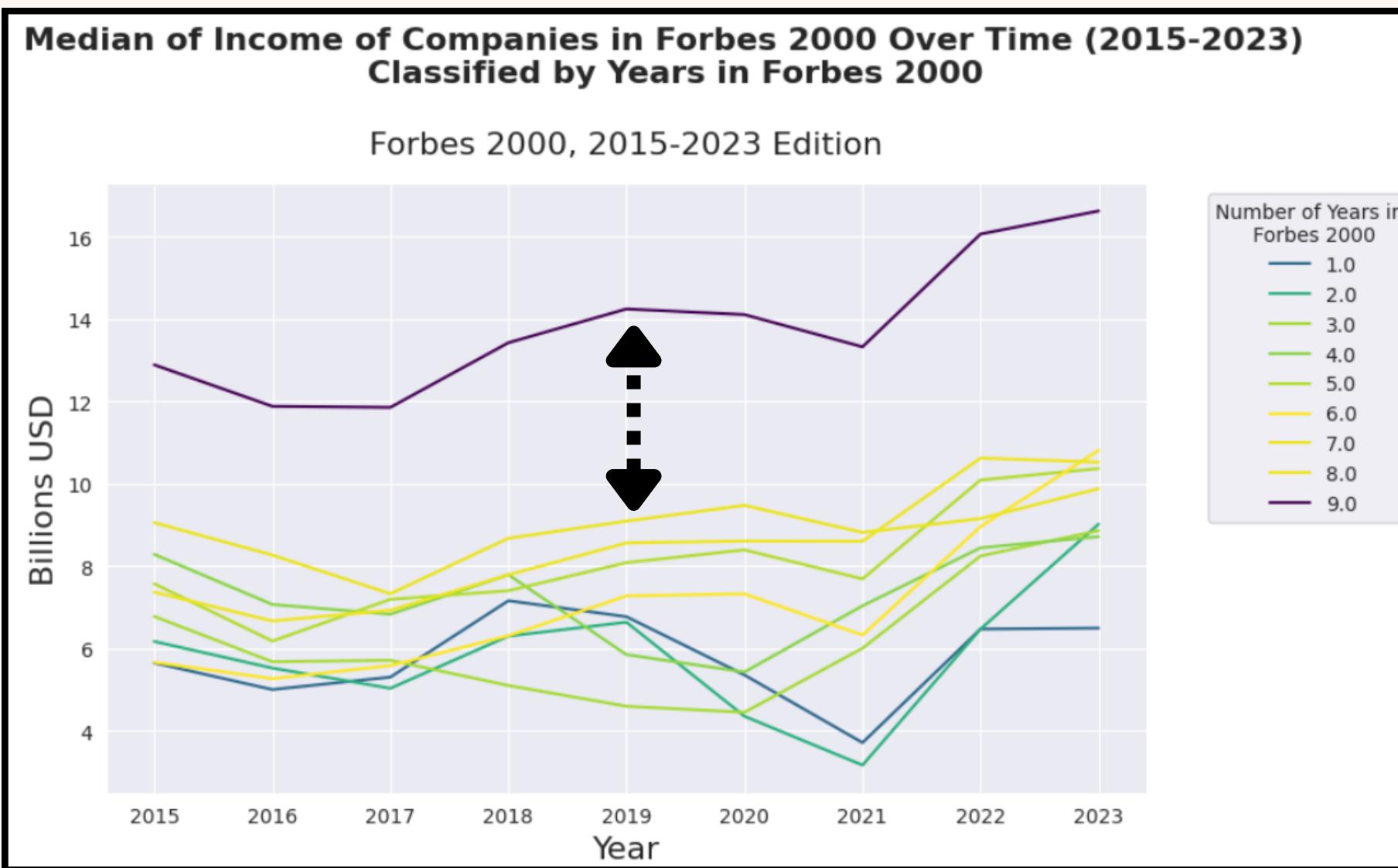
### Insights:

- Approximately 1000 companies have appeared in all nine previous editions of the Forbes 2000.

### 3. Analysis by Total Income



### 3. Analysis by Median and Total Income



#### Insights:

- Even when considering the median Income There is a significant disparity between the companies that consistently appear and those that do not across the previous nine editions of the Forbes 2000.

#### Insights:

- The companies with a consistent appearance in all previous editions of the Forbes 2000 account for approximately 61% of the total income each year.

## 4. Analysis by Industry

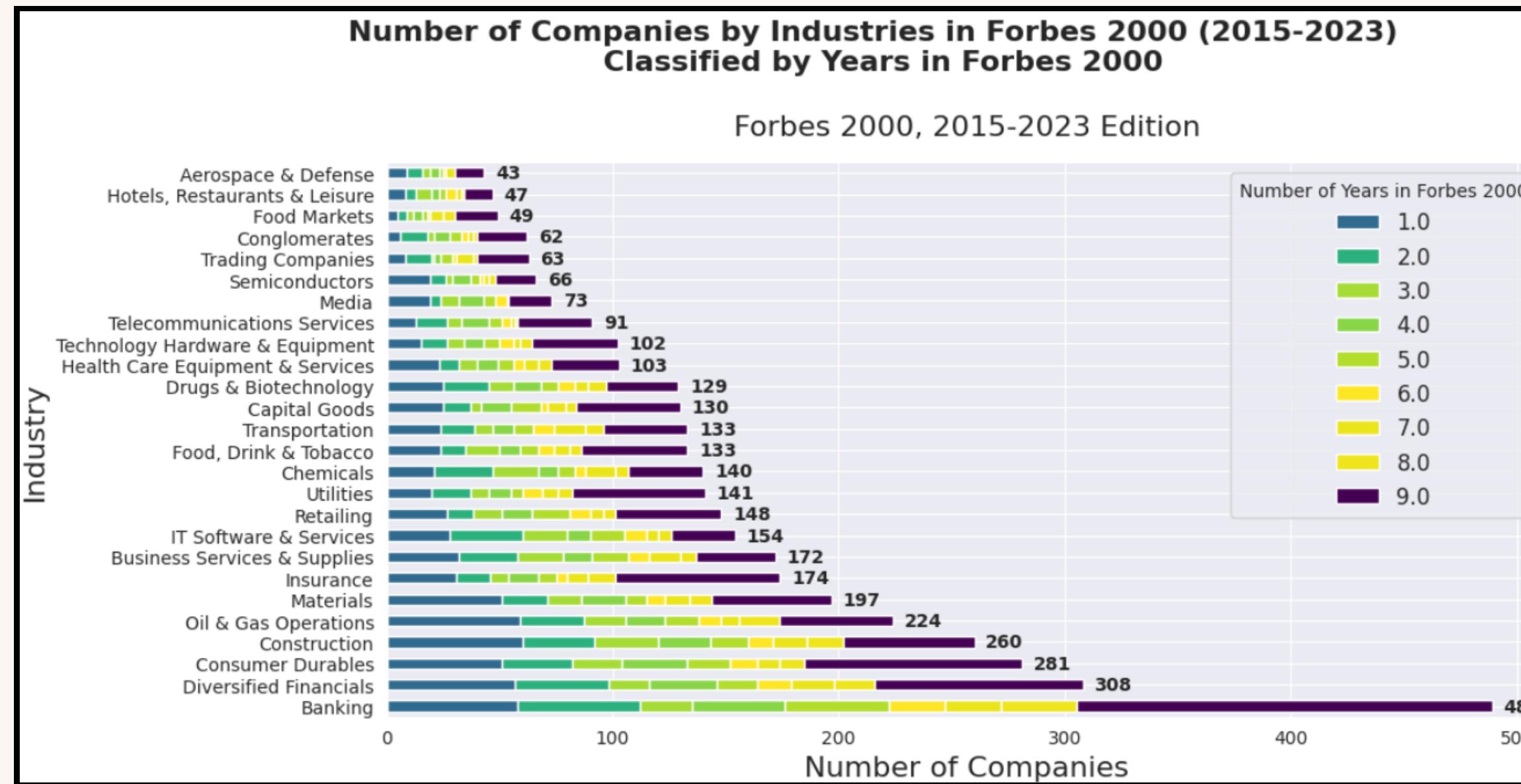
4.1 by number of companies

4.2 by total income

4.3 by profit margin %



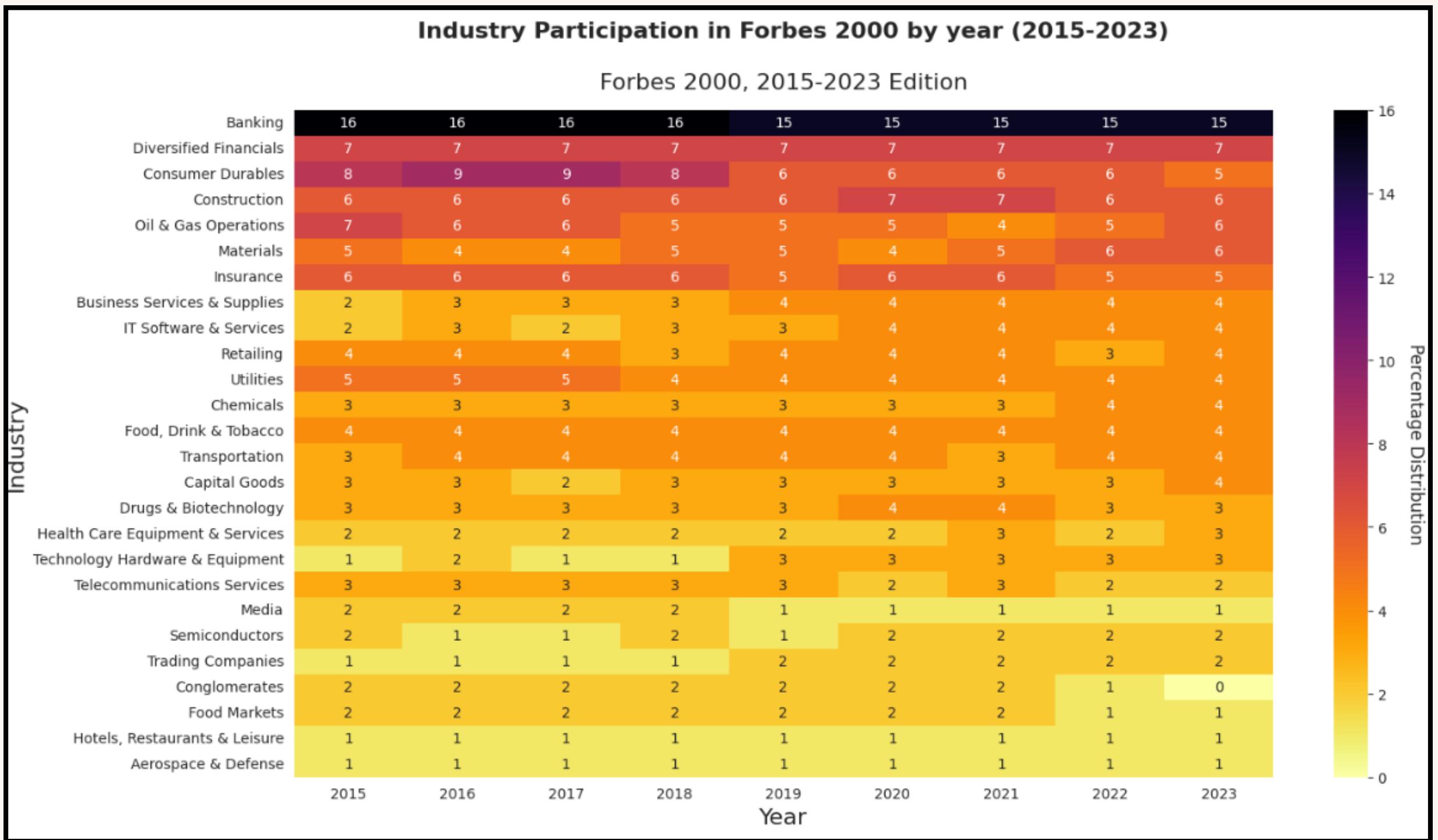
# 4.1 Analysis by Industry - by number of companies



## Insights:

- The banking industry has had ten times as many companies included in the previous nine editions of the Forbes 2000 compared to the Aerospace & Defense Industry.

# 4.2 Analysis by Industry - by number of companies



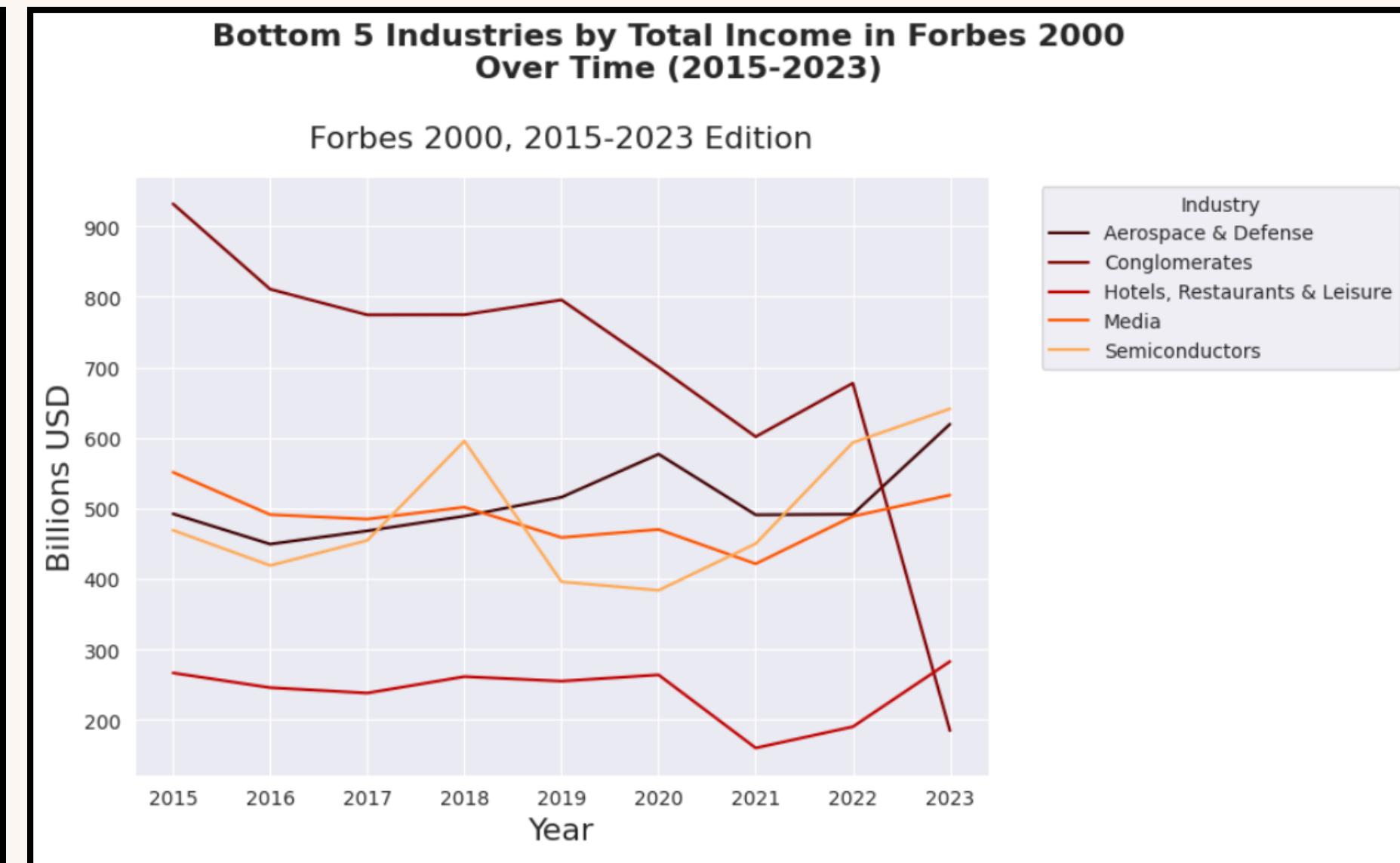
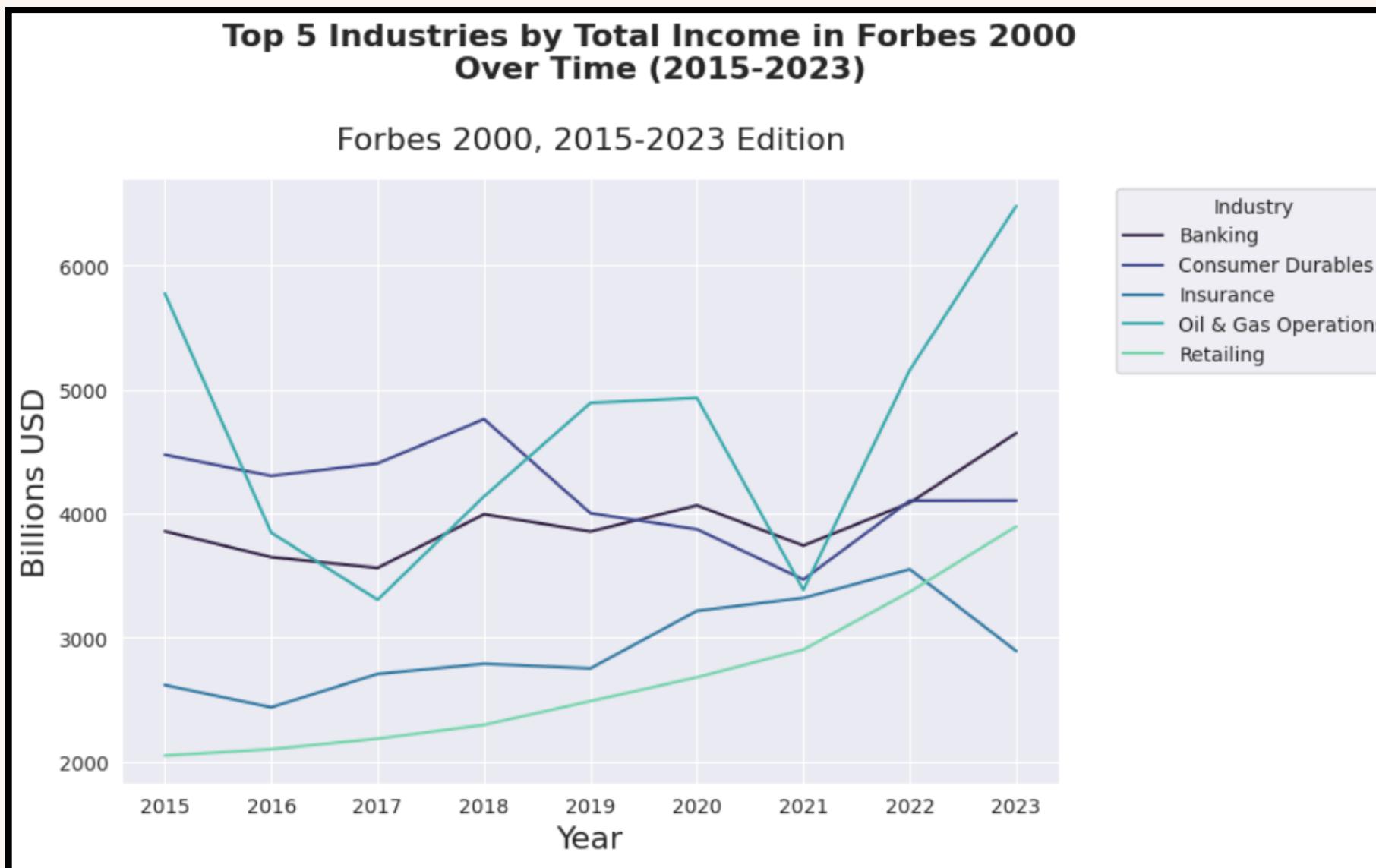
Number of companies by industry by year divided by the total number of companies each year.

Ranking	Industry
1	Banking
2	Diversified Financials
3	Consumer Durables
4	Construction
5	Oil & Gas Operations

## Insights:

- The top 5 industries with the highest number of companies in the Forbes 2000 each year collectively represent just over 40% of industry participation annually.

## 4.2 Analysis by Industry - by total income



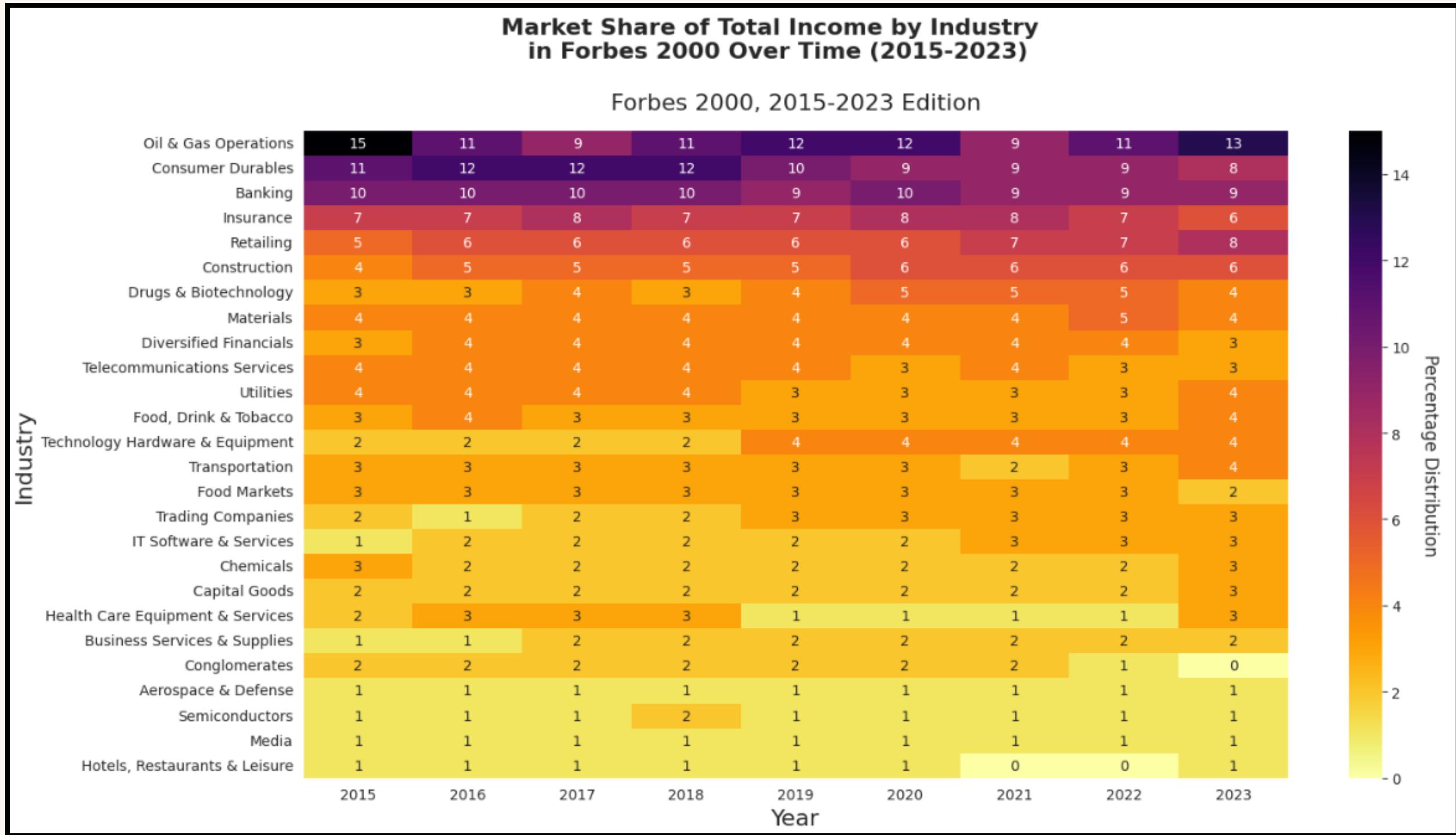
### Insights:

- Each of the top 5 industries by total income surpasses 2 trillion USD annually.

### Insights:

- Each of the bottom 5 industries by total income has an annual total income of less than 1 trillion USD.

# 4.2 Analysis by Industry - by total income



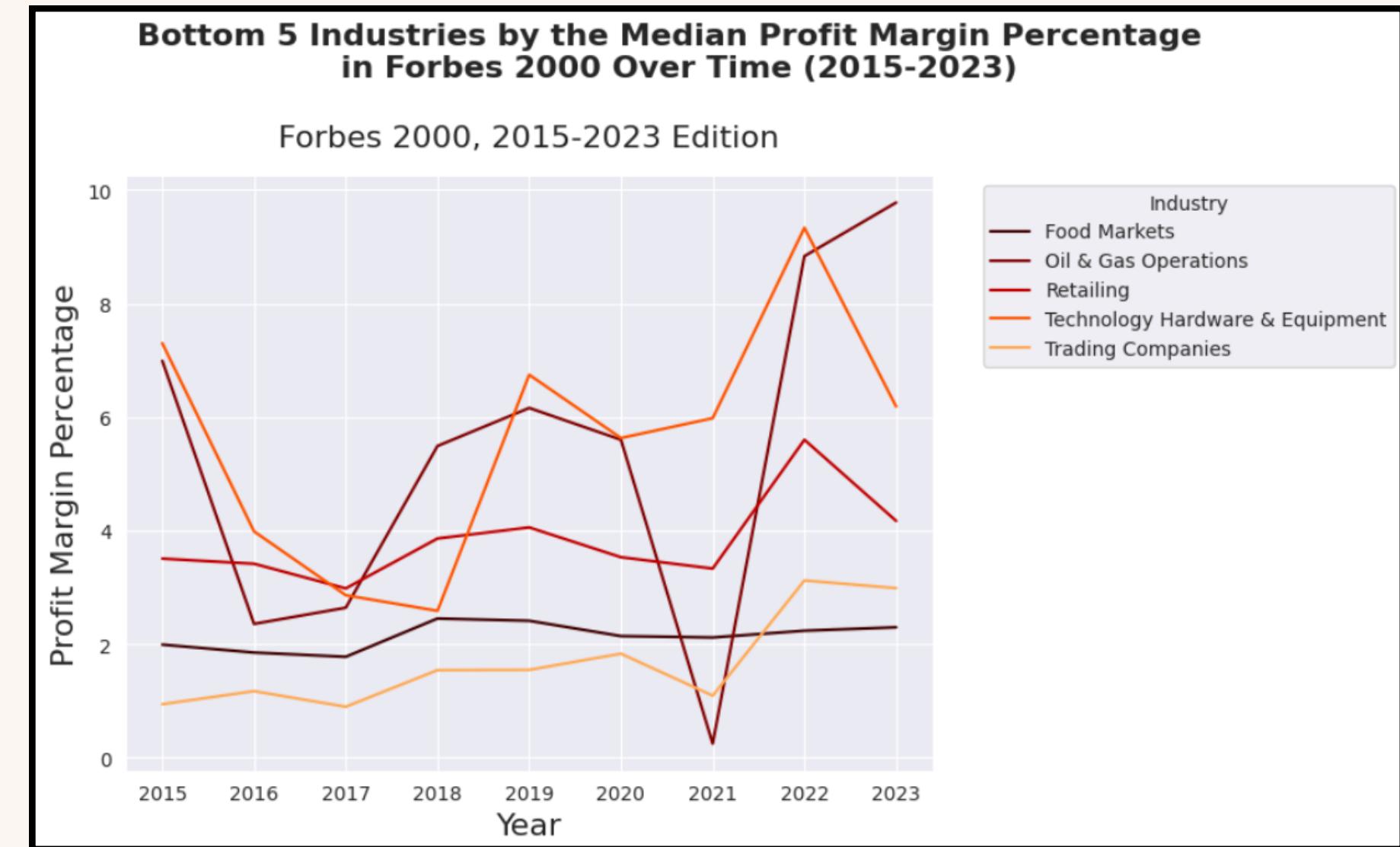
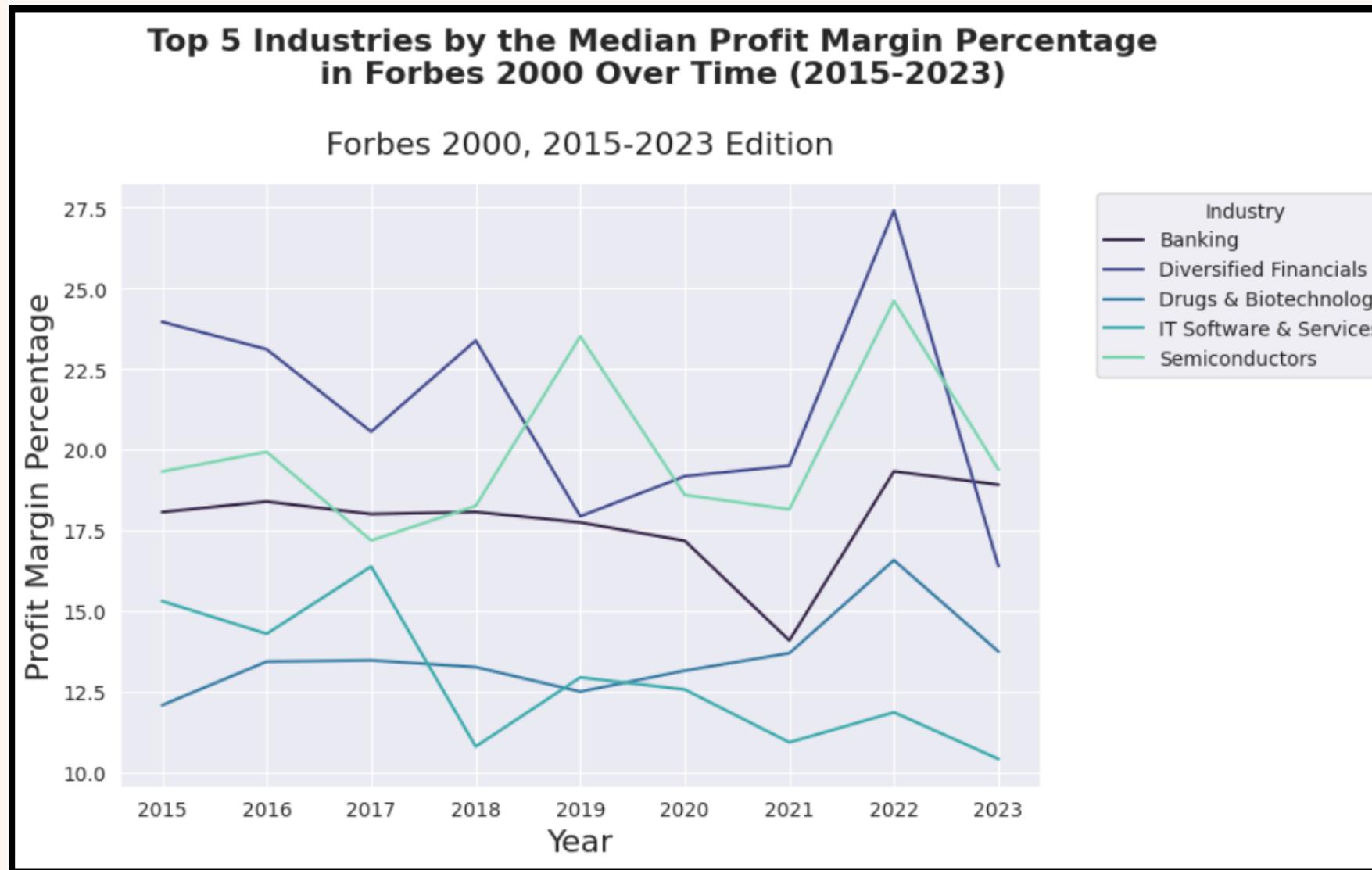
Total Income by industry by year divided by the total Income of all industries each year.

Ranking of Market Share of Total Income by Industry Forbes 2000 (2015-2023)	
Ranking	Industry
1	Oil & Gas Operations
2	Consumer Durables
3	Banking
4	Insurance
5	Retailing

## Insights:

- The top 5 industries with the highest total income in the Forbes 2000 each year collectively represent just over 42% of the Market share.

## 4.3 Analysis by Industry - by profit margin (%)



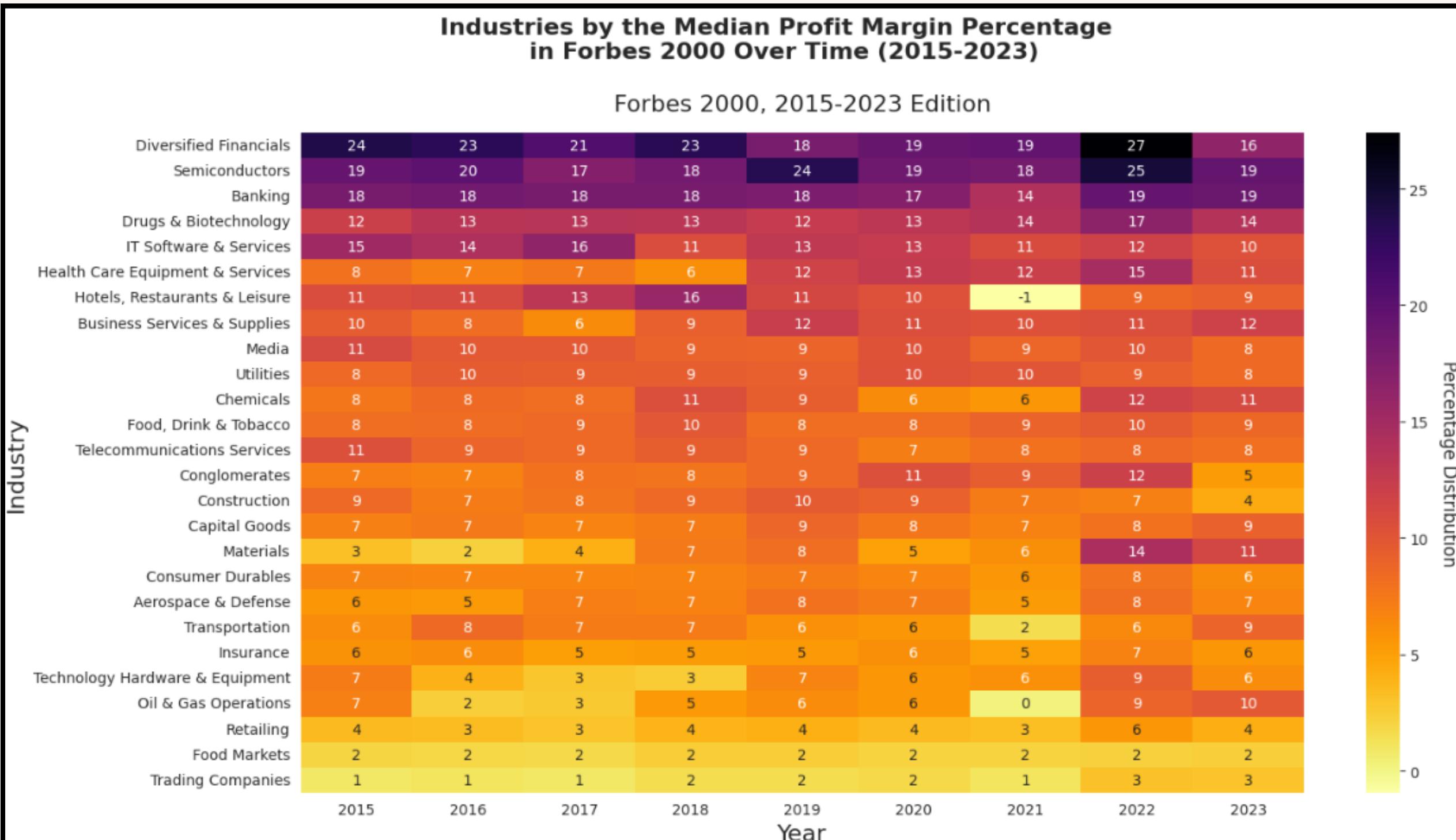
### Insights:

- Each of the top 5 industries has a median profit margin exceeding 10% annually.

### Insights:

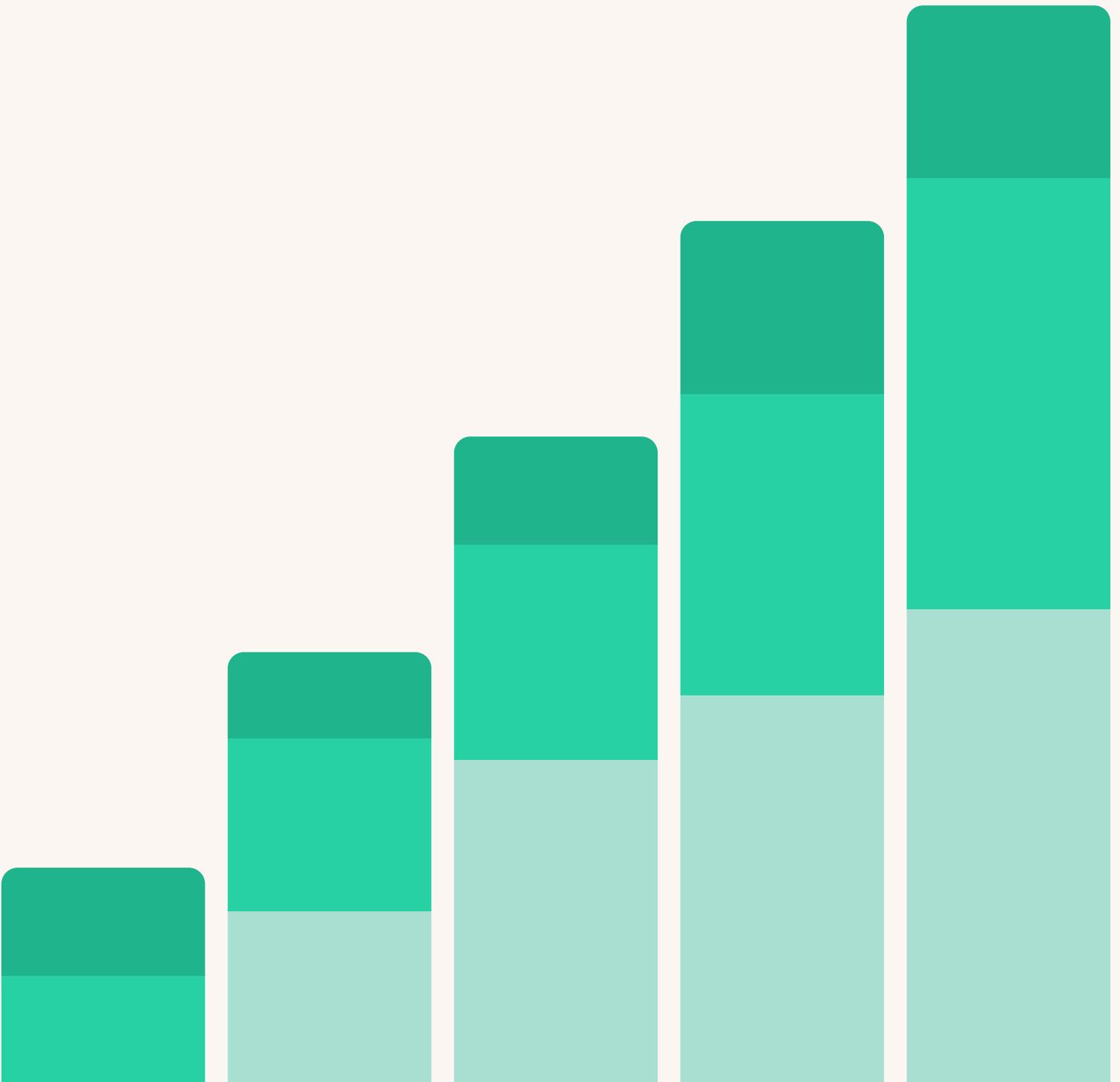
- Each of the bottom 5 industries has a median profit margin of less than 10% annually.

# 4.3 Analysis by Industry - by profit margin (%)

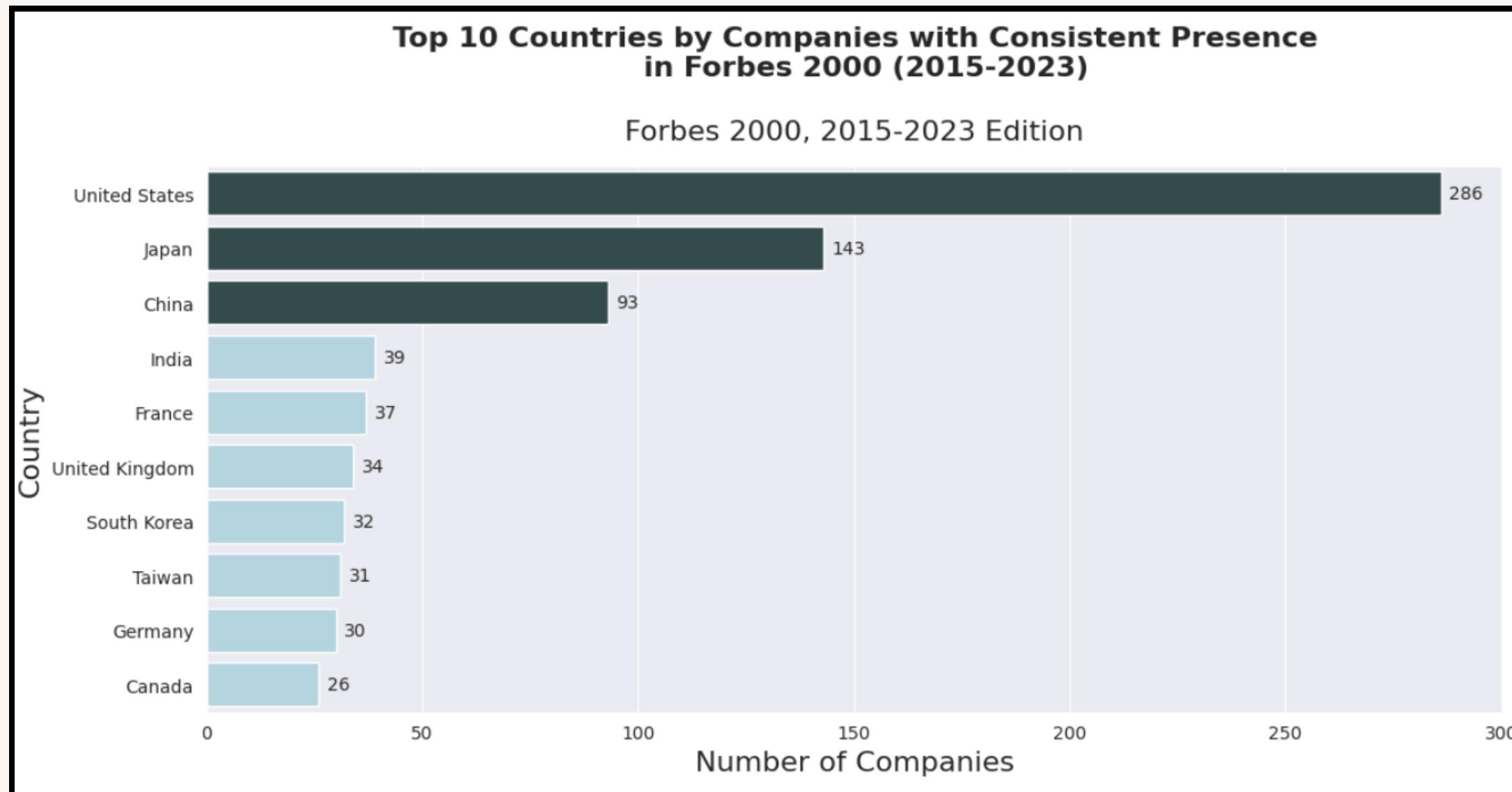


Ranking of the Median Profit Percentage by Industry in Forbes 2000 (2015-2023)	
Ranking	Industry
1	Diversified Financials
2	Semiconductors
3	Banking
4	Drugs & Biotechnology
5	IT Software & Services

## 5. Analysis of Companies with Consistent Presence in Forbes 2000 (2015-2023)



# 5. Companies with Consistent Presence in Forbes 2000 (2015-2023) by country

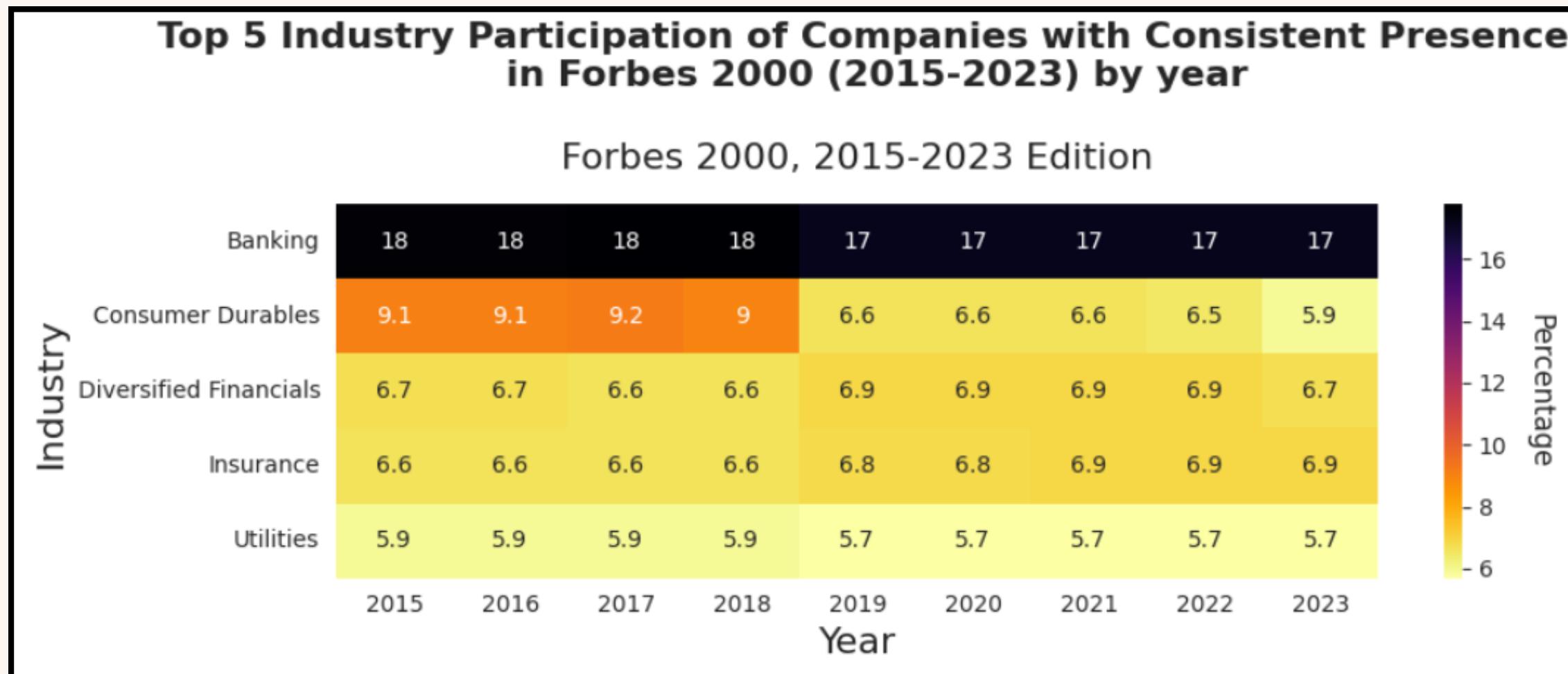


Variation of Ranking with Respect to the Top 10 Countries with most industries in Forbes 2000 (2015-2023)		
Ranking	Country	Variation
1	United States	➡ 0
2	Japan	⬆ 1
3	China	⬇ -1
4	India	⬆ 6
5	France	⬆ 4
6	United Kingdom	⬇ -2
7	South Korea	⬇ -2
8	Taiwan	⬆ 4
9	Germany	⬇ -1
10	Canada	⬇ -3

## Insights:

- The number of companies from the United States in the previous nine editions of the Forbes 2000 surpasses the combined total of companies from Japan and China.
- There is a notable discrepancy in the number of companies among the top three countries consistently appearing across the previous nine editions of the Forbes 2000 compared to the remaining countries.

# 5. Companies with Consistent Presence in Forbes 2000 (2015-2023) by Industry participation

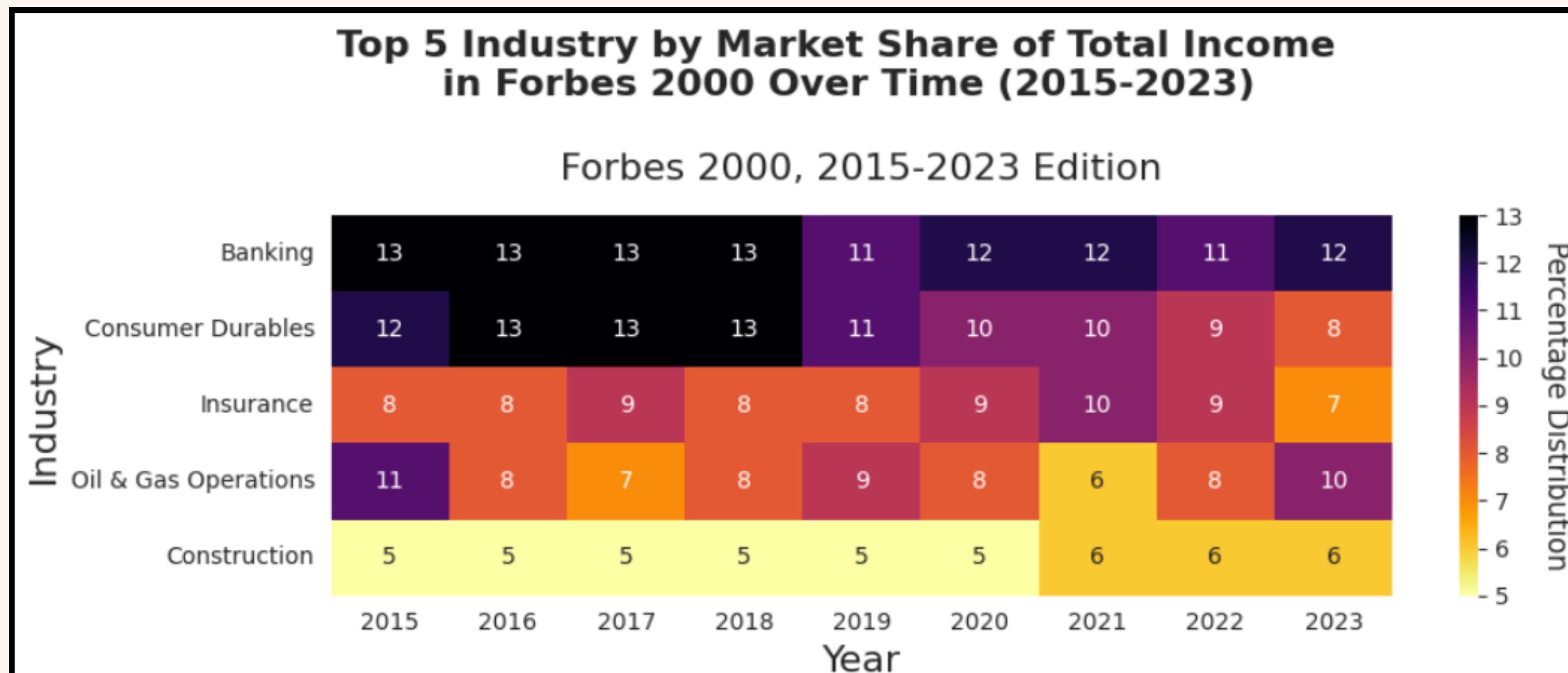


**Variation of Ranking with Respect to the Top 5 Industry Participation in Forbes 2000 (2015-2023)**

Ranking	Industry	Variation
1	Banking	➡ 0
2	Consumer Durables	↑ 1
3	Diversified Financials	⬇ -1
4	Insurance	↑ 3
5	Utilities	↑ 6

Number of companies by industry by year divided by the total number of companies each year.

# 5. Companies with Consistent Presence in Forbes 2000 (2015-2023) by Market Share of Total Income

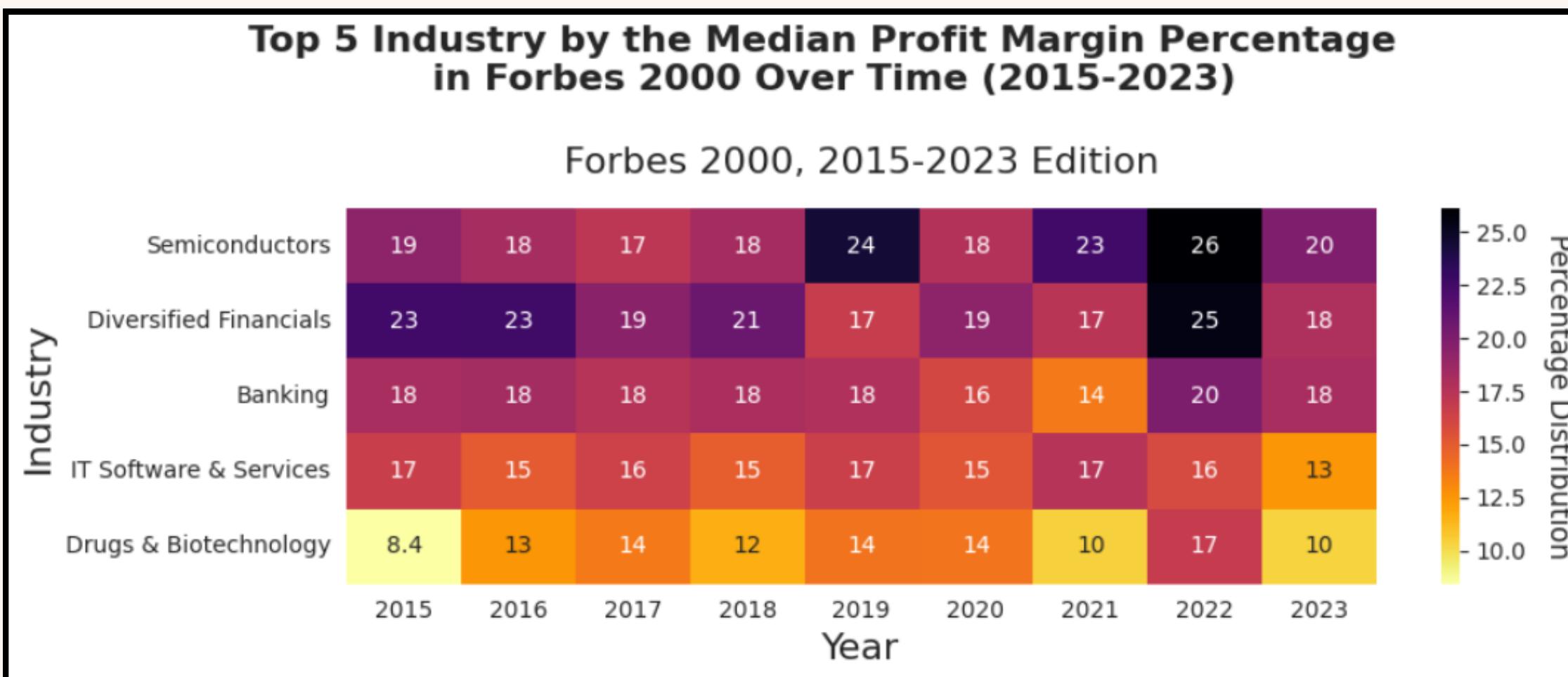


**Variation of Ranking with Respect to the Market Share of Total Income by Industry in Forbes 2000 (2015-2023)**

Ranking	Industry	Variation
1	Banking	↑ 2
2	Consumer Durables	↗ 0
3	Insurance	↑ 1
4	Oil & Gas Operations	↓ -3
5	Construction	↑ 1

Total Income by industry by year divided by the total Income of all industries each year.

# 5. Companies with Consistent Presence in Forbes 2000 (2015-2023) by Profit Margin %



**Variation of Ranking with Respect to the Median Profit Margin % by Industry in Forbes 2000 (2015-2023)**

Ranking	Industry	Variation
1	Semiconductors	↑ 1
2	Diversified Financials	↓ -1
3	Banking	↑ 1
4	IT Software & Services	↑ 1
5	Drugs & Biotechnology	↓ -1

## 6. Conclusions



# 6. Conclusions

01.

The countries that have dominated the Forbes 2000 list in the last nine editions are the United States, China, and Japan.

02.

There is a significant disparity in quantity between the companies that consistently appear and those that do not across the previous nine editions of the Forbes 2000.

03.

The companies with a consistent appearance in all previous editions of the Forbes 2000 account for approximately 61% of the total income each year.

04.

The top 5 industries with the highest number of companies in the Forbes 2000 each year collectively represent just over 40% of industry participation annually.

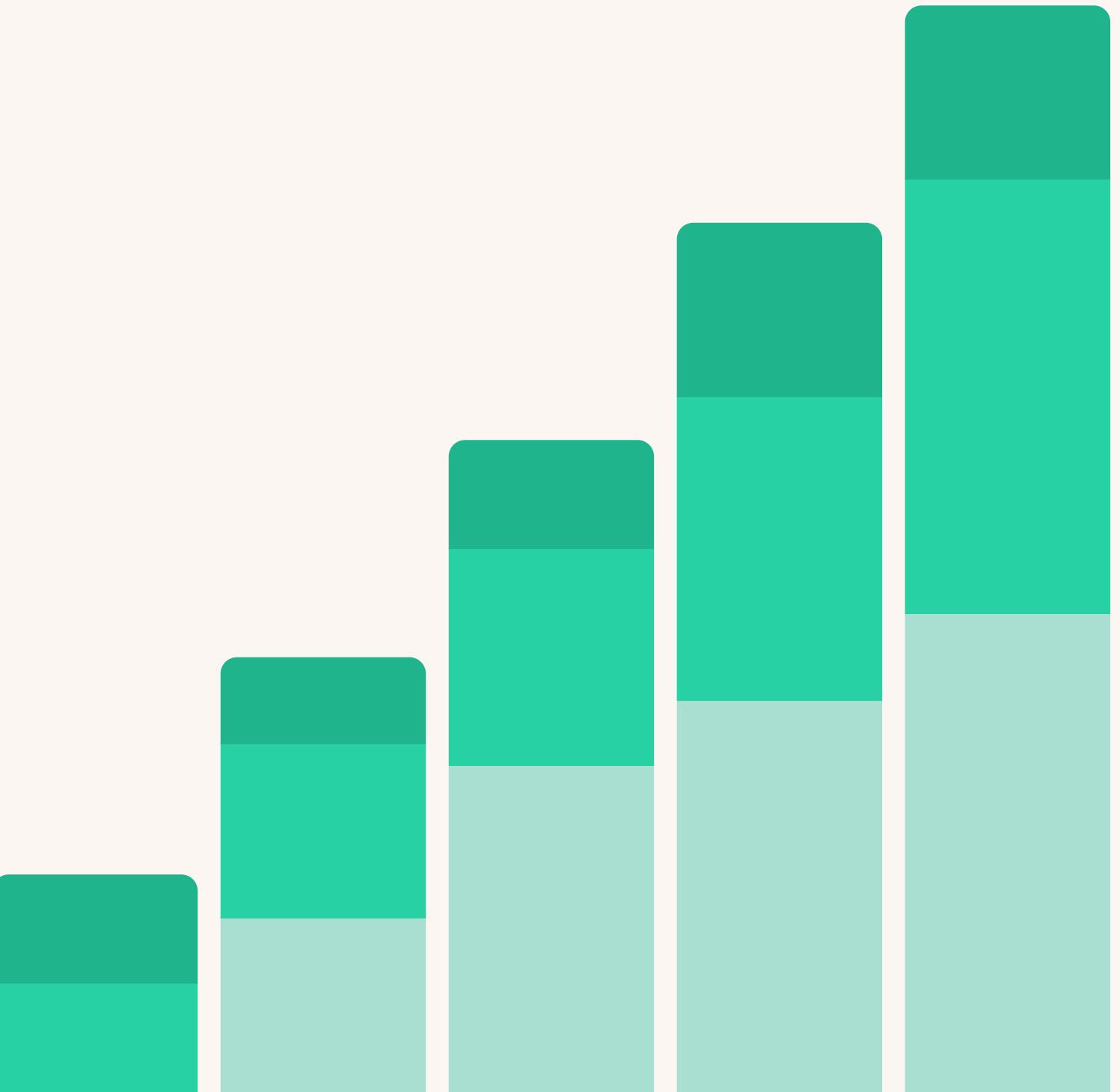
05.

The top 5 industries with the highest total income in the Forbes 2000 each year collectively represent just over 42% of the Market share.

06.

The banking industry is the only one that appears in the 3 rankings considered. 1° in the Industry participation ranking, 3° in the Market Share ranking, and finally, 3° in the median profit margin ranking

# 7. Bonus



# 7. Industry Participation of Top Industries in Forbes 2000 for European Countries (2015-2023)

