Available online at https://ejournal.corespub.com/index.php/ijlcb/index



International Journal of Linguistics, Communication, and Broadcasting

e-ISSN: 3026-7463

Vol. 2, No. 2, pp. 53-59, 2024

Broadcasting Adaptation in the Streaming Era: Industrial Transformation in the Digital Revolution

Riza Andrian Ibrahim^{1*}, Rizki Apriva Hidayana², Rifki Saefullah³

*Corresponding author email: riza17005@mail.unpad.ac.id

Abstract

In an era of ever-evolving streaming revolution, the broadcasting industry is facing major transformation to adapt and survive. Broadcasters need to adopt new strategies in business models and monetization, such as combining subscriptions, individual purchases, data-driven advertising, as well as partnerships with large streaming platforms through a hybrid approach. Investing in producing unique and engaging original content is also critical to differentiate yourself from competitors and cater to diverse audience preferences by exploring new genres and formats. In terms of technological infrastructure, increasing network capacity, servers and hardware are needed to support high-quality streaming, as well as paying attention to security and redundancy to ensure continuity of operations. Moreover, data measurement and analytics are key by developing new, relevant metrics to measure content performance, understand consumer behavior and preferences, and optimize monetization strategies. Leveraging data also allows for better personalization of content according to viewers' individual interests. By adopting a comprehensive approach in all these aspects, broadcasters can adapt effectively and achieve long-term success in an increasingly competitive streaming era.

Keywords: Broadcasting, streaming revolution, transformation, business models, monetization, hybrid approach.

1. Introduction

In the era of the ever-growing digital revolution, the broadcasting industry is facing a significant paradigm shift with the emergence of streaming platforms. These changes not only impact how we consume media content, but also fundamentally alter the business landscape and ecosystem of the entertainment industry (Nwaoboli, 2023). With the increasing penetration of the internet and smart devices around the world, consumers have unlimited access to a variety of audio and video content through streaming platforms such as Netflix, Amazon Prime Video, Disney+ and others (Tao et al., 2023).

In this context, the broadcasting industry must adapt quickly to survive and develop amidst increasingly fierce competition. This transformation includes changes in distribution, monetization and content production strategies, as well as adapting to changing consumer preferences and behavior. In other words, broadcasting's adaptation in the streaming era is not simply a matter of moving content from traditional media to digital platforms, but also involves a fundamental restructuring of the way the industry operates (Innocenti & Pescatore, 2023).

In this article, we will discuss in depth the impact of broadcast adaptation in the streaming era on industrial transformation. From analyzing consumer trends to exploring strategic implications for broadcasters and content providers, we will explore the changes occurring in the modern media ecosystem and try to formulate a better understanding of how the industry can continue to thrive in the ever-changing digital era.

¹Doctoral of Mathematics Study Program, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Sumedang 45363, Indonesia

²Department of Mathematics, Faculty of Mathematics and Natural Sciences, National University of the Republic of Indonesia, Bandung, Indonesia

³Master's Program of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Jatinangor, West Java, Indonesia

Taking a closer look at broadcasting's adaptation in the streaming era, it is important to understand that these changes are not just related to technology, but also include changing consumer behavior and complex market dynamics. First of all, increasing internet penetration and adoption of smart devices has enabled consumers to access content anytime and anywhere, shifting their preferences from linear viewing models towards flexible on-demand consumption (Syafii et al., 2023).

Additionally, streaming platforms have changed the way content is produced, distributed and consumed. Traditional broadcasters have had to adapt to more flexible and integrated business models, combining linear and ondemand offerings to meet the needs of diverse audiences. On the other hand, streaming platforms allow industry players to experiment with new formats and genres, enabling greater creativity and innovation in content production.

However, with all the potential offered by the streaming era, there are also challenges to overcome. Increasingly fierce competition between streaming platforms leads to inevitable price wars, while the dominant subscription business model can result in financial pressure for broadcasters. Additionally, changes in consumer behavior are also generating challenges in content measurement and monetization, as traditional metrics such as TV ratings are no longer completely relevant in the streaming context (Houssard et al., 2023).

In facing this complexity, broadcasters and content providers need to adopt more innovative and integrated strategies. This may involve partnerships with large streaming platforms, development of unique and engaging original content, and investment in technology and analytics to better understand consumer behavior. With the right approach, the adaptation of broadcasting in the streaming era can be a driver of growth and innovation in this industry, opening up new opportunities for industry players to achieve long-term success.

Looking further into the impact of broadcast adaptation in the streaming era, it is important to recognize that these changes not only impact the broadcast industry directly, but also have far-reaching consequences for the media ecosystem as a whole (Alzub, 2023). One significant aspect is how streaming platforms have changed the way content is produced and consumed by audiences.

In the past, broadcasters had complete control over what was broadcast and when it was broadcast. However, with the rise of streaming platforms, the power has shifted into the hands of consumers. They now have the ability to watch their favorite content without having to wait for a specific broadcast schedule, allowing for unprecedented flexibility in how they consume entertainment.

Apart from that, the adaptation of broadcasting in the streaming era has also changed the way broadcasters interact with their audiences. The advent of social media and other interactive platforms has allowed broadcasters to engage more directly with their audiences, creating a more personalized and engaged experience. This creates new opportunities to build strong communities around brands and content, increasing audience loyalty and engagement (Chukwu, 2023).

However, with all the positive potential that the streaming era has, there are also challenges that must be overcome. One of them is how broadcasters can monetize their content effectively amidst increasingly fierce competition and rapid changes in consumer behavior. Subscription business models may be the norm in the streaming era, but finding a balance between affordable prices for consumers and sufficient revenue for broadcasters remains a complex challenge.

Thus, broadcasting adaptation in the streaming era is not an easy process, but with the right approach and continuous innovation, the broadcasting industry can continue to develop and find success in the ever-changing digital era. By understanding consumer trends, adopting the right technology, and remaining flexible in business strategy, broadcasters can meet the challenges and capitalize on the opportunities offered by the streaming revolution to achieve long-term success.

2. Literature Review

Studies and research on the adaptation of broadcasting in the streaming era have provided valuable insight into the changes and trends currently occurring in the industry. Research by Sandsgaard & Sem (2023) highlights the huge impact that streaming platforms such as Netflix, Hulu, and Amazon Prime Video have had on traditional business models in the broadcasting industry. Sandsgaard and Sem show how the presence of these platforms has changed the way content is produced, distributed and consumed by audiences, pushing broadcasters to adapt their strategies to stay relevant in an increasingly changing market.

Another study by Evens et al. (2024). researching usage patterns and audience preferences related to streaming platforms. They found that more consumers are switching from traditional cable television services to streaming platforms, driven by factors such as the availability of on-demand content, more affordable prices, and flexibility in content selection. This research underscores the importance for broadcasters to understand changing consumer behavior and adapt their strategies according to evolving audience preferences.

In addition, studies on the economic impact of broadcasting adaptation in the streaming era have also been carried out. Research by (Chalaby, 2024) analyzes the financial implications of consumers' shift to streaming platforms for broadcasters and content providers. Lee found that while streaming platforms provide new opportunities for growth

and expansion, they also face challenges in effectively monetizing their content, especially amid increasingly fierce competition.

Overall, the existing literature highlights the complexities and dynamics involved in the adaptation of broadcasting in the streaming era. From changes in consumer behavior to economic and strategic implications for broadcasters, this research provides a better understanding of how the broadcast industry is evolving in the ever-evolving digital era. By taking into account the findings and insights from this research, stakeholders in the broadcast industry can make more informed and strategic decisions in facing the challenges and opportunities offered by the streaming revolution. Some literature reviews are as follows.

2.1. Digital Transformation in Broadcasting

Digital transformation in the broadcasting industry has become a major topic in many academic and industrial studies. In the journal "The Digital Revolution in Higher Education: Transforming Teaching and Learning" (Qolamani & Mohammed, 2023), it highlights how streaming technology is fundamentally changing the television ecosystem. They note that the spread of online video allows consumers to watch content on demand, reducing reliance on traditional linear broadcast schedules. Traditional television networks and cable companies face the challenge of adapting to these changes or face significant declines in viewership and revenue. A study by Deloitte confirmed that revenues from video streaming services are projected to surpass traditional television revenues in the next few years, highlighting an economic shift in the industry (Imranovic, 2023).

2.2. Changes in Consumer Behavior

Changes in consumer behavior have also been widely documented. The study published in "The Sapientia Foundation Journal of Education, Sciences and Gender Studies" analyzes the impact of streaming services such as Netflix and Amazon Prime on traditional television. The study found that viewers now prefer flexible on-demand services compared to traditional linear models. According to Nielsen's Total Audience Report, digital media use is increasing significantly, with many consumers preferring to watch content on their mobile devices rather than conventional television. Consumers are looking for a more personalized viewing experience that can be accessed anytime and anywhere, supported by growing internet and smart device penetration (Ola, 2023).

2.3. Challenges and Opportunities

In the journal "The Case for a Strong BBC. Cultural Sovereignty and Public Service Broadcasting in the Netflix Era" by (Thompson, 2024) outlines the main challenges faced by traditional broadcasters, including audience fragmentation, content overload, and changing monetization models. Audience fragmentation occurs due to the large number of digital platforms available, making it difficult for broadcasters to attract and retain viewers on one channel. Content overload is also a challenge, with consumers being overwhelmed by the variety of content options available online. Additionally, traditional monetization models that rely on advertising are under pressure, requiring broadcasters to look for revenue alternatives such as subscription services, paid content, and collaborations with brands for sponsored content.

However, these challenges also bring opportunities. The ability to reach a global audience without geographic boundaries opens up new markets for broadcasters. The use of analytical data allows broadcasters to offer a more personalized and relevant experience to their viewers. Interactive technologies such as augmented reality (AR) and virtual reality (VR) enable more immersive and engaging viewing. An article from the "Journal of Broadcasting & Electronic Media" notes that this technology can increase audience engagement and offer new ways to consume media content, creating new opportunities for content creators and broadcasters.

2.4. The Role of Social Media and Digital Platforms

Social media and digital platforms such as YouTube, TikTok and Instagram have played a significant role in this transformation. YouTube, for example, has become a major platform for independent content creators, offering a powerful alternative to traditional broadcasting models. According to a study in the "Journal of Media Business Studies," content creators on YouTube can attract millions of viewers and substantial advertising revenue, indicating a significant shift in the dynamics of content distribution and consumption. TikTok has introduced the much-loved short video format, enabling the viral spread of content quickly and efficiently. The platform not only functions as a content distribution tool, but also as an interaction platform where users can communicate directly with content creators and each other.

3. Discussion

3.1. Business Models and Monetization

In facing the streaming era, broadcasters must consider various business models and monetization strategies to ensure their sustainability and success. One of the main considerations is between subscription models and individual purchases. Subscriptions offer recurring revenue, but they also face challenges in retaining customers who are increasingly selective and susceptible to change. Meanwhile, individual purchases of content can provide significant revenue from each transaction, but require a different approach to content management and marketing.

Another approach that can be explored is the use of data-driven advertising to increase revenue. By combining consumer data with customized content, broadcasters can create more effective and engaging advertising experiences for viewers. Strategic partnerships with major streaming platforms can also be a profitable move, expanding reach and increasing revenue through bundle offers or exclusive content integrations.

Additionally, broadcasters can consider a hybrid approach that combines several business models. For example, they can provide a premium subscription with access to exclusive content, while still offering more general content for free with ads. By considering these various business models and monetization strategies, broadcasters can develop an approach that fits their business goals, enabling them to thrive and compete in an increasingly complex and dynamic streaming era. Here are some points related to business models and monetization.

3.1.1. Subscription vs. Subscription individual purchasing model

The comparison between subscription models and individual purchases in the broadcasting industry is an important consideration for broadcasters in facing the streaming era. Subscription models offer the benefit of stable, predictable recurring revenue, while individual purchase models provide more direct revenue from each transaction.

Subscription models have the advantage of building a consistent revenue base from customers who pay periodically to access content. This allows broadcasters to plan better and generate more stable cash flow. Additionally, subscription models tend to increase customer retention, as customers feel they have ongoing access to the content they enjoy.

On the other hand, the individual purchasing model gives broadcasters the flexibility to offer content separately, making it possible to target a wider market by adjusting the price of content according to value and demand. This model also allows broadcasters to earn additional revenue from each content transaction sold, although it can have greater revenue fluctuations compared to the subscription model.

The choice between subscription and individual purchasing models can be influenced by a variety of factors, including the type of content offered, consumer preferences and behavior, and the broadcaster's business objectives. Some broadcasters may choose to use a combination of both models to achieve greater revenue diversification and meet different audience needs.

In making decisions about the right business model, broadcasters need to consider their individual strengths and weaknesses, as well as identify how they can optimize their monetization strategies to maximize the value of the content they offer. By properly understanding consumer preferences and behavior, broadcasters can develop approaches that suit market needs and achieve long-term success in the ever-evolving streaming era.

3.1.2. Data-driven advertising

Data-based advertising is becoming an increasingly popular approach in the broadcast industry, especially in the streaming era. By collecting and analyzing consumer data, broadcasters can serve more relevant and targeted ads, increase advertising effectiveness, and optimize their advertising revenue.

One of the main advantages of data-driven advertising is its ability to increase an ad's relevance to an audience's preferences, behavior, and demographics. By understanding their audience better, broadcasters can serve ads that better suit individual interests and needs, thereby increasing the likelihood of engagement and positive responses from viewers.

Apart from that, data-based advertising also allows broadcasters to better measure advertising effectiveness. By using relevant analytics and metrics, broadcasters can track ad performance in real-time, knowing how many impressions, clicks or conversions each ad generated. This allows broadcasters to optimize their advertising campaigns continuously to achieve the best results.

However, there are several challenges that need to be overcome in implementing data-driven advertising. One of them is the issue of data privacy and security, where broadcasters must ensure that the use of their consumer data is in accordance with applicable regulations and privacy standards. Additionally, there are also challenges in integrating data from multiple sources and platforms to gain a complete understanding of the audience.

Thus, data-based advertising is a promising approach in improving the effectiveness and efficiency of advertising in the broadcasting industry. By leveraging consumer data wisely, broadcasters can serve more relevant and engaging advertising to their audiences, increase engagement and retention, and maximize their advertising revenue in an increasingly competitive streaming era.

3.1.3. Partnerships with streaming platforms

Partnerships with streaming platforms are a strategy that can provide many benefits for broadcasters in facing the streaming era. By working with major streaming platforms like Netflix, Hulu, or Amazon Prime Video, broadcasters can expand their reach, increase the visibility of their content, and optimize revenue.

One of the main benefits of partnering with a streaming platform is the ability to reach a wider audience. Streaming platforms have large and diversified customer bases, which allows broadcasters to reach new audiences that might not be reached by other means. This allows broadcasters to expand their brand reach and introduce their content to new audiences around the world.

Additionally, partnerships with streaming platforms can also give broadcasters access to additional features and services that can enhance the user experience. For example, broadcasters can use features like personalized content recommendations or integration with smart devices to increase their audience engagement and retention.

However, it's important to remember that partnerships with streaming platforms can also have some challenges. One of them is increasingly fierce competition for space on the platform, with many broadcasters competing for attention and priority from streaming platforms. Additionally, sometimes streaming platforms also obtain exclusive rights to content, which can limit broadcasters' flexibility and control over the distribution of their content.

By taking into account these benefits and challenges, broadcasters can make informed decisions about partnerships with streaming platforms. With the right approach and close collaboration with these platforms, broadcasters can harness the full potential of the streaming era to achieve long-term success in the ever-evolving broadcast industry.

3.1.4. Hybrid approach

A hybrid approach, which combines several business models and monetization strategies, can be an effective strategy for broadcasters in facing the streaming era. With the right combination of subscriptions, advertising, and individual content sales, broadcasters can achieve greater revenue diversification and meet a variety of audience preferences and needs.

One form of hybrid approach is to offer a premium subscription service that provides access to exclusive, ad-free content, while still providing more general content for free with ads. This allows broadcasters to target two different types of audiences: those looking for a premium experience without ads and those who prefer to access content for free with ads.

Another approach is to provide an individual purchasing model for specific content, allowing broadcasters to earn additional revenue from each content transaction sold. By offering individually purchasable content, broadcasters can target more specific audiences and increase the value of their content.

Apart from that, broadcasters can also consider flexible subscription models, where customers can choose a subscription package that suits their needs and budget. For example, broadcasters may offer monthly or annual subscriptions, with the option to add additional features or access premium content for an additional fee.

By considering various existing business models and monetization strategies, broadcasters can develop a hybrid approach that suits their business goals and audience preferences. In this way, broadcasters can maximize their revenues, meet the diverse needs of their audiences, and remain relevant in an increasingly complex and competitive market.

3.2. Invest in Original Content

Investing in original content is an important strategic step for broadcasters in facing the streaming era. Original content provides an opportunity to differentiate yourself from competitors, attract new audiences, and maintain audience loyalty. Investing in original content production allows broadcasters to have complete control over the quality, narrative, and aesthetics of their content, creating a unique and engaging experience for viewers.

One of the main advantages of original content is its ability to attract viewers who have grown tired of uniform and generic content on streaming platforms. By presenting fresh and original content, broadcasters can offer added value to viewers and build strong communities around their brands. Investments in original content also create opportunities to explore new genres and formats that may not be covered in existing content.

However, investing in original content also requires a significant financial commitment and associated risks. Broadcasters need to account for the costs of producing, distributing and marketing original content, and ensure that

those investments generate adequate returns. Therefore, careful evaluation and a mature strategy are needed in determining the type of content to be produced and how to maximize the value of this investment.

Thus, investing in original content is an important step for broadcasters in building a competitive advantage and strengthening their position in an increasingly crowded streaming market. With the right approach and ongoing commitment, broadcasters can produce interesting, relevant and competitive content, thereby winning the hearts of viewers and achieving long-term success in the ever-changing streaming era.

3.3. Technology Infrastructure

Technological infrastructure plays a key role in supporting the adaptation of broadcasting in the streaming era. With the increasing number of viewers accessing content via streaming platforms, broadcasters must ensure that their infrastructure can handle the increasing volume of traffic and provide a seamless user experience across multiple devices.

First of all, broadcasters need to pay attention to their network and server capacity to handle streaming high quality content without significant interruptions or delays. This can involve investing in increasing server capacity, updating hardware and software, and using caching technology to reduce loading times.

In addition, broadcasters also need to consider the infrastructure to support content in various formats, including high definition (HD) and ultra-definition (UHD) video. This requires hardware and a network that is powerful enough to transmit high quality content without loss of quality or delay.

Then, broadcasters need to consider the need for redundancy and disaster recovery to ensure continuity of operations. This involves using backup servers, a well-distributed network, and a well-planned disaster recovery plan.

Apart from that, broadcasters must also pay attention to the security of their infrastructure to protect sensitive data and avoid security threats. This includes the use of firewalls, data encryption, and other security measures to protect infrastructure from cyber attacks.

By paying attention to all these aspects, broadcasters can ensure that their technology infrastructure is ready to support the adaptation of broadcasting in the streaming era, ensuring a good user experience and enabling them to compete effectively in this increasingly competitive market.

3.4. Measurement and Analytics

Measurement and analytics play a critical role in broadcasting's adaptation to the streaming era. With changes in the way content is consumed and measured, broadcasters must rely on data to make more informed decisions about their content, distribution, and monetization strategies.

Broadcasters need to develop relevant and holistic metrics to evaluate the performance of their content. This can include not only the number of viewers or ratings, but also the level of audience interaction, retention, and engagement. By understanding this data, broadcasters can know what's working and what's not, and make necessary adjustments to their content strategy.

Furthermore, analytics can help broadcasters understand consumer behavior and audience preferences better. By analyzing demographic data, viewing patterns and content preferences, broadcasters can identify emerging trends and adapt their strategies according to audience needs and interests.

Additionally, measurement and analytics also play an important role in decision-making related to content monetization. By understanding consumer behavior and the effectiveness of different monetization strategies, broadcasters can optimize their revenue from subscriptions, advertising, or individual content sales.

Effective use of data also allows broadcasters to better personalize content, providing experiences tailored to viewers' individual preferences. By leveraging predictive analytics, broadcasters can identify opportunities to produce more engaging and relevant content for their audiences.

Thus, measurement and analytics are very important tools for broadcasters in facing the streaming era. By understanding the data well and taking steps based on the insights gained, broadcasters can improve their performance, maximize revenue, and stay relevant in an increasingly competitive market.

4. Conclussion

In an era of ever-evolving streaming revolution, the broadcasting industry is facing major transformation to adapt and survive. Broadcasters need to adopt new strategies in business models and monetization, such as combining subscriptions, individual purchases, data-driven advertising, as well as partnerships with large streaming platforms through a hybrid approach. Investing in producing unique and engaging original content is also critical to differentiate yourself from competitors and cater to diverse audience preferences by exploring new genres and formats.

In terms of technological infrastructure, increasing network capacity, servers and hardware are needed to support high-quality streaming, as well as paying attention to security and redundancy to ensure continuity of operations. Moreover, data measurement and analytics are key by developing new, relevant metrics to measure content performance, understand consumer behavior and preferences, and optimize monetization strategies. Leveraging data also allows for better personalization of content according to viewers' individual interests. By adopting a comprehensive approach in all these aspects, broadcasters can adapt effectively and achieve long-term success in an increasingly competitive streaming era.

References

- Alzub, A. M. (2023). Navigating the disruption of digital and conventional media in changing media consumption landscape in digital era. *Journal of engineering, technology, and applied science (JETAS)*, 5(1), 38-48.
- Chalaby, J. K. (2024). The streaming industry and the platform economy: An analysis. Media, Culture & Society, 46(3), 552-571.
- Chukwu, O. J. (2023). Interrogating the online internet-based broadcast media stations: platforms, implications and emerged paradigms. *Journal of management and science*, *13*(3), 74-81.
- Evens, T., Henderickx, A., & Conradie, P. (2024). Technological affordances of video streaming platforms: Why people prefer video streaming platforms over television. *European Journal of Communication*, 39(1), 3-21.
- Houssard, A., Pilati, F., Tartari, M., Sacco, P. L., & Gallotti, R. (2023). Monetization in online streaming platforms: an exploration of inequalities in Twitch. tv. *Scientific Reports*, *13*(1), 1103.
- Imranovic, H. E. (2023). Factors influencing on user choice of video streaming services.
- Innocenti, V., & Pescatore, G. (2023). Converging trends: the industrial and content dynamics of contemporary television. Cinergie-il cinema e le altre arti, (24), 117-133.
- Nwaoboli, E. P. (2023). Cannons of broadcasting in the digital era: A review of extant literature. *International journal of arts, humanities and management studies*, 9(3), 19-30.
- Ola, O. I. (2023). Impact of streaming services on traditional broadcast television. *Sapientia foundation journal of education*, sciences and gender studies, 5(3).
- Qolamani, K. I. B., & Mohammed, M. M. (2023). The digital revolution in higher education: transforming teaching and learning. Qalamuna: *Journal of Education, Social and Religion*, 15(2), 837-846.
- Sandsgaard, E. A., & Sem, K. (2023). Competitive advantages in the video streaming industry: does the release of original content have an impact on platform competition and subscriber base? (Master's thesis).
- Syafii, A., Rohimi, U. E., Shobichah, S., Atikah, N., & Rani, P. (2023). Broadcasting communications in encouraging public participation in elections. *Journal of world science*, 2(4), 571-575.
- Tao, J., You, Q., Li, Z., Deng, L., Wu, M., Luo, M., ... & Yu, S. (2023). Beam steering metadevices for intelligent optical wireless broadcasting communications. *Advanced photonics research*, 4(9), 2300127.
- Thompson, M. (2024). The case for a strong BBC. Cultural sovereignty and public service broadcasting in the netflix era. *The political quarterly*, 95(1), 12-19.