

Enabling growers, manufacturers, dispensaries, and consumers to harness the power of blockchain technology within the cannabis industry.

Problems & Solutions

As the cannabis industry grows, businesses, regulators, and government agencies have been facing challenges regarding compliance and adherence to industry standards. This has stunted the development and advancement of the industry as a whole. We're combining Hyperledger, Smart Contracts, and SupplyBloc Technology to manage cannabis industry supply chains from the birth of a cannabis plant (seed) to final sale for consumption (sale).

SupplyBloc aims to use Seed-to-Sale methodology to provide complete transparency, immutable data recording, and real-time auditability within cannabis industry supply chains. This will enable all participants within the industry to ensure all elements of their businesses adhere to regulatory and industry standards, while also maximizing the financial and organizational efficiency of their operations. Regulatory agencies using SupplyBloc Technology with Seed-to-Sale will be able to quickly and efficiently audit every part of a cannabis product from the beginning of its life as a seed to the final purchase for consumption by the end-user. Growers, Manufacturers, Dispensaries, and Consumers will be better protected legally and financially due to the immutable traceability of all aspects of these products.

Traceability Portal:

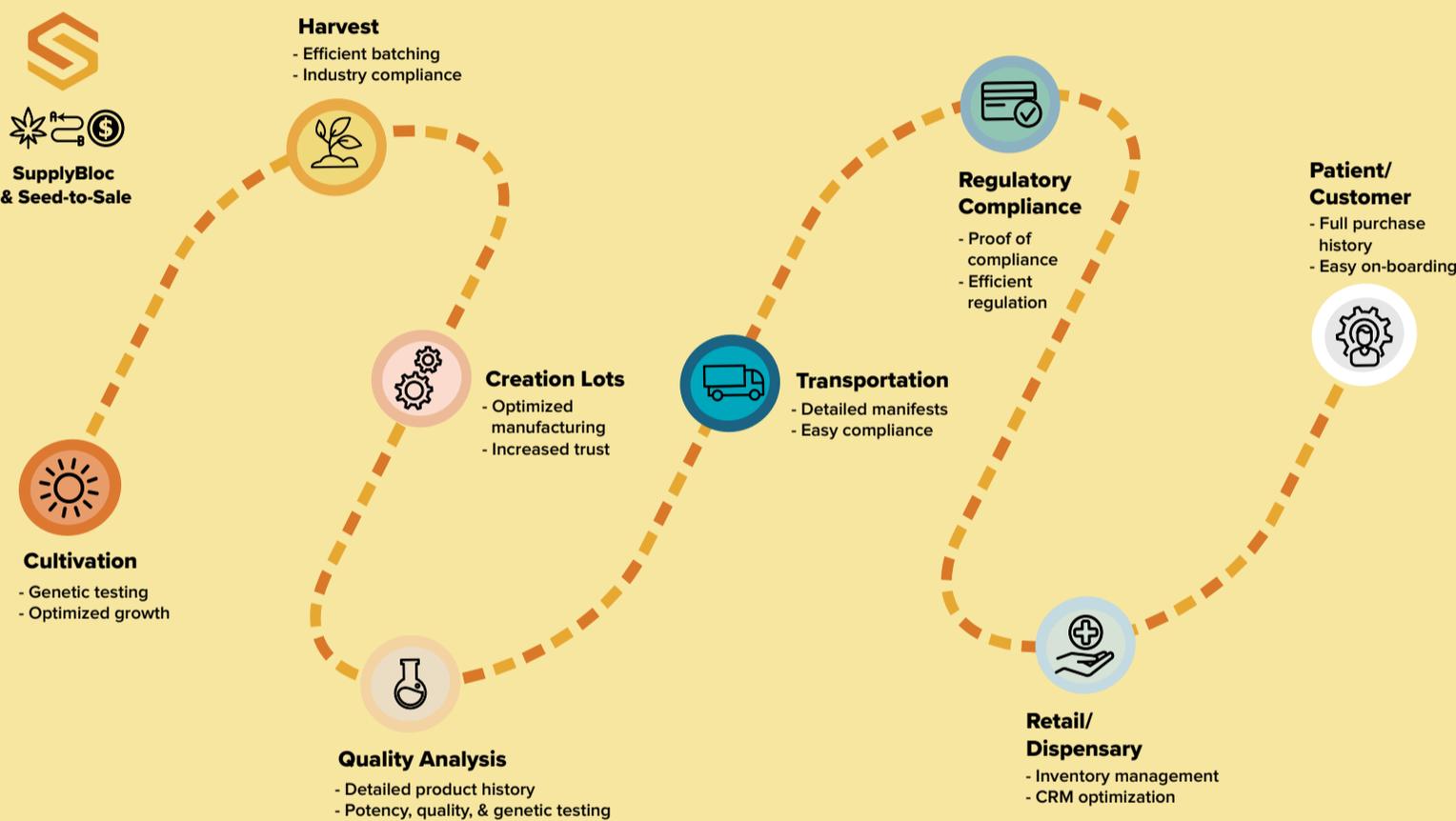
This is the secure online data hub providing details and analytics for regulatory agencies and law enforcement to track cannabis transportation and inventory in real-time. The Department of Revenue and other agencies are able to easily audit financial reports. This ensures efficient and transparent compliance and adherence to industry standards and state laws. This portal also helps supply-chain participants audit the entire life-cycle of every product, from seed-to-sale.

Inventory Management:

Every node in the cannabis industry supply-chain will have unprecedented inventory management capabilities as all materials, products, and interactions/exchanges will be indelibly registered on the SupplyBloc blockchain ledger at every point in their life-cycle.

API & SDK Development:

SupplyBloc Technology has developed a specific Seed-to-Sale API and SDK to allow cannabis industry participants to create customized implementations of user-facing applications that run on our platform. Our commitment to application development and white label offerings ensure that even the most uniquely situated businesses have the opportunity to integrate our blockchain technology into their existing supply-chain networks.



- Cultivation:** SupplyBloc's seed-to-sale management starts with cultivation. Seeds are genetically tested and given a unique 16-digit ID indelibly registered via Hyperledger's open-source blockchain technology. Every interaction and engagement with the seed will be recorded. Growers will be able to optimize their cultivation efforts by having unfettered detailed access to the complete history of every plant in their care.
- Harvest:** As plants are harvested, all components are batched within the SupplyBloc platform by material type. Each batch receives a new 16-digit batch ID, containing data for every plant's life-cycle since its initial propagation. Batches can include prepackaged goods, oils, extracts, etc... All combinations and iterations of the plant batches will be immutably recorded on the SupplyBloc platform. This will enable the entire batch process to be hyper-audited so that manufacturers can easily pinpoint areas of success or failure prior to using the batches in their creation lots.
- Creation Lots:** After plants are harvested and batched they are sent to creation lots for further product manufacturing. Manufacturers can easily manage their regulatory compliance, quality testing, and overall inventory using the SupplyBloc platform. Other members of the supply-chain will enjoy complete transparency over the entire manufacturing process, adding a firm layer of trust between participants.
- Quality Analysis:** All products are tested for potency, undesirable chemicals, contaminants and harmful additives in compliance with regulatory and industry standards prior to entering the market. The test results are automatically and immutably registered and printed on the product labels or RFID tags. Every member of the supply-chain will have constant access to the history of their products' quality throughout its life-cycle.
- Transportation:** Detailed manifests including origin of products, list of materials, destination, transporter credentials & ID info, and the entire chain of custody are required prior to transporting cannabis. These reports are made available to regulatory and law enforcement agencies in real-time via the SupplyBloc platform to ensure compliance and legitimacy. Transportation service providers can optimize their distribution strategies while maintaining complete legality across county and state lines.
- Regulatory Compliance:** SupplyBloc's transparency, tracking, and auditing system will be a boon to both regulatory agencies and cannabis supply-chain participants. Regulators can easily, remotely, and effectively track & audit growers, distributors, manufacturers, dispensaries, consumers, and any other industry participants. Likewise, members of a cannabis supply-chain network will be able to quickly and painlessly provide proof of their compliance to both regulatory and industry standards.
- Retail/Dispensary:** Each sale and purchase of a cannabis product is tracked from the origin (seed) to the final customer/patient (sale). This is the unbroken chain of custody that is entirely transparent and easily trackable for participants. Dispensaries can efficiently ensure complete legitimacy of all sales in real-time. They'll have access to the entire life-cycle of all of their products and easily optimized customer relationships with our sophisticated inventory management system and CRM-style platform.
- Patient/Customer:** The traceability system creates a unique ID for all customers involved in the supply chain. This integrates with the hardware of patient ID card printing, allowing for easy access to all patient info and limitations on sales in real-time within the SupplyBloc ecosystem. Patients and/or customers will also have access to the SupplyBloc management system and be able to prove their legal or regulatory compliance as well as audit the complete history of the products they intend to purchase.