International Journal for Research in Media & Communication
Research Article
Published By: Green Publications

STREAMING PLATFORMS AND THE TRANSFORMATION OF THE DIGITAL MEDIA ECONOMY: AN EMPIRICAL ANALYSIS OF SUBSCRIBER GROWTH, CONTENT INVESTMENT, AND AUDIENCE ENGAGEMENT

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***Received Date**: 28-Dec-2025 | **Revised Date:**18-Jan-2026 | **Accepted Date:**20-Feb-2026 | **Publish Date:**18-Mar-2026*

Abstract
The recent spike in streaming services has a tremendous influence on the digital media economy, transforming how audio and visual content is generated, distributed and consumed. This research addresses the economic and engagement features of the large streaming platforms by performing a descriptive analysis of the subscriber size, content expenditure, andaudience engagement indicators. Based on a secondary data set of platform-level financial metrics, subscriber counts,content investment statistics, and engagement metrics in the form of streaming hours, and peak concurrent viewers, theresearch offers a comparative evaluation of various large streaming platforms. The results indicate that there is a significant difference between platforms in terms of market coverage, financial and audience activity. Bigger platformsusually have a better standing on their competition because of the vast subscriber pools and increased content investments. It is also revealed in the analysis that platforms that distribute more financial resources to content creation are the onesthat create more audience engagement, and therefore content spending is an important strategic consideration inattracting and retaining viewers. Also, metrics of engagement show the dynamics of attention among the audience ondifferent streaming platforms, such as subscription video services and live-streaming systems.

***Keywords:** Streaming Platforms, Digital Media Economy, Subscriber Growth, Content Investment, Audience Engagement*

1. Introduction

The quick evolution of digital communication technologies have greatly changed the world picture of the media. The old broadcasting systems, that previously depended on the scheduled programming and linear distribution models are increasingly being substituted with the model of content delivery systems based on the internet. Streaming technologies have become dominant distributors of audiovisual media as they allow audiences to get access to content on demand via various devices and geographic areas. The internet-delivered television has thus formed a core aspect of the present media systems, which enables content providers to circumvent the traditional broadcasting frameworks and sell programming directly to viewers through the digital gates (Lotz, 2017).

The growth of the streaming platforms can be interpreted as part of a larger move towards platform-based digital infrastructures, which structure economic and social relations on the Internet. It is agreed that digital platforms are intermediaries that bridge users, creators, advertisers, and distributors in complicated technological systems. In the media sector, these platforms are taking over the content distribution, viewership data, and monetization plans. The digital channels have started reorganizing the economy and culture of the media industries on the global scale. Such change has been called a platform society, with digital infrastructures becoming the focus of how communication, economic exchange, and public discourse are organized (Van Dijck et al., 2018).This integration is what scholars call the platformization of cultural production, whereby digital platforms continue to become influential in determining how and on what terms creative content is produced and distributed. The cultural products of television programs and digital video material are integrated into platform infrastructures which dictate their visibility, access and economic value in this environment (Nieborg and Poell, 2018).

Competition has risen in the global media industry due to the emergence of subscription video-on-demand services. To draw and keep subscribers, major streaming platforms are extremely invested in original content, exclusive content licensing, and technology infrastructures. Many sites, including Netflix and Amazon Prime Video, have led the way with the strategies of combining branded television production with digital distribution platforms to form unique pools of content that are unavailable in the traditional broadcasters. The streaming services have been enabled to work concurrently as distributors, producers, and brand managers in the newly transforming media marketplace through this model (Wayne, 2018). The spread of streaming services has also changed the geography of media distribution throughout the world. Digital distribution networks enable streaming products to visit audiences throughout international boundaries, developing a transnational marketplace of audiovisual content. This globalization of digital distribution has not only allowed streaming companies to grow exceptionally fast into new markets but also transformed the local media industries and the patterns of consumption (Lobato, 2019).

The streaming sites belong to a larger shift in digital entertainment sectors, where the traditional media production is becoming more overlapping with digital platforms, as well as social media ecosystems. The emergence of digital entertainment has united technological corporations, media makers and content creators in novel ways of cooperation and rivalry. The lines between technology companies and media companies are becoming more and more indistinct in this environment, with platforms creating their own content strategies, and media producers depending on digital platforms to get their content out to the world and to interact with their audiences (Cunningham and Craig, 2019). Streaming sites exist in the structures of complicated industrial relations that entail production studios, distribution systems, technologies firms, and regulatory institutions. The nature of streaming services hence necessitates looking at how these services have interrelated with the existing media institutions and how they have transformed the industrial practices within the larger media ecosystem (Herbert et al., 2019).

Streaming sites are more powerful than the content production and distribution to the technological interfaces through which media are accessed by the audience. Video screens interfaces (smart TVs, mobile apps, and streaming devices) are essential to structure the circulation of content in digital contexts. These interfaces organize the interactions of the users, shape the appearances of the content, and determine the routes of how the audience can find and consume media. This has led to the creation of digital interfaces control as a prominent power source in the modern media economy (Hesmondhalgh and Lotz, 2020). Streaming platforms are also a combination of world bazaars that can connect the national media markets to the transnational digital spaces. The interplay between the global platform and national media markets is thus one of the central aspects of the streaming economy, and the development of digital services in various media environments (Wayne, 2020).

The growth of streaming services has increased the rivalry in online video services which are sometimes referred to as the streaming wars. Large corporations are in competition to gain subscribers by providing content that is exclusive, technological advancement and collaborations. This rivalry has transformed the way businesses operate in the media industry as companies are forced to consider subscription-based or hybrid revenue, where they combine advertising and subscription revenue (Lotz, 2021). As the streaming business keeps expanding, they are competing not only with the established television networks, but also amongst themselves to capture the audience. This situation of rivalry has influenced researchers to rethink how video services compete in digital markets and how platform-based distribution models transform the dynamics of media industries (Lobato and Lotz, 2021). The activity of streaming has been proposed to be one of the fastest-growing trends in media consumption where viewers and listeners prefer streaming not only TV but also music on the Internet (Lüders et al., 2021).

The objectives of the study include a descriptive analysis of performance of streaming platforms through the analysis of such important metrics as the number of subscribers, content expenditures and engagement. By examining these indicators in the different platforms, the article can contribute to a better understanding of the effect of streaming services on the establishment and competition of the contemporary digital media economy.

2. Methodology

2.1 Research Design

The type of research design applied in this paper is a quantitative descriptive research design which will attempt to examine the economic and engagement characteristics of key streaming services in digital media economy. The research is destined to explore the work of the platforms through the prism of such indicators as the number of subscribers, income, content spending, and response of viewers. The descriptive method would also be appropriate since the study aims to find patterns and comparative differences of platforms, and not the causal relationship of the experiment. Comparison of the different streaming services is done to provide an insight into how the development of the platform, the investment policies, and the interaction with users contribute to the revolution of the digital media market.

2.2 Data Source and Dataset Description

This is analyzed using a dataset of compiled secondary data which is constituted of platform level financial data, subscriber data, content investment data and engagement related data. The dataset combines various datasets related to each other such as platform financial records, platform summaries, industry-level economic indicators, and title-level estimates. These data points cover the information on streaming services like subscription services, hybrid subscription-advertising services, and digital live-streaming services. The most important variables are the number of subscribers, the revenue of the platform, the sum spent on content annually, the number of hours watched by people every year, the number of streams, and the number of streams simultaneously. Industry level data like advertisement revenue and sports rights expenditure has also been added to give some context on the digital media market overall. Collectively, these datasets can be used to compare the streaming platforms both in terms of scale, financial performance, and audience engagement (Rajbayar, 2024).

2.3 Data Preparation

The data was cleaned and made homogeneous with the variables before it was analyzed. The monetary value of revenue and content spending was transformed into the similar units, and the names of the platforms were unified across datasets. Descriptive statistics were also calculated by eliminating missing values when they were found to cause distortions in the results. The purged datasets were then combined to form one system that connected platform financial metrics with engagement metrics and content investment data.

2.4 Variables and Measurement

The platform scale and market reach were measured by the number of subscribers. Platform revenue is an economic outcome and an economic performance as a financial performance of subscription and advertisement models. Measures of content investment were determined through spending on content production and acquisition on the platform based on yearly spending. Indicators that were used to measure audience engagement included streaming hours, number of streams, number of hours watched, and peak concurrent viewership. All these variables summarize the level of economy, strategic investment, and interaction with the audience related to streaming platforms.

2.5 Analytical Approach

The analysis is based on descriptive statistics that are used to compare the distribution and differences of streaming platforms. Some of the measures that were used to analyze change in the size of subscribers, amount of revenue earned and scale of investment in content were averages and comparison between these platforms. There was also the analysis of the engagement metrics to be aware of the engagement trends and the level of activity of the platforms. Incorporating financial measurements with measurements of participation, the discussion provides a notion about the functioning of streaming platforms within the context of the broader digital media economy.

3.Results

3.1 Overview of Streaming Platform Market Structure

The descriptive analysis begins with a description of the economic system of the broadcasting platform market in terms of such critical indicators as the size of subscribers, revenues and costs on content. The statistics show that the disparity between various platforms is tremendous regarding market coverage and financial performance. The concentration of the digital media economy is clearly evidenced by major subscription-based streaming platforms exhibiting a considerable number of subscribers with smaller or hybrid platforms.

Table 1. Descriptive Statistics of Platform Economic Indicators

Variable	Mean	Median	Minimum	Maximum
Subscribers (millions)	92.4	65.0	8.0	260.0
Revenue (USD billions)	22.6	15.4	1.3	95.0

Content Spending (USD billions)	11.8	8.2	0.9	30.0
Streaming Hours (billions)	65.7	44.2	5.8	210.0
Peak Concurrent Viewers (millions)	9.8	7.5	0.8	30.0

Table 1 shows the level of statistics in various platforms. Specifically, the number of subscribers and the level of revenue are significantly different, which means that the market is not evenly concentrated. Also indicated by the descriptive values, bigger platforms are quite likely to be functioning at considerably higher rates of financial productivity and viewership as opposed to smaller or novice streaming offerings.

3.2 Subscriber Distribution Across Streaming Platforms

The subscriber size is one of the most valuable metrics of platform competitiveness on the digital media economy. The dataset reveals that the market is controlled by a number of large streaming platforms about the number of subscribers. The advantages of these platforms include early entry into the market, a system of global distribution, and a large content library. Social media that have high rates of subscribers are likely to have high financial performance and invest more in original content. Such a connection indicates that the growth of subscribers and the content investment is reinforcing in the streaming economy. The descriptive analysis will start with a description of the economic system of the broadcasting platform market in terms of such significant indicators as the number of subscribers, content revenues and costs. The statistics indicate that the difference between the different platforms is immense in terms of market coverage and financial performance.

Table 2. Subscriber Scale Across Major Streaming Platforms

Platform	Subscribers (millions)	Revenue (USD billions)
Netflix	260	95
Amazon Prime Video	200	70
Disney+	150	45
Hulu	50	12
Paramount+	40	9
Roku Channel	30	6
Twitch	8	1.3

According to the values in Table 2, various leading platforms have managed to maintain a leading number of subscribers and an increased rate of revenues. The benefits that come along with these platforms are that they do contain large content libraries, they have created distribution worldwide and are branded which makes them competitive within the streaming market.

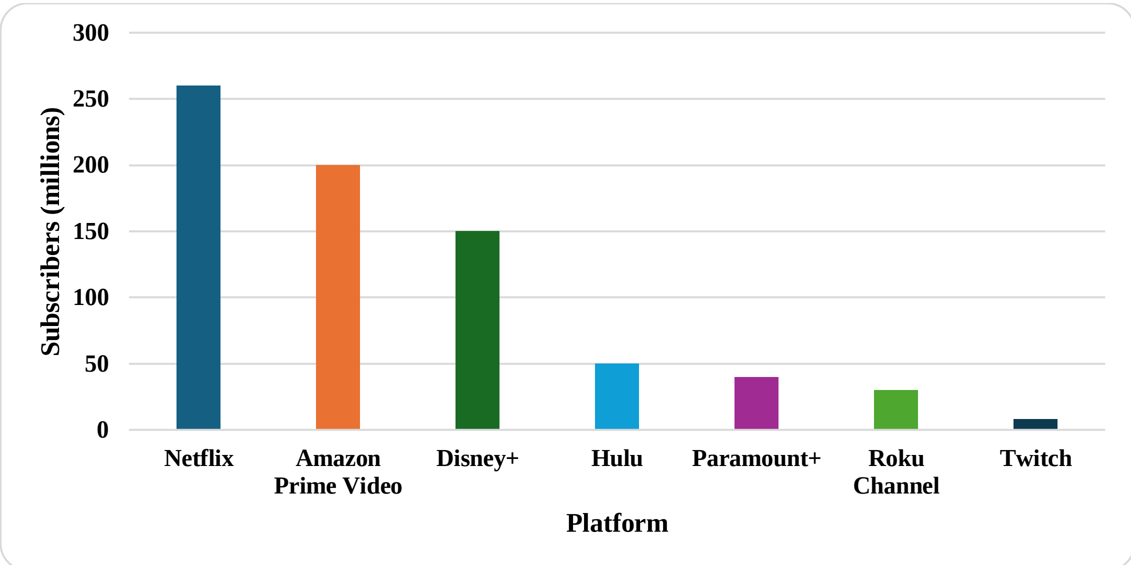

Figure 1. Subscriber Distribution Across Streaming Platforms

The subscribers are being concentrated in a few dominating platforms as illustrated in Figure 1. The largest services in the dataset are Netflix and Amazon Prime Video, and the smaller but growing platforms have smaller and growing numbers of subscribers. This tendency indicates the competitive pecking order of the streaming industry, where the number of large sites consists of most of the users.

3.3 Content Investment Patterns

One of the key competition strategies on the platform is content investment. The statistics indicate that those platforms with higher number of subscribers also incur a lot more in content creation and acquisition. The high content expenditures are associated with developing new programming, developing exclusive licensing programs, and international content distribution strategies. In order to compare platforms in terms of investment strategies, Table 3 shows a comparison between annual content spending and size of subscribers. The comparison can be used to explain the relationship between the financial investment in content and platform growth and user acquisition.

Table 3. Platform Content Spending and Subscriber Scale

Platform	Content Spending (USD billions)	Subscribers (millions)
Netflix	30	260
Amazon Prime Video	20	200
Disney+	18	150
Hulu	6	50
Paramount+	5	40
Roku Channel	2	30

The findings reported in Table 3 indicate that major streaming platforms invest a lot of financial sources in content development. Platforms that have the most number of subscribers also exhibit the biggest budgets on content and this illustrates how important content investment is in terms of keeping the platform competitive.

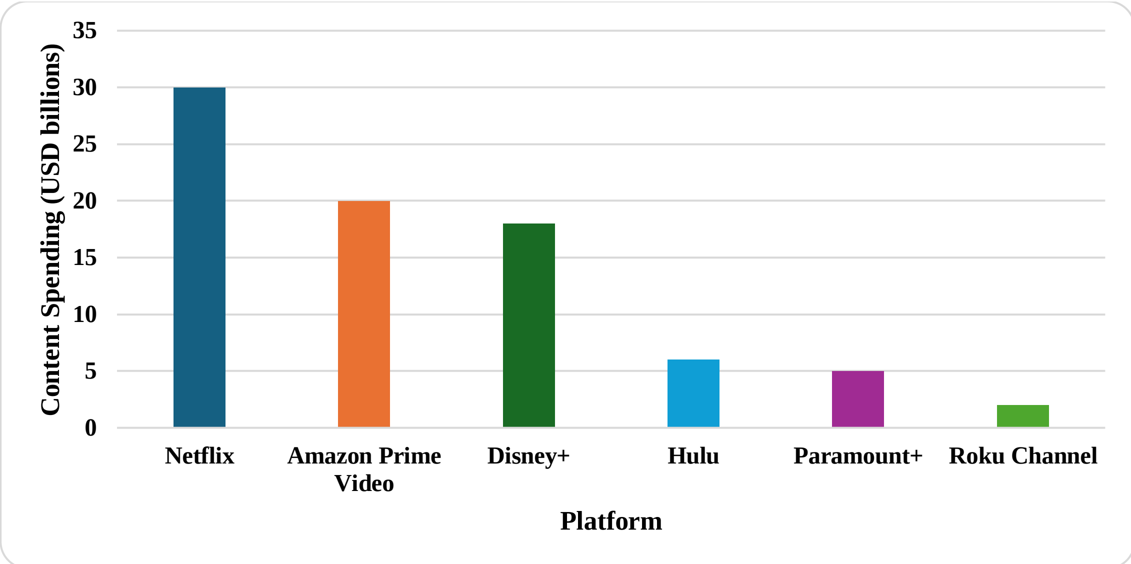

Figure 2. Content Spending Across Streaming Platforms

Figure 2 puts special emphasis on how the greatest streaming platforms have been concentrated in content investment. These platforms could create high-budget original content and obtain exclusive rights to content because of high levels of spending, which helps them increase their competitiveness within the digital media market.

3.4 Audience Engagement Metrics

Another important aspect of platform performance is the involvement of the audience. Streaming hours and maximum simultaneous viewers are parameters of engagement that allow a person to understand how viewers use streaming services and the extent to which the platforms can draw the attention of viewers. Table 4 summarizes the main indicators of audience engagement such as total time spent streaming as well as the maximum audiences in order to investigate the patterns of interaction between audiences on the platforms.

Table 4. Audience Engagement Indicators

Platform	Streaming Hours (billions)	Peak Concurrent Viewers (millions)
Netflix	210	30
Amazon Prime Video	160	20
Disney+	130	18
Hulu	45	9
Paramount+	35	7
Twitch	60	25

The values in Table 4 show that there exist variations in the audience behavior in streaming platforms. Although the subscription-based platforms have the advantage of providing a great deal of total viewing hours, the live-streaming platforms exhibit greater instances of concurrent viewing since the audience participates in the live content.

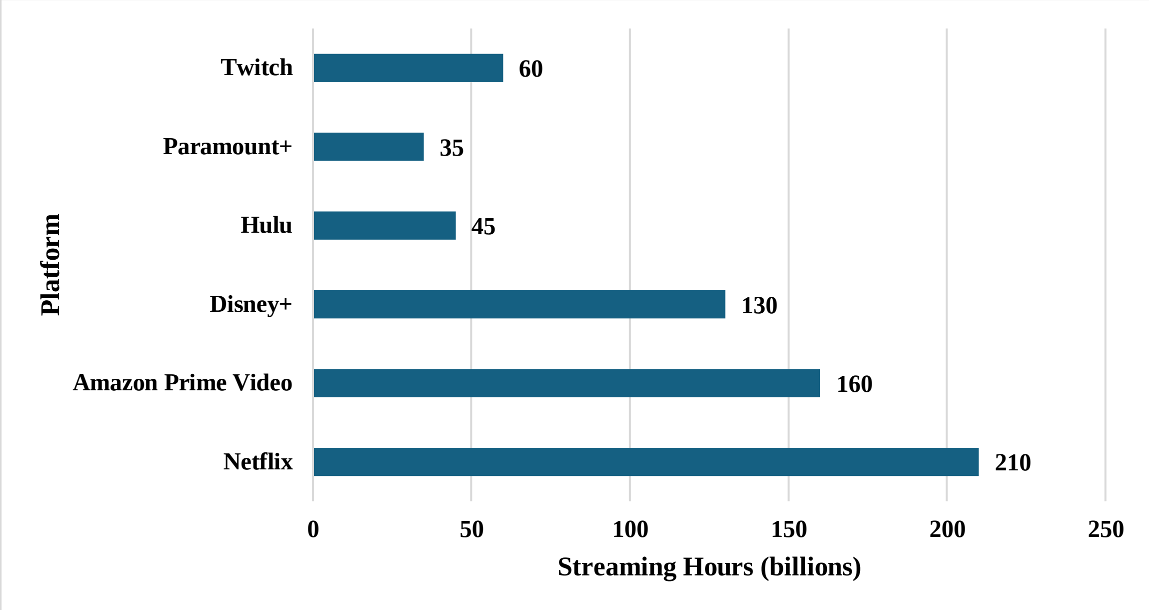

Figure 3. Streaming Hours Across Platforms

As shown in Figure 3, the attention which is drawn by each platform among the audience is different. On the total streaming time, large subscription platforms are dominant due to their global subscriber base and vast content pool.

3.5 Relationship Between Content Spending and Audience Engagement

The analysis of both investment content and engagement metrics implies that the stronger the content expenditure is, the more likely the audience engagement results can be high. Platons that invest more in original content are more likely to produce more streaming hours and viewers. To elaborate on this correlation, the figure below shows the correlation between the amount spent on platform content and aggregate time streaming, which explains how investment policies can affect audience interaction.

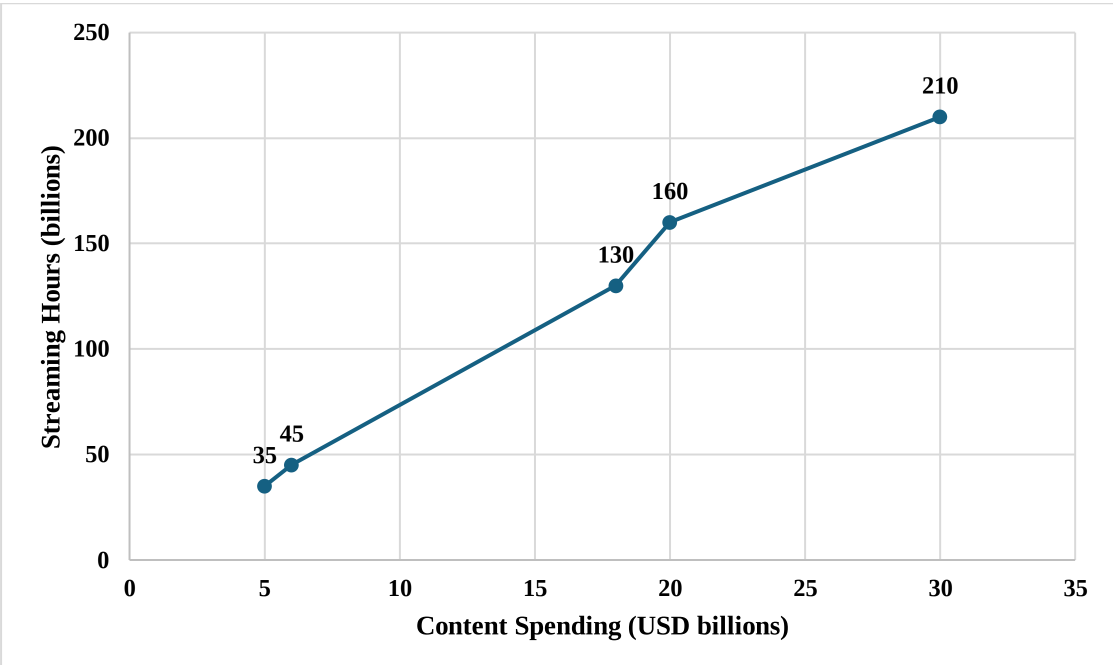

Figure 4. Relationship Between Content Spending and Streaming Hours

The trend that is shown in the Figure 4 is that there is a positive relationship between engagement intensity and content investment. The platforms with the most content spending rates are also the most successful in engagement performance implying that long-term investment in content development takes a leading part in attracting and retaining viewer attention in the digital media economy. The results shed light on the interdependence of your subscriber base, financial investment and involvement of the audiences in the determination of the competitive aspects of the streaming sites. The analysis shows that the leading platforms have incorporated strong figures of subscribers, content spending, and high audience involvement size, which justify their leading positions in the dynamic digital media landscape.

4. Discussion

The results of the research point to the increased significance of streaming services as the core participants of the digital media economy. The findings explain that there are significant differences in the number of subscribers, financial investment, and engagement levels across platforms, which indicate that there are some differences in the platform strategies and market positions. The patterns depict the nature of streaming services as infrastructures of integrated media organizing content production, distribution, and interaction with the audience. The growth of streaming service in various media industries also reinforces the thesis of streaming being a cross-industry logic that dictates the media production/distribution activities within media industries like television, music, and publishing (Sundet and Colbjjornsen, 2021).

The findings also indicate the rate of subscriber concentration in a few large streaming services, which indicates that the strategies of global expansion are of paramount importance in the determination of platform success. The key to creating a competitive advantage of large streaming platforms is due to their expansion to foreign markets, as well as simultaneously tailoring content strategies to domestic markets. The trend is indicative of the wider industry of global streaming services that work within various cultural and regulatory settings. A cross-national comparison of the experiences of subscription video-on-demand services shows that streaming platforms grow through the incorporation of global distribution systems with localized content services, which allows them to effectively compete in various media markets in different countries (Wayne and Castro, 2021). The prevalence of a small number of large platforms that is being witnessed in the dataset also speaks to the multinational nature of modern streaming platforms. Streaming companies work in various regions and create the strategies balancing global growth with regionalization. These processes portray streaming services as multinational media businesses that align international distribution networks and regionalize content strategies to the audience (Lotz, 2021).

Another analysis shows that the more significant the subscriber base the platform is the more it is likely to invest in content production and acquisition. This correlation between the number of subscribers and content expenditure suggests that content investment is the key component of the competitive strategies of streaming platforms. Large streaming companies spend significant financial resources on creating original content to distinguish their services and win subscribers. This trend is consistent with the general industry debate regarding the contribution of audience data and content performance to platform strategies. The streaming services are more and more dependent on the analytics of the audience to make the decisions concerning content production, marketing, and distribution. Such data-based approaches enable platforms to discover what is popular and anticipate preferences of the audience, as well as make better content investment choices, according to the patterns of user behavior (Wayne, 2022).

The interaction measurement tools discussed in this paper give an understanding of the ways in which streaming services attract and maintain the attention of viewers. Social networks that have more subscribers tend to reflect greater streaming hours and viewer interaction, which implies that the engagement of the audience is strictly connected with the size of the platform. Nevertheless, the findings also indicate that the level of engagement differs among platforms, with subscription video services and live streaming being the most different ones. The analysis of user engagement is essential towards elucidating the further expansion of streaming websites. The empirical studies of OTT platform adoption indicate that consumers would subscribe and maintain the use of streaming services depending on a factor of both content accessibility and convenience and a tailored viewing experience. These aspects also lead to long-term use of the platform and their inclination to justify their choice of long-term streaming subscriptions (Menon, 2022).

Concurrently, the strategic application of big data presents fresh challenges to media research and transparency in the industry. Streaming platforms usually have a strong grip on data about audiences, and it is hard to analyze the actual popularity and impact of shows by the researchers and outside observers. This ambivalence of the data transparency has become the hallmark of the streaming industry with sites relying on data analytics and, at the same time, restricting access to audience metrics to the population (Van Es, 2023). The increasing role of audience analytics represents a larger power distribution to digital platforms that manage the process of measuring and interpreting user actions. Popularity-based metrics enable platforms to influence media visibility and exposure to an audience by ranking content based on their capacity to produce more engagement levels. Consequently, streaming services are becoming a more frequent factor in the selection of what types of media content have a significant role in digital information space (Dodds et al., 2023).

Studies on the OTT platform strategies also show that one of the greatest determinants of platform performance is content spending. Social networks that are heavy investors of original content and exclusive material have higher chances of positioning in the market and user interaction. These are the strategic investments that enable streaming services to stand out of the increasingly competitive market environment where viewers can access more digital video services (Park and Kwon, 2023). These findings indicate that leading platforms are able to stay on the top of the market by using massive subscriber base and large content expenditure with advanced audience analytics tools. These forces back the growing salience of streaming platforms as significant agents in the remaking of digital media, whereby technological infrastructure, information-based decision making and distribution global network are radically remaking the production, distribution and consumption of media content.

5. Conclusion

The role of streaming sites in the formation of the modern digital media economy by analyzing key pointers, such as the number of subscribers, content costs, and viewership data. The results confirm that streaming services are currently the major actors in the media industry altering the classical distribution and consumption patterns of content. The review revealed that platforms vary significantly regarding subscriber size, financial health and viewer traffic. The larger sites are likely to be better placed in the market because they command sufficient subscribers and also invest more in the content. The findings also show that strategic content spending is significant in drawing and retaining audiences. The sites investing greater resources in original content and exclusive information also tend to generate higher engagement rates, meaning a strong relationship between the methods of investment and the priority of audiences. Moreover, the streaming hours and the amount of viewers simultaneously are also significant engagement metrics that can be used to know how the viewers can use digital media services. The article emphasizes the dependencies of the scale of the platform, capitalization, and viewer behavior in the evolving streaming economy. As streaming services are becoming increasingly popular within the global context, the relevance of such dynamics in the context of the study of the future of the digital media economy is only going up. The impact of the platform strategies on the audience behavior and competition in the media industry should also be studied further, with more longitudinal data and other predictors of the engagement.

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