

# Blockchain SaaS: TRANSPARENCY & TRACEABILITY IN AGRI VALUE CHAINS

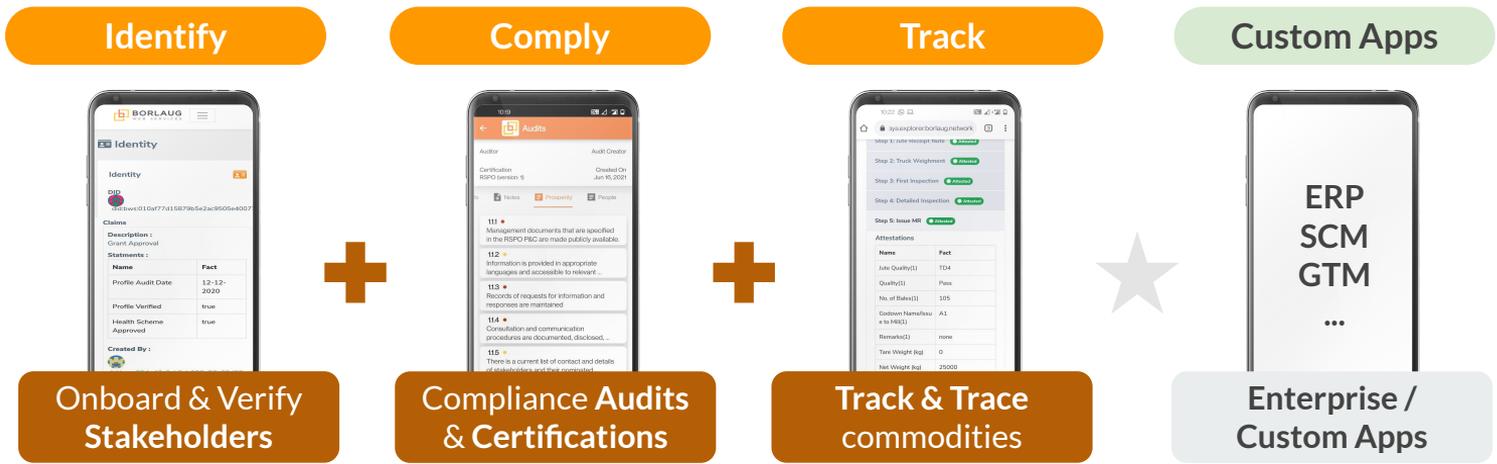
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# Is your honey ethically sourced?



*Opaque supply chains mean potential...*

# BWS: Blockchain SaaS for Traceability & Transparency

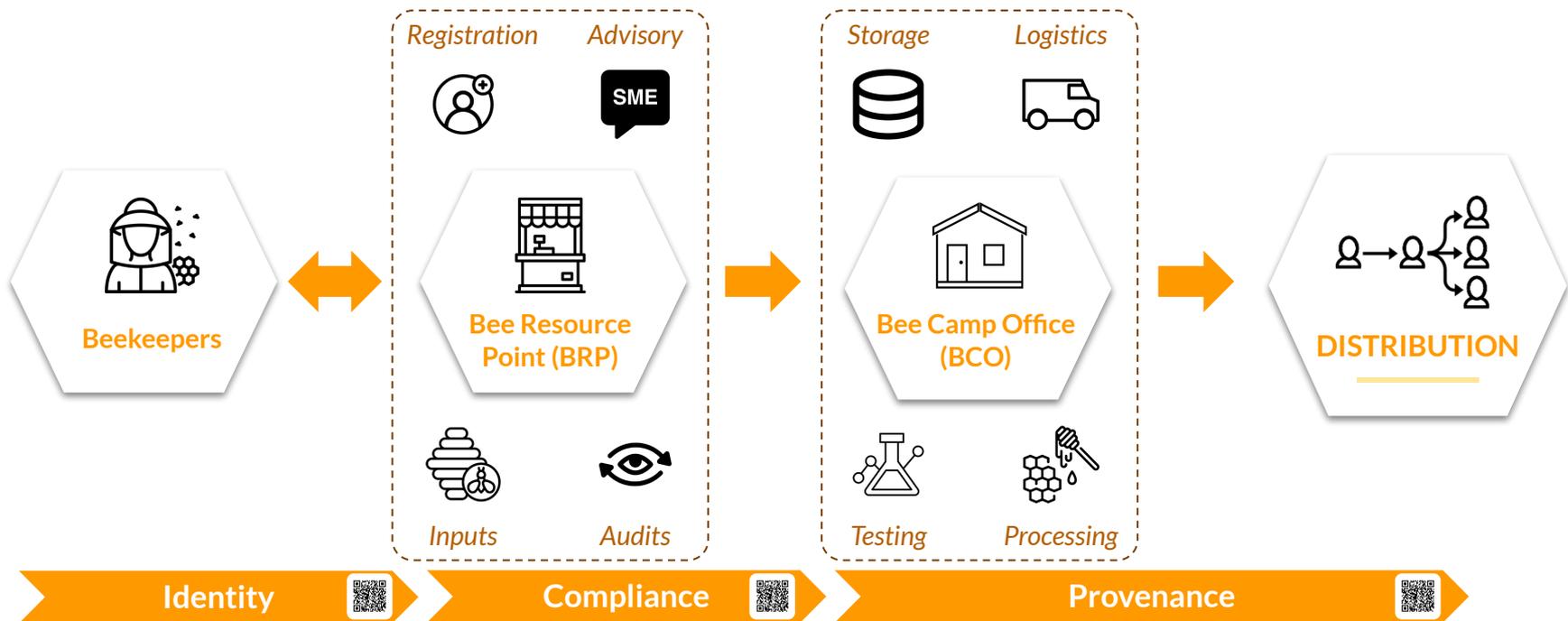


**BWS API SaaS Modules (Licensed for instant Blockchain Access)**  
(Identity, Provenance, Audits, Governance and more)

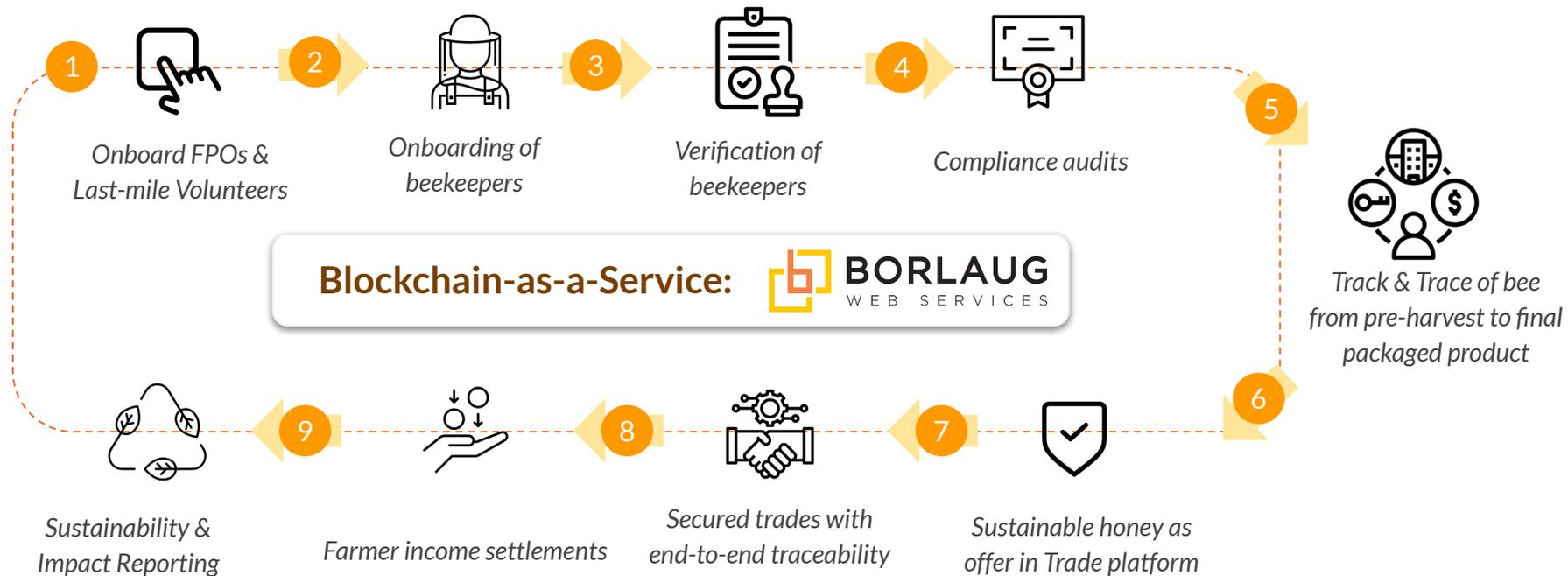


▶
● *Auditable*
● *Verifiable*
● *Tamper proof*

# Honey traceability platform - Business Model



# Honey Traceability - Implementation Approach





# FPO Benefits

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## Business



Enabling Curated  
Marketplaces

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Improved Visibility,  
Control & Compliance

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Facilitate access to credit  
Reduce value chain losses

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## Technology



Proof of origin  
Extn. to Govt. portals

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Purpose-built Blockchain:  
Lower transaction fees

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Zero Code & Value  
Chain Agnostic

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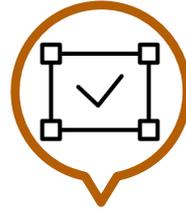
# Future roadmap: Carbon Sequestration Reporting

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## MEASURE

Carbon Accounting Tools to support companies calculate carbon emissions



## COMPLY

Reporting standards, Guidelines & Frameworks as per latest regulations

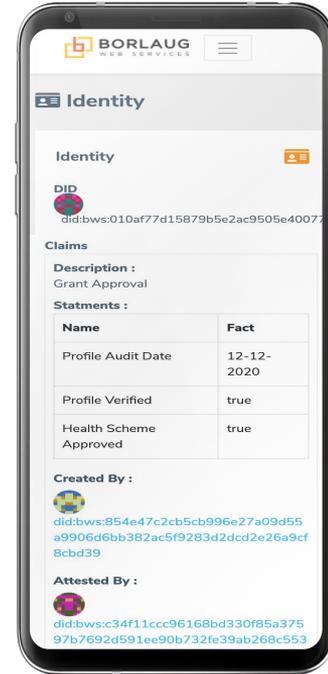
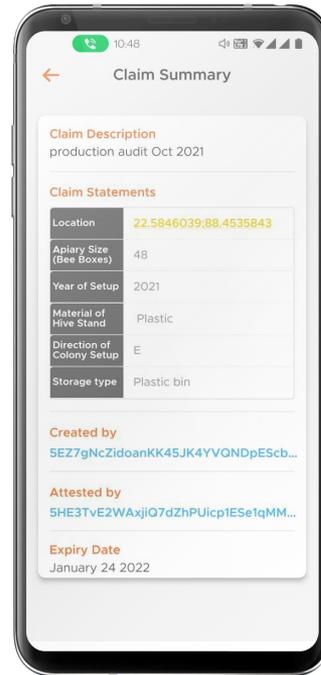
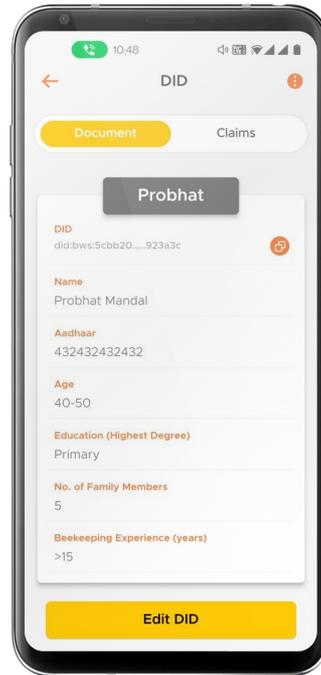
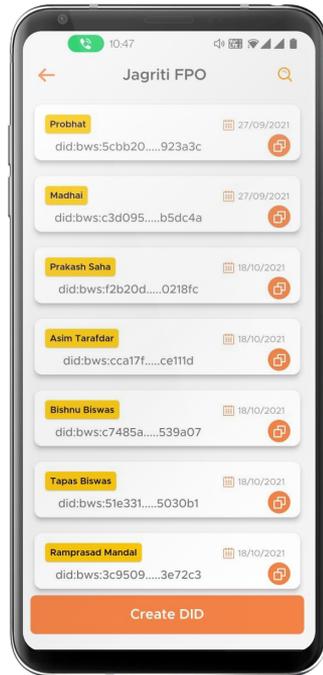


## SHARE

Disclose calculated Emissions with relevant stakeholders

**Carbon Coins:** Leveraging the layer-0 economy for effective tracking of carbon measurement, usage and compliance

# Farm & Farmer Identifiers with continuous Audits



# Compliance audits on Blockchain

Audits / Verifications
← Back

In Progress  
 Status

**Qlikchain International B.V.**  
 Auditor / Verifier

**Surechain**  
 Audit Creator

GAP (version: 1)  
 Certification

July 23rd 2021  
 Created On

Info
Notes
All Farm Base
Crop Base
Fruits & Vegetables
Custom
Attachments
Link Audit
Timeline
Auditor Assignment

Action ▾

- 1 TRACEABILITY
- 2 PROPAGATION MATERIAL
- 3 SOIL MANAGEMENT AND CONSERVATI...
- 4 FERTILIZER APPLICATION
- 5 WATER MANAGEMENT
- 6 INTEGRATED PEST MANAGEMENT
- 7 PLANT PROTECTION PRODUCTS
- 8 EQUIPMENT

### 1. TRACEABILITY

Traceability facilitates the recall/withdrawal of foods and flowers and ornamentals and enables customers to be provided with targeted and accurate information concerning implicated products.

**1.1**
Major

Is GLOBALG.A.P. registered product traceable back to and trackable from the registered farm (and other relevant registered areas) where it has been produced and, if applicable, handled?

Observation

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# Track & Trace Commodities

## PROVENANCE

Home

Process Registries

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Completed Processes 12

Awaiting Attestation 8

PROVENANCE > REGISTRIES

## Process Definition Registries

Process Definitions are organized into Registries to make them easier to manage.

50 items/page

NAME	CREATED ON	TRANSACTION
Honey Production		
Crop Passport		
Commodity - Track and trace		

Showing 1 to 3 of 3 entries

### PROCESS-21-2021-10-2 In Progress

#### PROCESS STEPS

A Process consists of a set of steps. It must be signed off by any of the designated **Attestors** who provide a set of statements or facts about the step and attest that they are accurate.

- Business Details
- Grain Movement Decla.....
- Vehicle Hygiene (1st.....
- Inspection of Vehicl.....
- Post Harvest Treatme.....

#### Grain Movement Declaration

Crop Type	Olseeds
Variety (if applicable)	Palm Oil
Store/Bin No./Name (if applicable)	BN7676
Loading Date	04/10/2021
Harvest Year (if applicable)	2021

Progress

Application & Registration Attested

#### Attestations

Name	Fact
Organization Name	Agro Industries
Seed Name	Mustard
Batch Number	M1209

Attested By Qlikchain Org Admin

 [did:bws:aecbedef493d87a5037e1c8f09b21f22076fbc94b72e91923212d9171504de7](#)

Verification of Seed Source Attested

Crop Area Mapping (Location Survey) In Progress

Field Inspection (Pre-Flowering) Pending

Field Inspection (Flowering) Pending

Field Inspection (Pre-Harvest) Pending

Field Inspection (Harvest) Pending

Supervision at Post Harvest Pending

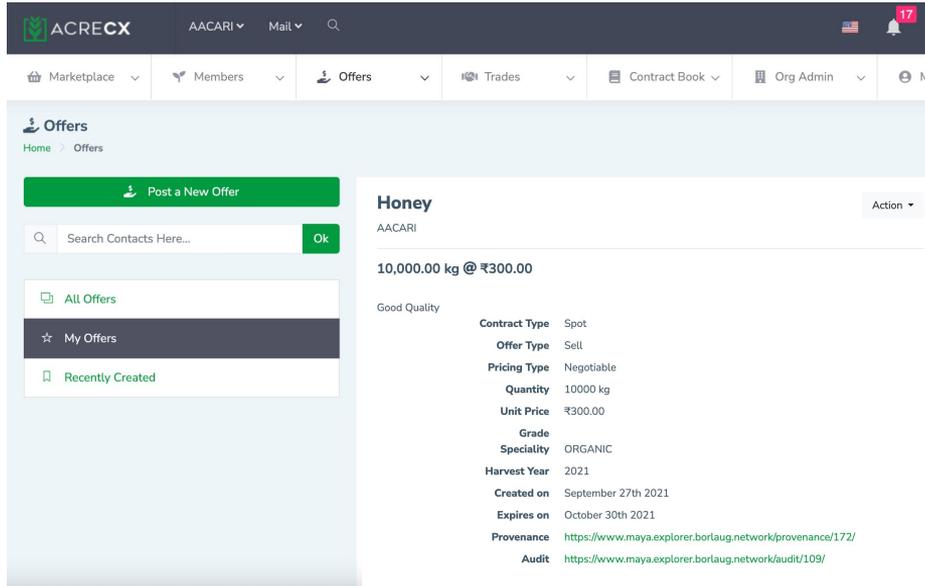
Analysis of Seed Samples Pending

Grow -out Test Pending

Certification, Labeling & Sealing Pending

Traceability Pending

# A Traceable & Secure Marketplace



**ACRECX** AACARI Mail

Marketplace Members Offers Trades Contract Book Org Admin

**Offers**

Home > Offers

Post a New Offer

Search Contacts Here... OK

All Offers

My Offers

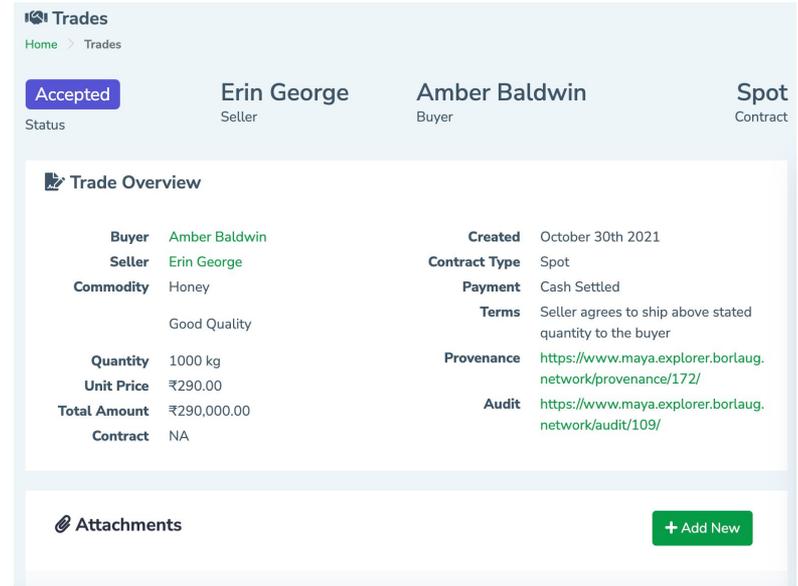
Recently Created

**Honey** AACARI

10,000.00 kg @ ₹300.00

Good Quality

<b>Contract Type</b>	Spot
<b>Offer Type</b>	Sell
<b>Pricing Type</b>	Negotiable
<b>Quantity</b>	10000 kg
<b>Unit Price</b>	₹300.00
<b>Grade</b>	
<b>Speciality</b>	ORGANIC
<b>Harvest Year</b>	2021
<b>Created on</b>	September 27th 2021
<b>Expires on</b>	October 30th 2021
<b>Provenance</b>	<a href="https://www.mayaexplorer.borlaug.network/provenance/172/">https://www.mayaexplorer.borlaug.network/provenance/172/</a>
<b>Audit</b>	<a href="https://www.mayaexplorer.borlaug.network/audit/109/">https://www.mayaexplorer.borlaug.network/audit/109/</a>



**Trades**

Home > Trades

Accepted

Status

**Erin George** Seller

**Amber Baldwin** Buyer

Spot Contract

**Trade Overview**

<b>Buyer</b>	Amber Baldwin	<b>Created</b>	October 30th 2021
<b>Seller</b>	Erin George	<b>Contract Type</b>	Spot
<b>Commodity</b>	Honey	<b>Payment</b>	Cash Settled
	Good Quality	<b>Terms</b>	Seller agrees to ship above stated quantity to the buyer
<b>Quantity</b>	1000 kg	<b>Provenance</b>	<a href="https://www.mayaexplorer.borlaug.network/provenance/172/">https://www.mayaexplorer.borlaug.network/provenance/172/</a>
<b>Unit Price</b>	₹290.00	<b>Audit</b>	<a href="https://www.mayaexplorer.borlaug.network/audit/109/">https://www.mayaexplorer.borlaug.network/audit/109/</a>
<b>Total Amount</b>	₹290,000.00		
<b>Contract</b>	NA		

**Attachments** + Add New

# Our Impact stories worldwide...



**15%**

Additional gains for Coffee value chain



Uganda

- Verified Identities of **Farmers & Coops**
- Access to **VSS certified coffee** @ 3% added cost
- UNDP funded programme

**6X**

Increase in revenues for Olive farmers



The Netherlands

- **Subscription (Adoption) Marketplace** on BWS
- Certified **Farm to plate**
- Access to **Finance & Market** for Spanish growers

**18%**

Reduction of detention losses for Jute Mills



India

- **Verified Identities** of sellers & agencies
- **Efficient Audits** on BWS
- **20% Improved efficiency** in raw jute procurement



**2X**

Increase in revenues for Beekeepers



India

- **Scientific** beekeeping & **traceable** value chain
- **Waste to wealth** products
- Access to **Finance & Market** for Unifloral Honey

# Key Business Updates

## Business Updates

- Live Customers in **EU, Africa and Asia**
- Grants from **UN & EU**
- Joint Tech development & GTM with **ICAR & ICRISAT**
- Core advisory to **Govt. of India** for **Blockchain standards**



## Incubation & Grants



## Partners & Affiliates





## In the News



Organizing Agri value chain data ensuring its traceable, verifiable, auditable & accountable

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