BLOCKCHAIN & GOVERNMENT

BUSINESS AND LABOR INTERIM COMMITTEE

SEPTEMBER 2019

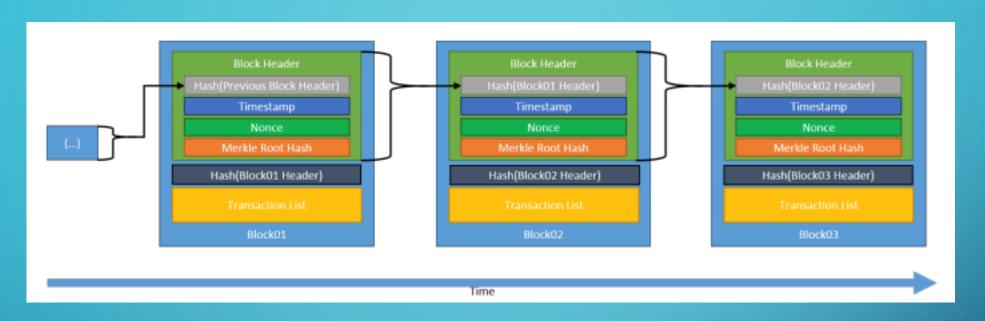










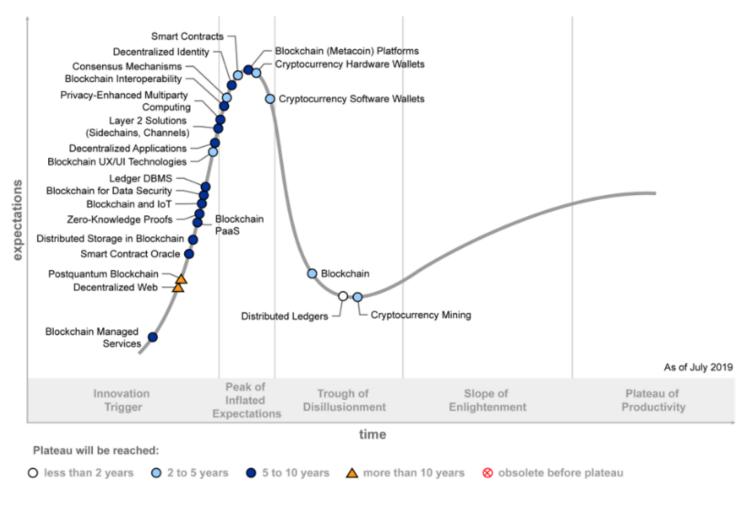


Understanding how blockchain technology works

NISTIR 8202

Blockchain Technology Overview January 2018





Source: Gartner

STRATEGIC PROJECTIONS THROUGH 2022

- Through 2022, only 10% of enterprises will achieve any radical transformation with the use of blockchain technologies.
- By 2022, more than a billion people will have some data about them stored on a blockchain, but may not be aware of it.
- Through 2020, 80% of enterprise blockchain-based applications whose goal is to save money will fail to do so.

source: Gartner



	Blockchain Inspired		Blockchain Complete	Blockchain Enhanced
	Efficiency Play	Record Keeper	Digital Asset Market	ີ່ Blockchain Disruptor
Uses Blockchain for:	 Immutability Traceability Consortia-based consensus Reduced reconciliation Shared closed ledger 	ImmutabilityTraceabilityAuditabilityComplianceShared closed ledger	 Immutability Traceability Digital asset creation Payment mechanism Distributed ledger Consensus Shared open ledger 	 Immutability Traceability Payment mechanism Distributed ledger Consensus Shared open ledger
What Is Exchanged?	Existing data and fiat-based economic value	DataIdentity	 New forms of digital assets Autonomous terms and conditions of doing business 	 New forms of digital assets Autonomous terms and conditions of doing business New forms of autonomous interactions
Why Should Enterprises Care?	 Improved efficiency Ensure cost parity with competitors Application, data, process rationalization Reduced manual overhead Monopolization Replatforming 	 Improved efficiency Record certainty Reduced fraud Standardization of data and process 	 Monetization of intangible assets New market growth Creation of new assets New customer growth via monetized "things" New product and service development 	 New business model development New decentralized competition Digital ecosystem development New product and service development
Ratio of Revenue Growth Expense Reduction	 Primary outcome: expense reduction Secondary outcome: revenue growth 	 Primary outcome: expense reduction Secondary outcome: revenue growth 	 Primary outcome: revenue growth Secondary outcome: expense reduction 	 Primary outcome: revenue growth Secondary outcome: expense reduction
Industry or Business Focus	Market infrastructure providerLarge enterpriseGovernment	All enterprises and governments	 New marketplaces and startups Consumers Enterprises Governments (central banks) Market infrastructure provider 	StartupsSpinoutsHeritage business; new co.
Architectural Deployment Styles	PrivateConsortia/Hybrid	PrivateConsortia/Hybrid	Consortia/HybridPublic	Consortia/HybridPublicGartner

Comparing Blockchain Spectrum to Use Case Categories

THREE POTENTIAL USE CASES FOR THE STATE OF UTAH



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Document Immutability / Chain of Custody







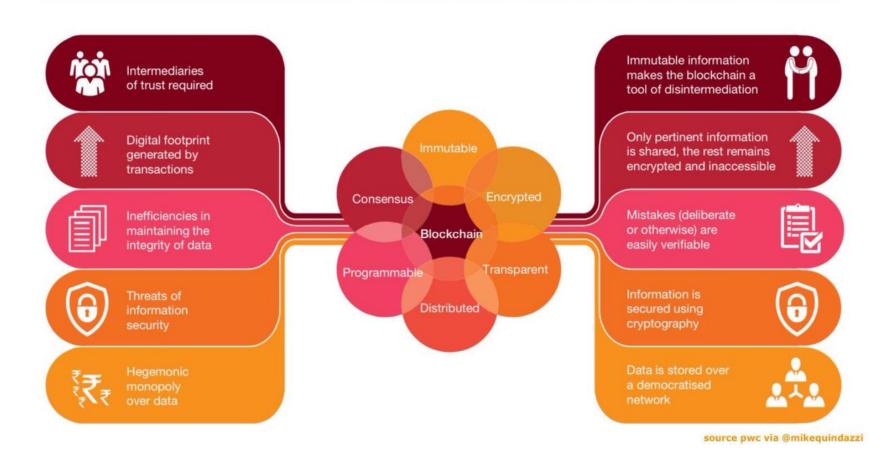




Blockchain: Potential Government Use Cases

- 1. Digital Currency / Payments
- 2. Land Registration
- 3. Voting (Elections)
- 4. Identity Management
- 5. Supply Chain Traceability
- 6. Health Care
- 7. Voting (proxy)
- 8. Corporate registration
- 9. Taxation
- 10. Entitlements Management

6 Advantages of Blockchain



COLORADO COUNCIL FOR THE ADVANCEMENT OF BLOCKCHAIN TECHNOLOGY

The Mission: Establish Colorado as a national hub for blockchain innovation in business and government

Hired a State Blockchain Architect



Final Report July 2019

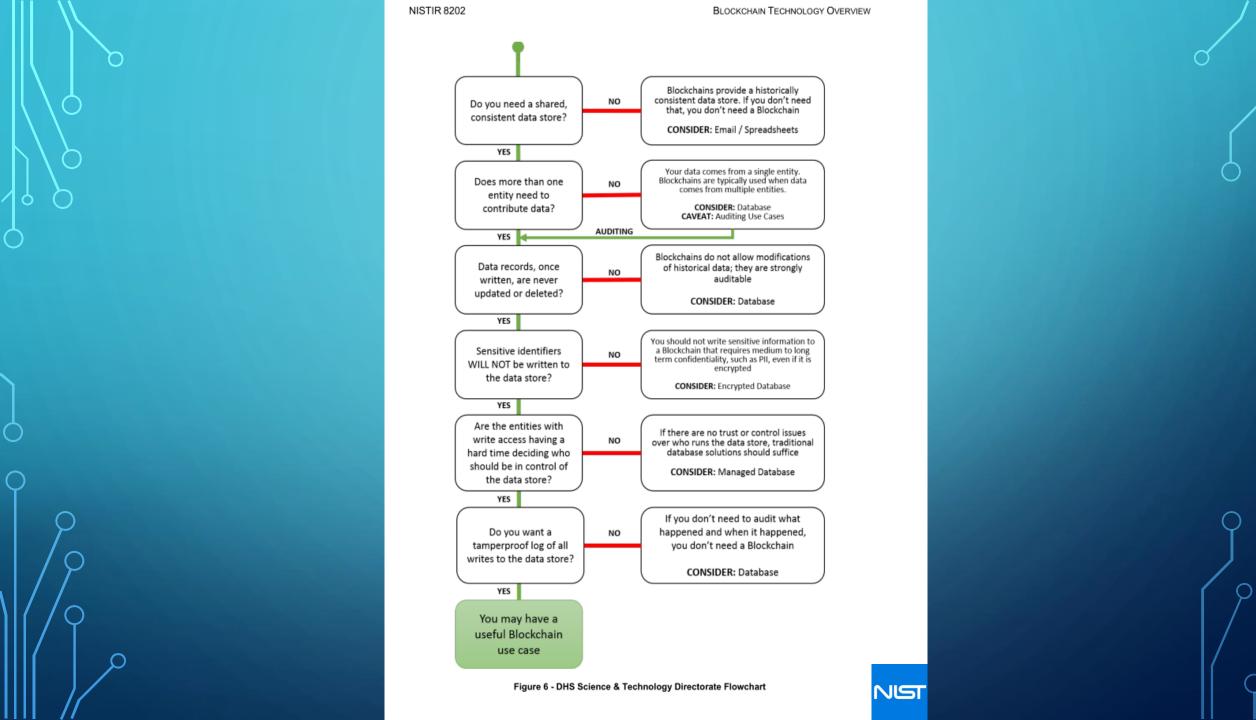
Council Highlights

- We established our principles...
 - Do no harm
 - Provide clarity wherever possible
 - Position Colorado as a leader

...and set up working groups to address a number of topics:

- Definition of tokens Regulatory environment
- Securities laws
 Smart contracts
- TaxationDebt payments
- Money Transmission Digital identity
 - Banking services Government use of blockchain
 - Trust/custody Higher education







Delaware to test blockchain for corporate filings

The Emergence of a Society Enabled by Blockchain



- Global-scale P2P networks and compute
- 2. Consortia-based collaboration
- 3. Natively intelligent things
- Self-designing systems and autonomous agents
- 5. Asset monetizability and value fluidity/exchangability
- Decentralized and distributed trust
- 7. Self-sovereign identity mechanisms
- 8. Microtransactability

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"Blockchain's pre-eminence in society will start to emerge by 2030, but enterprises will need to start preparing for it now"