

Case for **Construction Company**

Supply Chain Management Solution on Blockchain to Modernize Construction Business_

Infopulse developed a solution to facilitate financial operations and lien waiver management

Industry: **Construction**

Location: **USA**



Client Background

A US-based construction company addressed Infopulse with the need to modernize their existing supply chain management system, connecting multiple parties involved in the construction process. Our team developed a working PoC of a blockchain-based digital platform bringing together all legal entities in the project's hierarchy.

Business Challenge

A US-based construction company addressed Infopulse with the need to modernize their existing supply chain management system (SCM), connecting multiple parties involved in the construction process.

The system had to:

- Facilitate multiple financial operations and enable secure and robust lien waiver management.
- Support a complex supply chain management hierarchy.
- Provide and limit access to sensitive data to specific participants involved in the construction.
- Simplify distribution of budget between different parties (budget owners, general contractors, sub-contractors, and suppliers).

The client also wanted to cut costs needed for intermediaries overseeing agreements and payment processing. It was also essential to build an effective scoring system allowing to select a subcontractor or supplier based on their rate and feedback from other general contractors.

Solution

- Our team developed a working proof of concept of a blockchain-based digital platform bringing together all legal entities in the project's hierarchy.
- Relying on Hyperledger Fabric smart contracts, the solution consolidates and automates siloed SCM processes and optimizes financial operations.
- Decentralized nature of blockchain excludes intermediaries.
- Additionally, it introduces a scoring system to allow budget owners and general contractors to pick out suppliers based on their performance evaluation scores.
- Enables private channels of Hyperledger Fabric to open access to sensitive data only to authorized participants.
- Ensures transparency and at the same time, limits access to information on payments and transactions to specific legal entities.



Technologies



Hyperledger Fabric



Quorum



Business Value

For budget owners and general contractors (GCs), the solution allows:

- Simplifying financial operations conducted in an integrated blockchain-based SCM system.
- Choosing and hiring sub-contractors/suppliers based on their score and evaluation marks from previous employers.
- Monitoring their work progress, contractual agreements, lien waivers, budget, invoicing, and payments.
- Handling contracts and transactions (including advance payments) within the project hierarchy.
- Facilitating management of lien waiver, issuance of payments, and work packages completion.
- Supervising the construction project and managing the accounts of the contractors and suppliers of all levels in the hierarchy.
- Improving sensitive data protection to other parties.
- Facilitating paperwork and automating invoicing, transactions, documents signing, etc.
- Speeding up supply chain management operations and construction processes.



About Infopulse

Infopulse, part of the leading Nordic digital services company Tietoevry, is an international vendor of services in the areas of Software R&D, Application Management, Cloud & IT Operations, and Cybersecurity to SMEs and Fortune 100 companies across the globe. Founded in 1991, the company has a team of over 2,300 professionals and is represented in 7 countries across Europe and the Americas.

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For more information, please visit www.infopulse.com

Contact us

PL +48 (221) 032-442

DE +49 (69) 505-060-4719

US +1 (888) 339-75-56

UK +44 (8455) 280-080

UA +38 (044) 585-25-00

BG +359 (876) 92-30-90

BR +55 (21) 99298-3389

 info@infopulse.com

