



BRINGING TRUST AND TRANSPARENCY TO AGRICULTURE

Creating and settling agricultural assets on a blockchain

13 February 2018

UNSW Blockchain Workshop

12-13 February 2018

Emma Weston, CEO & Co Founder

@emmamweston



WHY BLOCKCHAIN

THREE BIG PROBLEMS AFFECTING OUR GLOBAL AGRI-SUPPLY CHAINS



FARMERS

don't get paid for what they deliver when they deliver



BUYERS

don't have access to automated supply chain finance



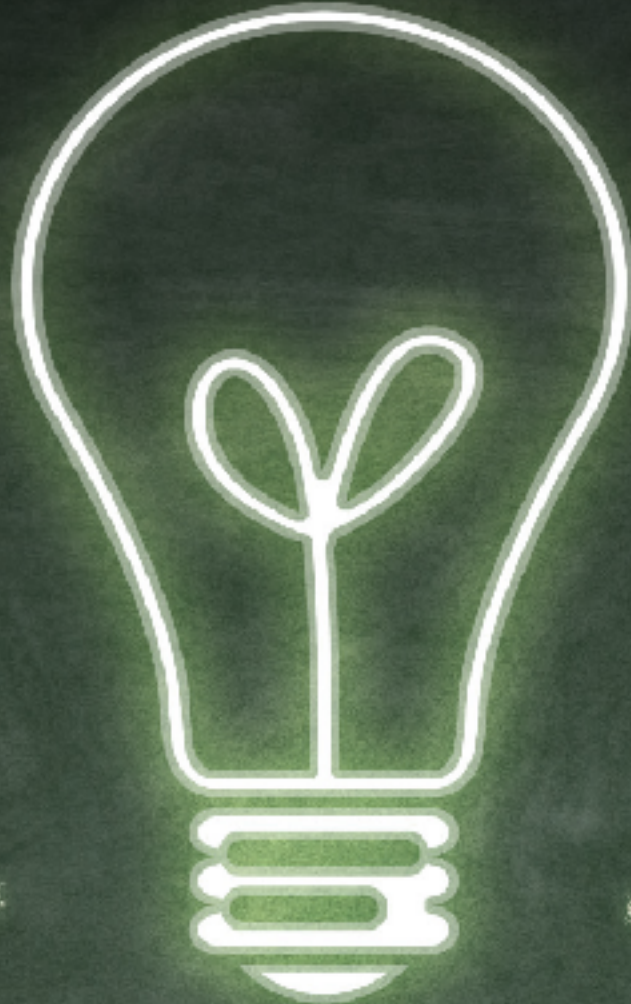
CONSUMERS

don't know where their food comes from

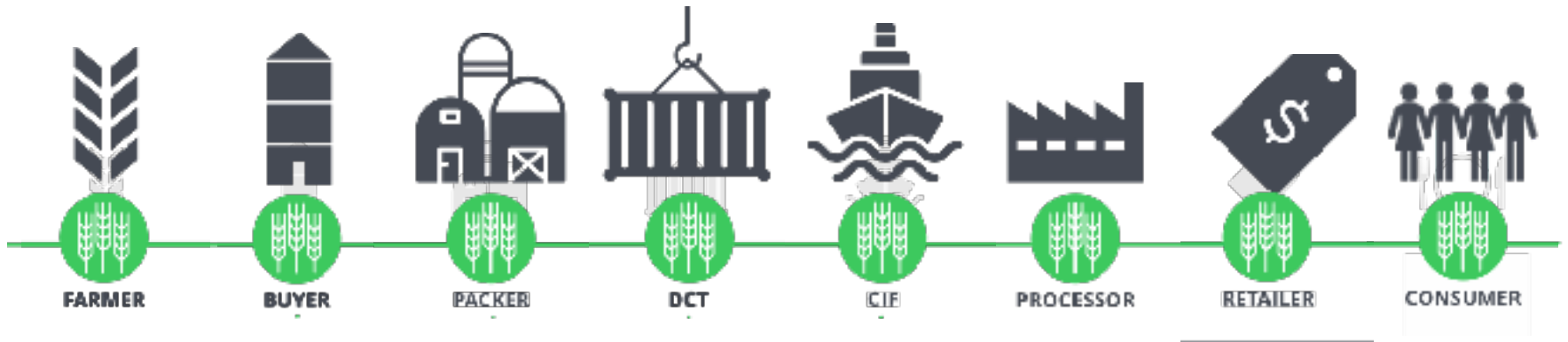
SUPPLY CHAIN DIGITISATION

BLOCKCHAIN

INTERNET OF THINGS



TODAY'S SUPPLY CHAINS

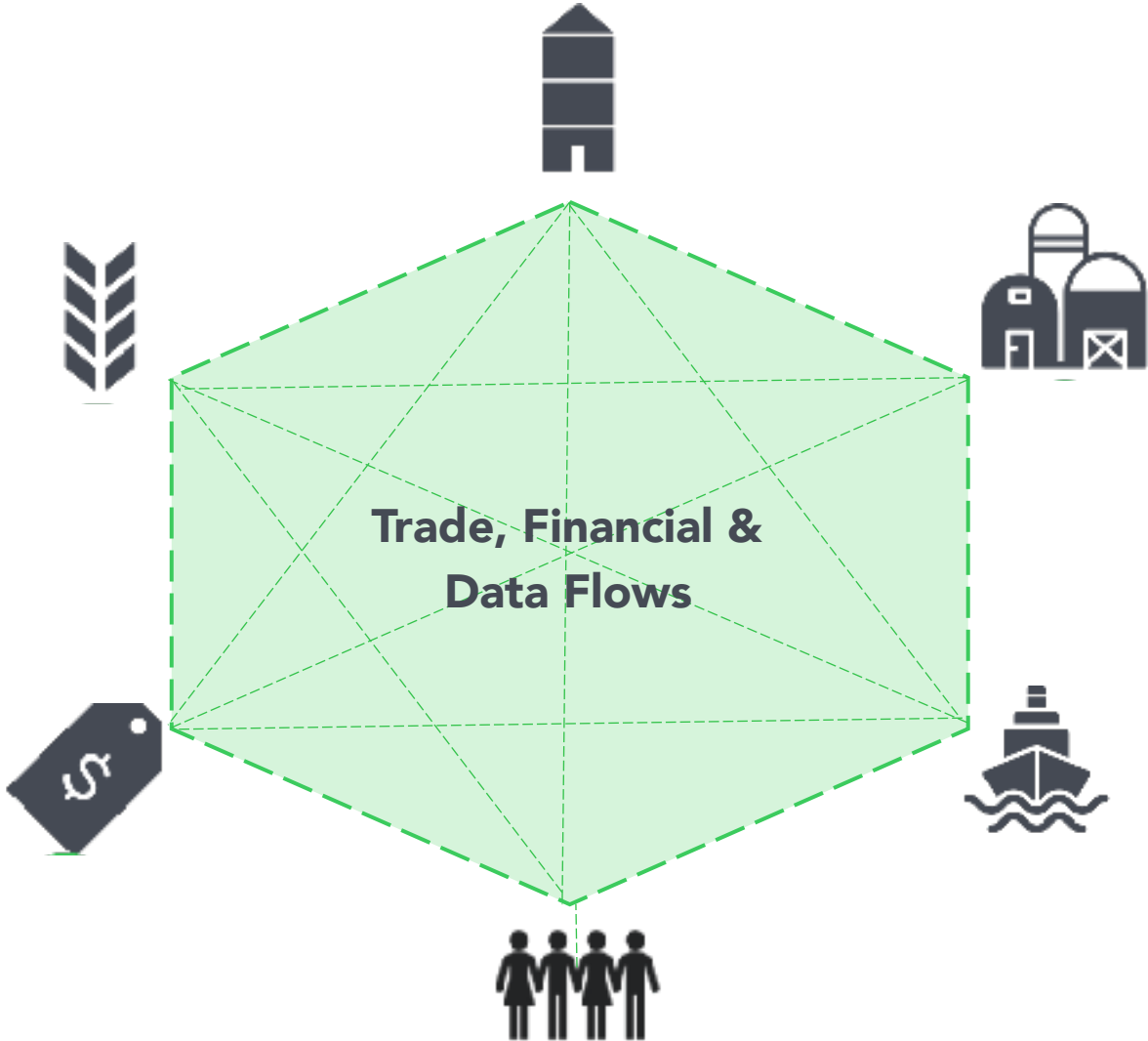


Data Flows

Financial Flows

Trade Flows

TOMORROW'S DIGITAL SUPPLY CHAINS



PILOT 1: REAL TIME GRAIN SETTLEMENT



PILOT 2: PROGRAMMABLE TITLE & PAYMENT

The dashboard displays the following data:

- Order Book - open (USD)**: Daily volume in order book (USD)
- Order Book - closed (USD)**: Daily volume in order book (USD)
- Order Book - open (USD)**: Daily volume in order book (USD)
- Order Book - closed (USD)**: Daily volume in order book (USD)
- Order Book - open (USD)**: Daily volume in order book (USD)
- Order Book - closed (USD)**: Daily volume in order book (USD)

The website banner features the AgriDigital logo and the text: "Trust & Transparency for Global Agricultural Supply Chains".

The Azure console shows the following log entries:

```
2017-10-10T08:01:00.000Z [Info] Application started successfully.  
2017-10-10T08:01:00.000Z [Info] Application started successfully.  
2017-10-10T08:01:00.000Z [Info] Application started successfully.  
2017-10-10T08:01:00.000Z [Info] Application started successfully.  
2017-10-10T08:01:00.000Z [Info] Application started successfully.  
2017-10-10T08:01:00.000Z [Info] Application started successfully.  
2017-10-10T08:01:00.000Z [Info] Application started successfully.  
2017-10-10T08:01:00.000Z [Info] Application started successfully.  
2017-10-10T08:01:00.000Z [Info] Application started successfully.  
2017-10-10T08:01:00.000Z [Info] Application started successfully.
```


POC 3: INVENTORY FINANCE & DIGITAL CURRENCY



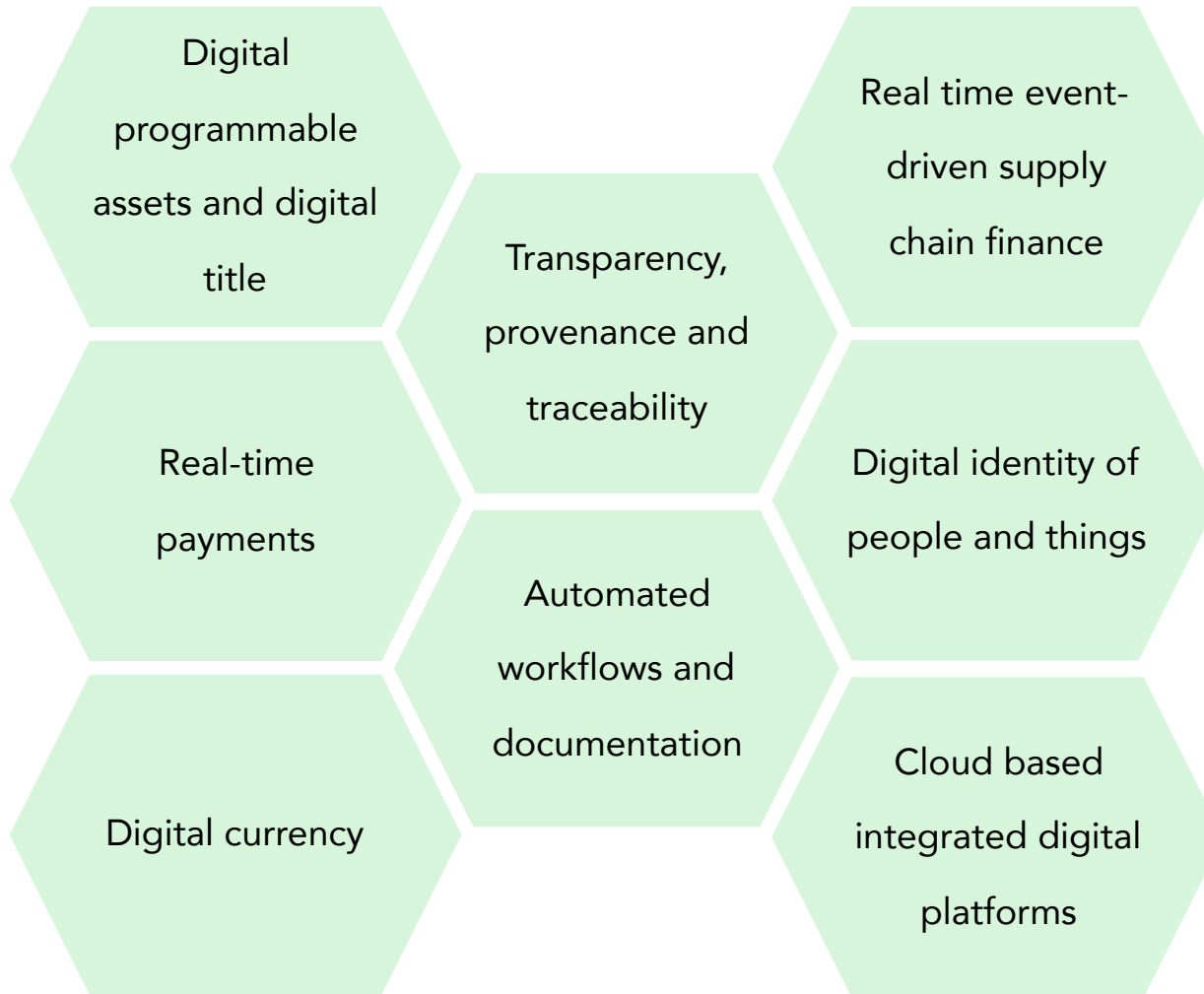
CHALLENGES

At AgriDigital, we are building a blockchain protocol for the global trade and finance of agri-commodities

OUR CHALLENGES

- Consensus-setting: proof of work vs proof of stake vs proof of activity
- Transactional privacy vs chain transparency
- Standard setting; eg digital title
- Settlement currencies
- Data verification models
- Physical vs digital world parity
- Network effect and scalability
- Onboarding and UI/UX
- Achieving whole of chain traceability and the value in partial auditability
- Testing for failure, off-ramping and dispute resolution

THE FUTURE OF COMMODITIES



THANK YOU & QUESTIONS



Emma Weston

CEO & Co Founder

m: +61 407 830 136

a: Level 7, 130 Pitt St, Sydney, Australia

w: www.agridigital.io

e: emma.weston@agridigital.io

[@emmamweston](https://twitter.com/emmamweston)