MOBI

Building the
Web3 Economy

Citopia Global Battery Passport System by MOBI

STANDARDS BASED AND GLOBALLY INTEROPERABLE SYSTEM TO ISSUE, AUTHENTICATE, AND CONSUME BATTERY INFORMATION

Meet the future of battery traceability with **Citopia Global Battery Passport System (GBPS)**, built and operated by MOBI and its members. Citopia GBPS enables seamless, secure data sharing across the entire battery value chain — paving the way for sustainable growth and regulatory compliance worldwide.

The global shift toward sustainable energy is hindered by fragmented battery data management practices. As batteries move across borders and stakeholders, critical information — such as composition, state of health, and sourcing — is often lost, creating inefficiencies and regulatory risks. Without a standardized, secure system for tracking and sharing battery data, the industry faces substantial operational and compliance challenges.

Citopia GBPS is MOBI's innovative answer to these challenges. By providing a standardized, self-sovereign framework for battery value chain management, **Citopia GBPS allows stakeholders to record and selectively share critical battery information securely**. Our system integrates seamlessly into existing processes and provides the flexibility to meet existing and new regulatory standards, ensuring a trusted, transparent battery lifecycle.

Citopia GBPS is built and operated by members with shared R&D and operational costs. This federated model prevents monopolization, enhances resilience, reduces single points of failure, and fosters inclusivity, allowing both large enterprises and smaller entities to participate on equal footing.

Citopia GBPS serves as a neutral convener between battery value chain stakeholders (e.g. supply chain, regulatory bodies, consumers), fostering a collaborative ecosystem where all parties can confidently participate and contribute to sustainable energy goals. This neutrality enables selective data exchange (data sharing only to intended recipients), compliance, and mutual trust across the value chain, empowering stakeholders to meet regulatory obligations while advancing their business objectives. In addition to serving as a basis for battery passport issuance and exchange, Citopia GBPS enables the creation of use-case-specific applications such as charging management, carbon credits management, bidirectional energy sharing, and more.

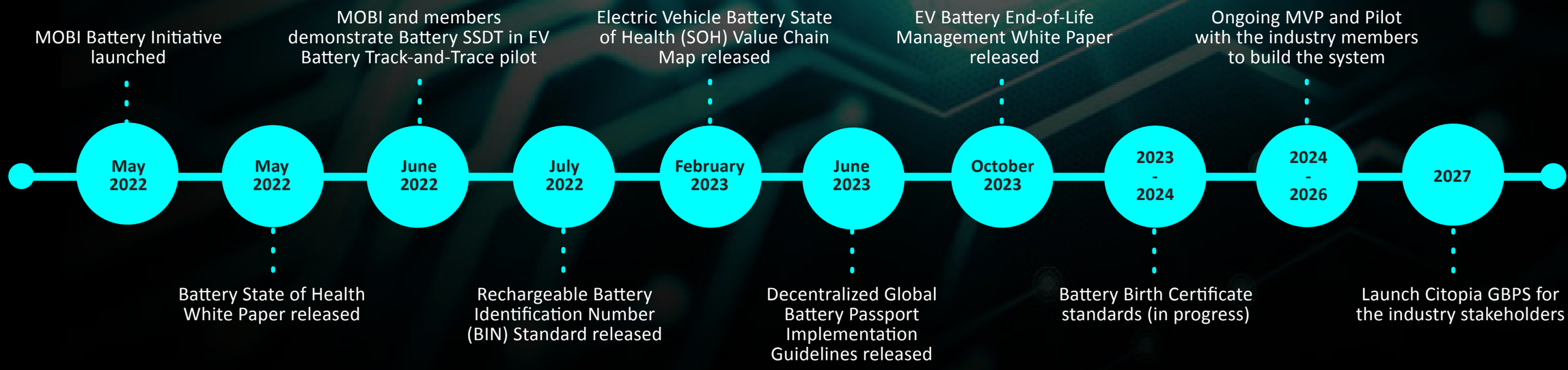
- **Regulatory Compliance Made Easy:** Developed in alignment with existing and future global regulations, such as **CARB** and the **EU Battery Regulation.**
- **Enhanced Security and Data Privacy:** Uses Zero-Knowledge Proofs (ZKPs) to protect proprietary data while enabling selective disclosure for secure communications.
- **Reduced Operational Costs:** Build and operated by members, Citopia eliminates the need for costly third-party data intermediaries, reducing friction and improving efficiency.
- **Interoperability Across Systems:** Integrates with diverse data systems across the battery value chain, simplifying communication and reducing delays.
- **Supports Circular Economy Goals:** Facilitates end-to-end battery tracking, promoting recycling and sustainable practices that support a circular economy.

Citopia GBPS is a groundbreaking solution built on **World Wide Web Consortium (W3C) standards and Zero-Knowledge Proof (ZKP) technology** — the only system that offers self-sovereign data management for batteries. Unlike centralized solutions, Citopia empowers stakeholders to retain data control and selectively disclose information, bridging gaps across the battery lifecycle while minimizing frictional costs. No other system combines this level of security, interoperability, and regulatory compliance.

Ready to transform your battery data management? Discover how Citopia GBPS can streamline your operations, enhance compliance, and drive sustainability. **Contact us today to request more information.**

Citopia GBPS by MOBI is the foundation for a sustainable, compliant, and efficient battery ecosystem. Take the next step towards a seamless, secure, and transparent battery lifecycle with Citopia GBPS.

Roadmap



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