



# From the Stadium to the Digital Archive: Applying Web Analytics Methods from the Galleries, Libraries, Archives, and Museums Sector to Enhance Digital Fan Engagement and Showcase Sporting Heritage

Maria Christodimitropoulou<sup>1</sup>, John Douvis<sup>2</sup>, Emmanouil Choustoulakis<sup>3</sup>,  
Panagiotis Alexopoulos<sup>4</sup>, Panagiota Antonopoulou<sup>5</sup>

<sup>1,2,3,4</sup>Department of Sports Organization and Management, University of Peloponnese, Sparta, Greece  
<sup>1</sup>Corresponding Author

## Abstract

Digital transformation has radically redefined the operations of sports organizations, converting them from mere providers of athletic spectacles into complex managers of cultural heritage. In the contemporary digital landscape, these organizations maintain vast digital archives, online collections, and content platforms, operating in ways analogous to Galleries, Libraries, Archives, and Museums institutions. However, academic research has not sufficiently explored the application of methodologies from the Galleries, Libraries, Archives, and Museums sector to the management of these digital assets. This study proposes a conceptual framework that connects sports management with the practice of Web Analytics in the Galleries, Libraries, Archives, and Museums domain. It is argued that Web Analytics constitute a critical strategic tool for understanding fan behavior (as an analogue to Galleries, Libraries, Archives, and Museums visitors), optimizing digital content strategy, and measuring impact. The role of Artificial Intelligence, and particularly Generative Artificial Intelligence, in personalizing the fan experience and enhancing content is analyzed, while also examining the challenges related to integrating heterogeneous data and ethical issues. Through the analysis of case studies (e.g., International Olympic Committee, NFL, top European clubs), the study demonstrates how adopting a data-driven approach, inspired by the Galleries, Libraries, Archives, and Museums sector, can lead to smarter, more effective, and human-centric sports organizations, enhancing value for both fans and the organizations themselves.

**Keywords:** Double Pendulum, Numerical Solution, Simulation, Behaviors of the System

Received 08 Apr., 2026; Revised 12 Apr., 2026; Accepted 18 Apr., 2026 © The author(s) 2026.  
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## I. Introduction

The sports industry is undergoing a period of radical digital transformation, which is reshaping every aspect of its operation, from athlete performance to strategic management and commercial development [1,2]. The global sports market, projected to exceed US\$623 billion by 2027 [2], is increasingly dependent on digital technologies to enhance competitiveness and create new revenue streams [3]. In this context, sports organizations, clubs, federations, and governing bodies - have evolved into producers and managers of a vast volume of digital content. Online collections, virtual exhibitions, research portals, and digital archives that include historical videos, photographs, statistics, and records are now an integral part of their identity [4].

This shift towards digital curation and historical preservation places sports organizations on a convergent trajectory with traditional cultural heritage institutions, known as Galleries, Libraries, Archives, and Museums. Like Galleries, Libraries, Archives, and Museums institutions, sports organizations are called upon to fulfill a public mission, disseminating knowledge and preserving their cultural heritage for a global audience. Web Analytics emerge in this context as a critical feedback mechanism, providing deep insights into the storage, access, and use of these digital resources.

Despite their importance, a significant research gap exists: while the use of sports analytics to improve on-field performance has been extensively studied [5,6,7], the application of Web Analytics for the strategic management of digital sporting heritage and the enhancement of fan engagement, drawing methodologies from

the mature Galleries, Libraries, Archives, and Museums sector, remains a largely unexplored area. Sports organizations often operate in resource-constrained environments, like Galleries, Libraries, Archives, and Museums institutions, facing technical and managerial challenges in the implementation of Web Analytics.

This study aims to fill this gap by proposing an interdisciplinary framework that links sports management with the best practices of Web Analytics from the Galleries, Libraries, Archives, and Museums sector. The main objective is to investigate how sports organizations can leverage Web Analytics as a strategic advantage to: (a) understand the information-seeking behavior of fans, (b) inform digital content strategy for different audiences, and (c) utilize Artificial Intelligence for personalizing the experience and content discovery. By examining successful examples from the international and Greek contexts, the study argues that adopting a Galleries, Libraries, Archives, and Museums -inspired approach can lead to the creation of smarter, more effective, and sustainable digital ecosystems in sports.

## **II. Theoretical Framework**

### **2.1 The Digital Transformation in Sports Management**

Digital transformation is defined as the fundamental rethinking of how an organization utilizes technology, people, and processes to create new value [8, 2]. In sports, this transformation is not limited to the mere adoption of new tools but requires a strategic restructuring of business models, organizational culture, and relationships with stakeholders [8, 9]. Successful digital maturity depends on an organization's ability to integrate digital skills into its workforce, redesign traditional processes, and leverage technology to improve operational efficiency and enhance customer (fan) engagement [10, 2].

Key pillars of digital transformation in sports include the development of digital ecosystems (e.g., websites, mobile apps, OTT platforms), data-driven decision-making, and the creation of personalized fan experiences [4, 9]. Theoretical models such as the Technology Acceptance Model (TAM), the Diffusion of Innovations Theory, and the Unified Theory of Acceptance and Use of Technology (UTAUT) help explain the factors influencing the adoption of new technologies by organizations and end-users [1]. Concurrently, theories of organizational change, such as that of Slack and Parent (2006), emphasize that technology integration is a cultural process that affects internal dynamics and hierarchies [4].

### **2.2. Sports Organizations as Modern Galleries, Libraries, Archives, and Museums Institutions**

The growing emphasis on managing digital archives and storytelling brings sports organizations closer to the mission of Galleries, Libraries, Archives, and Museums institutions. Major clubs and federations now act as custodians of their own cultural heritage. For example, the International Olympic Committee through the Olympic Channel, or football clubs like FC Bayern Munich with its "Golden Fan Record," collect, curate, and disseminate content that documents their history and strengthens their identity [11 4]. These digital platforms function as "digital museums" addressing a global audience, turning the fan experience into a form of cultural consumption. This analogy allows for the transfer of knowledge and methodologies from the Galleries, Libraries, Archives, and Museums sector to sports. The challenges faced by Galleries, Libraries, Archives, and Museums institutions, such as optimizing content discoverability, understanding user behavior, and demonstrating social impact in resource-limited environments, are directly relevant to the challenges faced by sports organizations.

### **2.3. Web Analytics and Artificial Intelligence as Strategic Tools**

Web Analytics have evolved from simple traffic measurement tools to indispensable strategic assets. They provide the ability to understand "what" users did, but, in combination with qualitative methods, also "why" they did it [12]. For sports organizations, Web Analytics can answer critical questions: Which content has the greatest appeal? How do different fan groups (e.g., domestic vs. international, young vs. older) interact with digital platforms? How can analytics optimize content and marketing strategies? [10,13].

The integration of Artificial Intelligence, and particularly Generative Artificial Intelligence, introduces new capabilities and complexities. Artificial Intelligence can power personalized content recommendation engines, automate metadata generation for better indexing of archives, and support chatbots that answer fan queries [1,2]. High-quality data from Web Analytics are essential for training and validating these Artificial Intelligence applications. Furthermore, the rise of generative search engines requires a new approach to optimization, known as Generative Engine Optimization (GEO), where Web Analytics play a crucial role in enhancing the visibility of sporting heritage. However, the use of Artificial Intelligence raises significant ethical issues regarding privacy protection, algorithmic bias, and user autonomy, which must be addressed through robust data governance frameworks [14,15,9].

### III. Materials And Methods

To achieve the objectives of this study, a qualitative, interpretative methodology was adopted, based on two pillars: (1) a systematic literature review and (2) a comparative case study analysis. This approach is suitable for exploring an emerging, interdisciplinary field and developing a conceptual framework [1,4].

The literature review was conducted on academic databases (Scopus, Web of Science, Google Scholar) and reports from reputable organizations (e.g., Deloitte, PwC, McKinsey). Keywords included combinations of terms such as "digital transformation in sports," "sports management," "fan engagement," "sports analytics," "Artificial Intelligence in sports," "Web Analytics in Galleries, Libraries, Archives, and Museums," "digital heritage," and "data governance." The review focused on publications from 2015 onwards to ensure the currency of the findings, with a particular emphasis on recent studies (2023-2026) [1,2].

The comparative case study analysis focuses on sports organizations that are pioneers in digital transformation. The selection of cases was purposive to cover different types of organizations (international committee, national league, clubs) and geographical areas, including Greece. The cases analyzed include the International Olympic Committee (IOC), the National Football League (NFL), FC Bayern Munich, The Football Association (The FA), as well as Greek organizations such as Olympiacos, Panathinaikos, and the Hellenic Basketball Federation [11,4,2]. The analysis was based on secondary data, such as official reports, publications, content from their digital platforms, and academic studies examining them [4].

The data were analyzed through thematic analysis, aiming to identify common patterns, challenges, and strategies. An evaluation framework [1] was developed to compare the digital strategies of these organizations. The evaluation criteria include: (a) the maturity of the digital ecosystem, (b) the use of Web Analytics and Artificial Intelligence, (c) fan engagement strategies, and (d) the approach to data governance. This methodology allows for the synthesis of findings into a coherent theoretical model.

### IV. Results

The analysis of the literature and case studies reveals a clear trend of convergence between digital management strategies in sports and the practices applied in the Galleries, Libraries, Archives, and Museums sector. Sports organizations are increasingly adopting a data-driven approach to manage their digital heritage and strengthen their relationship with fans.

#### 4.1. The Digital Ecosystem of Sports Organizations

**Table 1 Comprehensive digital ecosystems that serve as central hubs for fan interaction**

| Component                                  | Description and Function  | Examples  |
|--|---|---|
| Official Websites & Content Portals        | Function as central content libraries, offering news, historical archives, statistics, and match information.                 | Englandfootball.com (The FA), Olympic.org (IOC) [16, 4]                             |
| Mobile Applications                        | Provide personalized experiences, real-time updates, gamification, and direct access to content and services (e.g., tickets). | Matchday by England Football, Club apps (e.g., Olympiacos) [16, 4]                  |
| Social Networks                            | Channels for direct, interactive communication, content dissemination, "behind-the-scenes" content, and community building.   | Accounts on TikTok, Instagram, X (formerly Twitter) by all major organizations [4]. |
| OTT & Streaming Platforms                  | Provide live match broadcasts, documentaries, and exclusive video-on-demand content, bypassing traditional media.             | Olympic Channel (IOC), NFL Game Pass [4, 17].                                       |
| CRM Systems & Fan Databases                | Aggregate data from all touchpoints to create 360-degree fan profiles, enabling segmentation and personalization.             | "Golden Fan Record" (FC Bayern), NFL database with 250+ attributes per fan [17].    |
| Web3 Technologies (e.g., NFTs, Fan Tokens) | Create new forms of digital ownership and engagement, offering collectibles and participation rights.                         | .SWOOSH (Nike), Fan tokens in partnership with platforms like Chiliz [18, 19].      |

The success of these ecosystems depends on the seamless integration of the various platforms to create a unified and coherent fan experience [9]. Nike's "Direct-to-Consumer" strategy, for example, was based on creating a unified ecosystem of apps (NTC, NRC, SNKRS) that collect first-party data to power personalized experiences and product recommendations [19].

#### 4.2. Leveraging Web Analytics for Audience Understanding

Sports organizations use Web Analytics to transform raw behavioral data into actionable insights, a practice widespread in Galleries, Libraries, Archives, and Museums institutions. The analysis of this data allows for:

- Audience Segmentation: Fans are not a homogeneous group. Using unsupervised machine learning on transaction data, AFC Ajax managed to segment its fans into six distinct groups, from high-value "Golden Fans" to segments needing reactivation strategies [15].
- Understanding the User Journey: Analyzing navigation paths reveals which content leads to desired actions (e.g., ticket purchase, newsletter subscription). Identifying drop-off points helps optimize the user experience [9].
- Measuring Content Performance: Web Analytics show which types of content (e.g., historical features, interviews, match highlights) have the greatest appeal, guiding future content production strategy [13]. The English Football Association (The FA) saw user interactions on englandfootball.com exceed 9.5 million, against a target of 3.8 million, demonstrating the success of its content strategy [16].

#### **4.3. The Role of Artificial Intelligence in Personalization and Content Enhancement**

Artificial Intelligence is being leveraged to offer experiences that are dynamic, personalized, and directly relevant to each fan's interests. Key applications include:

- Personalized Recommendations: Artificial Intelligence algorithms analyze browsing and content consumption history to suggest articles, videos, and products that are likely to interest each user [8].
- Dynamic Pricing: Artificial Intelligence can adjust ticket prices in real-time, considering factors such as the opponent's popularity, weather conditions, and league standings [3].
- Enhanced In-Stadium Experience: Technologies like facial recognition for rapid entry (Cleveland Browns' Express Access) and queue-less ordering, supported by Artificial Intelligence, improve the match-day experience [20].
- Automated Content Creation: Generative Artificial Intelligence can create match summaries, social media posts, or even personalized highlights for each fan, increasing the scale and speed of content production [14].

However, the use of Artificial Intelligence raises ethical concerns. Excessive personalization can lead to "filter bubbles" and reduce consumer choice autonomy, while the collection of vast amounts of personal data requires strict compliance with regulations such as GDPR [14,9,2].

#### **4.4. The Greek Reality: Challenges and Opportunities**

The analysis of Greek sports organizations reveals an emerging, albeit uneven, adoption of digital strategies. Leading clubs like Olympiacos and Panathinaikos have developed a strong social media presence and use digital platforms for direct communication with their fans [4]. Olympiacos, for example, utilizes multiple channels to disseminate real-time content and enhance its international identity, while Panathinaikos focuses on personalization through loyalty apps [4].

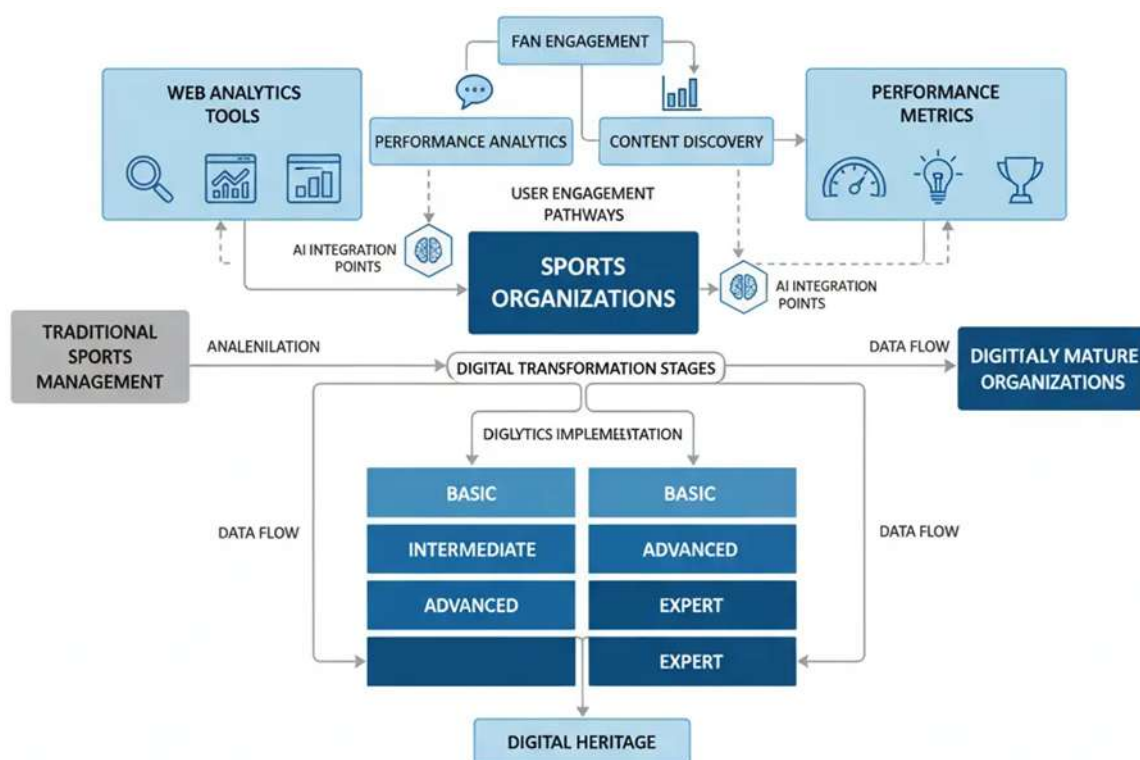
Federations such as the Hellenic Basketball Federation (EOK) and the Hellenic Olympic Committee (HOC) primarily use their digital platforms to promote events and disseminate the educational values of sport [4, 22]. However, the strategic use of Web Analytics and Artificial Intelligence for decision-making appears to be at a more nascent stage compared to their international counterparts. Challenges include a lack of specialized personnel, limited budgets, and the need for a more mature data culture within the organizations [23]. Nevertheless, the increasing penetration of digital media in Greece [24] and the dynamics of the sports betting market create significant opportunities for developing more advanced digital strategies that leverage data to create value.

### **V. Discussion**

The study's findings confirm the initial hypothesis that the principles and methods of Web Analytics applied in the Galleries, Libraries, Archives, and Museums sector are directly transferable and extremely valuable for modern sports management. Viewing sports organizations as managers of cultural heritage opens new avenues for the strategic utilization of their digital assets, shifting the focus from simple communication to meaningful engagement and long-term value creation.

#### **5.1. Theoretical and Practical Implications**

Theoretically, this study contributes to broadening sports management literature by incorporating concepts from digital humanities, museum studies, and information science. The proposed framework (see Figure 1) combines the dynamic capabilities theory [8] with digital maturity models [8], arguing that a sports organization's ability to "sense" fan needs through Web Analytics and "seize" opportunities through Artificial Intelligence constitutes a critical dynamic capability in today's digital era.



**Figure 1. Conceptual Framework for the Digital Maturity of Sports Organizations through the Utilization of Web Analytics and Artificial Intelligence.**

Practically, the study offers a roadmap for sports managers. Successful digital transformation is not just a technological investment but an organizational change that requires [25]:

- **Clear strategy and vision:** Leadership must define measurable goals for digital engagement and content management.
- **Unified technological infrastructure:** Systems (CRM, CMS, Analytics) must "talk" to each other to provide a holistic view of the fan.
- **Skills development:** Investment in staff training in areas such as data analysis, digital marketing, and content management.
- **Strong data governance:** Creation of clear policies for the collection, use, and protection of fan data, respecting privacy and ethics.

The challenge for organizations, especially in Greece, is to move beyond a simple social media presence and adopt a deeper, more strategic approach to data management. This requires hiring or training specialized data analysts and fostering a culture where decisions are made based on evidence rather than just intuition [17,23].

## 5.2. The Challenge of Integrating Heterogeneous Data and Artificial Intelligence

As highlighted in the call for the Special Issue [26], a key challenge is the integration of heterogeneous data. Sports organizations collect data from various sources: behavioral data from digital catalogs and exhibitions (Web Analytics), engagement metrics from social media, technical data from digitized repositories, textual content from visitor reviews, and metadata from standards like MARC, EAD, and Dublin Core. Creating a unified database, like Bayern's "Golden Fan Record" [17], is fundamental for effective analysis and for feeding Artificial Intelligence systems. The use of "data clean rooms" can allow for the secure sharing of anonymized data with sponsors, increasing the value of sponsorship deals without violating fan privacy [17].

The rise of Generative Artificial Intelligence offers enormous opportunities but also risks. The ability to create hyper-personalized content at scale can dramatically enhance engagement. However, reliance on algorithms raises issues of transparency, accountability, and bias [14]. Organizations must ensure that Artificial Intelligence is used to "augment human intuition, not replace it" [17]. Human oversight remains critical to maintaining authenticity and trust, which are at the core of the fan-team relationship.

### 5.3. Limitations and Future Research

This study has certain limitations. As a conceptual study, it relies on secondary data and does not include primary empirical research, such as interviews with managers or surveys with fans. Furthermore, the analysis focuses mainly on large, commercially successful organizations, and the findings may not be directly applicable to smaller amateur clubs with fewer resources.

Future research should focus on the empirical validation of the proposed framework. Quantitative studies examining the relationship between the use of Web Analytics and fan engagement indicators (e.g., time on site, conversion rate) would be particularly useful. More research is also needed on the ethical dimensions of using Artificial Intelligence in fan management, as well as on the development of best practices for data governance specifically for the sports sector. Finally, exploring the application of these strategies in less popular sports or in emerging markets could provide valuable insights.

## VI. Conclusions

Digital transformation has placed sports organizations in a new, strategic position as managers of their own rich cultural heritage. Approaching this role through the lens of practices developed in the Galleries, Libraries, Archives, and Museums sector offers a powerful methodology for navigating the complexity of the digital landscape. This study has argued that the systematic utilization of Web Analytics, combined with the capabilities of Artificial Intelligence, is a fundamental prerequisite for modern sports management.

Transforming data into knowledge allows organizations to deeply understand the needs and preferences of their fans, create personalized and compelling content, and optimize their operations. This leads not only to increased revenue and a stronger brand identity but also to a deeper, more meaningful, and long-term relationship with the fan community. To achieve this, sports organizations must invest strategically in technology, people, and processes, fostering a culture that embraces innovation and data-driven decision-making. Bridging the gap between the stadium and the digital archive is no longer an option but an imperative for sustainability and growth in 21st-century sports.

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