Building a Vision for Global Organic Oversight Technology

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February 2019
USDA Principles for Organic

• Protect the integrity of the USDA organic certified seal.

• Deliver efficient and effective oversight of organic production practices, to ensure organic products meet consistent standards.
NOP Priorities

1. Strong Organic Control Systems

2. Farm to Market Traceability

3. Robust Enforcement

4. Support the Standards; Collaborate with Community

- Trusted People, Processes, and Rules
- Worldwide Supply Chain Integrity
- A Level Playing Field for All
- Engagement and Transparency
What Is Blockchain?

• Emerging technology that could strengthen the National Organic Program’s work to protect organic integrity from farm to table.

• What’s the Goal?

  – Market surveillance
  – Risk-based fraud detection
  – Supply chain traceability
  – Certification verification
  – Transaction approvals

  – Trusted user authentication
  – Secure data exchange
  – Global organic mass balance
  – Motivator for data quality improvements
The Vision: One Unified Blockchain?

U.S. Entry: Data Transmitted into ACE Organic Import Certificate

National Organic Program: Full Visibility for Audits

Farms or Initial Consolidation Points

Handlers/Brokers

Organic Certifiers Confirm Transaction Authenticity

Challenge: Connect Data & Product!
The Vision: Connected Data Streams?

Organic Oversight Blockchain
Fed By and Feeding Other Blockchains or Systems

Government

Supply Chain

Challenge: Connect Data & Product!
The Vision: Boundary, Import/Export Focused?

Import/Export Data Harmonization and Exchange

Country-Level Public Organic Operation Registries
Elements to Work Through

• Goal  Problems to Solve, Questions to Answer
• Scope  Participants, Organic Frameworks
• Drivers  Participant Value, Mandates, Incentives
• Governance  Policies, Processes, Roles, Investments
• Architecture  Functional, Organizational, Technical
• Data  Elements, Ownership, Governance
• Standards  Translations, Mappings
• Metaphor  Our Terms Define Our Future
Initiating Iterative Learning

- Where are we headed?
- Where should we begin?
- Who has what roles?
- Who should be engaged?
- How do we best convene?
Global Organic Integrity

Organic Integrity from Farm to Table
Consumers Trust the Organic Label