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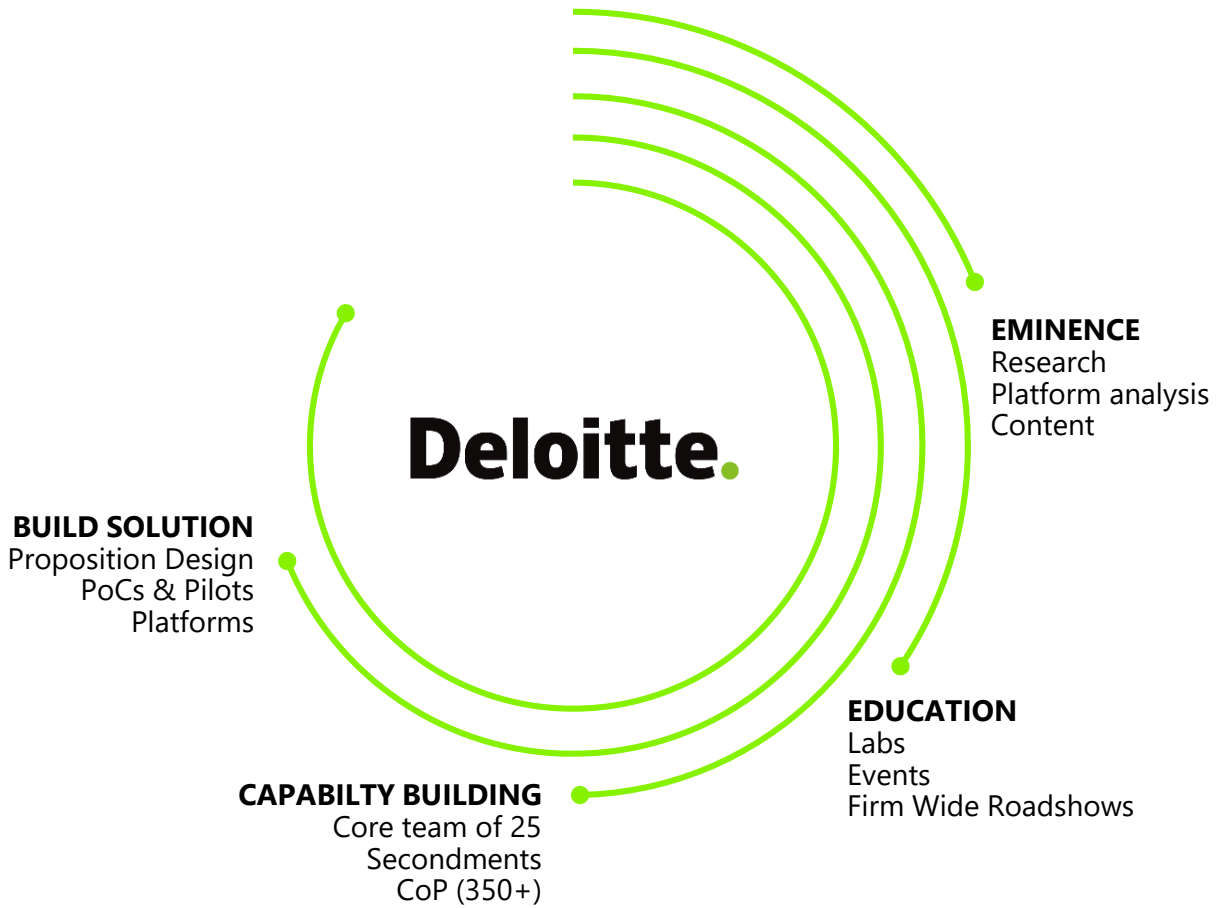


Beefing up Blockchain

OCTOBER, 2018

The EMEA Blockchain Lab

We may call ourselves something slightly different, but we are Deloitte Consulting. That means we're able to draw on Deloitte's renowned industry expertise in **Technology, Strategy and Operations, Human Capital, and Cyber Risk** to build truly comprehensive solutions.

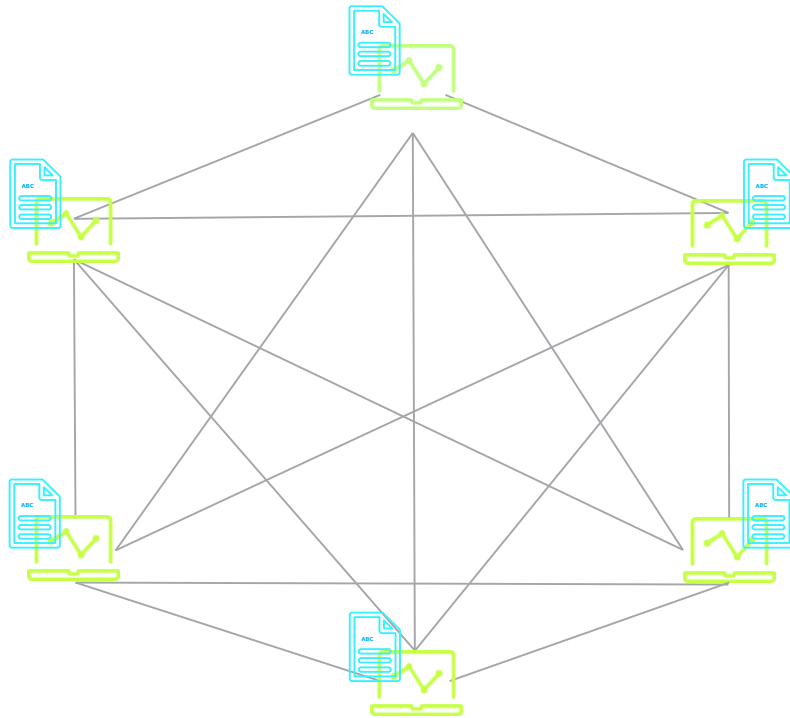




What is Blockchain?

What is blockchain?

A decentralised, distributed ledger that provides a way for information to be recorded, shared and maintained by a community.



A **network of computers**, connected via the Internet, in which users at any one computer can receive or send peer to peer:

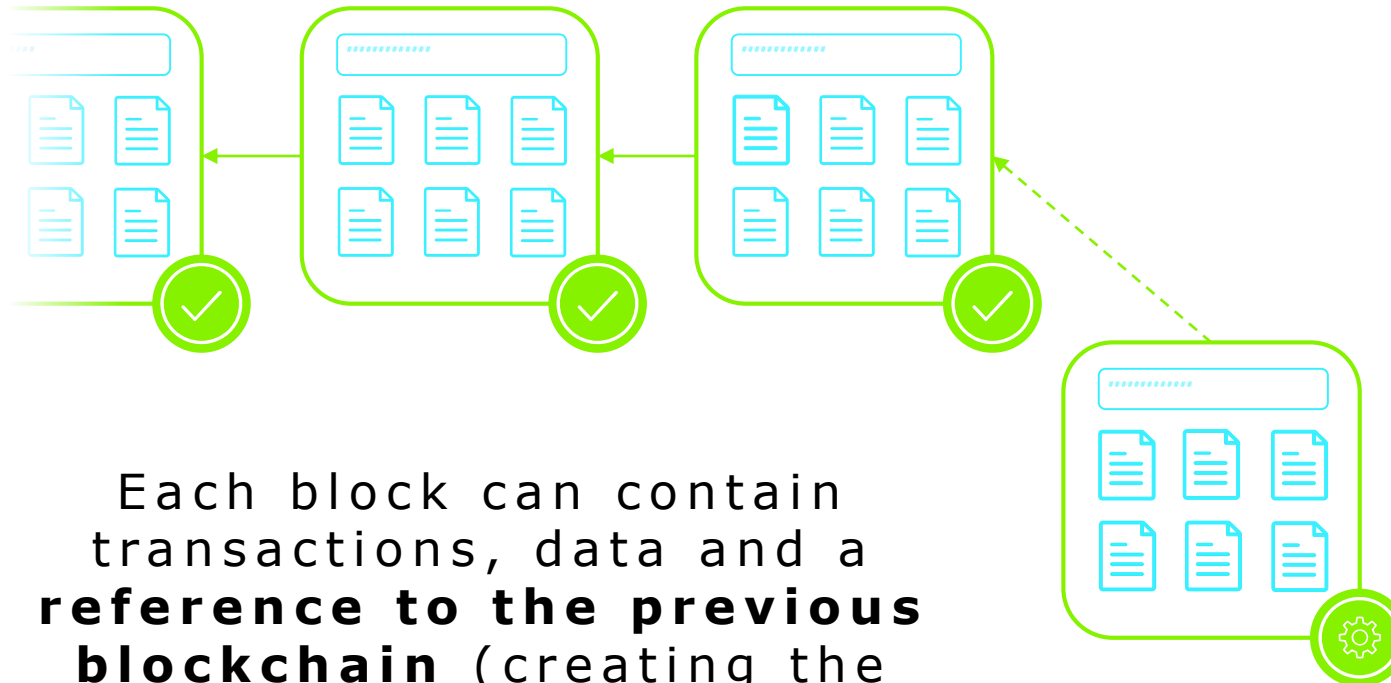
 **Value**

 **Identity**

 **Data**

Block + block + block = blockchain

A blockchain is a series of interconnected blocks, with new blocks added on the end of the ever lengthening chain.



Each block can contain transactions, data and a **reference to the previous blockchain** (creating the chain)

Transactions recorded **chronologically** and **cannot be changed** once added to the chain

For **blocks to be added** to the blockchain, it must be achieved through **Consensus**

Blockchain and it's characteristics

Blockchain technology have particular characteristics that set it apart from other technologies.



**Value
Transfer**



**Immutability
and Audit Trail**



**Smart
Contracts**
(Distributed Workflow)



**Data
Storage**



Dis-intermediation









Decentralised



**Launching -
Beefing up
Blockchain**

Beefing Up Blockchain

Blockchain Use Cases

-  1. End-to-end traceability
-  2. Grass fed assurance
-  3. Trade finance
-  4. Consumer engagement
-  5. Consumer feedback
-  6. Certification

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Beefing Up Blockchain
How Blockchain can
Transform the Irish Beef
Supply Chain



Panel Discussion

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