THE CURRENT STATE OF BLOCKCHAIN

MPIAF Conference 2019 Speaker: David Pope

Outling







Centralized Networks



Distributed Networks



Benefits

Reduce Process Frictions

- Lower communication and transmission costs
- Decrease or eliminate human-related bottlenecks and risks
- Transparent or Permissioned chains simplify verification and audits

Reduce Counter-Party Risk and Fraud

- Records maintained by several nodes no "honey-pot"
- Cryptographically secured =
- Self-auditability in a single trusted ledger
 - Case Study: MiniScribe

Case Study: - @MINSCHDE

- Shining company in 1980s
 - Winning contracts
 - Beating Earnings
- Shipping Bricks
 - Shortfall of \$2 million in inventory
 - Magic Accounting
- Financial Statement Fraud
- Looks like someone else? 2008 Lehman Brothers

Challenges



GLOBAL REGULATORY UPDATE

Domestic Action

Utility Tokens:

- Considered: ND, OK, RI, SC, U.S. Congress
- Enacted: CO, MT
- Implemented: WY

Personal Data Trust Services:

• Considered: IL

Uniform Regulation of Virtual Currency:

• Considered: CA, HI, NV, OK, RI, LA

CK, ess	N •	Vature of Digital Assets: Considered: MO, SC Implemented: WY		Blockchain-Based LLCs:Considered: ILImplemented: VT	
a Trus	st	Governmental Operations: • Considered: CA, CO, CT, OH, NY, NY • Implemented: UT	Ta • C II • C • E • In	Yaxes:Financial Technology Sandbox:Considered: CO, IA, IN, NY, RI, U.S. CongressFinancial Technology Sandbox:Enacted: OH Implemented: WY• Considered: SC • Enacted: UT • Implemented: W	, WV WY
ilatio II, NV,	1	 Money Transmission: Considered: HI, IA, RI, SC, TX Enacted: UT Implemented: WY 	ney Transmission:Insidered: HI, IA, RI, SC,Insidered: UTInacted: UTInplemented: WYIndextorInsidered: WY		OK, TX

Source: Wyoming LSO, May 2019

International Action.

Liechtenstein's Digital Asset Definitions:

 The Government of Liechtenstein

New Financial Technology Sandboxes:

- France
- Abu Dhabi/United Arab Emirates

Yes to Bitcoin:

US, Canada, Australia, EU,
 Finland, Belgium, Cyprus, UK,
 Bulgaria, Germany

Identity and Government Processes:

- Malta
- Estonia
- United Arab Emirates
- Switzerland
- Singapore

Privacy-Focused Digital Assets:

- Japan's Financial Services Agency
- Cyberspace Administration of China

Classes of Digital Assets:

- UK's Financial Conduct Authority
- European Securities and Markets Authority (EU)

Financial Instruments

- European Securities and Markets Authority (Opposing)
- German Federal Financial Supervisory Authority

Airdrops:

• The People's Bank of China

Source: Wyoming LSO, May 2019, Blockchain Council, Investopedia

APPLICATIONS IN PRACTICE

Industries	Specific Use Cases	Projects *
Supply Chain and Shipping	Food Source Tracking	<u>Maersk</u> <u>IBM Food Trust</u> Beefchain
Finance	Corporate Records, Tokenized Assets and Investments, Personal Finance	<u>R3 Corda consortium</u> <u>tZero, Vaultbank</u> <u>Drawbridge, Blockfi</u> <u>JP Morgan</u>
Manufacturing	Quality Assurance, Supply Chain	<u>NIST</u>
Identity	Self-Sovereign ID, Digital Identities	<u>Civic, Sovrin</u> <u>Azraq Refugee camp + World Food Program</u> Microsoft
Education	Student Records, Research	<u>Learning Machine</u> Spartan Blockchain + Michigan State University <u>ODEM</u>
Healthcare	Credentialing, Medical Records	<u>ProCredEx + Hashed Health</u> <u>Medicalchain</u>
Intellectual Property	Music Production, Artwork, Writing	Peertracks
Accounting	Auditing	PwC, Deloitte, EY ZK Labs

David Pope (CPA CGMA)

David is a co-Founder of Wyoming Blockchain Coalition and been heavily involved with the current legislation process regarding the presentation's information.

As a successful CPA in the region, he has transferred his tax knowledge into applying blockchain solutions into his work.

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Authors



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Sawyer is a student at Michigan State University studying for his B.S. in Computer Science, with a focus in Finance and Data Science.

He has been involved in the blockchain space for a few years, helping with the Wyoming Blockchain Coalition, and now Spartan Blockchain Solutions.

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