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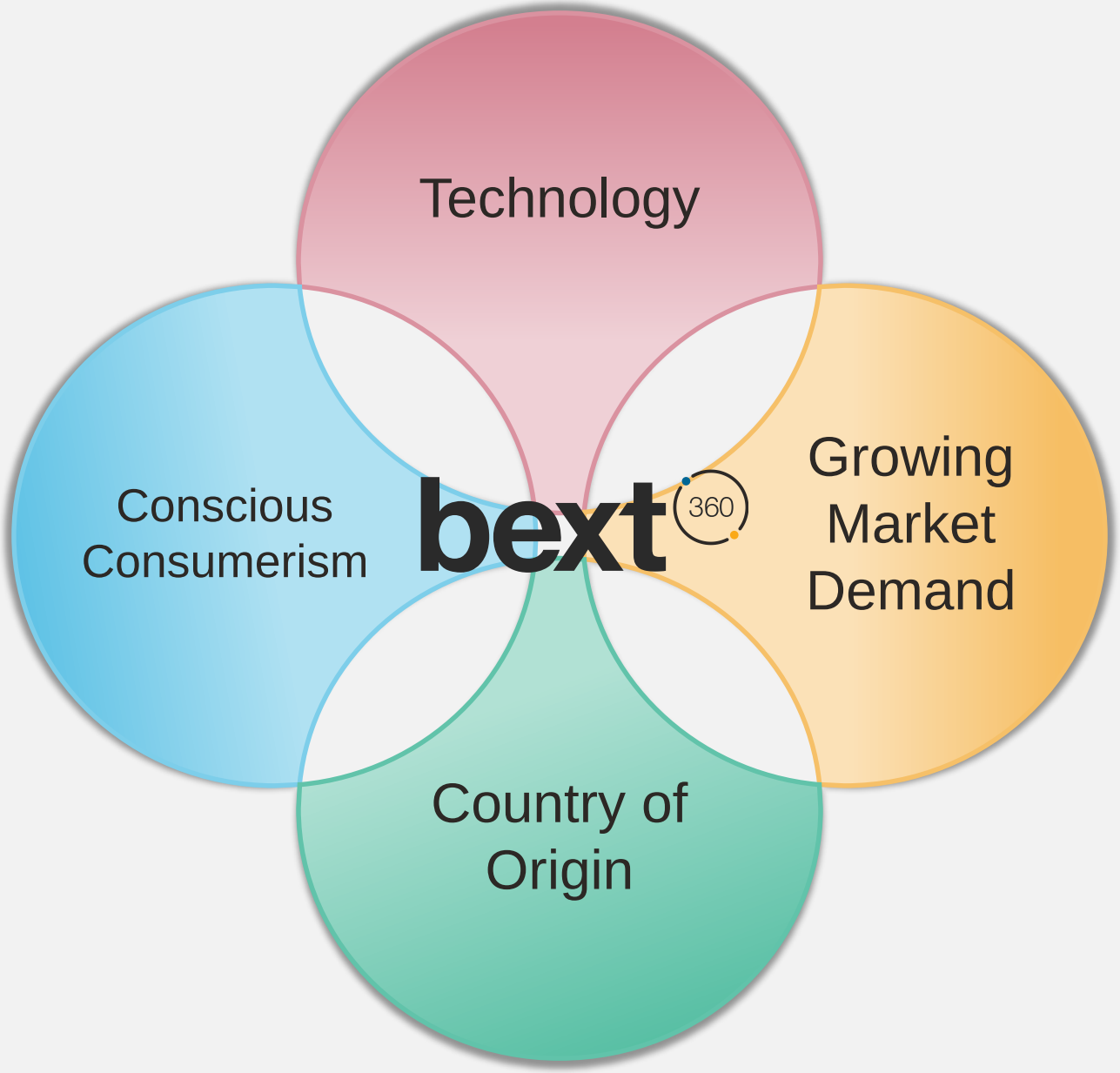
bext360 – 4 Major Changes in Global Supply Chains



Technology Infrastructure

Blockchain, Internet-of-Things (IoT), Machine Vision, Machine learning, Digital Payments

Driven by other sectors such as Autonomous Cars and Crypto currencies.

Growing Demand For Commodities

Coffee 50% Increase by 2032. Supply & Demand gap.

Country of Origin Infrastructure

Electricity, Cell/Smart Phones, Mobile Payment, Microfinance/SME Lending, Growing Domestic Markets for Goods.

Conscious Consumerism

Conscious Consumerism- 8 in 10 consumers check the origin of their food when purchasing products

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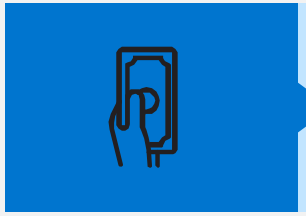
Technology – Finance – Blockchain

Goal

Increase business success of coffee producers



Loans and Timely Payment

Risk Mitigation

Value of product

Fair Participation in Global Supply Chain

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Available Proven Technologies

bext360 – 4 Major Changes in Global Supply Chains

Technology

BLOCKCHAIN

Immutable record of origin

Smart Contracts

Traceability

Transparency

CRYPTOCURRENCY

Digital Payments

Inventory Valuation

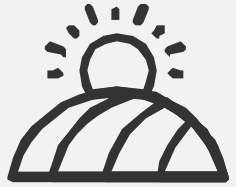
Working Capital Loans

Capital Equipment Finacing

AI/MACHINE LEARNING

Closed loop analysis

Rapid Classification of objects



MARKERS

Florescent
Food Grade Markers
DNA sequence
Unique Identification

VERIFICATION

AI/Machine Vision

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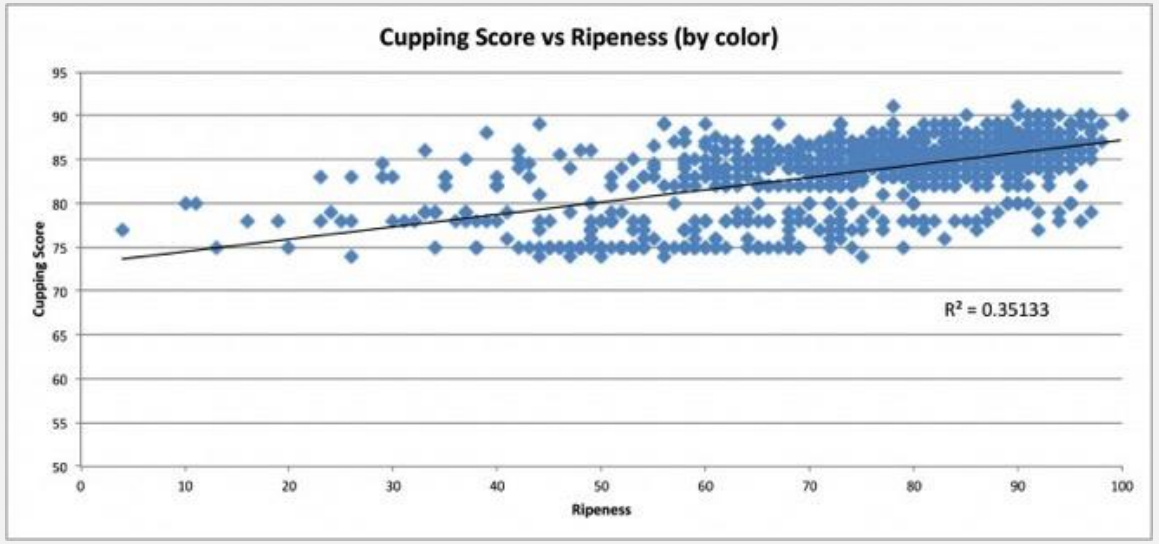
Machine vision AI inference

~10,000 objects per minute
~166 objects per second
Inference done in parallel ~9ms per
30 milliseconds to sort



Machine Vision and Artificial Intelligence
Identify Quality and Disease

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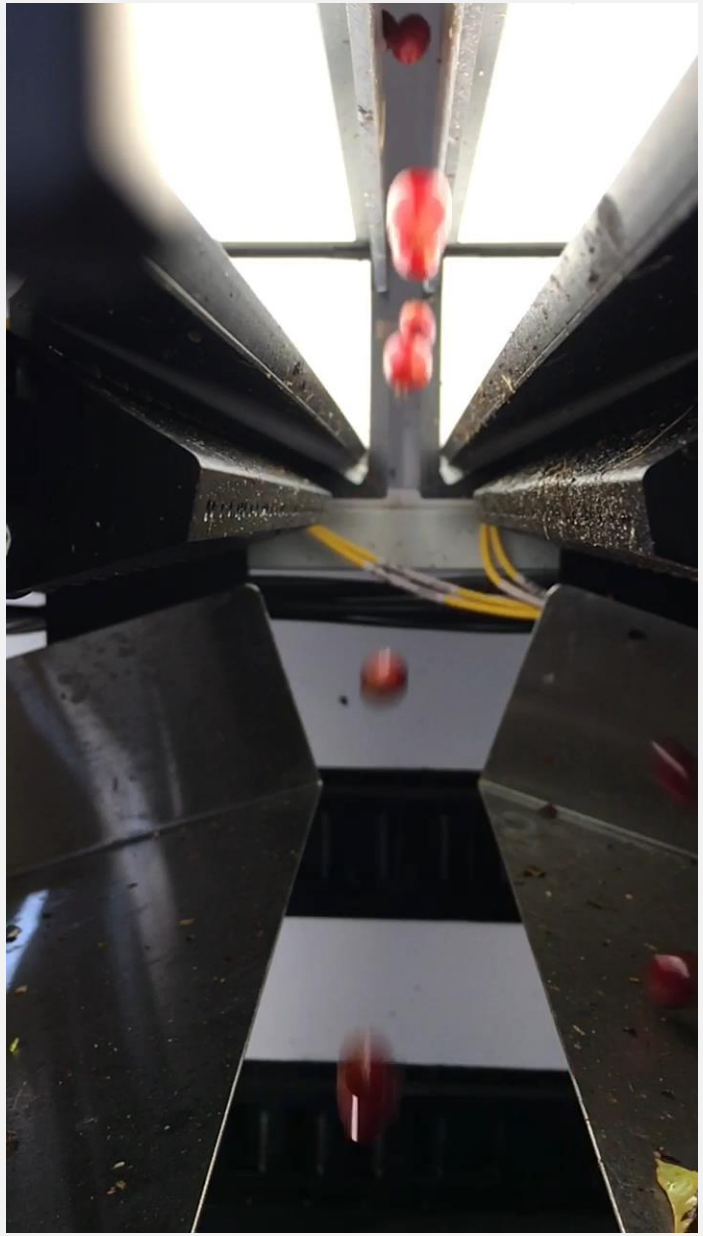

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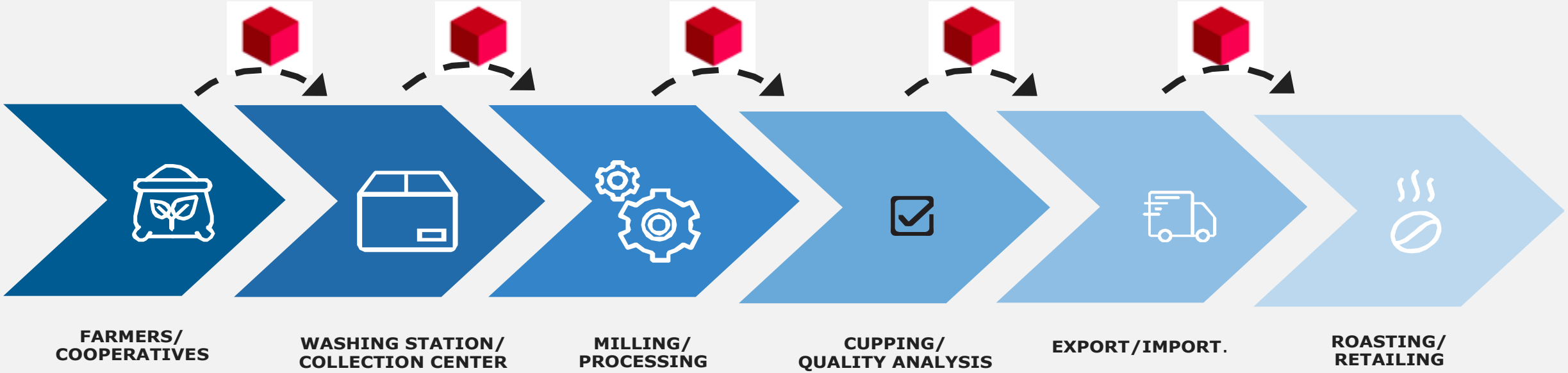
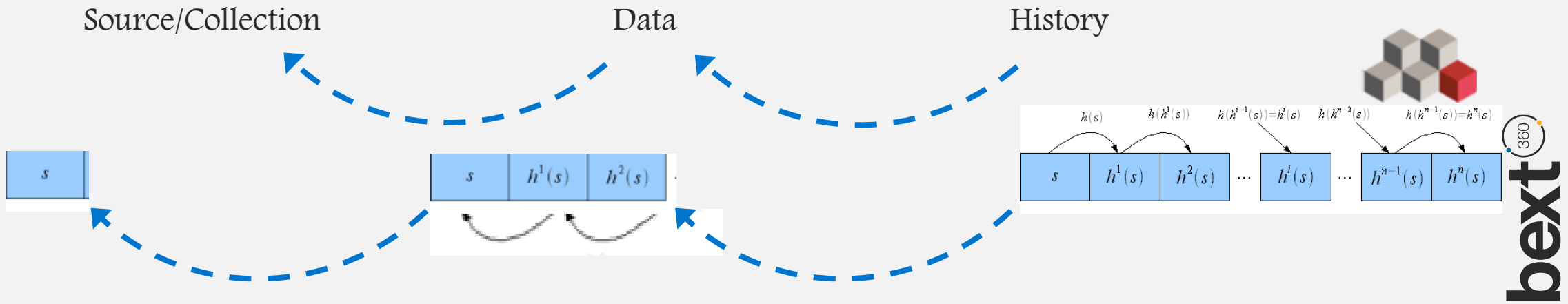
Traceability:
source to destination and back





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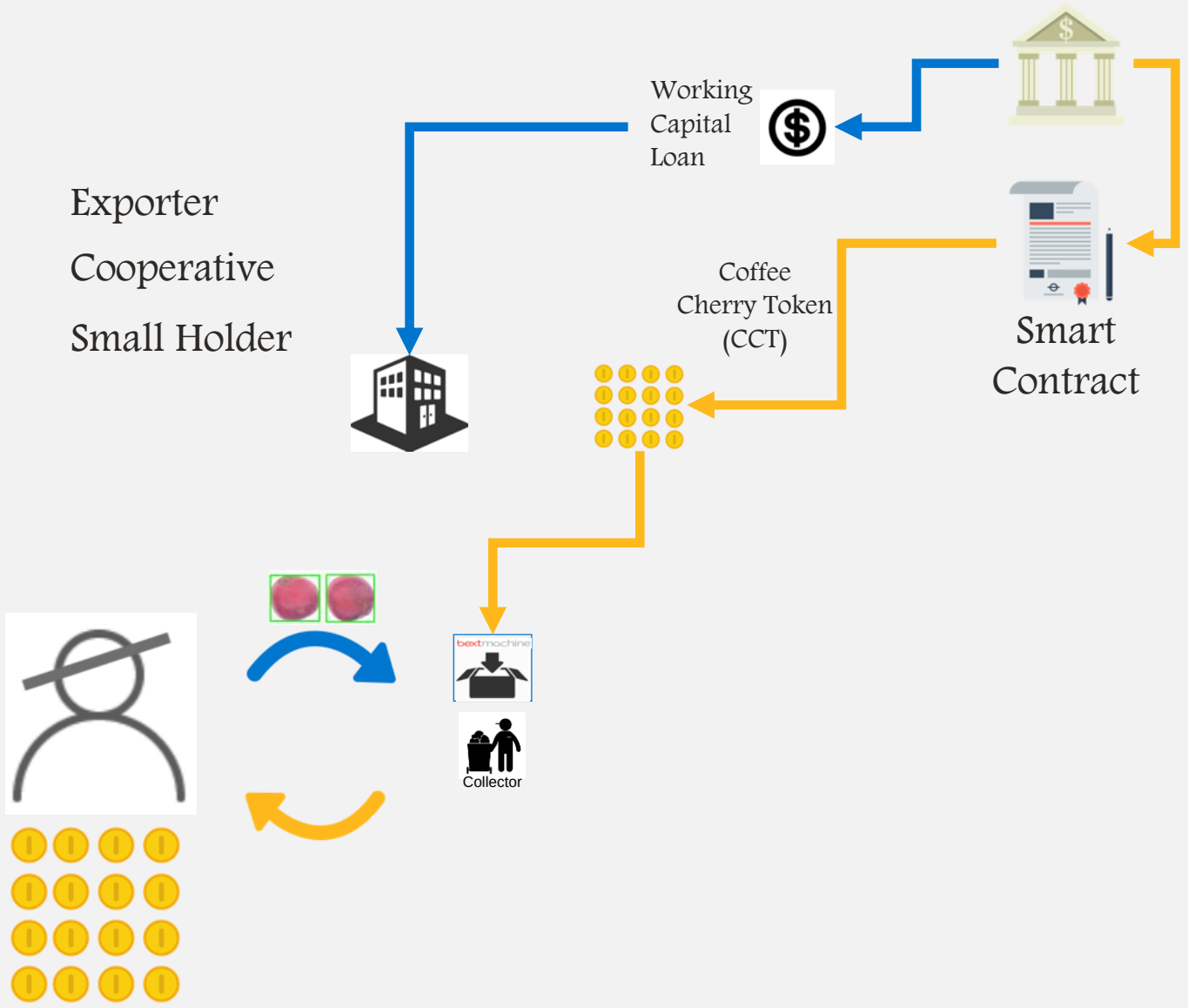
Providing capital to producers



Bank

Multilateral Organization (IFC, IDB, OPIC)

NGO (CRS, Bloomberg, CGI)

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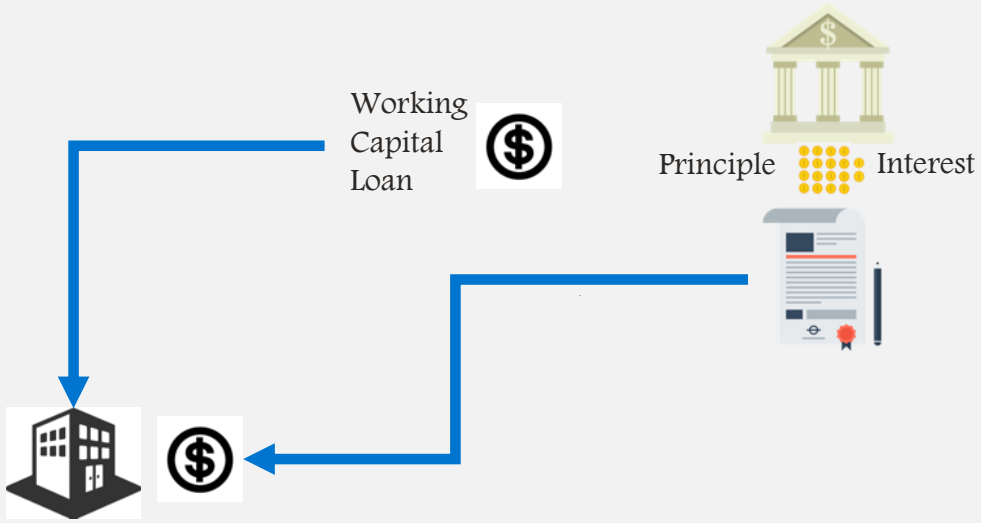
Providing capital to producers

Exporter

Cooperative

Small Holder

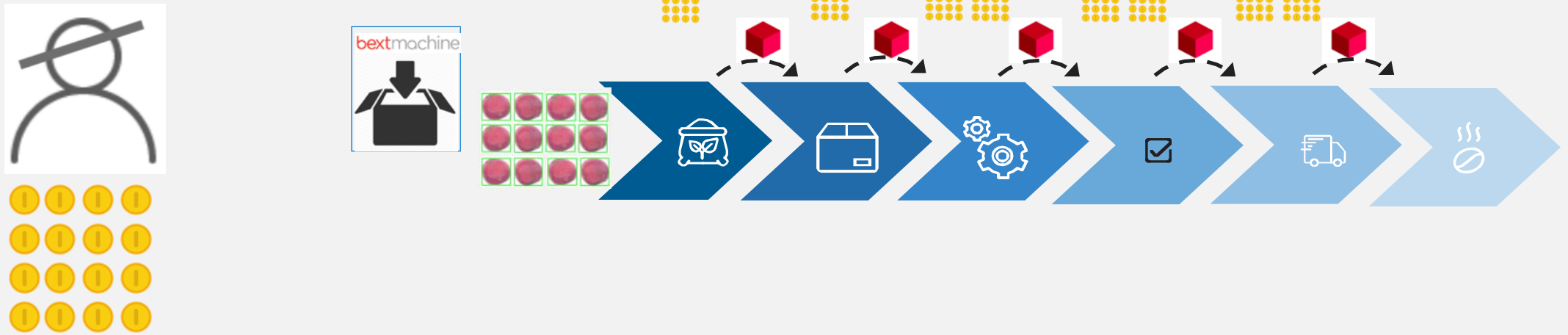


Bank

Multilateral Organization (IFC, IDB, OPIC)

NGO (CRS, Bloomberg, CGI)

Roaster



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Providing capital to producers

Exporter

Cooperative

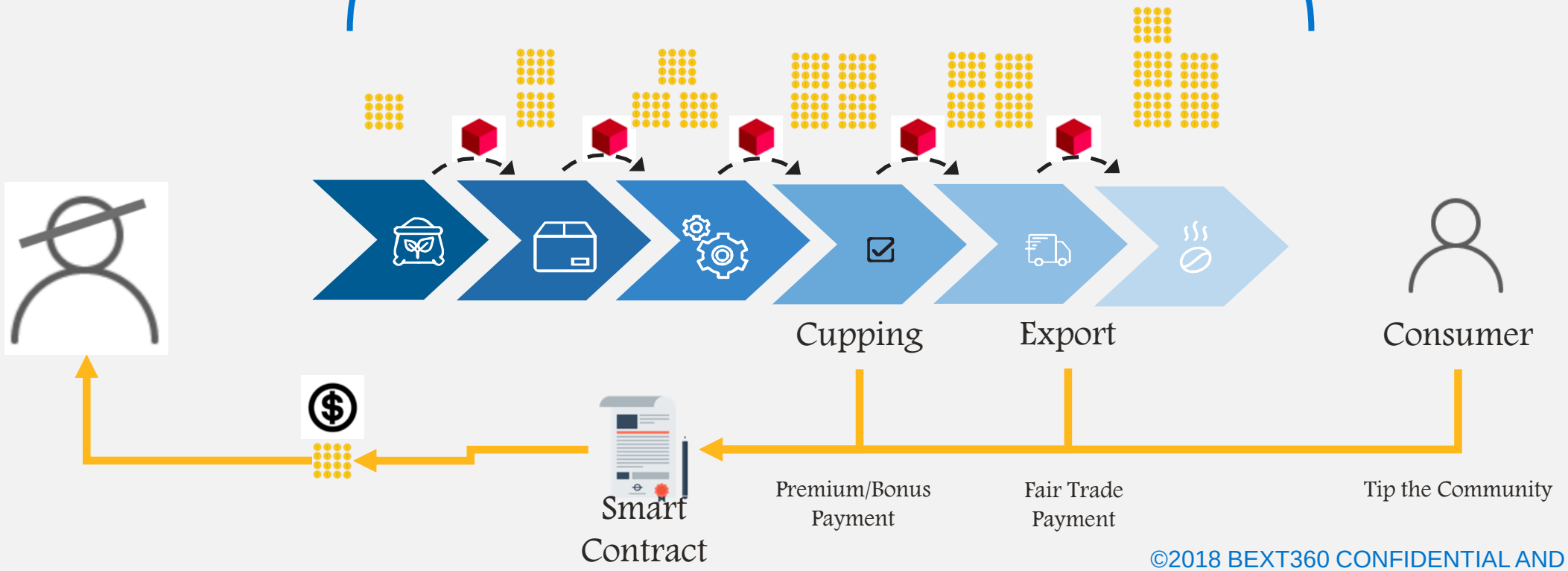
Small Holder

Bank

Multilateral Organization (IFC, IDB, OPIC)

NGO (CRS, Bloomberg, CGI)

Complete Transparency



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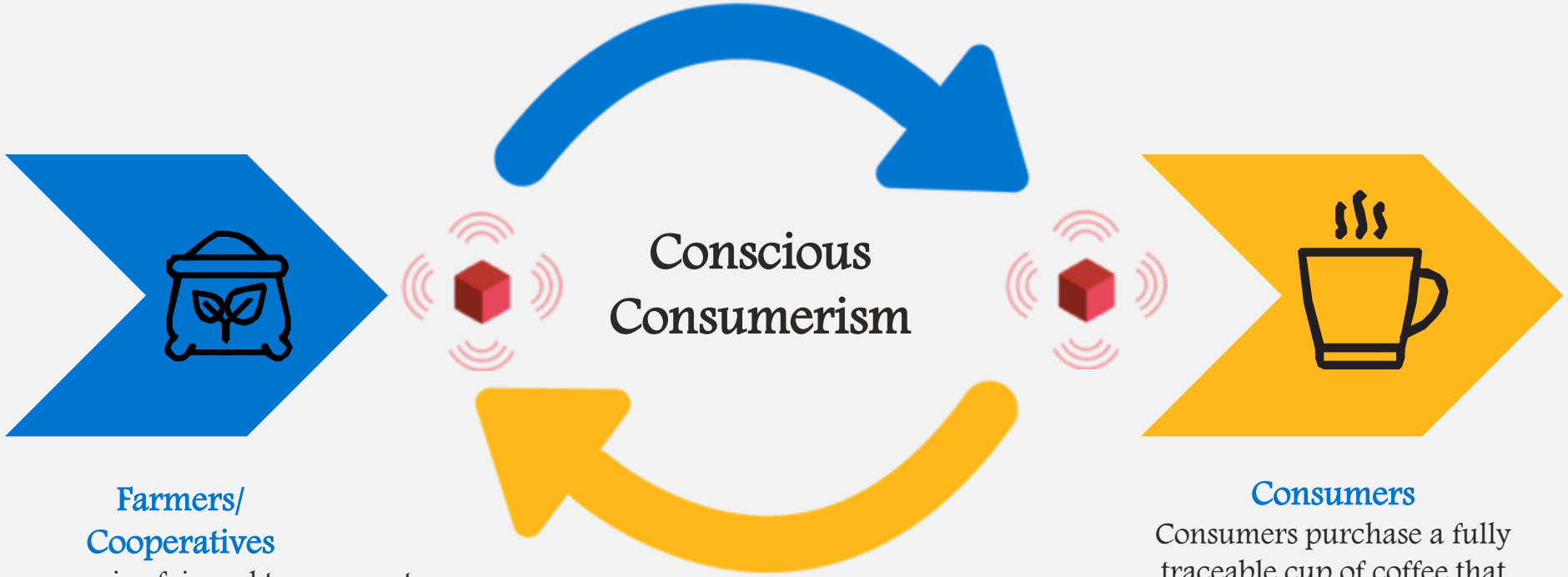
Enabling conscious consumerism



Farmers/ Cooperatives
Farmers receive fair and transparent payment for their coffee– immediately, cutting out middlemen who offer below market prices.

Community
Churches, Hospitals, Internet, Power, Schools (CHIPS)

Consumers
Consumers purchase a fully traceable cup of coffee that was sourced using a "trust" network.

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Markers

Marking

Verification

MARKING TECHNOLOGIES

Tagging (RFID)

DNA

Environmental Conditions

Advanced Markers

VERIFICATION

Off-Line
In-Line

Cost/Time

Artificial Intelligence to
Identify Fraud

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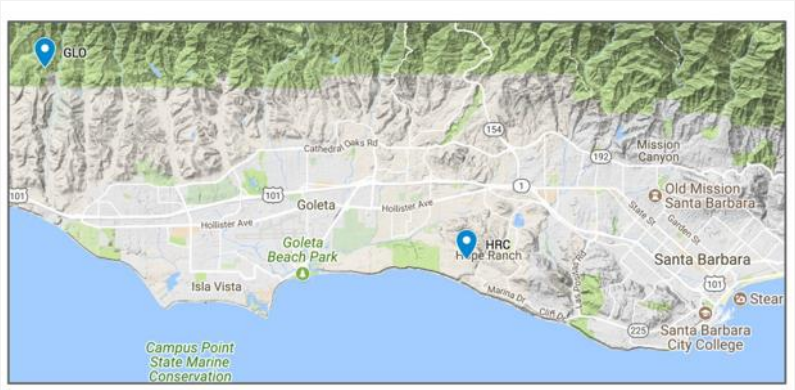
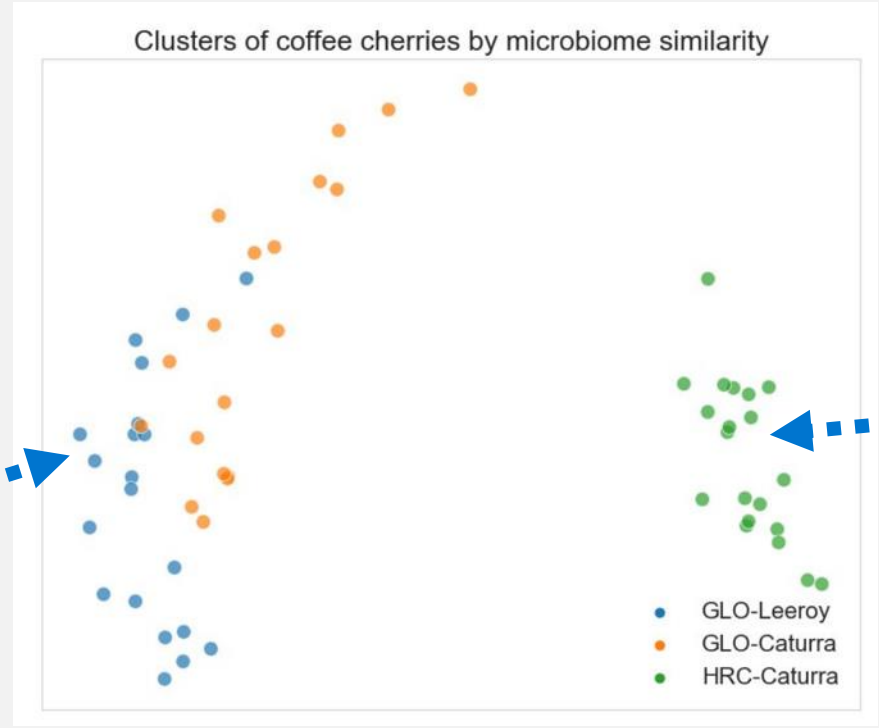
DNA Origin, Organic and Varietal Markers



Good Land Organics



Hope Ranch

Microbial signatures from cherries were **clearly differentiated** between farms.

Deep neural network classifier correctly identified the varietal with 100% accuracy.

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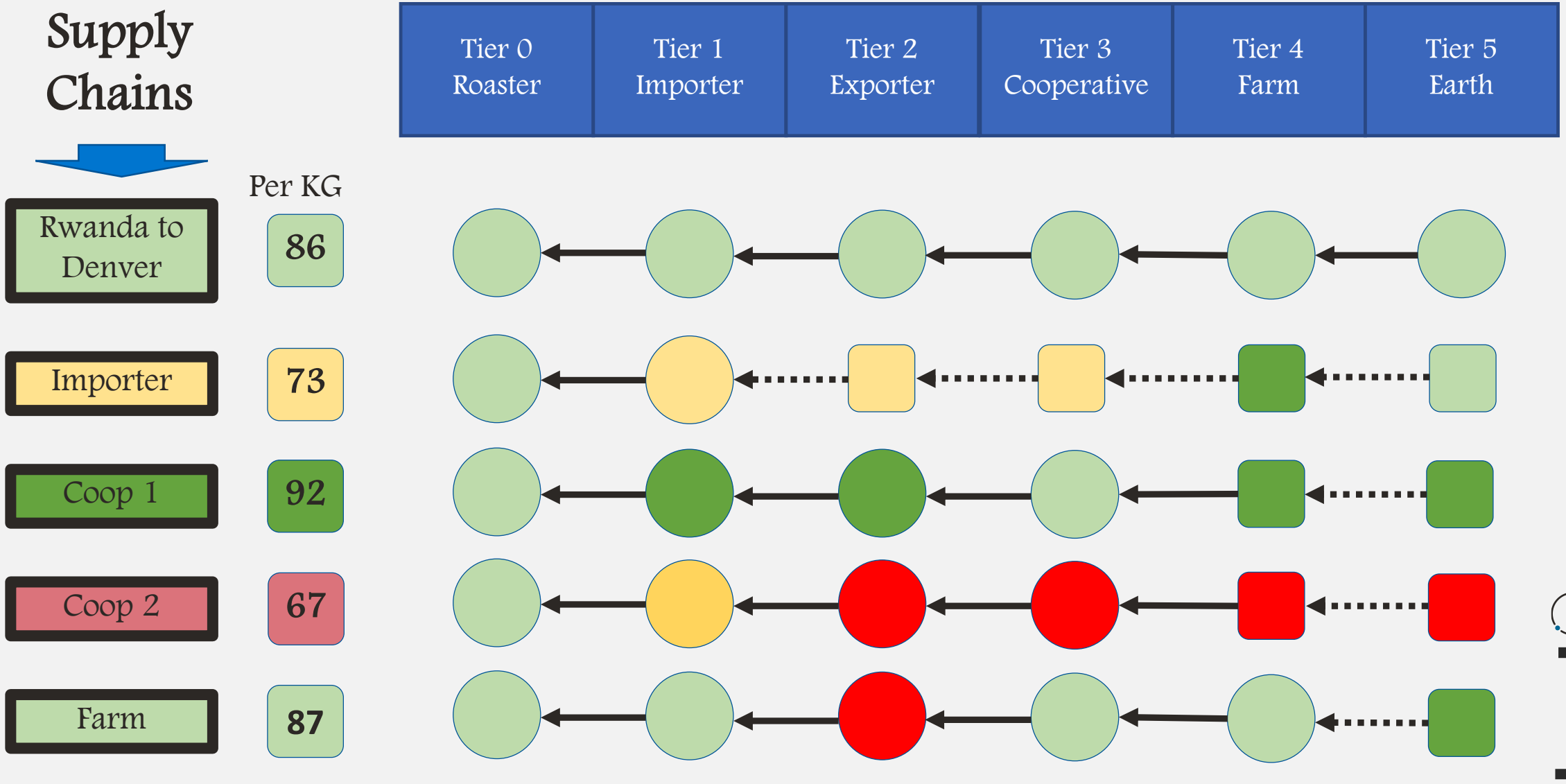
Digitized Supply Chain

Sustainability Quantified



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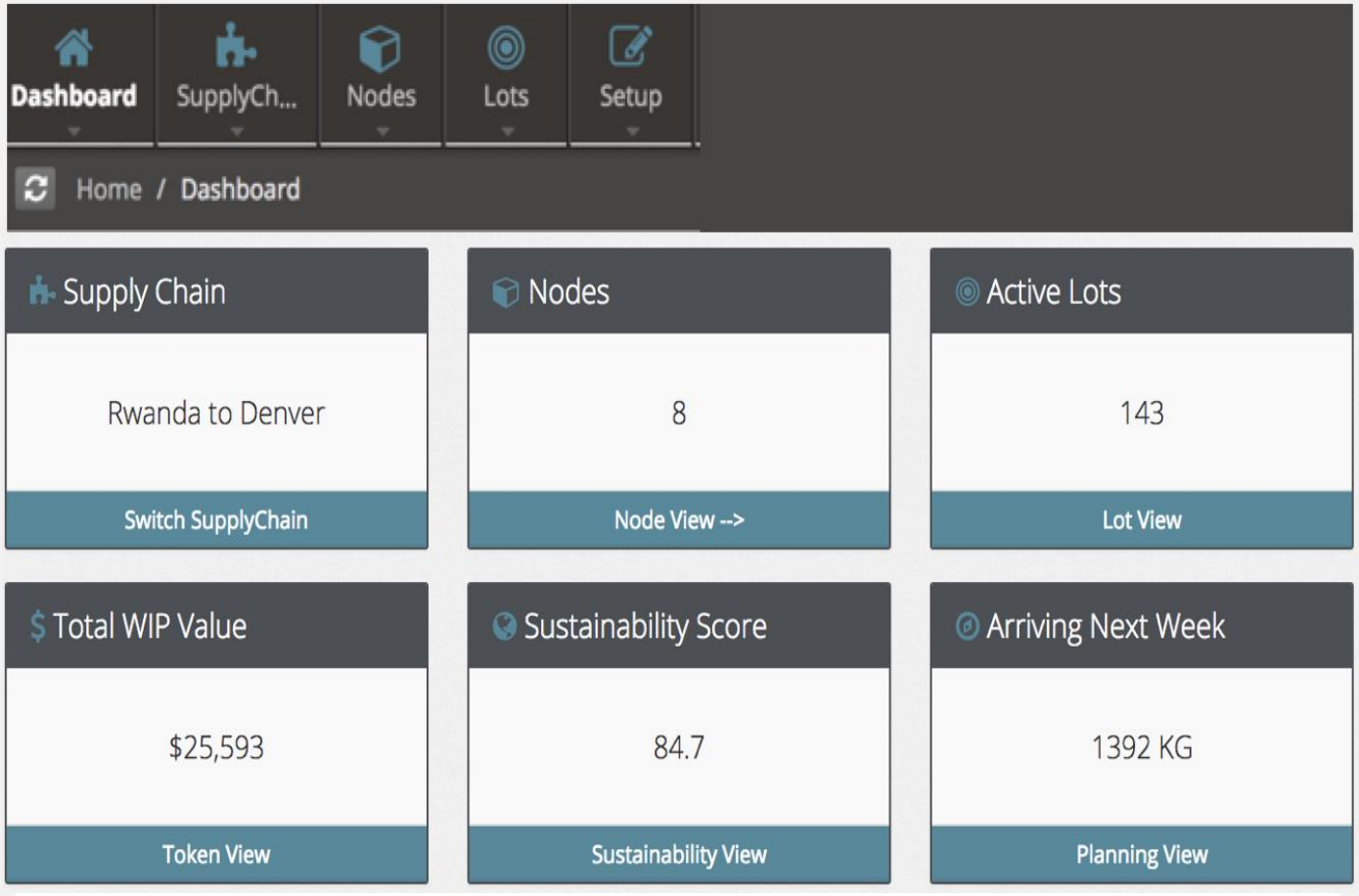
Software as a Service (SaaS)
Traceability and Sustainability

Every single step—at your fingertips.

- Immutable Blockchain
- Sustainability Metrics and Actionable Management Tools
- Track Across Multiple Owners
- Tokenized Value for Commodities Enabling Lending
- Marking and Verification

Verifiable *proof* that you are doing *everything* you claim to be.



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