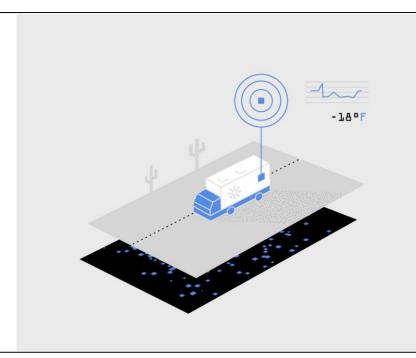
Smart Buckets | Blockchain Simplified Logistics

Simplified logistics, supply chain tracking, transparent provenance, and ownership of objects with unique blockchain based identity protocol.

Hans Lombardo

Co-founder, Chain of Things

hans.lombardo@chainofthings.com

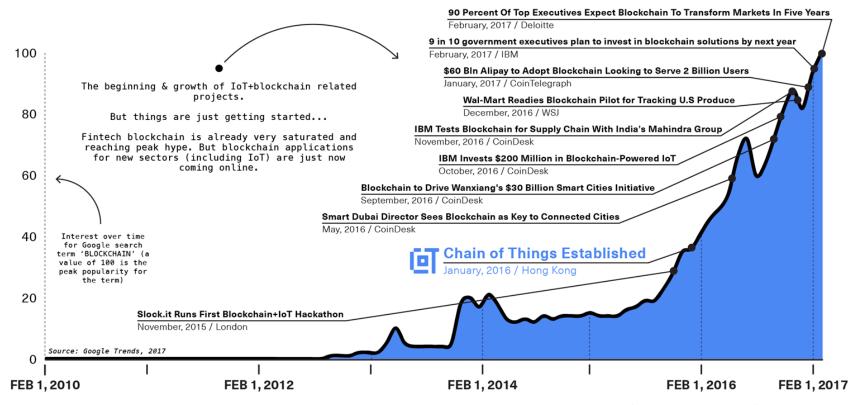


What are Blockchain's Strengths & Characteristics?

- Borderless
- Neutral
- Censorship resistant
- Open
- Re-establishes trust in intermediaries
- Immutability
- Security
- Anonymity
- Transparency
- Disintermediation
- Validation / Authentication



Growth Increasing of Alternative Blockchain Applications



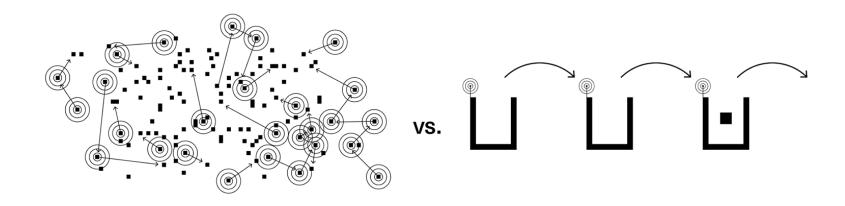
Supply Chains: The Problems

- Comprehensive supply chain tracking, transparency, ownership
- Multiple parties that do not trust each other
- Disruption of paper, creation of smart, digitized custody of title (Smart Bills of Lading)
- Clean reporting of object provenance, carbon footprint, environmental efficiency
- Secure, identified, interoperable devices
- Initial platform for Vendor Rating; other reputation based identity applications



Possible Blockchain Solutions?

- Track everything with BILLIONS of sensors
- Simplified tracking based on 'Smart Bucket' zones

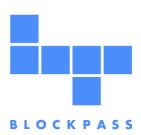


Smart Buckets Powered by Blockpass Identity Network

Chain of Things is helping to develop Blockpass: a blockchain identity protocol for the internet of everything.

Blockpass acts as the secure conduit between human, company, object, and device identities.

This will enable the development of highly efficient new applications that rely on a trusted connection between parties that may not know or trust each other.



Shipping Stack Identity Profiles

Blockpass is a blockchain identity protocol for the internet of everything.

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Blockchain based identities for all involved parties







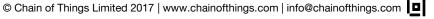




Company



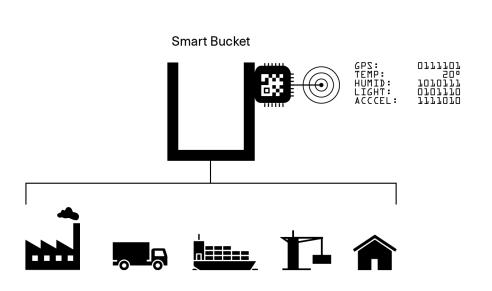
Human Identity (Human)



What is a Smart Bucket?

A Smart Bucket is a physical 'zone' in which simple objects in transit are currently inside of - such as a factory, pallet, container, truck, ship, etc.

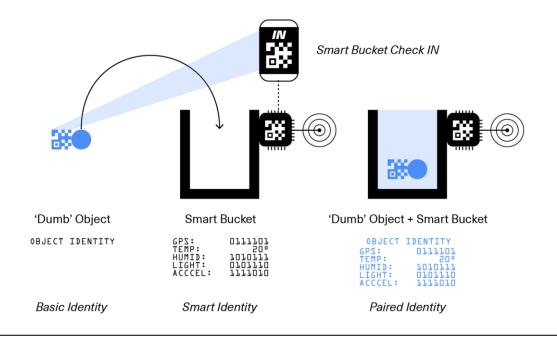
Sensors on each Smart Bucket report the ongoing environmental status of that respective stage in the supply chain; location, temperature, humidity, light, acceleration, etc.



How does it work?

A 'dumb' object's blockchain based identity adopts the detailed environmental status of the current Smart Bucket that it is contained within.

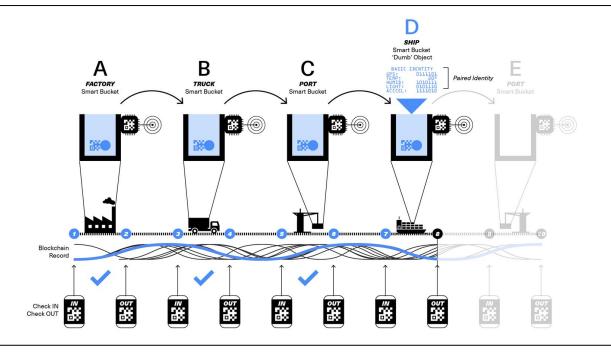
This forms a 'paired' identity in which the dumb object reflects the detailed live sensor data of the current Smart Bucket host.



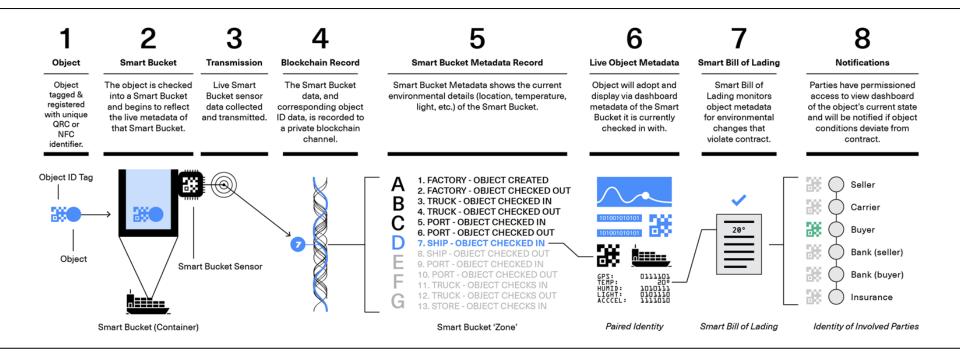
Dumb Object Journey

'Dumb' objects are checked in and out of Smart Buckets as they travel along the various stages of their logistical journey.

The paired metadata is recorded to a blockchain and keeps a decentralized and immutable log of an object's transit history and treatment.



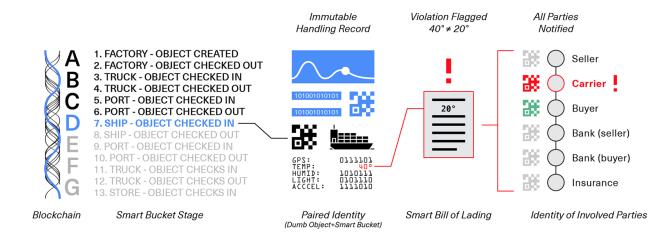
Smart Bucket Process



Smart Buckets & Smart Bills of Lading VIOLATION!

Live Smart Bucket data is permissioned to the identities of all parties involved in the object's existence and journey.

Any violations of the Smart Bill of Lading are flagged by the Smart Bucket's environmental sensors and relayed to all parties for review and correction.

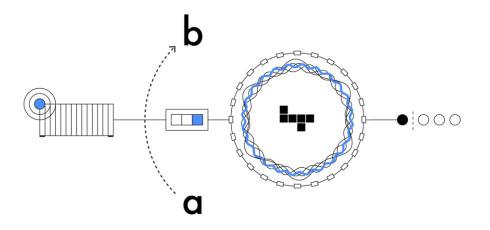


Key Benefits of the Smart Bucket Model

- Comprehensive supply chain tracking, transparency, ownership
- Clean and efficient reporting of product provenance
- Secure, identified, and interoperable objects and Smart Buckets
- Initial platform for Vendor Rating and other reputation based applications
- Greater efficiency and loss prevention due to increased frictionless transparency

Next Steps

- Potential Shipping Identity Network (IDN)
 - Objects
 - **Devices**
 - Companies
 - Humans
- Live Blockpass PoC with industry partners
- Development of scalable Blockpass solution



Thank You!

Please Contact Us:

hans.lombardo@chainofthings.com

Chainofthings.com Blockpass.org



