Welcome To - FinTank's Global Blockchain Summit 2018





Who We Are – What We Do

STARTUP ACCELERATOR

ENTERPRISE CONNECTOR

FUNDING MATCHER



E D U C A T I O N



Areas of Focus

- Artificial Intelligence

- InsurTech

- Big Data / Analytics

- Payments

- Blockchain

- Trading

- Cryptocurrency

- Virtual Reality

- Cybersecurity

- WealthTech



Meetup Groups Community of Practice Model









BUILDING

An Online Community for Everything Crypto



FinTank Up Next – A FinTech Hub

www.fintank.org

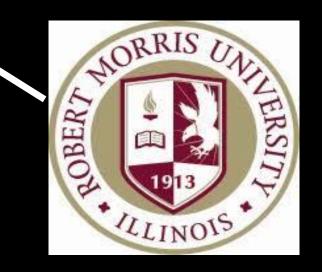


FinTank
Chicago's
FinTech
Hub

CORPORATE PARTNERS

YOU?







IF YOU'RE ON THE LIVE-STREAM

Text Questions to Josh Hughes 708-941-6255



Today's Session is Being Live-Streamed Globally





Nicolas DeGrazia

Daniel Kullman

Tahany Yassin ChiTown Photography



Ryan Maloney

Things My Team Told Me Not To Forget

- 1. Where are coffee breaks happening -- At 10:15 and 2:45.
- 2. Where is lunch happening -- On the 2nd Floor, starts at 12:15.
- 3. What is wifi network name and passcode -- The WiFi is ULCC_WL. No password needed.
- 4. If you have questions -- Look for a person with a tag that says "VOLUNTEER."
- 5. Where are restrooms located -- Men's out the back to the West. Women's on the fifth floor.
- 6. Mention bowl at the registration desk -- Put in business card to win a free ticket to the Spring Summit.
- 7. Remind them to return their NAME TAG HOLDERS before leaving -- we are recycling them.
- 8. Please send feedback on this session or things you'd like to see going forward -- to george@fintank.org

Anything else?....



FinTank's - Global Blockchain Summit 2018

Friday, Oct 19th Chicago and Global Live-Stream **SIGNUP AT:** https://bit.ly/2QbTOEe





Alice Hlidkova **New Economies**



Brian Jenkins Business Block



Dan Spillane IBM



Jason Griffiths Accenture



Safwan Zaherr **KPMG**



Chris Tyler IBM



Sharad Malhautra E&Y



Edward Honour Tritanium



Phil Fornaro Fornaro Law



Lamont Black DePaul Univ.



Alec Ziupsnys **BlockEdge Capital**



Jack Bouroudiian UCXchange



Deii Jimoh WealthBlock



Peter Johnson Jump Capital



Brennan Nacol BlockEdge Capital



Collin Canright FinTech Rising



Richard Sandor "The Man"



Chris Reinertsen BlockEdge Capital



Rumi Morales Outlier Ventures



Peter Waltz **Polsinelli**



Shehan Chandrasekera Ned Myers **JAG CPA**



Alphapoint



Tom Plunkett Oraccle



Arijit Das Northern Trust



Andrew Czupek Northern Trust



Andrew Gastwirth DLA Piper



Tom Jessop Fidelity Investments



Katherine Hochrien **Adjoint**



Colleen Sullivan **CMT Digitai**



George Vukotich **FinTank**



Eric Richmond Coinsquare



Frank Makrides Tunnel



David Carman FinTank



Robert Krzyzanowski Micah Kerr **Spring Labs**



Discover



John Lothian News



Andrew Koslow FOLIOfn

FinTank BRINGING YOU WITH THE BEST SO YOU CAN BE THE BEST Be there live or watch live-stream



Dennis Chookaszian Will Turner Board Member Barnes & Thornburg



Phil Flores вмо



Economist

David Carman — FinTank Blockchain: What's Really Happening







Forbes, March 9, 2018—
"Global companies are making massive investments in blockchain..."

"The total number of blockchain-related job openings more than doubled in 2017, reaching 4,918 postings by year's end."



Accenture — Forbes, March 9, 2018 —

"Consulting giant Accenture is hiring more blockchain jobs than any other company...it's hiring primarily for roles like <u>software developer</u>, <u>technical architect and business strategist</u>."

"Accenture is focused on building private blockchains... It's seeing the most demand in three areas: financial services, supply chain and identity."

September 15, 2016—Ripple Raises \$55 Million in Series B Funding.

June 19, 2017—"Accenture is leading a 'call to action' and responding with blockchain and biometric technologies to support <u>ID2020</u>, a global public-private partnership dedicated to solving the challenges of identity faced by more than 1.1 billion people around the world."

July 19, 2018—"Accenture has a well-developed set of offerings in supply chain and is pushing hard into this space... Accenture's vision is to deliver supply chain management in an as-a-service model."



BMO— August 15, 2018

—"BMO Capital Markets today announced that it has successfully launched a pilot fixed income issuance transaction, mirrored on a blockchain platform alongside leading pension fund investor Ontario Teachers' Pension Plan."

"The transaction included Bank of Montreal as the issuer and Ontario Teachers' as the buyer of a \$250MM 1-year floating rate Deposit Note, making it the first Canadian dollar fixed income issuance demonstrating the viability of blockchain platforms."

Kelsey Gunderson, Head of Global Trading, BMO Capital Markets:
"This is an important first step in developing a fully functional blockchain capability that we think will eventually allow primary and secondary trading of securities..."



Discover — April 17, 2018

—Joe Bonefas, VP of Strategy & Innovation at Discover: "The Chamber of Digital Commerce has developed an impressive platform of industry-leading innovators... We are pleased to join the Chamber and looking forward to further exploring how we can achieve a brighter financial future through the power of blockchain."

"Last month, Discover and the Chamber of Digital Commerce hosted Discover Blockchain Technology - a blockchain code-a-thon - which included more than 200 participants focused on developing solutions that showcased innovative developments in payment processing, regulatory technology and digital identity."



Ernst & Young—

"Blockchain technology has the potential to universally reshape the way business transacts across nearly every industry in the global economy."

April 24, 2018—**EY Announces Blockchain Audit Technology**

"The EY Blockchain Analyzer...will lay the foundation for testing of blockchain assets, liabilities, equity and smart contracts as companies adopt blockchain technologies."

Cointelegraph, July 26, 2018—"EY Switzerland clients have had the option to settle their invoices for auditing and advisory services <u>using Bitcoin since the beginning of 2017</u>."

July 26, 2018—Marcel Stalder, CEO of EY Switzerland: "It is important to us that everybody gets on board and prepares themselves for the revolution set to take place in the business world through blockchains." "To date, our global network offers more than 50 business processes enabled by blockchain technology across financial services, healthcare, logistics, and other industry sectors."



Fidelity— Abigail Johnson—Chairman & CEO of Fidelity:

"I love this stuff—bitcoin, ethereum, blockchain technology—and what the future holds."

CNBC—"The Boston-based private company is experimenting with blockchain, artificial intelligence and virtual reality—and is benchmarking itself against digital natives like Nvidia instead of brokerage firms."

February 2, 2018—Hadley Stern (SVP & Managing Director at Fidelity Labs:

"We established the Fidelity Blockchain Incubator in 2015...We expanded several of our existing collaboration relationships with forwardthinkers such as Ideo Co-Lab, the Institute for the Future...Harvard University, University College London, The MIT Media Lab, and IC3."

Bitcoinist—October 15, 2018—'Fidelity Will Open Cryptocurrency Trading To Its 27 Million Customers'

Tom Jessop, Founding Head of Fidelity Digital Assets:

"Family offices, hedge funds, and other sophisticated investors are starting to think seriously about this space... The creation of Fidelity Digital Assets is the first step in a long-term vision to create a full-service enterprise-grade platform for digital assets."



IBM— CNN Business—September 12, 2018—

"IBM is betting heavily on blockchain technology revolutionizing everything from shipping to banking...Industry watchers say it's a risky move, given the relative novelty of the technology and the hype surrounding it, but say IBM is well positioned to make it pay off."

"IBM has 1,500 employees working on more than 500 blockchain projects in industries like shipping, banking, healthcare and food safety."

"Through its research, IBM identified three areas where blockchain could be valuable: Financial services, shipping and healthcare. So far, it is placing the greatest emphasis on the financial sector."

"While IBM was open to using blockchain more broadly, it realized the technology wasn't a panacea. Blockchain is best used to turn paper-based tracking systems into digital ones, increase efficiency, and share data across industries."



KPMG— September 11, 2018 "This world is coming, and its name is blockchain."

"The experimentation phase for blockchain is coming to a close with companies now embarking on the execution phase."

"It is much more than a technology, serving as a global transaction platform that requires an intimate knowledge of tax, global trade tariffs, financial risk implications, and core operations."



"KPMG has dedicated blockchain specialists in 30 countries around the world that work with companies in industries including financial services, healthcare and life sciences, industrial manufacturing, telecommunications, retail, technology, and many more."



Northern Trust—February 21, 2017

"Northern Trust in collaboration with IBM and other key stakeholders, has launched the first commercial deployment of blockchain technology for the private equity market."

Justin Chapman, Global Head of Market Advocacy & Innovation Research at Northern Trust: "We have developed a number of blockchain innovations that may be applied to multiple business activities and product offerings, with private equity fund administration being only one example of many potential use cases."

June 5, 2018—"Northern Trust announced today that it has been awarded two U.S. patents for distributed ledger technology inventions for a range of fund administration activities."

July 31, 2018—"At the core of Northern Trust's blockchain work are two patents that could eventually help transform the legacy financial institution into a software provider."



Venture Capital — Safwan Zaheer, Head of FinTech & Digital Banking in the U.S. for KPMG:

"There's more VC flow available than opportunities to invest — a sign of tremendous growth in the space...In particular, investments in blockchain doubled the first half of 2018 compared to 2017. Blockchain has the potential to transform banking and if banking systems were to be rewritten today, they would be based on blockchain."

Crypto Fund Research:

2016—109 blockchain investments

2017—236 blockchain investments

Thru June 15, 2018—216 blockchain investments

The increase in investment in blockchain by leading venture firms is even more pronounced when looking at total deal value. Collectively, they invested almost half a billion in 2017 and that amount could triple to nearly \$1.5 billion in 2018.

35 of the 50 leading venture capital firms investing in blockchain and crypto are based in the United States. Eight are based in Hong Kong/China and three in Germany.

David Carman – FinTank Blockchain: What's Really Happening

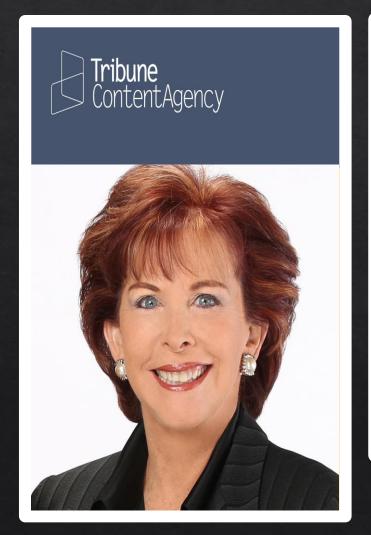
Thank you



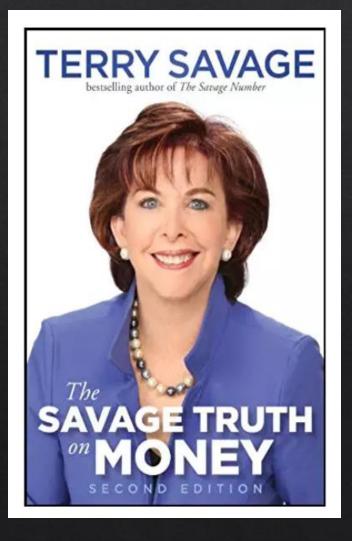
Terry Savage Nationally-Syndicated Financial Columnist



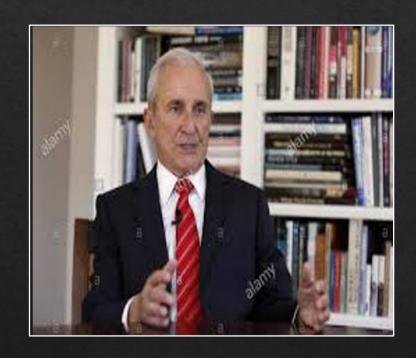
OUR SPECIAL GUEST KEYNOTE INTERVIEWER







KEYNOTE



Dennis Chookaszian



Terry Savage



Richard Sandor

How Major Consulting Firms Are Working With Clients To Implement Blockchain Solutions



Brian Jenkins Business Block CNN Correspondent



Jason Griffiths
Accenture



Sharad.Malhautra EY

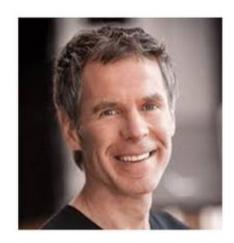


Safwan Zaheer KPMG

It's Break Time

Take The Opportunity To Meet Others And To Stop By The Information Tables

How IBM is Partnering With Clients: Case Studies and Lessons Learned







Chris Tyler

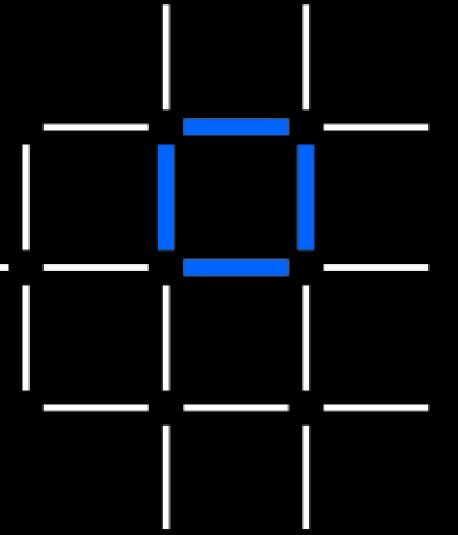


Partnering with IBM Blockchain

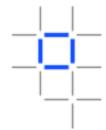
Success stories and programs for partnering success

Dan Spillane – Managing Partner – IBM Services - Industrial

Chris Tyler — Sr. Technical Evangelist — Blockchain, IoT and Analytics



Introductions





Dan Spillane

- Industry Leader & Innovator Blockchain, Business
 Processes & Operating Technologies
- 20+ years of ecosystems development
- 20+ years of asset-based business consulting
- 15+ years Adjunct Professor University of Illinois -Finance
- International Leadership & Student of the Worlds Cultures
- danspillane11 on LinkedIn



Chris Tyler

- Technical Evangelist for Blockchain, Internet of Things and Analytics
- 25+ years of analytics experience
- 10+ years of software development
- 15+ years with IBM Analytics and working with partner ecosystems
- @chrisatyler on Twitter
- ChrisATyler on LinkedIn
- ibm.biz/ChrisATylerBlockchain





What is IBM Blockchain?



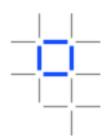
Who is succeeding with IBM Blockchain?



How can IBM help you succeed with blockchain?



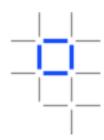
Cryptocurrency vs crypto-assets







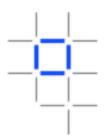
Public vs private blockchain







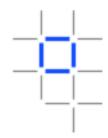
Permissioned vs permission-less







IBM Blockchain technology

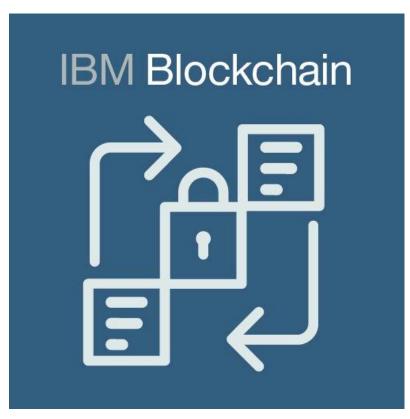




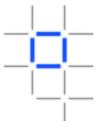








IBM Blockchain solutions



Food Trust



TradeLens

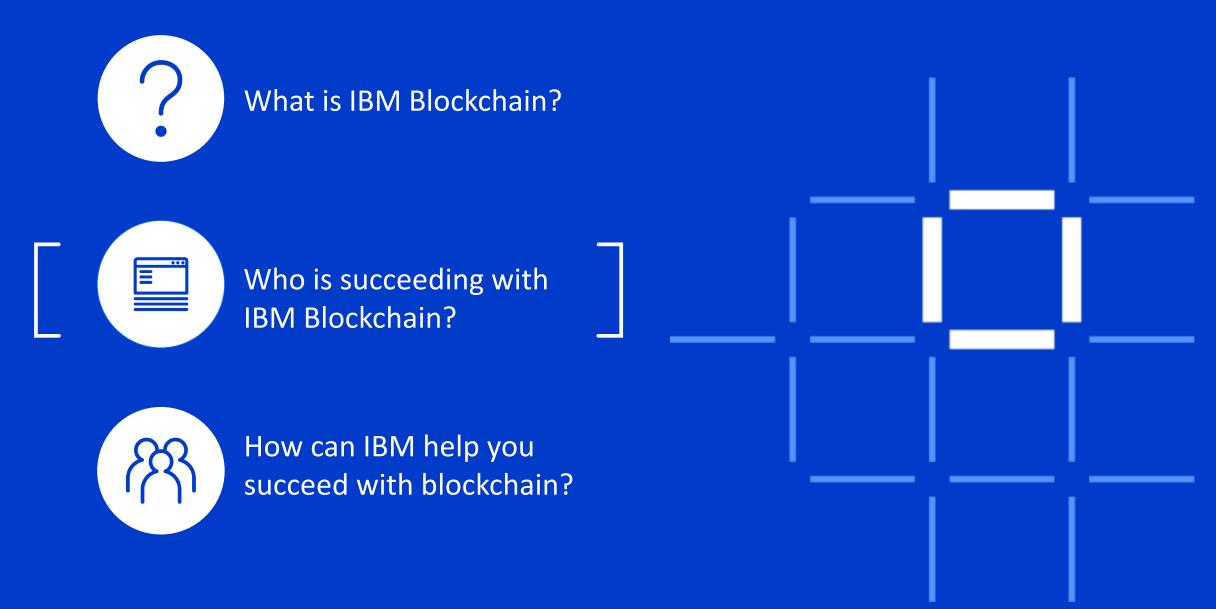


World Wire



Digital Identity





IBM **Blockchain**

IBN



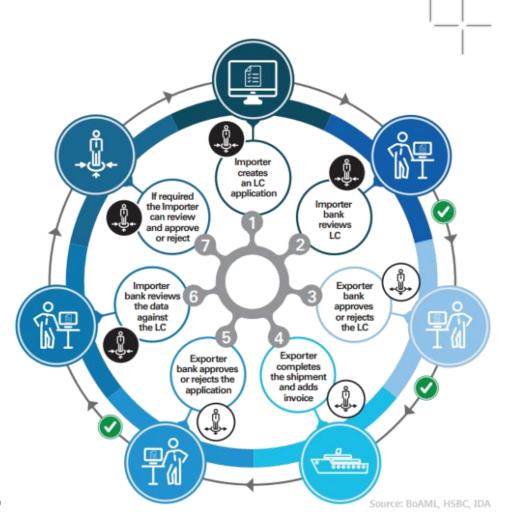
we.trade Trade Finance

What?

- We.trade is a blockchain-based international trading system for a consortium of major world banks including:
 Deutsche Bank, HSBC, KBC, Natixis, Rabobank, Société Générale, Santander, UniCredit and Nordea
- Enables accurate trading posture information, order to settlement control, risk coverage, track and trace options

Benefits

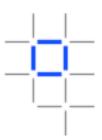
- Near-real time exchange of information on a secure platform that digitizes transactional financing and other complex processes
- Continual business and compliance readiness in any regulatory environment
- Scalability that allows for rapid international expansion as business, regulatory, and security opportunities converge







everledger Legitimize Diamonds and Reduce Fraud



What?

Track diamonds across supply chain from mine to retail

How?

 Shared ledger for storing digital certification with supporting material

Benefits

- Protect against the occurrence of fraud, theft, trafficking and black markets
- Assist in the identification and reduction of synthetic stones being labelled as authentic
- Increase speed of transparency for cross border transactions for insurance companies, banks and claimants



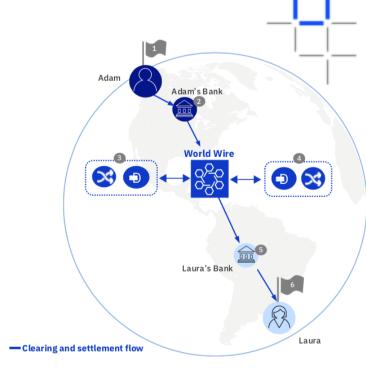


With IBM Blockchain World Wire tomorrow

What?

- IBM Blockchain World Wire is an integrated network for real-time clearing and settlement.
- Allows banks and financial institutions to send and settle payments around the globe with finality in a matter of seconds
- Eliminates enduring challenges that have long hampered the cross-border payments industry.





Benefits

- · Payment support regardless of size, origination, destination or asset type
- Higher visibility for streamlined transactions with reduced disputes and reconciliation needs
- Enhanced regulatory compliance through improved transparency
- Secure network with interaction and eligibility criteria as well as robust access controls





What is IBM Blockchain?



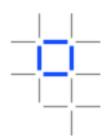
Who is succeeding with IBM Blockchain?



How can IBM help you succeed with blockchain?

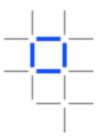


Get to market faster

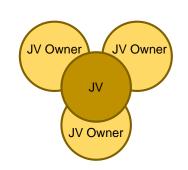


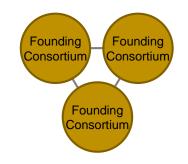
Discovery Workshop	Design Thinking Workshop			(Amos)	
Understand market opportunities and select a use case that represents the value your organization and business network is looking to gain while also gaining a deeper insight into blockchain	Apply IBM Design Thinking principles to evaluate current business processes, identify business network and define the minimal viable product for your blockchain solution.	Dubai	London	Munich	
technology. Length: ½ Day	Length: 2 days				
Architectural Consultancy	MVP Build-up	New York	San Francisco	Singapore	
Enlist the support of a blockchain architect in an IBM Cloud Garage to help define the framework of your blockchain solution.	Develop a functioning blockchain solution using agile methodologies, leveraging experts in IBM Blockchain, UX/UI design and development, and cloud architecture.				
Length: 1 week	Length: 4–10 weeks	Tokyo	Toronto	Anywhere	

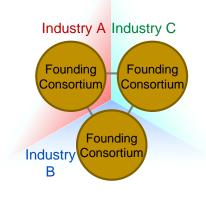
Flexible business models for ecosystems











Founder-Led Network

Single company driving the initial project then others join to form the network

Joint Venture Network

2 or more initiators create a JV to govern the initial network

Consortium Network

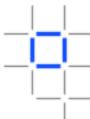
A consortium forms the initial network in a specific industry or sector

Business Ecosystem

A network working across multiple industries or sectors

IBM Blockchain

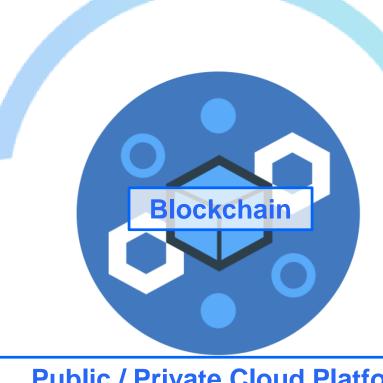
Build a complete solution



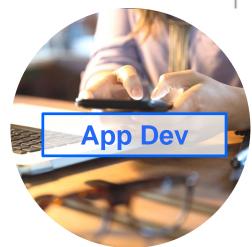








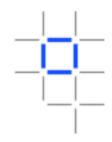
Public / Private Cloud Platform







Flexible business models for margins





Learn & Build

IBM Cloud Credits

PartnerWorld Education Training

Education Discount Vouchers

Technical Brainstorming Sessions



Promote your Success Story

Co-Marketing Budget

IBM Marketplace



Free Option

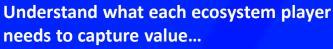


The investment is small, yet the pay-off is massive...

Blockchain is a high growth business; currently small & hyped, yet projected to continue to grow to \$3T by 2030 (Gartner).

The Reality

Create,
Capture,
Sustain



Increase your ecosystem participants by understanding the unique needs and what create and enables the capture of this value...

Hype down-Ramp up!



Get real and find the right mix of Blockchain investments in your industry...

Blockchain is on the down side of the hype curve (Garner), now it's time for the long term players to get their investments ramped up for the valuedriven economy...

Dan Spillane – Director of Growth Initiatives – Industrial Markets Chris Tyler – Sr. Technical Evangelist – Blockchain, IoT and Analytics

Questions? Tweet us or go to ibm.com/blockchain



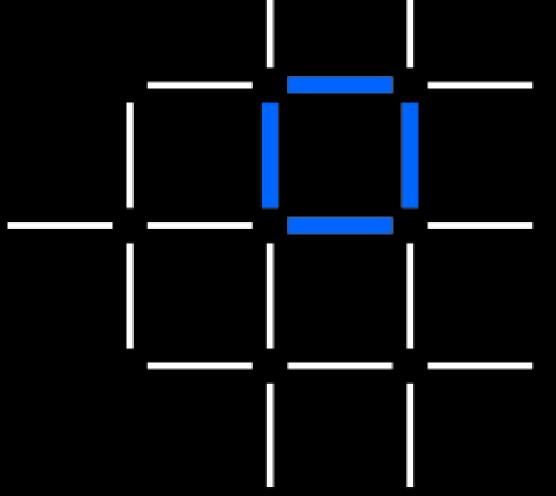
@IBMBlockchain



IBM Blockchain



IBM Blockchain



IBM **Blockchain**



How Financial Services Firms Are Leveraging Blockchain Technology



Micah Kerr Discover



Collin Canright FinTech Rising



Phil Flores BMO



Lamont Black DePaul University

How Northern Trust Is Transforming Financial Services With Blockchain Technology



Arijit Das Northern Trust





Andy Czupek Northern Trust

Using Blockchain Technology To Track Guacamole On The Supply Chain





Edward Honour Tritanium Tracability



Traceability on the Blockchain



Guacamole on the Blockchain





A 16 Ounce Container of Guacamole...



• Started as part of a 455lb Batch of Guacamole



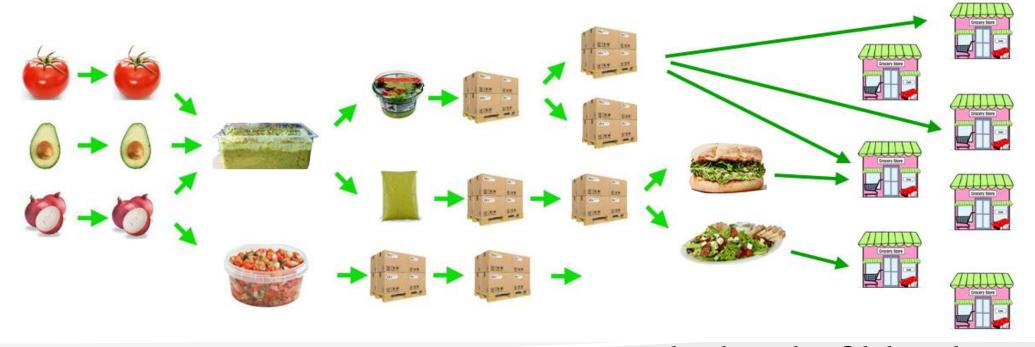
The 455 pound Batch of Guacamole

- Becomes Retail Packaging
 - 8 oz, 16oz, 3lb packaging
 - Shipped to wholesalers and direct to store.
- Also sold wholesale to other manufacturers.
 - Private Label Retail Packaging.
 - Becomes Part of other Products.



The 455 pound Batch created from Ingredients

- Ingredients are received from suppliers
 - Avocados, Onions, Tomatoes...

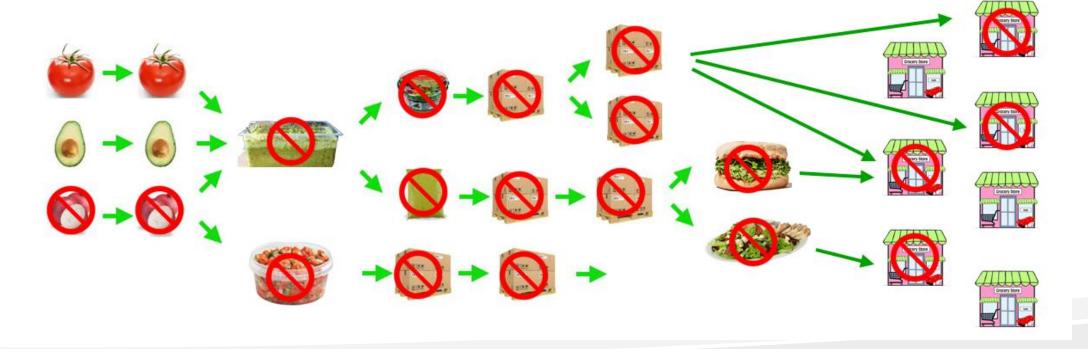


Looks kind of like this...



Until something is recalled

Product or Ingredient





According to the CDC.

- Each year, 48 Million Americans are sickened by a Food Bourne Illness.
- Globally, over 600 Million People are affected.
- The problem causes \$55 Billion to \$90 Billion in economic loss Each year.

Food Safety is a World-Wide Issue...



Problem applies to...

- Food
- Drugs (Prescription and Non-prescription)
- Cosmetics
- Manufactured devices

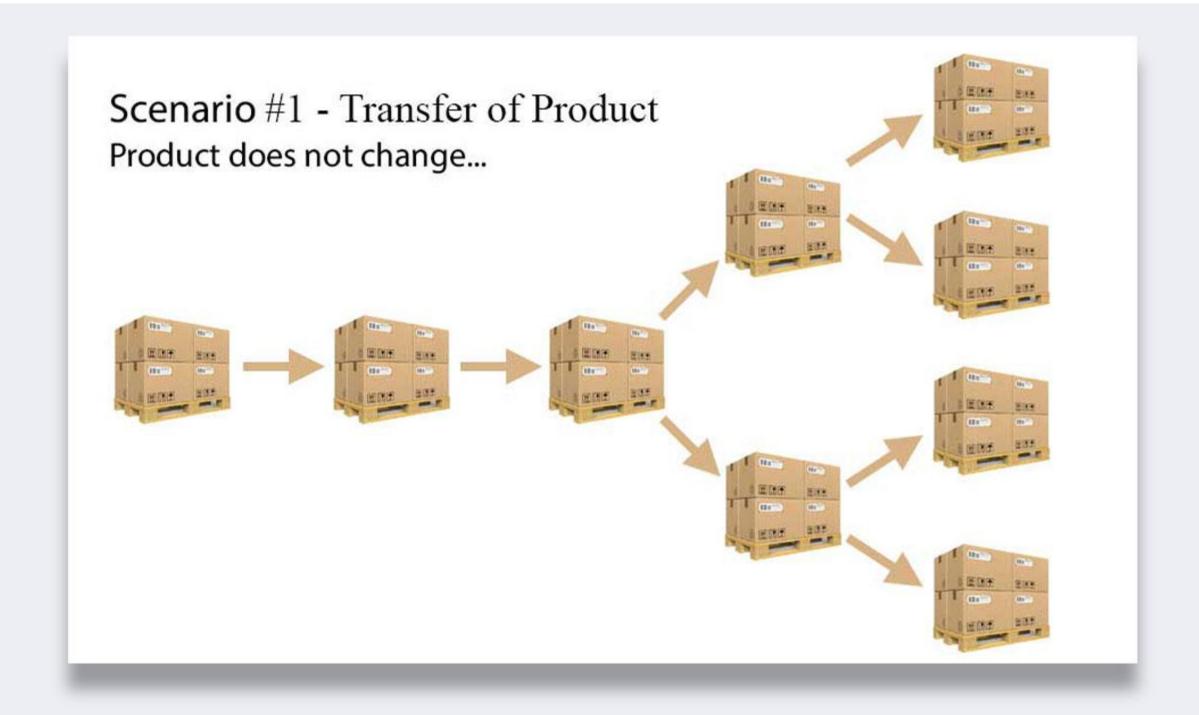
Market for Traceability...



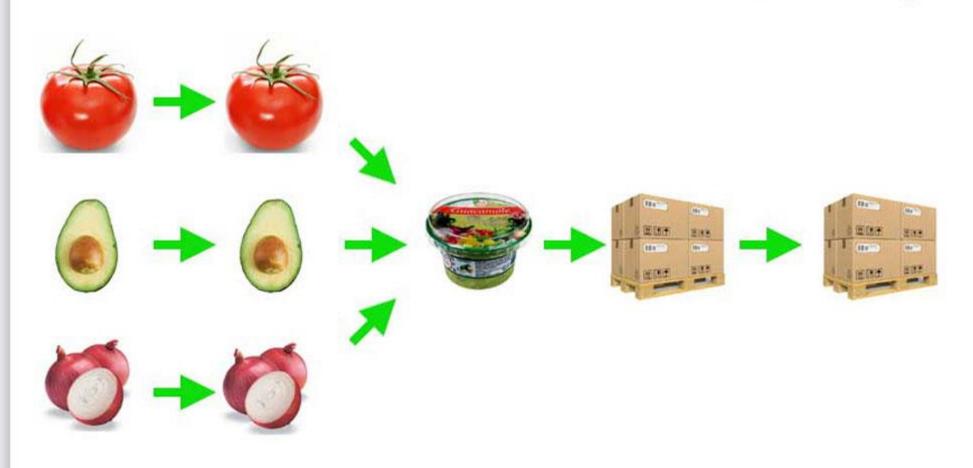
The 4 Requirement of Traceability

• If you have to change the definition of Blockchain to fit your use case, don't go any further.

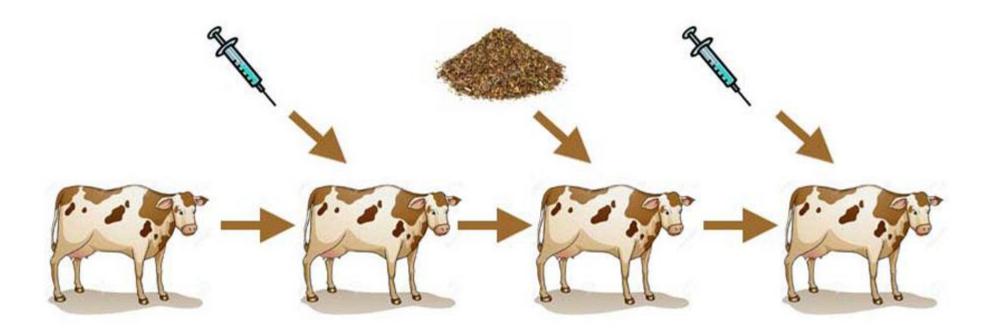
What must be traceable...



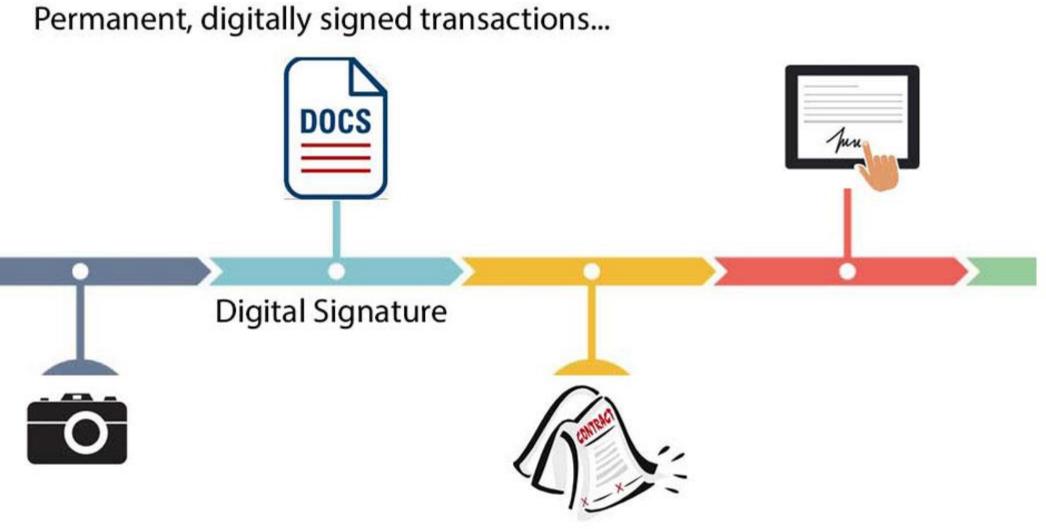
Scenario #2 - Transfer and Manufacture Products combined to make new product



Scenario #3 - Track over Time Farming, Ranching, building...



Scenario #4 - Store on Immutable Ledger Permanent, digitally signed transactions...





What the Blockchain Provides

- Traceability
- Transparency
- Trust

- Distributed Ledger
- For Secure Transfer of Assets
- With Immutable Transactions
 - Protected by Cryptography
 - Agreed upon by Concensous
- Thanks to Satoshi Nakamoto in 2009



UTxO

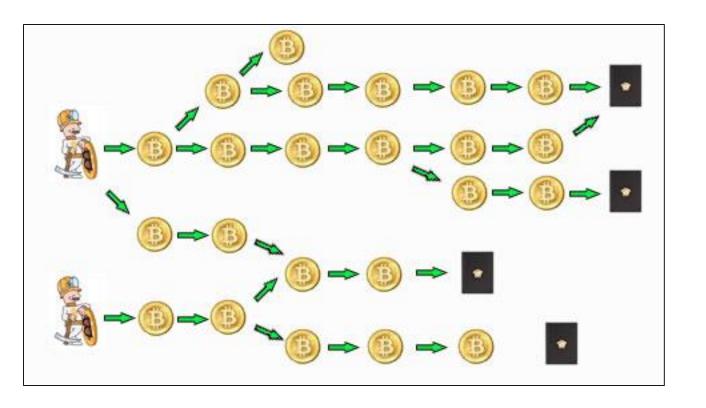
Unspent Transaction Output

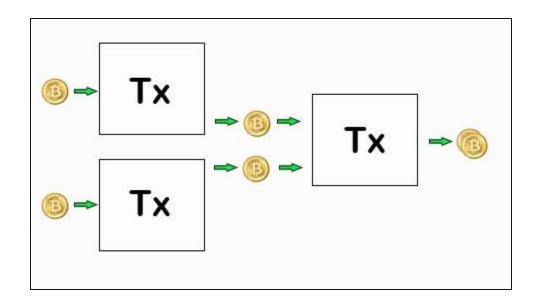
UTxO

- The Mechanism that solves the Double Spend Problem.
- Also provides traceability as an "unintended" feature.
- A coin is a chain of digital transactions.
- The input to each transaction is the output of one or more other transactions
- The coins in your wallet can be traced back to the miner that created.



A Chain of Transactions







The 2009 Blockchain Solution...

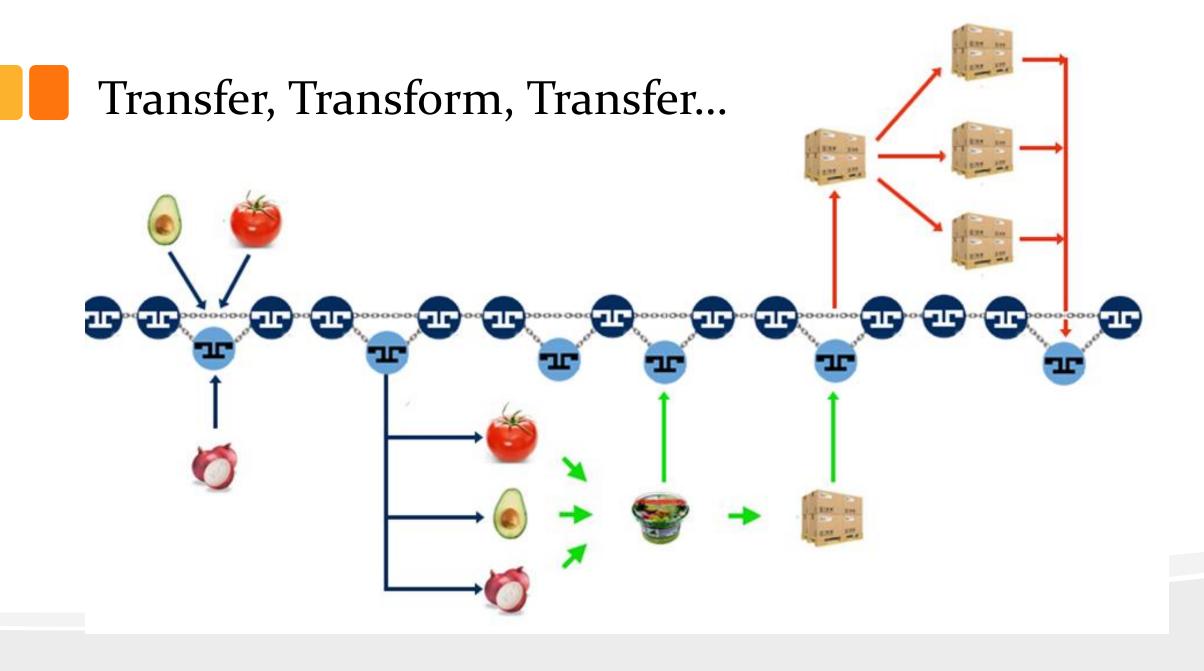
- Traceability is a series of inputs & outputs.
- Blockchain Provides Traceability

The blockchain has potential...



But what makes a Traceability Platform

- Must be available to everyone in the supply chain.
- Must support different requirements across the supply chain.
- Must have the built-in ability to transfer assets across applications.
- Applications must work together and not in silos.
- Must work for all traceability use-cases.





The Other Part of the Solution...

- Wallets are a fundamental part of the Blockchain Solution.
- Smart Wallets are an alternative to Smart Contracts

Wallets don't get the credit they deserve



Blockchain Wallets...

- Scan or Monitor the Blockchain
- Retrieves Data the data a block is a stakeholder in.
- Creates Transactions

• Built with a platform API...



Platform Vision

- Public Blockchain Platform
 - Build traceability blockchain from the ground up.
 - Incorporate the Cryptonote cryptocurrency platform.
 - Support the business model of Ethereum.
- Support the traceability features defined so far.
- Provide an eco-system for applications to be developed and supported that work together.
- Provide a coin with the security features of Monero.



- Launched Traceability in July.
- Launched the Hybrid Platform September 17.
- Hard Fork September 27.
- BitcoinTalk Announcement Thread October 1.
- And watched the mayhem begin.



- Over 300 miners validating transactions.
- 4 Independent Mining pools.
- Around 2Mh/second (ASIC Resistant Mining)
- Currently at block 50,225.
 - 8,625 Traceability blocks.



- Launched the project completely out of order
 - Had customers for the use-cases before building a platform.
 - Launched a single-node private blockchain first to work out the bugs.
 - Merged the Traceability and Public Blockchain.
- No ICO or Presale

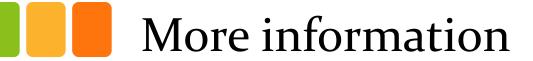


- Kids don't try this at home.
- It's surprising how many things there are to consider.
- Acceptance in the mining community is much higher than expected.
- There is a demand for the solution provided by the platform.



Roadmap / Next Steps

- Architecture allows us to enhance the Traceability Platform without additional Hard Forks.
- Launch Additional Food Safety Applications
- Attract Additional Third Party Applications
- Support the Coin Value.



https://traceabilityblockchain.org

It's Lunch Time 2nd Floor

For Those Of You On The Live-Stream We'll Be Back In 1-Hour

Blockchain: Then And Now



Chris Reinertsen BlockEdge Capital



Shehan Chandraseker JAG CPA

MODERATOR



Alec Ziupsnys BlockEdge Capital



Phil Fornaro Fornaro Law



Brennan Nacol BlockEdge Capital

Legal Aspects of Blockchain Including Smart Contracts



Chuck Mackie
John Lothian News



Kevin Wixted DLA Piper



Will Turner
Barnes & Thornburg



Zach Smolinski Rosario Law

What Investors Look For In Blockchain Starups



Jack Bouroudjian CNBC / UCX



Peter Johnson Jump Capital



Rumi Morales
Outlier Ventures



Clint Cox Crypto Futura Fund

It's Break Time

Take The Opportunity To Meet Others And To Stop By The Information Tables

How Innovative Startups Are Making A Difference With Blockchain Technology



Deji Jimoh WealthBlock



Katherine Hochrein Adjoint



Alice Hlidkova New Economies



Rob Krzyzanowski Spring Labs

Using Blockchain To Tokenize Assets

Global Blockchain Summit 2018



Find out how AlphaPoint is making a difference in blockchain Not just ideas, but actual use cases



Ned Myers SVP Product

Using Blockchain to Tokenize Assets

Live and Live-Stream - Friday, Oct. 19th

AlphaPoint

alphapoint.com

Ned Myers - Alphapoint



Ned Myers, Head of Product & Marketing

AlphaPoint



- 25+ years of securitization experience
- Board Member: Structured Finance Industry Group
- Published Author: Expert on ABS/MBS security regulations
- Member of AlphaPoint Executive team: Head of Product & Marketing

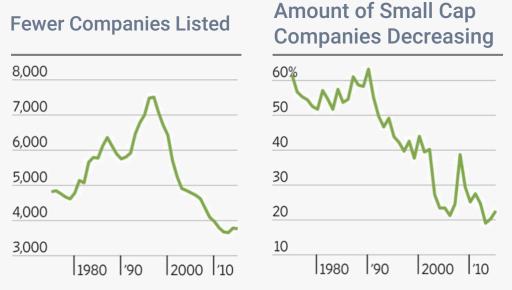
Contact info:

Ned@alphapoint.com

C: 339-234-1302

Share Ownership: Participation in Partial Ownership of Companies

The Shrinking Stock Market

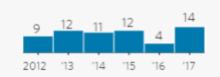


Have Not Outperformed the Market Since the 1980s

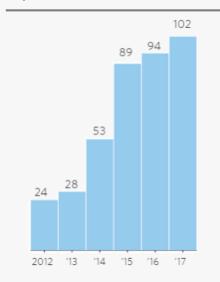


Getting Old, Staying Private

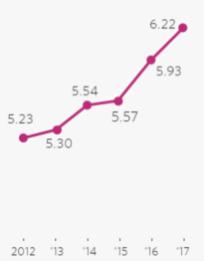
of Start-ups >\$1bn in Value Going Public



VC-backed Companies >\$1bn in Value



Average Annual Time from First Financing to **Major Liquidity Event**



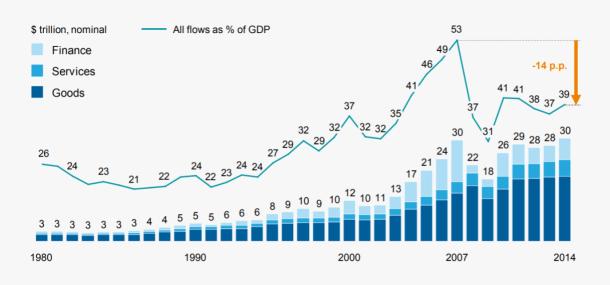


AlphaPoint

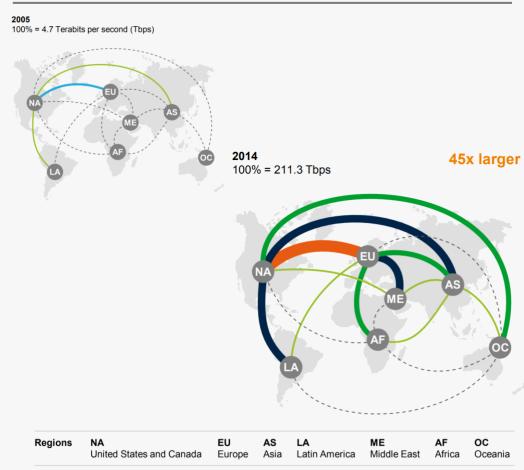
Digital Flows Continue to Permeate the Global Economy

After 20 Years of Rapid Growth, Traditional Flows of Goods, Services, and Finance Have Declined Relative to Global GDP

Flow of Goods, Services, Finance: 1980 - 2014

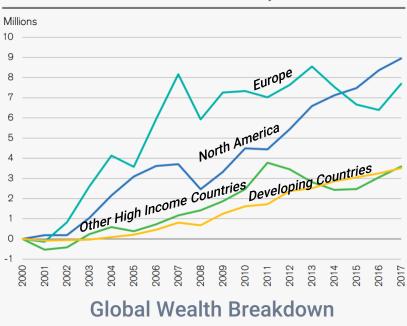


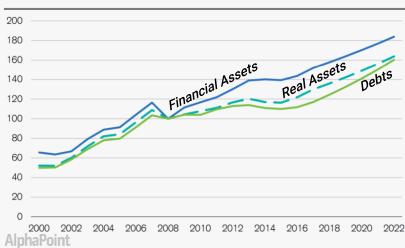
Cross-Border Data Flows Surging, Connecting More Countries: 45x Bandwidth Increase, 2005 – 2014



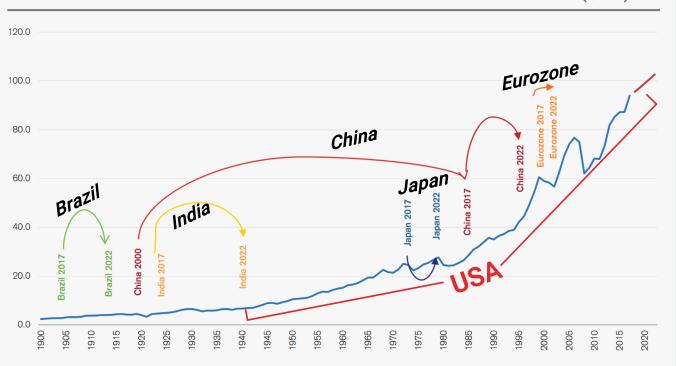
Global Wealth Generation Continues to Rise...

Cumulative Change in Millionaires, by Region / Income Group





Total Wealth in the USA Relative to Select Global Economies (\$trn)



91

Future of Wealth Creation: Major Asset Classes: ~\$52 Trillion1



Private Capital

Financial Assets

~\$47 Trillion



Real Assets

~\$2.5 Trillion



Debt

~\$2 Trillion

Fiat Currencies² ~\$40 Trillion

~\$5 Trillion

Exclusive Goods ~\$150 Billion

Commodities⁴

~\$2.3 Trillion

Securitized Assets⁵ ~\$2 Trillion

Natively Digital³ ~\$2 Trillion

Note: Unless indicated otherwise, figures above are in USD, global market sizes, and for FY16

¹⁾ Sources include: Gold.org, BP World Energy Review, Knight Frank Luxury Index, 2016 US SIFT report, McKinsey & Co. Global Private Markets Review, Coin Market Cap Index, The Money Project

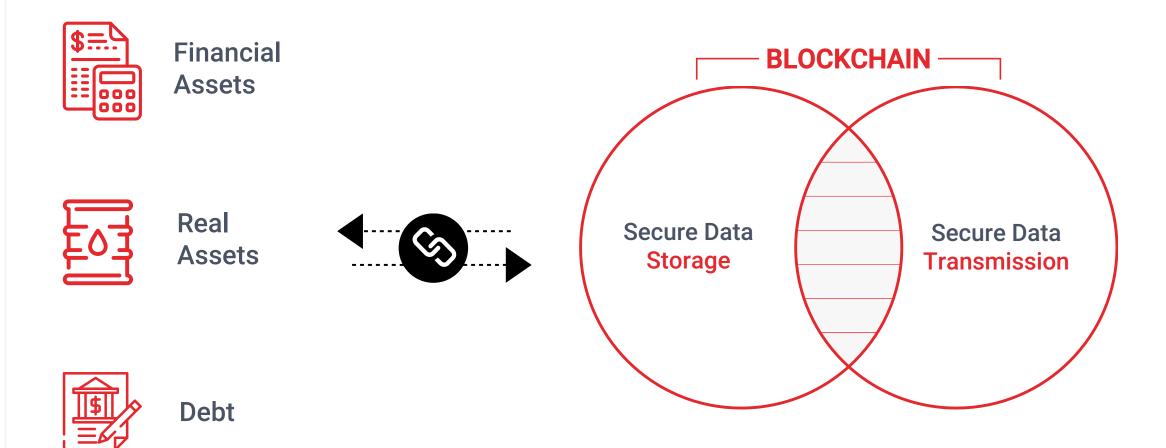
²⁾ Defined as the total value of the world's easily accessible money supply (including coins, banknotes and checking deposits), as defined by The Money Project

³⁾ September 2017 cryptocurrency trade volume annualized

⁴⁾ Each commodity's USD figure above represents the total globally aggregated physical above ground supply generated during FY16

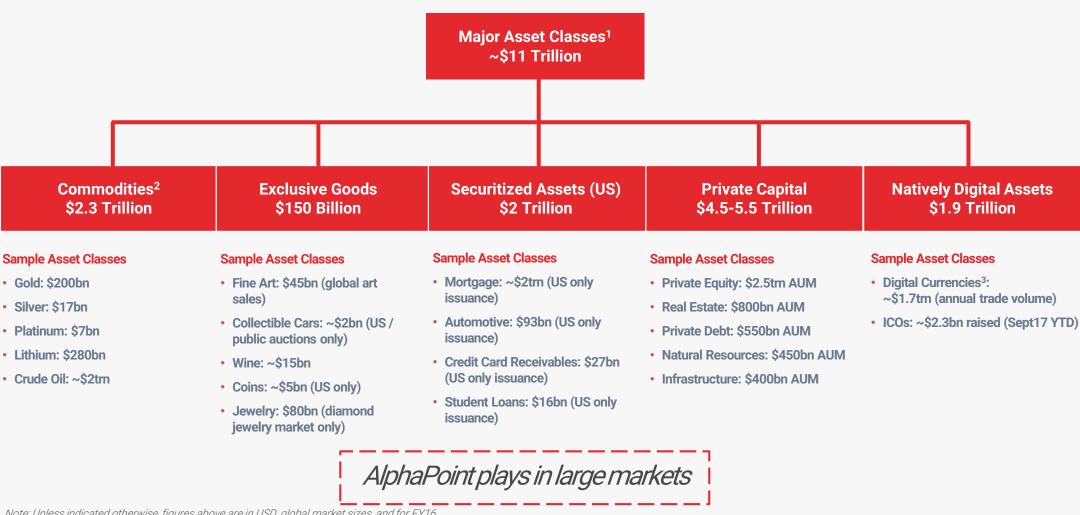
⁵⁾ US (domestic) market size figure - does not incorporate international markets into sizing

Blockchain is the Enabler of Wealth Creation



AlphaPoint Confidential - Not for Distribution

Assets in Circulation



Note: Unless indicated otherwise, figures above are in USD, global market sizes, and for FY16

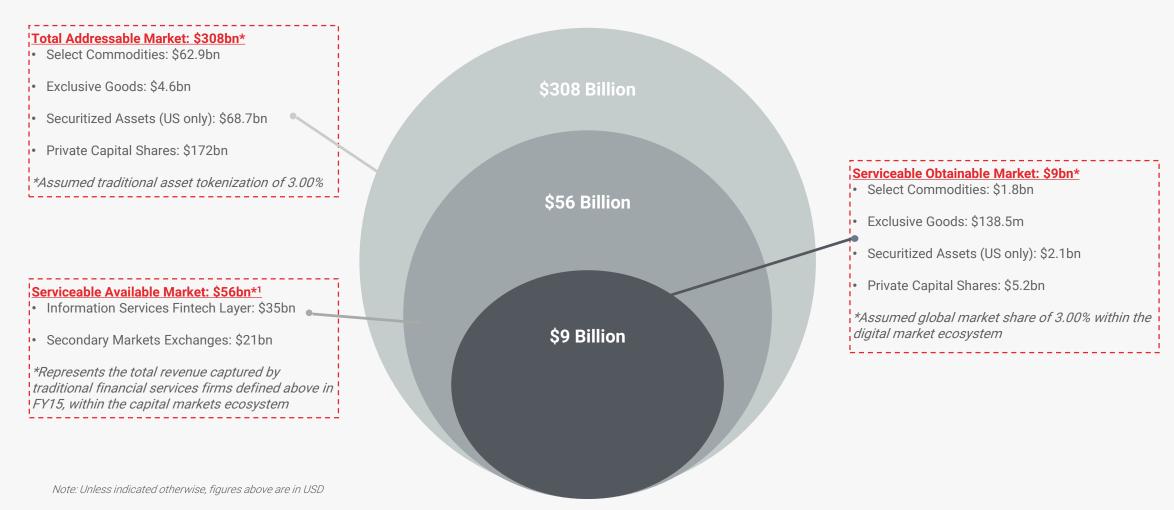
¹⁾ Sources include: Gold.org, BP World Energy Review, Knight Frank Luxury Index, 2016 US SIFT report, McKinsey & Co. Global Private Markets Review, Coin Market Cap Index for all other sources, see Appendix

²⁾ Each commodity's USD figure above represents the total globally aggregated physical above ground supply generated during FY16

³⁾ September 2017 trade volume annualized

Asset Digitization Market Opportunity - 2019

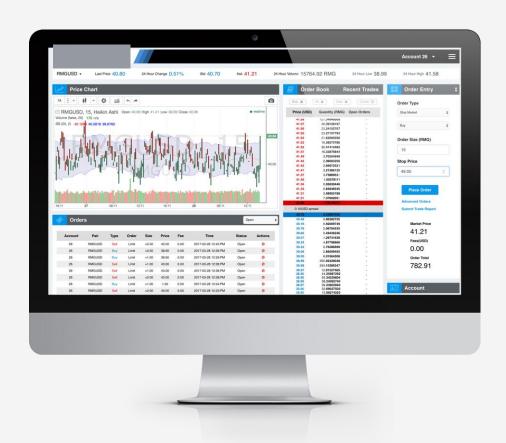
AlphaPoint is strongly positioned to facilitate the tokenization of traditional assets



(1) Source: Boston Consulting Group's 2016 report on the "Value of Migration", see Appendix for more source detail

Use Case: Commodities

- Gold, for example, is an illiquid asset (\$200bn+ market opportunity)
- Current financial instruments are mostly cash settled
- Creation of a token backed by physical gold (real world asset)
- Price discovery & liquidity for market participants
- Trading & Exchange Venue for Spot Gold
- Cryptographically secured using AlphaPoint distributed ledger & exchange platform



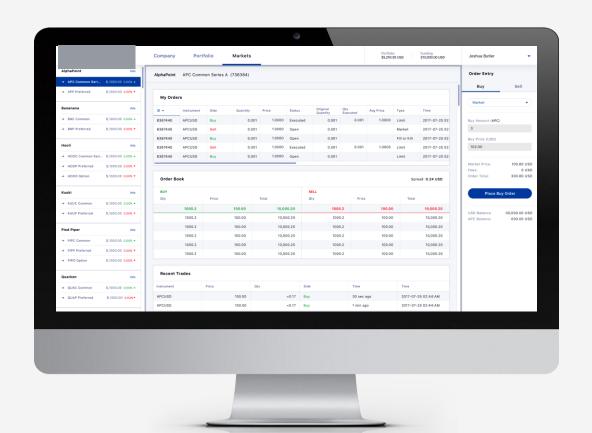
Use Case: Currencies

- National currencies (\$40+ trillion market opportunity) digitized on a blockchain network allow for near-instant peer-to-peer transactions
- Transfer payment across currencies, almost instantaneously for a fraction of today's costs
- Rapid Payment Processing and Settlement
- Greatly reduced FX processing times, processing fees, and reliance on intermediaries
- Automated market liquidity through AlphaPoint's Remarketer product
- All crypto, fiat currencies, and advanced trade types supported



Use Case: Private Shares

- Digitize Private Company Shares (\$2.5 trillion market opportunity) – each share is representative of a token
- No readily available secondary market (increased flexibility and capital opportunities for shareholders)
- Real-time transparency into ownership structure – certainty for investors, insight for private companies
- Streamlined costs, removing need for pen-andpaper or spreadsheet-based recordkeeping
- Accredited investors
- Sanctum or "loud" on the exchange





Use Case: Private Real Estate

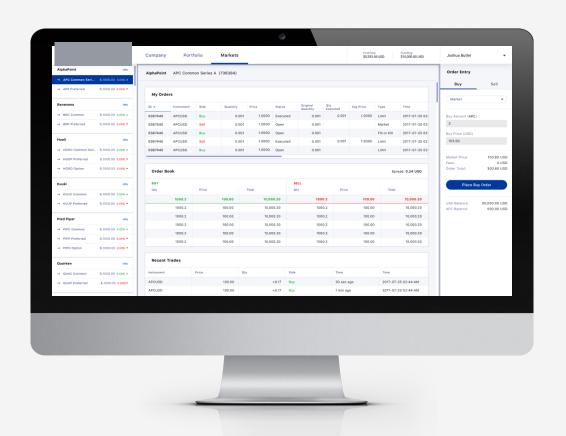
- Private Real Estate Investment Market is an \$800bn opportunity
- Muirfield Investment Partners is a private equity real estate investment firm leading the effort to leverage blockchain technology to reinvent private equity investing
- \$200m US focused RE investment fund where ownership interests (US accredited, globally open) will be represented by the MIF token (\$1/MIF token)
- Allows unparalleled access to institutionally managed, mid-market real estate while enabling fractional ownership and enhanced liquidity





Use Case: Bonds, Loan Portfolios, ABS

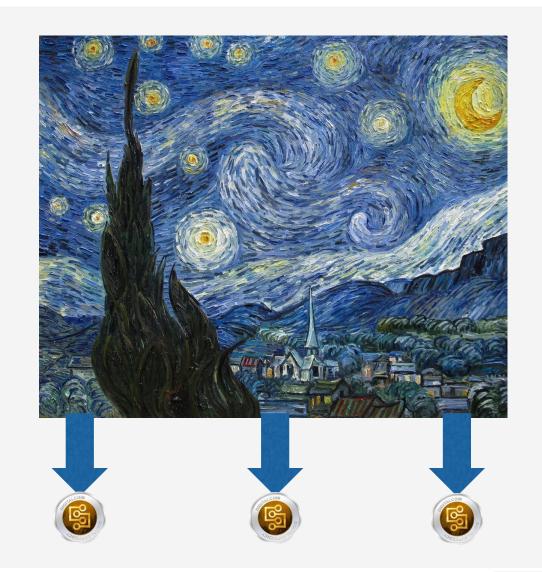
- ~\$2T in securitized assets alone
- Bilateral trade
- Highly opaque as to loan or bond composition
- Each loan or a pool or a security could be a token
- No readily available secondary market
- Real-time transparency into pool and collateral



AlphaPoint

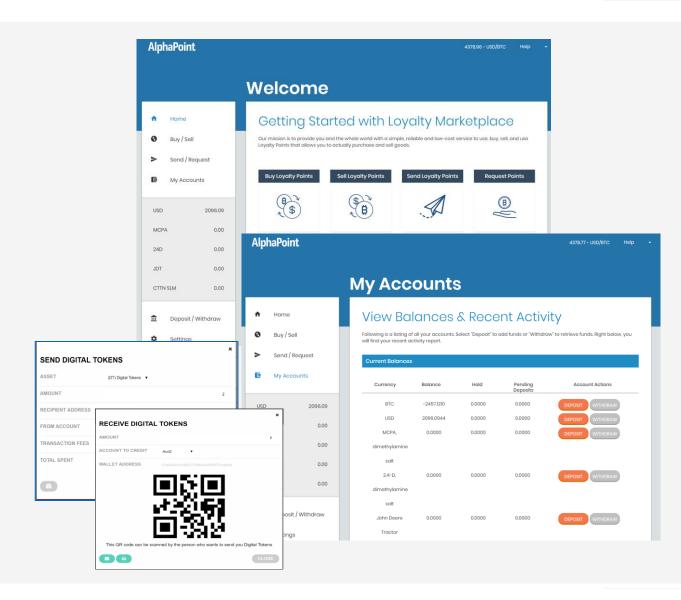
Use Case: Fine Art

- Fine art collections (~\$50bn market opportunity) are highly illiquid as an asset class
- Sale of an art asset in current market is typically an "all or nothing" sale (i.e. not sold incrementally)
- Tokenizing art creates liquidity for collectors without necessitating the sale of the entire work
- The piece could be held in custody by a museum while the ownership rights would be traded via a smart contract
- Blockchain facilitates price discovery & liquidity for market participants



Use Case: AlphaPoint Exchange ("APEX")

- Leverage AlphaPoint Exchange Technology Platform to securely trade natively digital and tokenized assets
- Battle tested, SaaS exchange solution for the enterprise
- Instant liquidity via global network of 100+ partnership exchanges
- Speed to Market: launch in 60 days
- Consumer and professional user interfaces for buying, selling, transferring, and otherwise trading digital assets



AlphaPoint

Problem Solved: Making Illiquid Assets Liquid

PROBLEM



Costly to Digitize Assets



Costly to Launch Markets



Costly to Establish Trust

SOLUTION



Asset Digitization & Custody



Asset Exchange & Settlement

About AlphaPoint



Founded June 2013



Extensive Capital Markets Fintech Experience



High-Growth Stage



65+ Global Customers



Over \$2B in Transaction Volume













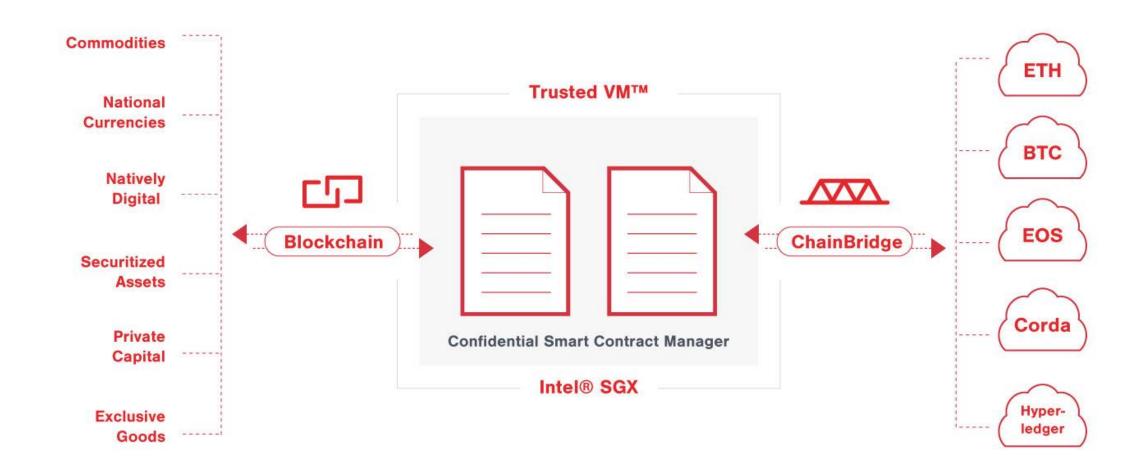
AlphaPoint Confidential - Not for Distribution

AlphaPoint Network: Global Client Base, 100+ Global Customers



AlphaPoint Confidential - Not for Distribution

Democratizing Asset Digitization and Value Creation



Confidential – Not for Distribution

AlphaPoint

Thank You!

Ned Myers • Chief Marketing Officer www.alphapoint.com • ned@alphapoint.com



Electronic Trading And Custody Using Blockchain Technology



Peter Waltz Polsinelli



Tom Jessop Fidelity



Colleen Sullivan
CMT Digital



Andrew Koslow FolioFN



Eric Richmond CoinSquare

What The Future Holds For Blockchain



Frank Makrides -- Tunnel





What The Future Holds For Blockchains



WHY CAN'T YOU SPEND CRYPTOCURRENCY?











WHAT IS PREVENTING MASS ADOPTION?



Too DIFFICULT TO USE



SCALABILITY IS THE BIGGEST HURDLE AHEAD OF CRYPTOCURRENCY MASS ADOPTION

BUSINESS Insider PRICE VOLATILITY, SLOW TRANSACTION TIMES, HIGH TRANSACTION FEES



CUSTOMER EXPERIENCE

OTHERS

TUNNEL

- FOR SECURE TRANSACTIONS YOU
 CURRENTLY NEED TO DOWNLOAD
 GIGABYTES OR MORE OF DATA
- CRAZY LONG PUBLIC & PRIVATE KEYS
- If you send money to the wrong address you lose your money
- You can't call1-800-SATOSHI for HELP

 Run a light Node on your mobile phone

- MAP KEYS TO KEYWORDS
- IF YOU SEND MONEY TO THE
 WRONG ADDRESS IT COULD
 TIME OUT AND YOU GET IT BACK
- TUNNEL WILL PROVIDE PAID SUPPORT SERVICES



FEATURES NEEDED



GLOBAL & FREE



CONFIDENTIAL TRANSACTIONS



INSTANT & SCALABLE



DECENTRALIZED & ON CHAIN GOVERNANCE



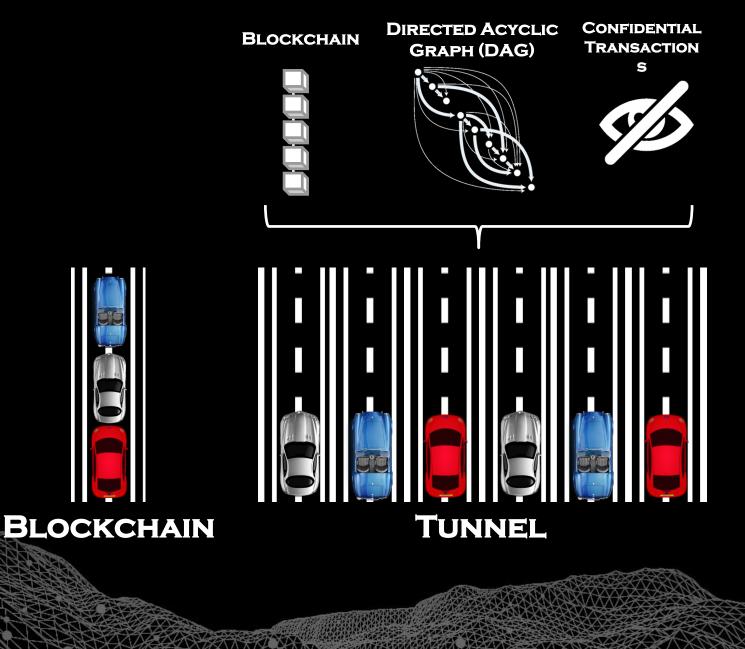
PROOF-OFSTAKE
CONSENSUS,
ECO-FRIENDLY —
NO MINING!



SIMPLE, SECURE W/NON-YOLATILITY*

*NON-VOLATILITY FEATURE WILL BE TESTED OVER THE COMING MONTHS. BASED ON THE RESULTS, WE WILL DETERMINE IF WE CAN RELEASE THIS FEATURE.







THE FUTURE

- . REGULATION NEEDS TO BE CLEAR
- . ADOPTION IS KEY
- TECHNOLOGY UPGRADE IS NEEDED
- . THE TRANSITION FROM
 - CENTRALIZED
- TO DECENTRALIZED IS COMING!



INDUSTRIES THAT WILL BE DISRUPTED

FINTECH





REAL ESTATE





FUND RAISING



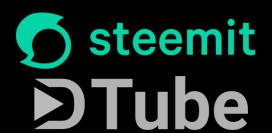


Social Media











TECHNOLOGY CONVERGENCE



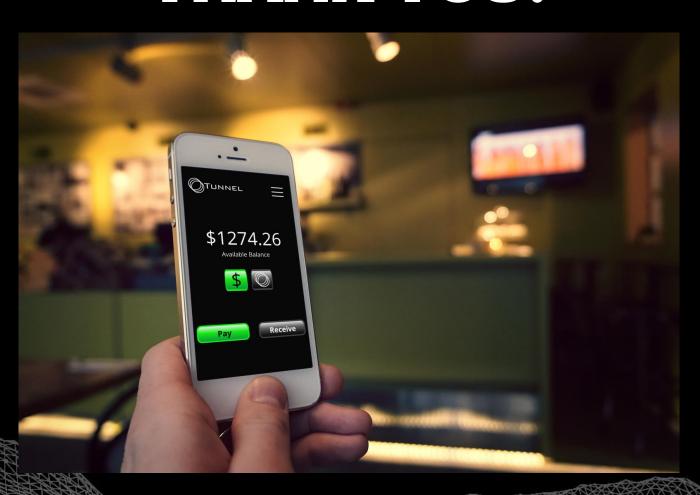
- . BIOENGINEERING
- . ROBOTICS
- . DEEP LEARNING



THANK YOU!

WWW.TUNNEL.MONEY INFO@TUNNEL.MONEY @TUNNELMONEY





Bringing It Home

- Thank You To Everyone Who Made This Event Possible
- Thank You To All Who Participated
- My Hope:
 - -- You've Learned Something.
 - -- You've Made Some New Contacts
 - -- You'll Take What You've Learned And Put It To Use.



George Vukotich, Ph.D FinTank

It's Not Over – It's Time To Network

Talk About What You Heard &

What You're Going To Do Going Forward

If You're Leaving — Safe Travels
Live-Stream Viewers — Thank You



Chicago's Global FinTech Hub

