Decentralized Sports Data Economy

A presentation by Thomas Wüthrich and Florian Nöll with the support by Martin Rumo



700 billion

Expected market size of the global sports industry by 2026 in USD

With annual growth rate of 41.3 percent (2021 - 2026)

Source: https://www.statista.com/statistics/370560/worldwide-sports-market-revenue/



(so there is value and a big stage to showcase technology)

Houston We Have a Problem an Opportunity (for Web3)



Decreasing trust in sports organizations by athletes



Extensive
value drain
and



Growing
pressure for good data governance

Meet The Athlete

"We feel left out when it comes to the use and monetization of our data"

"Data can affect our position in contract negotiations"

"We can only grow together knowing that more invasive data is to come"

"No consent, no data"

Source: Jonas Hiller, President, Swiss Ice Hockey Player Union (Personal Communication)



Project Red Card

Hundreds of former and current soccer players in the United Kingdom are suing sportsbooks and data-processing companies, claiming that they have illegally profited from player statistics.



Decreasing Trust in Sports Organizations by Athletes

Sports data just like any personal data can be sensitive.

The athlete community's concerns about the lack of transparency in the handling and monetization of data is on the rise as evidenced by growing conflicts.



^{*}Based on avg. gross profit margin: 80%, source: https://finance.yahoo.com/quote/SRAD/financials?p=SRAD #Source: https://www.marketsandmarkets.com/Market-Reports/sports-analytics-market-35276513.html

Meet the Federation

"The fundamental issue is the centralisation of the media and broadcast rights which is necessary for taking control of our destiny again and lay the foundation for the growth and prosperity of all our disciplines everywhere."

Johan Eliasch, FIS President



Extensive Value Drain and Inefficiency

The current sports data ecosystem using centralized "data brokers" suggests lost revenue potential for sports organizations and their athletes.

The sport data business comes with large operating expenses and providers struggle achieving net profitability.

Fair Digital World

The EU strategy for data focuses on putting people first in developing technology, and defending and promoting European values and rights in the digital world.



Pressure for Good Data Governance is Growing

Our society lives in the era of data and the economy is increasingly data-driven. But today's paradigm of data intransparency, misuse, security breaches and the prosperity of a few extractive institutions has led to decreasing trust by society.

Regulators respond with new more stringent regulatory frameworks regarding data governance, access and use.

How does the sports data industry find a balance between user privacy, data control, transparency and efficient value extraction from data?

We Need a New Paradigm!



Build Trust by Design

(make it transparent & athletes your partners)



Maximize Value
Generation

(skip middlemen,

automate & standardize)



Foster Innovation for better products (make data accessible)

Meet Darius

"Willis Sports Organization is a recruitment platform that helps streamline the recruiting process through a powerful digital platform that combines data, training, and events."

"Verified & endorsed data is key to my business"

Darius Willis, Founder & CEO Willis Sports Org.



The New Sports Data Value Network

Share and Access Authentic Sports Data on a Fully Automated Marketplace



Web 2.0 Value Chain

Web3 - A Promise

"Web3 is the internet **owned by the builders and users**, orchestrated with tokens"

Packy McCormick

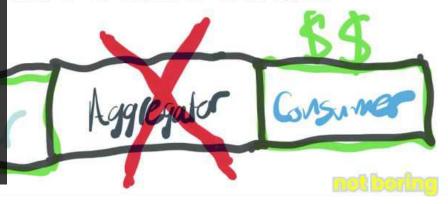
"More robust and efficient digital infrastructures..."

"Reduction of dependencies..."

Jan Bieser and Daniel Fasnacht, GDI Blockchain Studie 2023



eb3 Value Chain



Web3 Technology as Key Enabler



Blockchain;
Transparency by
design and
operated based
on incentives &
economic
mechanisms



Tokenization;
Digital
representation of assets whose
ownership rights
need protection
and access
control.



SmartContracts;
Automation of
business
processes



Self-sovereign
identity;
Trusted authorities
that verify
authenticity
(of identities and
assets)



Open Source; lower starting costs, more flexible and easier licences management for scalability _

The New Paradigm - It's Happening in Web3

An OpenSource
Community
Marketplace for
Data



An open source, crowdfunded, decentralized platform for real-time data streams.

https://streamr.network/marketplace

A network of people in a data union that take ownership over their browser data and receive income from the profits it generates.



https://swashapp.io/

https://market.oceanprotocol.com/

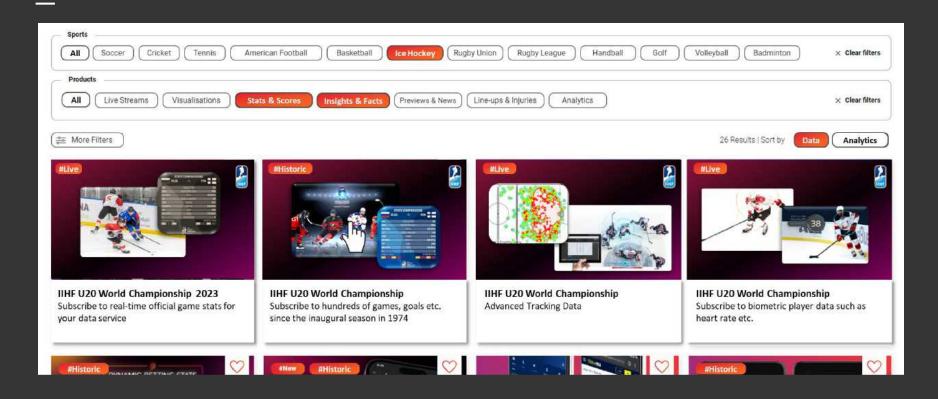
Decentralised Sports Data + Analytics Marketplace (inspired by existing Web3 solutions)

The Vision

Decentralised Sports Data is the **go-to marketplace** for sports data consumers.

By design it ensures a high degree of automation, good governance and fair value distribution - for sport by sport!





A Fully Automated Marketplace for Sports Data & Analytics Products

Next Steps



Sport Hackdays

IIHF Blockchain Challenge



"THE SPOT" 2023

"Hello Sport + Tech World" -Building an Autonomous Data Economy in Sport



Build a prototype for the IIHF U20 WC Jan 2024?

=> Scouting Use Case



2022 2023 2024

Master Thesis HSLU

Simulating a self-governed open sports data economy

HSLU Hochschule

NTN Innovation Booster (tbc)









Key Takeaways

Empowerment of Sport Stakeholder

A self-governed data economy enables athletes and sport organisations to take control of their data and monetize it on their own terms. This puts them in the driver seat allowing them to earn money from their data and decide who can access it.

Increased Data Accessibility

By creating a decentralized sports data marketplace, the new paradigm increases accessibility to valuable data for data consumers. This enables data consumers to come up with better, more innovative data services for their customers.

Automation, Trust and Transparency by Design

Blockchain technology ensures that transactions are affordable, secure, transparent, and trustworthy. This increases trust between all stakeholders, and promotes a fair and equitable system for all parties involved.