

IAITAM ACE 2025

ITAM - Another Brick In The Wall

Blockchain in ITAM:
From Hype to Real-world Value





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What is Blockchain?

Centralized recordkeeping: Registry of Deeds

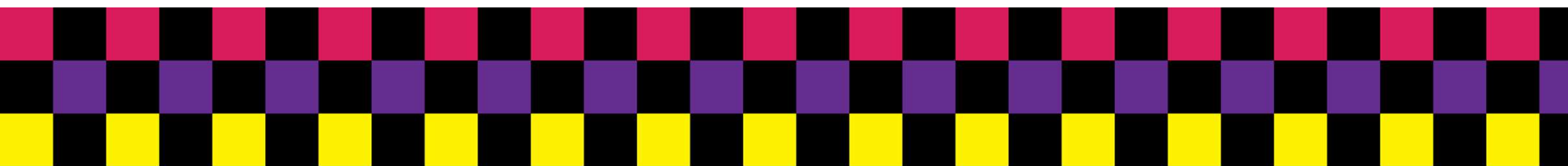
VS.

Decentralized recordkeeping: Widely Witnessed Events



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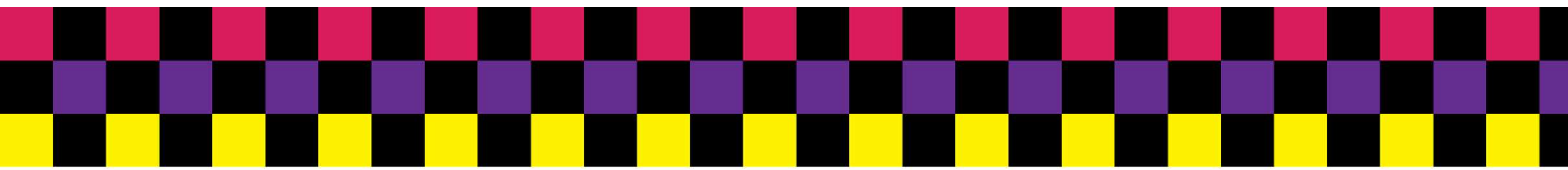
Metadata, Hash Values, & Immutability

- **Metadata**
 - Unique identifiers (e.g. serial numbers)
 - URLs (pointing to other)
- **Hash value:** If the record changes in any way (even slightly), then the hash changes

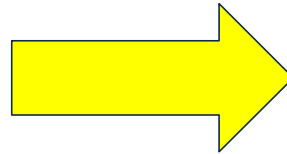


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What if we could
replicate this
concept for any
individualized
product



CARFAX CARFAX® Vehicle History Report™
An independent company established in 1986

Vehicle Information:
2006 CHEVROLET CORVETTE
VIN: 1G1YY2B065100000
COUPE
8.5L V8 SP1
REAR WHEEL DRIVE
Standard Equipment | Safety Options

Branded Title: Salvage

CARFAX 1-Owner vehicle

At least 1 open recall

2 Service records available

16,418 Last reported odometer reading

This CARFAX Vehicle History Report is based only on information supplied to CARFAX and available as of 4/20/12 at 10:25:21 AM (EST). Other information about this vehicle, including problems, may not have been reported to CARFAX. Use this report as one important tool, along with a vehicle inspection and test drive, to make a better decision about your next used car.

CARFAX Ownership History	
The number of owners is estimated	
Year purchased	2006
Type of owner	Personal
Estimated length of ownership	1 yr. 1 mo.
Owned in the following states/provinces	Texas
Estimated miles driven per year	14,961/yr
Last reported odometer reading	16,418

CARFAX Title History	
Owner 1	
Salvage Junk Rebuilt Fire Flood Rat Lemon	Alert! Problem Found
Not Actual Mileage Exceeds Mechanical Limits	No Problem

Alert! Severe problems were reported by a state Department of Motor Vehicles (DMV).



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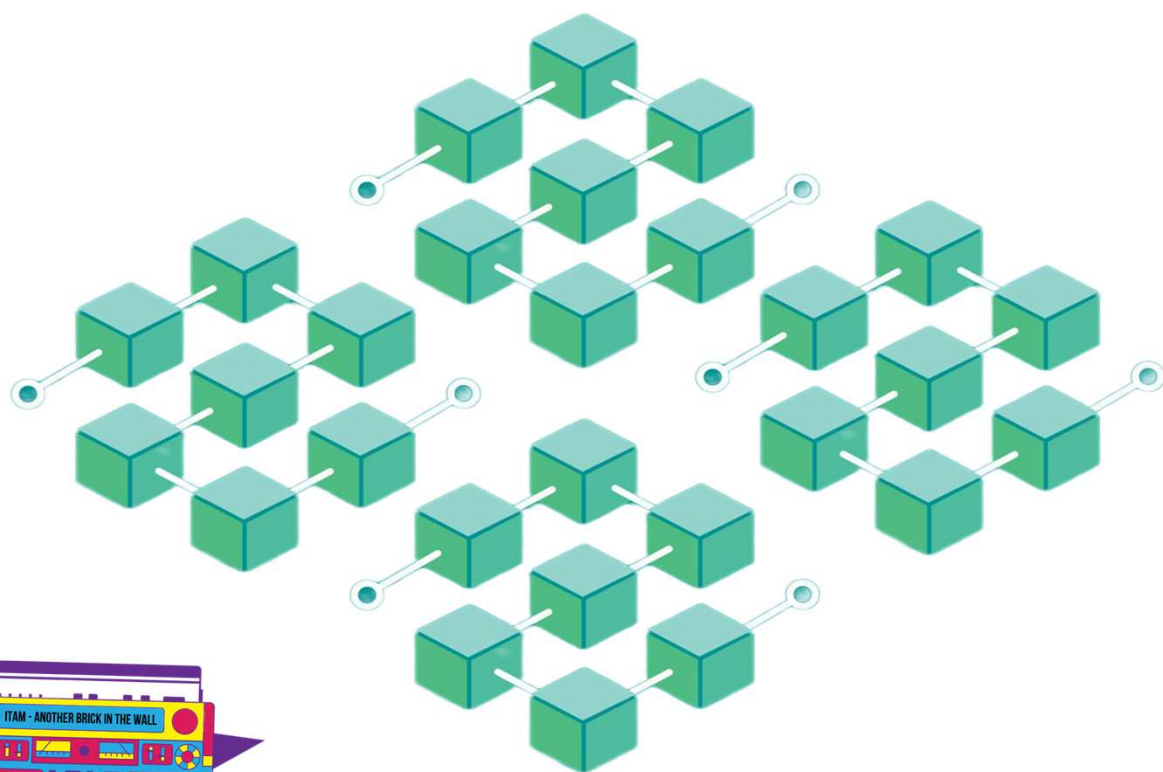
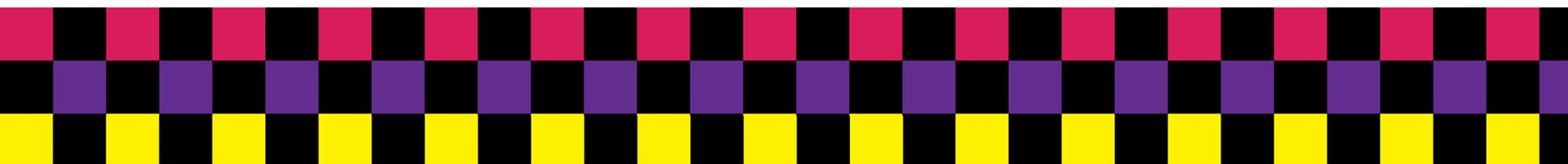
Challenges in ITAM

Data Integrity
Transparency
Compliance



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DECENTRALIZED

PRIVATE

SHAREABLE

IMMUTABLE

PERSISTENT

EFFICIENT



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Data Points...

Asset Identification & Ownership

- **Unique Asset IDs:** Serialized identifiers for IT assets (e.g., laptops, servers, storage devices)
- **Ownership Records:** Who currently owns or is responsible for the asset
- **Transfer of Ownership:** Immutable history of ownership changes

Asset Lifecycle Events

- **Acquisition Details:** Purchase date, vendor, warranty information
- **Usage & Maintenance Logs:** Repair history, firmware updates, component replacements
- **Access Control Logs:** Who accessed the asset and when (especially for data-bearing assets)
- **End-of-Life & Disposal:** Proof of proper decommissioning, ITAD certification



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Data Points...

Compliance & Security

- **Audit Logs:** Immutable records for regulatory compliance
- **Smart Contracts:** Automated rule enforcement (e.g., assets flagged for end-of-life disposal)
- **Tamper-Proof Evidence:** Proof that an asset has not been altered or stolen
- **Encryption Hashes:** Instead of storing full sensitive data, only cryptographic hashes are stored

Supply Chain & Provenance

- **Manufacturer & Supplier Info:** Proof of authenticity to prevent counterfeit assets
- **Certifications & Compliance Records:** Ensuring devices meet industry security and environmental standards
- **Shipping & Logistics:** Tracking movement of assets across locations



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Data Points...

IT Asset Disposition

- **Chain of Custody:** Ensuring secure disposal and tracking who handled the asset
- **Destruction Certificates:** Immutable proof that data-bearing devices were wiped or destroyed securely
- **Recycling & Sustainability Data:** Verifying compliance with e-waste regulations



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What is Blockchain?

- **Public Blockchains:** Typically store only hashed references or proofs to ensure privacy.
- **Private/Consortium Blockchains:** Store more detailed transaction data but still use cryptographic techniques to enhance security.
- **Hybrid Models:** Combine blockchain with off-chain storage (e.g., decentralized file systems) to store large or sensitive data while maintaining blockchain integrity.



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Use Cases for Blockchain in ITAM

- **Enhanced Asset Tracking:** Immutable record-keeping for IT assets
- **Automated Compliance & Auditing:** Smart contracts for policy enforcement
- **Fraud Prevention:** Elimination of counterfeit assets or duplicate records
- **Efficient ITAD (IT Asset Disposition):** Secure tracking of retired assets
- **Supply Chain & Vendor Management:** Ensuring authenticity and compliance



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Challenges & Key Considerations

- Scalability & efficiency
- Integration with existing ITAM systems
- Regulatory and compliance issues
- Cost and implementation hurdles



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Questions & comments...



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