

# Cases of Blockchain use in Agriculture

Results from a CTA funded review by WUR of applications using blockchain, of relevance to agriculture in ACP countries



Initiative						Blockchain						Impact					
Name	Logo	Goal	Type org	Name	Country	Application	Created	Status	Token	Consensus Algorithm	Protocol	Country PCA	Region	Subject	Category	Solution	Beneficiaries
<a href="#">Agriledger</a>		Social enterprise project using distributed ledger technology and mobile apps for agricultural producers.	For profit	Agriledger	United Kingdom	Mobile app	2016	Active				TBD	TBD	Agriculture	Farmers Participation	improving tools supply chain	participants agricultural supply chain
<a href="#">Bext360</a>		Supply chain management	For profit	Bext360	United States	Platform	2016	Active			SaaS	Uganda	Africa	Food		Supply chains of coffee, seafood, timber, minerals, cotton, palm oil.	Value chain
<a href="#">Binkabi</a>		Decentralised agricultural commodity trading	For profit	Binkabi	United Kingdom	Platform	2017	Active			Barter Block		Africa	Trading		decentralised commodity trading	the network
<a href="#">Bitseeds</a>		Plant seeds/trees per token	Foundation of start up	BitSeeds	United States	Token	2016	Running		Proof of work Proof of stake	Bitcoin	Japan	Pacific	Forestry	Resilience	Planting trees	Rainforest Foundation
<a href="#">Bitt</a>		Payment system/digital asses exchange	Early stage venture	Bitt	Barbados	Platform/wallet	2013	Active				Barbados	Caribbean	Finance	Remittances	Cryptocurrency in emerging markets	Diaspora, people transferring money
<a href="#">Project X</a>		Development of a sustainable entrepreneurial culture	Foundation											Entrepreneurship	Market Access	Sustainable entrepreneurial culture	Community
<a href="#">Cardano</a>		Blockchain in Coffee supply chain	Foundation	IOHK	UK	Protocol	2018	<a href="#">Trial</a>			Cardano	Ethiopia	Africa	Food	Traceability	Tracing coffee	value chain, consumers, regulators
<a href="#">Cashaa</a>		No-fee remittance system	Tech Start up	Cashaa	London	Wallet / App	2016	Active			CAS	Nigeria	Africa	Finance	Remittances	Inefficient remittance process	Diaspora, people transferring money
<a href="#">Demeter</a>		A central hub to rent and farm micro fields anywhere in the world	Tech Start up	Demeter.life	Hong Kong	Platform, Token (DME)	2017	Developing		PoW	Ethereum	TBD	TBD	Agriculture	Landownership	Higher wages farmers Lower consumer price Transparent chain Efficient shipping times	Farmers/valuechain
<a href="#">Dorae</a>		Tracing raw materials (cobalt, coltan)	Private company	Dorae inc.	US/UK/Cayman	Platform	2014	<a href="#">Use Case</a>		PoW	Ethereum	DRC	Africa	Mining	Traceability	traceability raw materials	Value chain
<a href="#">Etherisc</a>		(crop) insurance	Tech Start up	Etherisc	US											Resilience	
<a href="#">Fairchain</a>		Create a fair chain for coffee	Private company	Moyee Coffee	Netherlands		2017	Running				Ethiopia	Africa	Agriculture	Farmers Participation Traceability	Higher wages farmers Transparent chain	Valuechain
<a href="#">Finterra</a>		Funding community projects	Tech Start up	Finterra	Singapore	Platform	2018	Active				Kenya	Africa	Finance		a crowdfunding platform that enables users to create smart contracts for various projects	Network (individuals and organisations)
<a href="#">Food Trust Blockchain</a>		improve the companies' ability to identify issues involved with food recalls	Consortium	Walmart, Nestlé, Dole, Driscoll, Golden State Foods, Kroger, McCormick, McLane, Tyson Foods, Unilever	Global	Platform	2018	Running			IBM (Hyperledger?)		Global	Food	Food Safety	Food safety through traceability	Food companies
<a href="#">Ixo Foundation</a>		Optimize sustainable development impact --> "proof of impact"	Foundation	Ixo	South Africa	Protocol	2017	Running (?)		<a href="#">Proof of impact (?)</a>	Ixo	Uganda	Africa	<a href="#">Develoement</a>		enables anyone to collect, measure, evaluate, value, and tokenize verified impact data.	Unicef Innovation Fund
<a href="#">Land Layby</a>		Land management	Tech Start up	Land Layby Technologies	Australia, Ghana, UK, USA	Platform	2017	Running			Harambee token	Ghana & Kenya	Africa	Land ownership		Verification of land transactions	land owners
<a href="#">Pesabase</a>		Remittance, payment and banking e-wallet solution	Tech Start up	Pesabase	Australia	Wallet / App	2017	Developing		Pow?	OmiseGo (Ethereum?)	South Sudan	Africa	Finance	Remittances	financial simplification and inclusion in Africa.	Diaspora, people transferring money
<a href="#">Poseidon</a>		Climate positive purchase	Non Profit Foundation	Dorae inc.	Malta	Platform, tokens	2017	running		stellar consensus protocol (not token)	Stellar (Ocean token)	Guatemalan Caribbean	Caribbean	Conservation Livelihoods Climate Change	Resilience	Indirect through Ecosphere+	Ecosphere +
<a href="#">Provenance</a>		Transparency in product supply chains	Tech Start up	Project Provenance Ltd.	UK	Platform (?)	2018	Running								Traceability	
<a href="#">Ripe</a>		<a href="#">Digital food supply chain</a>	For profit	ripe.io	United States	Platform	2018	Active				TBD	TBD	Food/Agriculture	Traceability	track food items from the farm to the fork	Value chain
<a href="#">Starbucks</a>		Tracing coffee	Private company	Starbucks	US	Platform	2018	Launching				Rwanda	Africa	Food	Traceability	Tracing coffee	Value chain
<a href="#">Tuna</a>		Trace tuna against slavery and for sustainability	NGO	WWF	New Zealand			Usecase				Fiji, New Zealand	Pacific	Fishery	Resilience	More certain traceability of tuna	Valuechain
<a href="#">Bitlumens</a>		A peer to peer platform where users adopt PV systems to reduce carbon emissions	For Profit	Bitlumens GmbH	Switzerland	Platform	2017	Active	BLS		Ethereum	Guatemala	Latin America	Credit	Resilience	Resilience	include women living in rural villages into the financial system by providing microcredit and pay as you go solutions
<a href="#">Waterig</a>		Community-level crowdfunding and micro-ownership without a central authority	For Profit		Hong-Kong	Hubs/modules	2017	Piloting							Agriculture		<a href="#">decentralise water, food, energy</a>
<a href="#">Ricult</a>		An integrated digital platform that addresses the end to end needs of smallholder farmers in developing countries, using predictive psychometric tools, credit scoring algorithms, and agronomy & weather analytics	For Profit	Ricult	USA							Thailand/Pakistan	Asia	Agriculture	Market Access	Marketplace, crop selling, credit, agriculture data insights & Analytics	Value chain
<a href="#">Bitminutes</a>		A pre-paid minutes asset backed token that collateralizes micro-loans for over 2 billion consumers in 76 countries	For Profit	BitMinutes	USA		2012		BMT				Global	Credit	Resilience		
<a href="#">sustainability international</a>		An organization on a mission to alleviate poverty, conserve ecosystems, and improve the health of indigenous communities with technology.			USA		2007					Nigeria	Africa	Agriculture			
<a href="#">Faircoin</a>		A global cryptocurrency to be used for transfers among a global cooperative network	?	FairCoin	Spain	Crypto	2014	Active	FAIR	<a href="#">Proof of cooperation</a>			Global	Participation Credit		Ethical coin	Users of the token

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<a href="#">EcoBit</a>		A green project supported by the Kelantan State Government in Malaysia to fund and develop green projects which will create food and provide health benefits to people.	Partnership		Malaysia		2017	Active	EcoBit	PoS	NEM	Malaysia	Asia	Agriculture			
<a href="#">AgUnity</a>		A company helping the smallest farmers in developing countries via the use of blockchain tech, using Distributed Cryptolegder And Mobile Apps To Create A Circle Of Trust For Small Farmer Co-Operatives.	For Profit	AgUnity	Australia		2017	Active						Agriculture			
<a href="#">Hara</a>		A blockchain-based decentralized agriculture data exchange	Startup	Hara technology Ltd.	Singapore	Platform/App	2015	Active	HARA		ERC20	various	PCA	Agriculture		data exchange	Users data
<a href="#">FinComEco</a>		A joint venture between African Potash and their Gibraltar firm TokenCommunities Limited, to operate a range of platforms and projects in the agricultural commodity markets sector in sub-Saharan Africa.	Partnership	Fincomeco	Mauritius	Ecosystem						DRC	Africa	Agriculture			
<a href="#">AgriDigital</a>		A trusted and efficient agri-supply chains where all participants can operate with full confidence			Australia		2015	Active			Raft			Agriculture			
<a href="#">Annona</a>		A mobile and web-based platform that suppliers use to manage procurement, payments and aggregate crop production from small-scale producers			USA		2015				Ethereum			Agriculture			
<a href="#">Te-Food</a>		A fresh food ecosystem which integrates supply chain companies, consumers, and governments/authorities to improve food safety, eliminate food frauds, and decrease costs of the supply chain companies.	Startup									Vietnam		Agriculture			
<a href="#">ZhongAn</a>		A new blockchain-based system that tracks individual chicken from farm-to-consumer, using devices from IoT firm Wopu			China		2013	Active				China		Agriculture			
<a href="#">OwlChain</a>		A Taiwanese project using an Ethereum blockchain API to track food provenance	Startup		Taiwan						Ethereum			Agriculture			
<a href="#">Cryptotoma .toes</a>		A blockchain startup based on growing edible crops from excess mining heat, that will presumably be launched soon by the co-founder of Czech cryptocurrency exchange NakamotoX	Startup											Agriculture			
<a href="#">Stratumn</a>		A startup that leverages the blockchain to reinvent how businesses create trust online, and help people and businesses trust the millions of processes that connect our world	Startup		France		2015	Proof of process									
<a href="#">Sawtooth seafood</a>		a modern approach to seafood traceability, one of the applications of the Hyperledger Sawtooth which is a modular platform for building, deploying, and running	Startup								Hyperledger			Fisheries			
<a href="#">Viant fish project</a>		Consensus with WWF, Traseable and Sea Quest implement blockchain for the Pacific tuna industry.			Fiji		2017					Fiji		Fisheries			
<a href="#">Slavefreetrade</a>		a movement aimed at eliminating modern slavery in the supply chains of the products that we buy.			Switzerland		2016										
<a href="#">Vegan Nation</a>		the first decentralized global community for vegans. It aims to use the power of blockchain technology in our mission to create a powerful, united, international vegan force.															
<a href="#">Arc-net</a>		The company arc-net connects every step of a product's journey to deliver supply chain transparency and product security. The arc-net toolset provides an easy to use scalable platform, .			Ireland		2014							Agriculture			
<a href="#">Food Blockchain XYZ</a>		an Ethereum blockchain tool it calls Food Supply Chain 2.0, which aims to enable both end-to-end traceability of the			Switzerland		2016				Ethereum			Agriculture			
<a href="#">Mission Blue Hope Spot</a>		a transparent global database on blockchain on coral reefs			Australia		2017							Environment			

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