**Problem**

The economy of El Salvador is heavily reliant on their coffee industry. Unfortunately, their coffee laborers are often underpaid or not paid at all. This problem results from the malpractice demonstrated from corrupt third parties.

**Solution**

Our application tracks the payment history of workers and displays it on coffee bag packaging in the form of a scannable QR code. Conscious consumers will be empowered to support farms that pay their workers a fair wage.

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**Our Smart Contract**

Executable code stored on the Ethereum blockchain (distributed immutable ledger)

Functions on our smart contract are called in the mobile app, logging days worked and payments on-chain.

**theGraph protocol**

Middleware for organizing on-chain data into easily queryable tables.

**Frontends**

**Mobile Applications:**

- The Farm
  - Create a Foreman
  - Pay Checked-In Workers

- The Foreman
  - Check in Workers with a QR Scanner

- The Worker
  - Sign into farms
  - See the days that you have Checked-in

**Web Application:**

View publicly accessible worker payment history for coffee bags

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**Pivot**

Migrated from building on Bitcoin to Ethereum because of its native support for smart contracts.

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**Results**

- A scalable, cost-efficient platform that successfully circumvents corruption

**Next Steps**

- On-the-ground testing in El Salvador
- Basic training & tutorials for the workers in El Salvador
- The addition of the remaining supply chain nodes in the final solution

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**Café Justo**

"Fair Coffee"

Verifying fair wages for coffee laborers in El Salvador

Kenneth Cho, Joss Duff, Hudson Pavia, Justin Venezia

Special thanks to: Eric Grill, Roberto Salaverria, Prof. Smith, Prof. Korth