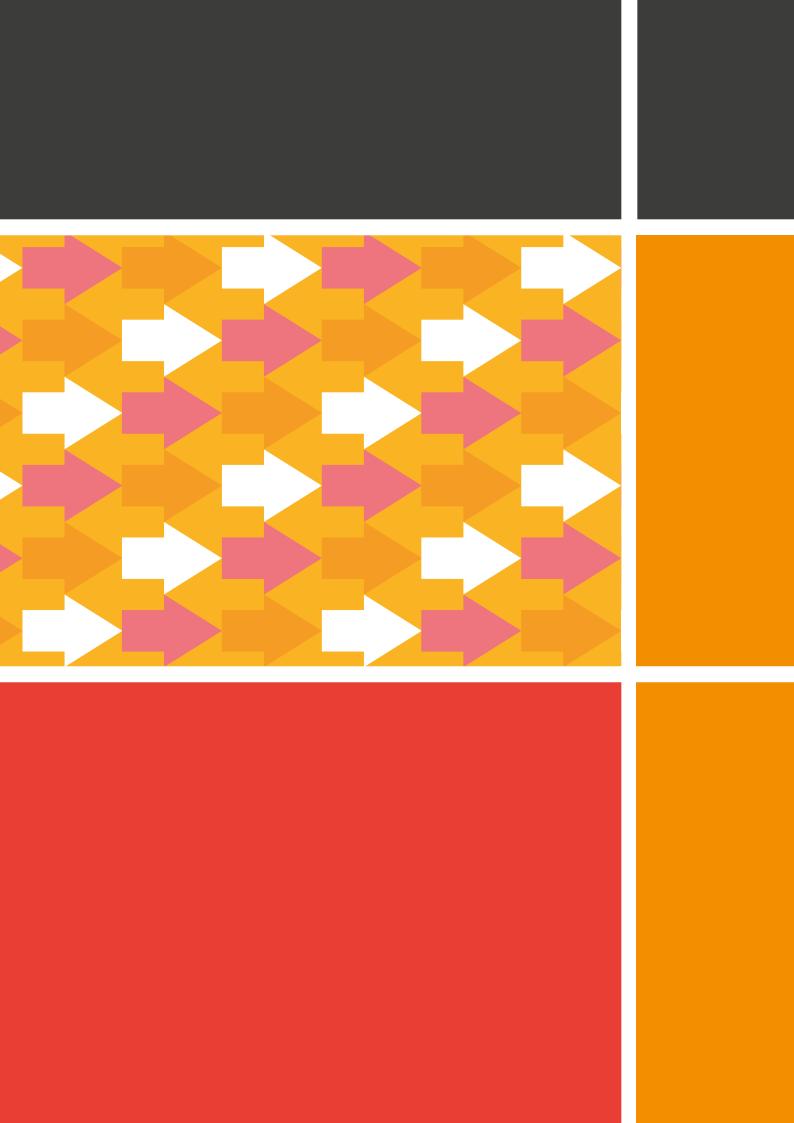
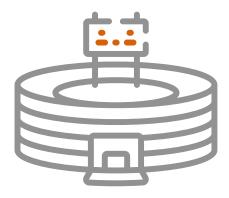


How blockchain and its applications can help grow the sports industry?







How blockchain and its applications can help grow the sports industry?

The transformation of consumer habits and the ubiquity of digital technology have given rise to a stream of innovations ranging from virtual reality and data analytics to connected objects. They offer new sources of growth for sports industry stakeholders. There is a particular buzz surrounding blockchain, due largely to bitcoin, the cryptocurrency (or virtual currency) exchangeable peer to peer without a trusted third party. While bitcoin as a currency was seen as speculative, its underlying technology – blockchain – went on to enable new uses emerging in areas including insurance and logistics.

To put it simply, the blockchain allows two individuals who do not know each other to exchange value by redefining the role of trusted third party. This opens up a range of new possibilities for any intermediated model involving the circulation of value and a large number of stakeholders. The notion of network or community underpinning a blockchain is critical, as it is this community that ensures the veracity and authenticity of the information in the ledger.

In the blockchain, all information that the network authenticates as accurate is saved to a database that is secured and shared among all members.

In the sports industry, blockchain could be used to:

- facilitate mass coordination between stakeholders through decentralisation
- reduce costs by removing third parties
- build trust between stakeholders
- secure data and make them transparent

It was with this in mind that we organised our third workshop discussion in partnership with Le Tremplin to demystify the topic and identify concrete blockchain solutions that meet the needs of stakeholders in the sports industry.



In his report to the Minister of Economy and Finance on cryptocurrencies, Jean Pierre Landau raises the possibility of digitising part of the ticketing of the 2024 Paris Olympics. "Tokens giving access to the ceremony could be issued on a blockchain for the people who contributed to the preparation and organisation of public events held alongside the games."

Complicated words that can be off-putting

Tokenisation

Tokenisation is the representation of an asset (like an athlete or tickets) on a token to allow them to be managed and exchanged using blockchain technology.



ICO (Initial Coin Offering)

Initial Coin Offering ("ICO", also token launch or token generation) is a term describing a limited period in which a company sells a predefined number of digital tokens (coins) to the public, in exchange for cryptocurrencies or fiat currencies.

STO (Security Token Offering

Security Token Offering ("STO") is a sale of tokens with features comparable to classic securities that are fully regulated and accepted within at least one jurisdiction. Prospectively, ICOs / STOs are increasingly an alternative to classic debt / capitalfunding as performed today by Venture Capital / Private Equity firms and banks.

Blockchain



Blockchain is a digital storage and information transmission technology based on four main features:

- Decentralised: nobody owns the ledger
- Shared:

 each network member has a
 synchronised copy of the ledge
- Transparent:

 anyone can trace back the history of ledger and see what has happened since its creation
- Secure:
 every transaction is validated
 consensually, encoded and then
 recorded in the ledger

Peer-to-peer network



A peer-to-peer network is a network of computers connected to each other and exchanging information via the internet.

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Cryptocurrency





Node

A node is a computer connected to the blockchain network. It uses a program relaying transactions. Nodes keep a copy of the blockchain ledger and are spread throughout the world.



Decentralised application

The network is decentralised, as opposed to traditional applications that rely on centralised servers. It is backed up by one or more smart contracts contained in a blockchain.





Smart contract

that automatically triggers events agreed between two parties (like and tokens programmable. Some smart contracts because they have been designed natively around this

White paper

White papers are collections of information on a project. They are often used during an Initial Coin Offering (ICO) to present the project's business model and business plan.

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Token

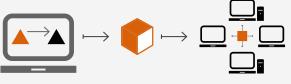
The tokens of a blockchain are often issued during an Initial Coin Offering (ICO), which is a way of raising funds using cryptocurrencies. ICOs allow entrepreneurs to fund a project without using conventional bank financing or having to go through a venture capital

Tokens are either created via a smart contract (defined above) in an existing blockchain (particularly for tokens meeting the ERC20 standard on Ethereum) or allocated in the first block for Tezos, one of the biggest ICOs in

There are several types of tokens. The most noteworthy are:

- utility tokens, which represent future rights to a product or service,
- security tokens, which are the issuer's debt or equity instruments.

How a blockchain works



The supplier and the buyer enter into a transaction.

The transaction is grouped with other transactions from the same period to form a data block.

The data block is recorded on the global network in a decentralised, tamper-proof way and is validated.



The transaction is confirmed for both parties.

The validated block is added to previously validated blocks to form a blockchain.

Clubs/Federations





Fan engagement

Player financing

Athletes



Player financing

Optimisation of data management

Spectators/Fans



Sports betting

Fan engagement

Institutions

Fight against doping

Optimisation of data management



Events organisers



Ticketing 2.0

an engagement



How blockchain and its applications can help sustain relationships between clubs and their members?



Sports associations are constantly looking for new ways of communicating and raising money in an industry that has become highly competitive. With the rise of self-organised sports activities, clubs are keen to diversify their activities in order to increase their membership and build loyalty. Member engagement has become a priority. Innovation, and more specifically blockchain, can meet the expectations of clubs, federations, fans and members.





Decentralisation \checkmark



Security Sharing



Solution

Tokenisation in a club

Action plan

A blockchain offering...

A virtual currency issued by the club, usable through a decentralised app associated with the club.

A solution of this nature would allow buyers (fans, volunteers, partners, sponsors) to:

- Vote on the club's strategic and financial decisions
- Hire spaces and organise events within the club
- Get special prices for lessons and outings, the club's merchandising products and complementary services (physiotherapy, sports medicine, or local mechanics partnering with the club, for example)
- Promote non-club activities and services to members

... based on a cryptocurrency It would allow the club to:

- · Reward the work of volunteers
- Fund some of the projects promoted by members
- · Reinforce its connection with members and their engagement
- Reward members and foster a sense of belonging through games and challenges, with tickets to sporting events as prizes
- Help raise money for its members' individual projects by facilitating crowdfunding initiatives

Rollout

Sponsors

Clubs, federations and national leagues could offer tokens to give their holders access to exclusive services.

Kev metrics

A token issuance (ICO/STO) can cost between €500 thousand and €1 million.

Projects last roughly a year.

Better management of fans gives the club more exposure among its financial partners.

There have been more than 50 token issuances (ICOs/STOs) dedicated to the sports industry. They can be broken down along several lines: financing, fan engagement, sports betting and various marketplaces.

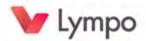


Trailblazing initiatives



Fantastec has developed a blockchain solution to reward fan engagement with a platform that connects fans with their favourite teams and players.

The Fantastec solution rewards their activity in the app and allows them to play an active role in the club's development (timestamped and protected with total security).



Lympo is a free app that gives users the chance to earn rewards in the form of tokens by sharing their sports and health data.

They can then use their tokens to buy products and services on the Lympo platform, which brings together more than 500 fitness professionals. The solution also includes a platform for financing innovative start-ups.



With its offices a stone's throw from the Roland Garros tennis venue, it was only logical that **Setteo** should develop a platform dedicated to the more than 650 million players of racket sports worldwide. The Setteo platform is not just a social network; it is also a management tool for clubs and federations and can be used to

organise matches and competitions. The company has also launched SETcoin, a cryptocurrency that can be used to book and pay for lessons, register for tournaments, watch games and even buy sports merchandise.



How blockchain and its applications can help develop the user experience for fans?



Most clubs are run on a strict hierarchy. Fans have little say in the club's decisions, strategic or otherwise. Blockchain can help redefine the relationship between fans and their favourite club by providing the transparency that has until now been lacking. Tokens (or clubcoin) can be used to provide new services. In addition, blockchain offers clubs innovative ways of financing through token issuances (ICOs or STOs).





Decentralisation







Security Sharing Transparency

Solution

Action plan

Token issuance (ICO or STO): issue of a club coin to redefine the relationship between the club and its fans

Tokenisation for fans

- Definition of a business model allowing a coin to be issued via a digital fundraising process (token issuance ICO or STO)
- The coin would help fund a project, for example by partly financing the transfer of a player and/or funding the creation of an infrastructure that allows the fan owning the coin to obtain a service:
 - Financial: e.g., getting "royalties" on the club's sales
- Non-Financial: e.g., getting tickets for a match or meetups with players
- Tokens could also give their owners a voice on non-strategic club decisions, such as in a vote on the colour of a shirt or the composition of a team.

Rollout

Clubs, federations and national leagues could offer tokens to give their holders access to exclusive services.

A token issuance (ICO/STO) can cost between €500 thousand and €1 million. Projects last roughly a year.

Bonus

A project of this nature would help clubs trace their fans more effectively, increase their service offering, and in some cases fund new projects.

To date, there are more than 2,000 cryptocurrencies representing a market value in the vicinity of \$130 billion.



Trailblazing initiatives



Fantoken has created a token that gives fans a vote on important club decisions like selecting upcoming talent, or offers them a chance to share feedback with the community.

The greater the fans' engagement, the more tokens they earn and can then exchange for merchandising products or tickets to sporting events.



The **Socios.com** platform allows fans to exchange "clubcoin" for chiliZ tokens, which give their holders voting rights for nonstrategic decisions like logos, the music played in the stadium, the colour of the shirts and summer tours. They also give them VIP status and other rewards.

Holders can also vote for the Most Valuable Player (MVP) or the player of the month.



Swace is a community initiative designed to remedy unsatisfactory experiences for users and brands on social networks, each from their own perspective. It is an independent platform with predefined game frames that brands can use to interact with users, who in turn receive rewards.

The app's economy is based on decentralised blockchain technology and revolves around a token known as Swace Coin. Its main purpose is to improve interactions between users and brands.



How blockchain and its applications can help build up funding for a sporting career?



Today's sports institutions are designed for high-level athletes scouted at an early age by sports professionals in clubs or sports centres. But talents can emerge later or outside a high-level sporting structure. So how can these athletes be given the chance to become the champions of tomorrow? What can be done to help them find funding and manage their sporting data?





Decentralisation ✓ Security ✓ Sharing ✓







Solution

A digital platform: "Les Jeunes Poussent!"

Action plan

A funding offer

- Funding of athletes via a digital platform in the form of a token issuance (ICO/STO)
- Creation of a pool of athletes appointed by a "Les Jeunes Poussent!" Board
- Establishment of a contract between investors and athletes or pools of athletes

A marketplace

- · Provision of sporting data (results, physical performances, etc.) on the platform thanks to the athlete, who authenticates the information
- Creation of a marketplace to sell athletes' data to other stakeholders: athlete management systems, clubs, leagues, broadcasters, labs

A solution to current shortcomings

- · Funding for semi-professional athletes who are not part of a high-level structure
- · Pooling of sporting data

Rollout

The working group identified several potential sponsors for a project of this nature: investors, young semi-professional athletes and other stakeholders such as athlete management systems, labs, broadcasters, clubs and

leagues.

Phasing

The first phase involves putting investors in contact with athletes on the platform.

The second key phase is the sale of data to other stakeholders.

This offer allows non-professional athletes outside sporting structures to find funding and let their talent shine through.

In Brig, young skiers have to pay between 18,000 and 40,000 Swiss francs each year to cover their expenses.



Trailblazing initiatives



SportyCo is a crowdfunding platform based on blockchain.

The SPF token funds talents, with investors' returns coming as a share of the athlete's future performance and earnings. SportyCo puts athletes in direct contact with fans.



Globatalent is a marketplace that allows people around the world to fund and trade their favourite athletes, clubs and sporting idols

Athletes can raise funds to develop their careers, later giving fans back a portion of their income.

Clubs and sports institutions can raise funds in exchange for a percentage of tickets, sponsorship, television rights and more, in total transparency.



Netscouters is a football investment platform designed chiefly to create a decentralised platform to access players' skills. By extension, this simply means a collaborative effort with public and private sectors or agencies to help make football a more inclusive game.

It allows children from all backgrounds to develop their innate potential, and helps

promote the status and economy of the clubs and leagues for which they play.



How blockchain and its applications can improve management and data use and strengthen the fight against doping?



Most high-level athletes lack both regular medical follow-up and expert medical advice. This poses a real problem when athletes have to take medical treatment, since they need to know which drugs they can take without being vulnerable to accusations of doping. This is a question of education, monitoring and prevention, and above all of transparency in relation to the World Anti-Doping Agency (WADA), federations, events organisers and fans. Moreover, international institutions could establish a new standard sports contract to reduce the complexity of contract negotiations in sport in view of the great number of stakeholders (agents, lawyers, clubs, banks, investment funds, relatives, etc.).





Decentralisation







Security

✓ Sharing

✓ Transparency

Solution

Decentralised medical records for athletes and "blockchained" contracts 2.0

Action plan

Create a decentralised register containing all the athlete's medical data

A digitised "blockchained" sports contract

- The creation of a decentralised register containing the athlete's full medical record (prescriptions, report, dosage, etc.) would facilitate the submission of examination results and the monitoring of controls.
- A decentralised register could:
- Significantly reduce the risk of hacking, which would not alter athletes' behaviour.
- Promote better sharing of information and greater awareness among athletes about drugs that are dangerous to their health and that also pose a doping risk.
- Provide the athlete's location data at any given time for random controls.
- The implementation of decentralised smart contracts would ensure the automated execution of certain clauses of the contract.
- Digitisation and transformation into decentralised smart contracts would simplify contract negotiations and make for additional transparency and clarity.
- Such an approach could help standardise contracts, making for better use of data.

Rollout

The working group cites clubs, athletes, institutions, agents, leagues, management and control organisations, and international institutions as the potential sponsors for a project of this nature.

Six months of development and three to five years to be implemented.

A solution of this nature would give athletes reliable and optimal access to data (drugs, dosage, geography, etc.) authorised by WADA. Institutions could also use blockchain to map and optimise financial flows between the stakeholders of the ecosystem.

Between 0% and 2% of official anti-doping tests give a positive result

Athlete contracts can have as many as 100 clauses



Trailblazing initiatives



Carrefour applies blockchain in the food sector, allowing each link in the supply chain (producers, processors and distributors) to provide traceability information for its respective part in the process and for each batch (dates, places, livestock buildings, distribution channel, potential treatments, etc.).

At the end of the chain, the product label features a QR code that consumers can scan to access information including where and how the animal was reared, the name of the breeder, what feed was used (whether it was fed on French grains and soybean meal, whether the feed was free of GMOs, etc.), whether it was treated in any way (absence of antibiotics, etc.), any quality labels it bears and where it was slaughtered.



Sports Decisions digitises and models sports club contract data, providing a direct interface between contracts and sports results, and generating a preparatory statement of players' pay.

The digitisation of contracts and the interfacing with sports results is a first step towards securing and simplifying data management between clubs, leagues and athletes.



Woleet is used to timestamp data, thereby fixing them in the bitcoin blockchain. The evidence generated is verifiable without calling on a third party, anywhere in the world and at any time.

Confidential data remain under the complete control of the Woleet user. The conclusive proof of signature is independent of the document and can be verified without a third party.



How blockchain and its applications can help develop event organisation?



International events give rise to a lot of ticket selling and reselling. Fraud, identity theft and falsification are widespread.





Decentralisation \checkmark





Security

✓ Sharing ✓



Solution

Action plan

Creation of a marketplace for ticketing or fan data

World Cup token: from ticket tokenisation to a fan marketplace

- Creation of a decentralised platform to:
 - guarantee the authenticity of buyers' data ("know your customer")
 - guarantee the authenticity of tickets
 - sell, resell and swap tickets for an event
 - fight the circulation of counterfeit tickets
 - control the secondary market
- . Once the ticket has been purchased, the platform can give ticket holders the chance to share their personal data and monetise it, e.g.:
 - photos and videos of the event
 - comments and analysis on the match, with payment for relevant content
- Event organisers could create smart contracts to:
 - create cancellation insurance for supporters giving rise to automatic refunds
 - share comments and analysis on the match, with payment for relevant content

Rollout

Clubs, federations and events organisers are the potential sponsors and first beneficiaries of this action plan. **Phasing**

Six months of development and three to five years to be implemented.

A project of this nature would ensure the full traceability of tickets for their entire life span. It would also allow event organisers to create new services to offer fans.

In the United Kingdom, the value of the ticket resale market is estimated at more than a billion dollars a year.



Trailblazing initiatives



Footballcoin combines fantasy league and sports betting using blockchain and an app-specific cryptocurrency. When they win matches and tournaments, users can spend their tokens to virtually buy or sell players. FootballCoin is partnering with MonPetitGazon in France.



EtherSport is a platform where people from all over the world can bet on sports events. The lottery mechanism uses Ethereum contracts that guarantee fair and transparent results, avoiding risks and corruption.

EtherSport offers many advantages, including security, a simple user registration process, anonymity, an open and transparent process for all monetary transactions and fast payment of the prize, with no hidden fees. Ethersportcoin (ESC) is an ERC20 token built on the Ethereum platform.



AXA has developed an insurance product for flight delays using blockchain technology. Travellers can take out flight delay insurance, and AXA refunds them automatically if the flight is more than 2 hours late.

Subscribers don't need to fill in any documents or provide any proof.

The money is transferred instantly when the plane touches down.

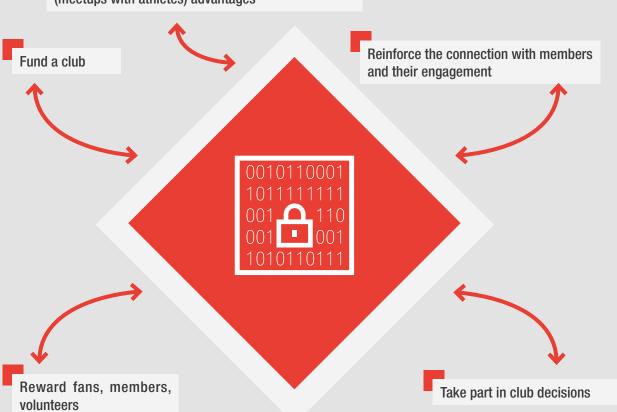
To sum up

A range of stakeholders...

... using the same blockchain solutions

Use of a token

Get financial (ticket reductions) and non-financial (meetups with athletes) advantages



Use of a decentralised platform

Provide personal medical data

Provide athlete performance data

Provide athlete performance data

Provide athlete performance data

Foster transparency and clarity

Let's fast forward to 2024...



Ticketing 2.0

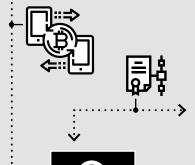
Tickets issued by the organiser are tokenised on a decentralised platform

- Blockchain gives organisers control over the
 - secondary market (ticket resale/swaps)

 This guarantees the authenticity of the swapped tickets, greatly reducing fraud and the circulation of counterfeit tickets



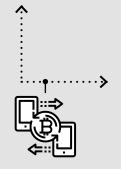




- Tickets are all issued on a blockchain: buyers can be sure that their tickets are genuine and that they really belong to
- Organisers can be sure of the buyers'

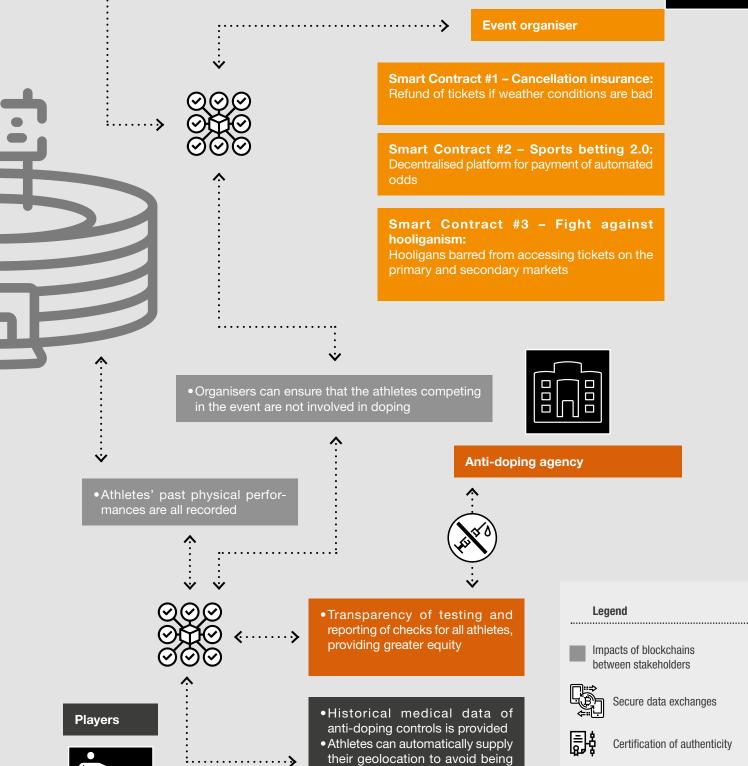
The fans of both teams get their respective tokens

- Vote for the colour of a shirt
- Vote for players in the starting lineup and on the bench
- Vote for the player of the match
- Access exclusive club services
- Vote on transfers and get a share of the profits on purchases



- Players can resell their data
- The relationship with fans is optimised and controlled
- Players have total control over their image





logged as "no shows" on a ran-

dom control

Decentralised platform



