billon

BILLON UNIFIED BLOCKCHAIN

High-performance, regulatory-compliant blockchain for on-chain document and data exchange, asset tokenization, and digital cash. Secured by user controlled sovereign identity.

BILLON AMONG TOP 3 COMPANIES FOR EBSI

Billon, together with EBSI and the European Commission, to revolutionize cross-border public services in Europe.

The European Blockchain Services Infrastructure (EBSI) together with the EU Commission aims to deliver cross border public services, a foundation for an enterprise Web 3.0. Billon will conduct the pre-commercial procurement process. It is planned for two use cases: Intellectual Property Tokenization and Product Lifecycle Management (Digital Product Passport).

ebsi
European Blockchain

They trust us:

FiS | Raiffeisen Bank | BIK | ebsi European Blockchain | PHILIP MORRIS INTERNATIONAL | sycope

ERGO HESTIA | RBiH Reserve Bank Innovation Hub | TAURON | IEEE Advancing Technology for Humanity | OPTeam EKSPERT ROZWIĄZAŃ IT | findings.

www.billongroup.com

European Commission

About Billon

Billon is a technology company with a self-developed, its own ultra-efficient, data-centric blockchain protocol. The platform fully supports Web 3.0 and holds the world record for energy efficiency. It processes data, documents, identity, tokens and money on the same rails, leading to improvements in processes, security and automation. Billon's solution is a revolution in data management and has been tested and verified by globally recognized companies.

The company was founded in the UK in 2015, based on an earlier R&D project in Poland. Its promising blockchain protocol has been supported by a number of R&D grants, including from the EU's Horizon2020 program. In 2022, the European Commission selected Billon as one of three suppliers for the pre-commercial solution development and field testing of the European wide Blockchain within the European Blockchain Services Infrastructure (EBSI) program. Billon's partners include leading companies such as Reserve Bank Innovation Hub (RBiH), FIS Global, Raiffeisen Bank International, Tauron and BIK, Findings.co, Sycope.

Our Vision for European Blockchain Services Infrastructure (EBSI)

Today, tokenization, combined with the immutability and indisputable clarity of ownership provided by blockchain, will transform multiple asset classes - such as our money and our data - and change the way commerce itself will function in our lifetimes. Regulations recognize the importance of digital identity at the heart of the ownership question, and with identity, the need to protect the privacy of individuals while providing accessibility where needed. Our economies also require protections from fraud, internal and external data breaches, and secure business processes in an ever-digital world.

The problem, however, is that early blockchain technologies were not up for the task of being eco-friendly and regulatory compliant. They could inspire, but were limited to little more than writing a checksum to a hash, in some cases. We are well past those times.

Our vision is to build a public / private network on a more advanced architecture for the management and provenance of both IP Rights and Products moving in the Circular Economy. Such a network must put identity management principles at the heart of the solution, and be fully regulatory compliant. As well, data exchanges require interoperability, as our economies are complex with many systems, and regulations must be technologically agnostic in order to stand the test of time.

"It is not enough anymore to provide a distributed network and immutability. We created functionality at the layer 1 protocol to manage the complexities of compliance with regulations, and to be able to scale without the high costs associated with early blockchain architectures."

Andrzej Horoszczak, Founder & CTO of Billon

How We Will Contribute

- Scalability: Billon's technology has been designed to be a massively scalable, fully distributed system, with transactions settled below 5 seconds and blockchain nodes operating on consumer devices (smartphones, home computers, etc.).

- Sustainability: Billon uses proof-of-stake protocol and does not require mining, making the energy consumption negligible in order to fit in the EU climate objectives and the European Green Deal.

- Security and privacy: Client-side encryption and keys management model secure data in such a way that only the intended recipients are able to decrypt and access it.

- On-chain architecture: Billon has a unique approach to processing and storing objects entirely in the blockchain structure, providing a supreme level of security and resiliency.

- Interoperability: DLT platform delivers full interoperability with existing, legacy and emerging technologies with a clear framework and regulatory compliance to deliver trust. Use cases will be compatible with ISO standards like ISO/IEC 21000 in IP rights management.

Platform Capabilities: Why Unique?

The underlying capabilities of any public platform must be: (a) scalability, (b) being low-cost and eco-friendly, and (c) fitting the needs of the European Union.
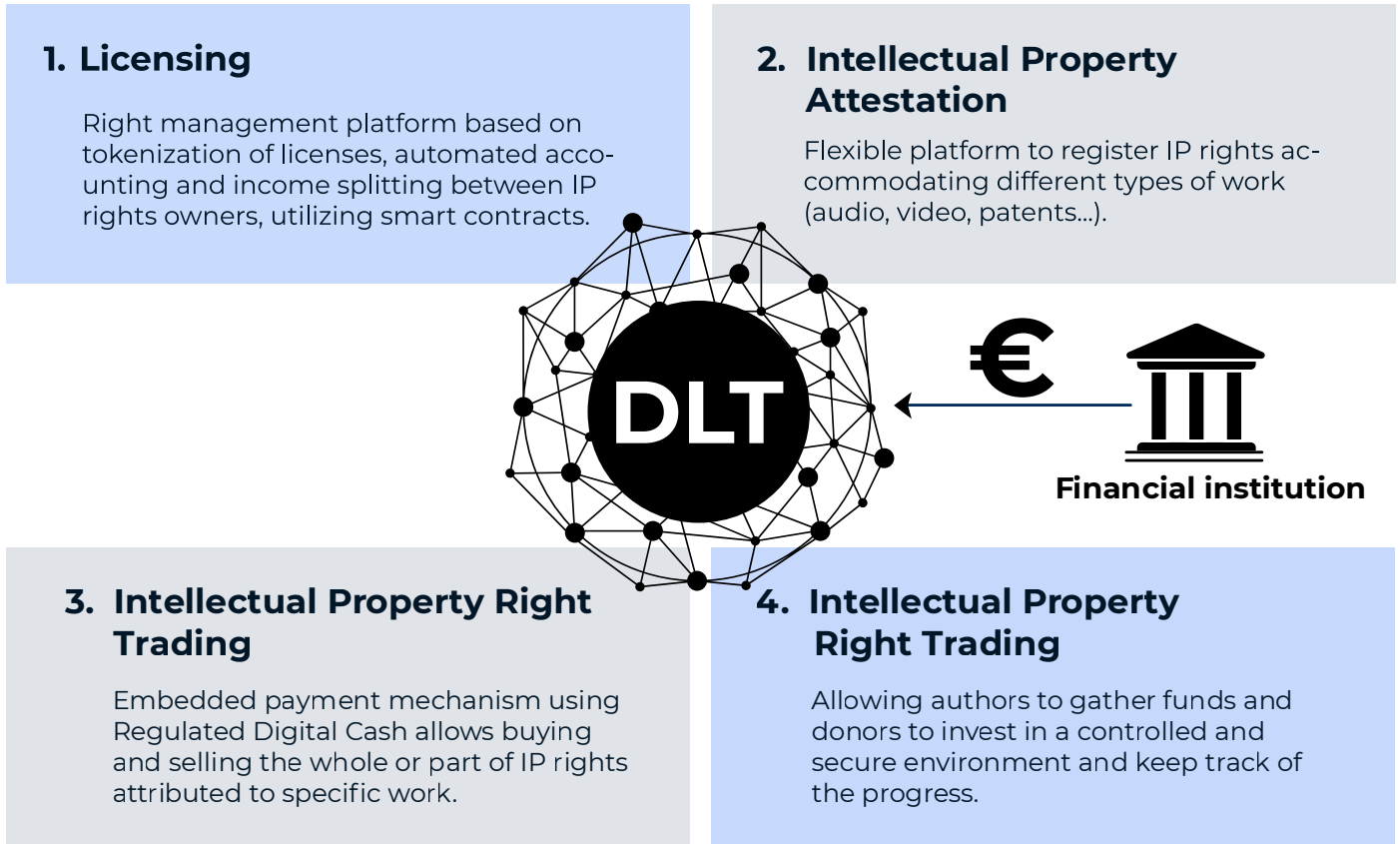
Several features of the Billon Unified Blockchain stand out, but perhaps the most important feature is the multi-issuer model. As a public platform, it gives Member States and various institutions the ability to assess and register IP Rights and Products to the blockchain directly, rather than resort to establishing a central authority.

SELECTED FEATURES	WHY CARE?	CRYPTO DERIVED BLOCKCHAIN	EARLY ENTERPRISE BLOCKCHAIN	BILLON UNIFIED BLOCKCHAIN
Immutability and Distributed	**Secures Non-Fungible Tokens** Critical for certainty of indisputable ownership	✓	✓	✓
Minting (permissioned), not mining	**Higher throughput** Scalable for enterprise demands		✓	✓
Regulatory compliant for money and documents	**Lower-cost deployment** Why pay twice?...once for blockchain and again for compliance?			✓
"On-chain" assets	**Unifies money, data & identity** Reduces dual "on" & "off" chain architectures, especially key management			✓
End-user light nodes	**Adds power of smart devices** More distributed, so more resilient and higher performance			✓
Multi-publisher model	**Enables true ecosystems** Reduces risk of a single issuer & better traceability to source			✓

1st Use Case: IP Rights Management

Cross-border Intellectual Property Rights Management, Accountability & Trading Platform.

When completed, owners, contributors and authors of IP can establish verified identities and trace the use of their content in digital media across the European Union. Digital national currency tokens - a unique feature - will allow for payment interoperability and ownership changes in later stages of the content life cycle.

1. Licensing

Right management platform based on tokenization of licenses, automated accounting and income splitting between IP rights owners, utilizing smart contracts.

2. Intellectual Property Attestation

Flexible platform to register IP rights accommodating different types of work (audio, video, patents...).

€ **Financial institution**

3. Intellectual Property Right Trading

Embedded payment mechanism using Regulated Digital Cash allows buying and selling the whole or part of IP rights attributed to specific work.

4. Intellectual Property Right Trading

Allowing authors to gather funds and donors to invest in a controlled and secure environment and keep track of the progress.

2nd Use Case: Digital Product Passports

Digital Product Passports to support the Circular Economy

Billon Unified Blockchain System's document management capabilities can be used to manage the complexity of tracing the life- cycle of material goods from raw materials extraction through goods creation, logistics and storage, and finally to trace usage and recycling disposal. While it can be applied to any product, we will focus on two specific cases first: plastic waste and car batteries.

Certificates
Generation and processing

Mobile App
For end customer

Analytical module
For administration & financial institutions

Payments
For incentive mechanism

Paperless
For trade

E2E Product Lifecycle
For monitoring each process step