

2022 WICPA ACCOUNTING TECHNOLOGY CONFERENCE

YOUR SOURCE FOR KEY UPDATES & INSIGHTS ON TIMELY ISSUES





BLOCKCHAIN BASICS

Gain an understanding of actionable business insights connected to virtual money options, resources where attendees can learn more and suggestions about how to speak to clients about these issues



THE FUTURE OF MONEY

Discover just what exactly the future of money, a complex topic, might be and what external factors will drive this evolution



CPA TECHNOLOGY TRENDS UPDATE

Learn about new and emerging technologies, such as cloud computing, data analytics, the metaverse, digital money, artificial intelligence, state-of-the-art equipment and more

CONFERENCE AT A GLANCE

THURSDAY, DEC. 8 | BROOKFIELD CONFERENCE CENTER | BROOKFIELD

7 - 8 a.m.

Registration & Networking Celebration Atrium

8 - 8:10 a.m.

Welcome & Opening Remarks
Connect C1 & C2

8:10 - 9:50 a.m.

GENERAL SESSION

The Future of Money
Connect C1 & C2

9:50 - 10:05 a.m.

Networking Break

Celebration Atrium

10:05 - 10:55 a.m.

BREAKOUT SESSIONS

Blockchain Basics

Connect C3

KPI Dashboards

Connect C1 & C2

10:55 - 11:10 a.m.

Networking Break

Celebration Atrium

11:10 a.m. – 12 p.m.

BREAKOUT SESSIONS

Key Considerations for Setting Up a Crypto Payments System

Connect C3

Cloud Accounting Software

Update

Connect C1 & C2

12 – 1 p.m.

Networking Lunch

Collaborate A & B

1 - 1:50 p.m.

BREAKOUT SESSIONS

Non-Fungible Tokens

Connect C3

Microsoft Teams Deep Dive

Connect C1 & C2

1:50 - 2:05 p.m.

Networking Break

Celebration Atrium

2:05 - 2:55 p.m.

BREAKOUT SESSIONS

Hot Topics & Trends in Virtual

Money

Connect C3

Get the Most Out of Office 365

Connect C1 & C2

2:55 - 3:05 p.m.

Networking Break

Celebration Atrium

3:05 - 4:45 p.m.

GENERAL SESSION

CPA Technology Trends Update

Connect C1 & C2

4:45 p.m.

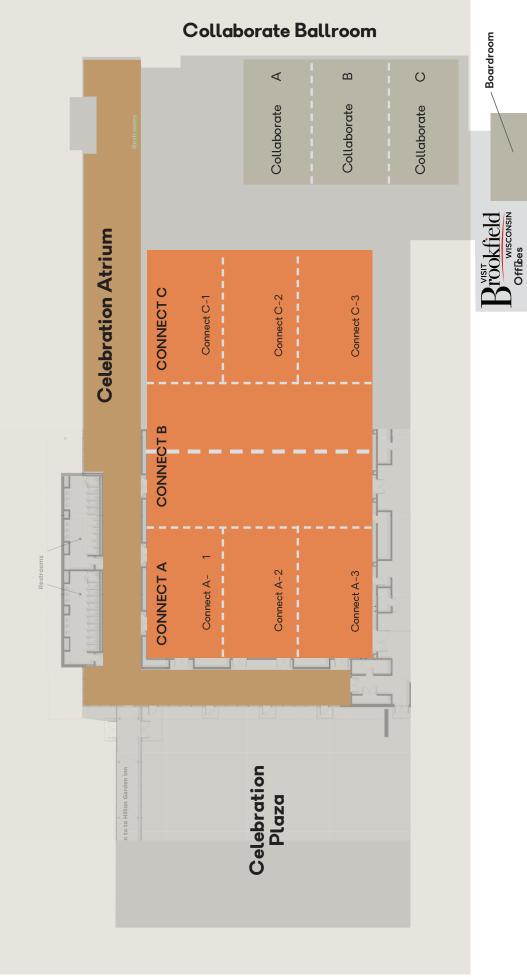
Closing Remarks & Raffle

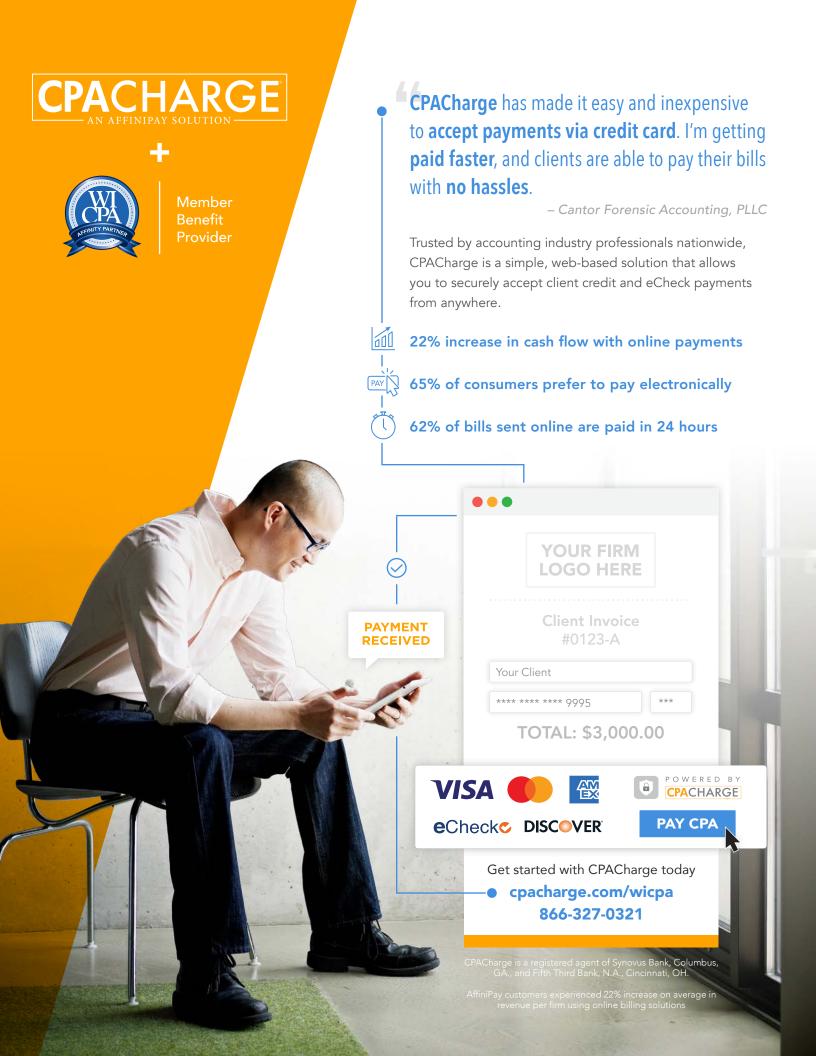
Drawings

Connect C1 & C2

CONFERENCE ROSKEIE I

FLOOR PLANS AND CAPACITY CHARTS







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8:10 - 9:50 a.m.

The Future of Money

Dr. Sean Stein Smith, CPA, CMA, CFE, CGMA, *Professor University of New York City*

The Future of Money

Dr. Sean Stein Smith WICPA Technology Conference December 8th, 2022



About me

- ▶ Dr. Sean Stein Smith, CPA, CMA, CGMA, CFE
- Assistant Professor, Lehman College, City University of New York
- Forbes Contributor Crypto & Blockchain
- ▶ AICPA Outstanding CPA of the Year (2022)
- Accounting Today Top 100 Most Influential People in Accounting
- E.C. Harwood Visiting Research Follow American Institute of Economic Research
- Board of Advisors Wall Street Blockchain Alliance (WSBA)
- Chair, Accounting Working Group, WSBA
- Advisory Board Member Gilded "Crypto Accounting Made Simple"
- Strategic Advisor Crescent City Capital
- ▶ 40 under 40 in Accounting (2017-2022)
- NJCPA Trustee (2022-2025 FY)

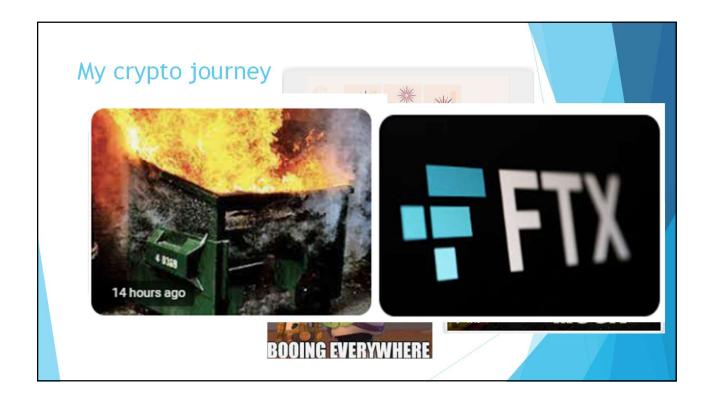
Let's do a little more introduction











Now we're all caught up

What is money

Money has three fundamental properties:

- A store of value, meaning people can save and use the value later
- A unit of account, a common base for pricing and comparison
- A medium of exchange; a way for people to use a common currency for buying and selling from one another

Money also has several important attributes:

- Durable, ability to last a long time before needing to be replaced
- Portable, something easily carried from one place to another
- Divisible, something easily divisible into smaller units
- Fungible, one unit is interchangeable with or the same as any other unit

But what does that really mean?

- Money to needs to be trusted
- Money needs to be accepted
- Money needs to be redeemable
- Money needs to understood
- ▶ Money needs to be accessible
- ▶ Money needs to be stable
- Money needs to be portable

Blockchain

- First things first, who is to blame/give credit to for all of this?
- Satoshi Nakamoto
- https://bitcoin.org/bitcoin.pdf
- ▶ 10 pages (easy read)

Bitcoin: A Peer-to-Peer Electronic Cash System

Satoshi Nakamoto satoshin@gmx.com www.bitcoin.org

Abstract. A purely peer-to-peer version of electronic cash would allow online payments to be sent directly from one party to another without going through a financial institution. Digital signatures provide part of the solution, but the main benefits are lost if a trusted third party is still required to prevent double-spending. We propose a solution to the double-spending problem using a peer-to-peer network. The network timestamps transactions by hashing them into an ongoing chain of hash-based proof-of-work. The longest chain not only serves as proof of the sequence of events witnessed, but proof that it came from the largest pool of CPU power. As long as a majority of CPU power is controlled by nodes that are not cooperating to attack the network, they'll generate the longest chain and outpace attackers. The network itself requires minimal structure. Messages are broadcast on a best effort basis, and nodes can leave and rejoin the network at will, accepting the longest proof-of-work chain as proof of what happened while they were gone.

We are not sure who or what Satoshi is, but this is individual/team that developed blockchain

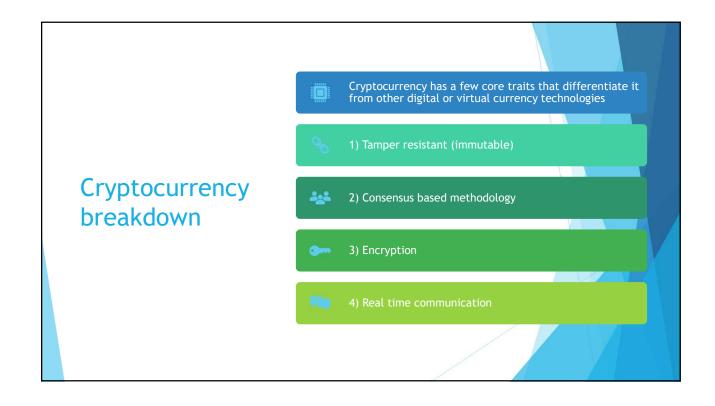
Satoshi

Almost as important as who is the "why" behind blockchain and cryptocurrencies

Why it doesn't matter

- ▶ Some argue that not knowing who created Bitcoin is a negative
- ▶ Do you know who invented:
- ► The Internet
- Cell phone
- Streaming video
- Ecommerce
- Does it matter?

Large numbers of the cryptocurrency community wanted a technology and option that 1) Not controlled by a centralized government or political entity 2) Lower cost basis to transmit funds 3) Ability to democratize finance and funding 4) Reduce reliance on traditional financial institutions 5) Empower the individual



The dark side of crypto

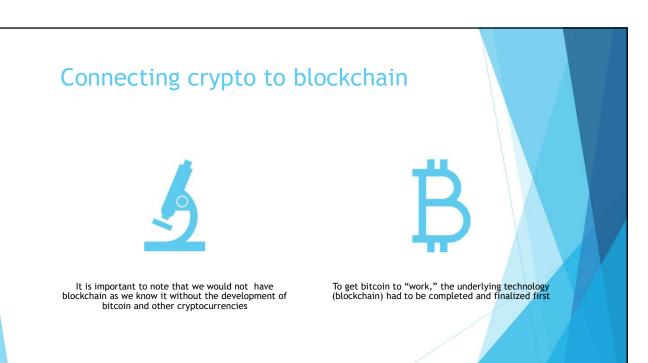
- ▶ Like any other technology tool there is the potential for blockchain and cryptocurrencies to be used for unethical, criminal, or otherwise illegal acts
- Silk Road
- Money laundering
- Criminal activities
- Always opportunity for abuse

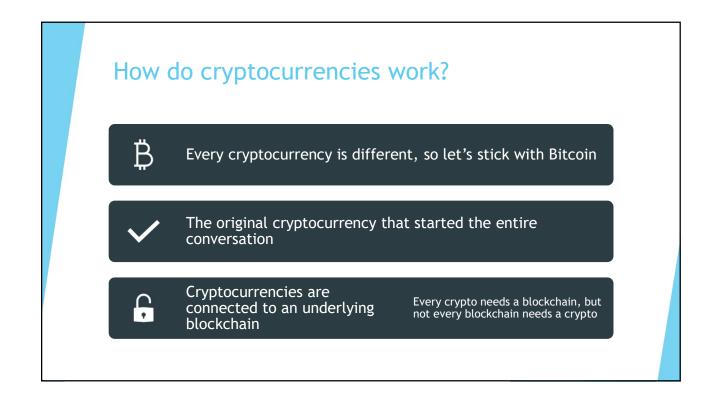


Dark side of cash

- Cash is also used for
- ▶ 1) Criminal activities
- ▶ 2) Money laundering
- > 3) Buying and selling illegal goods/services
- ▶ So crypto is no different in that regard







How are they different from fiat?

Bitcoin

- Fixed supply (21 million)
- Requires investment to create new units
- Not issued by a government or central oversight authority
- Borderless
- Cryptographically secured

USD

- Unlimited supply (printer go brrr)
- No investment required to increase supply
- Controlled entirely by central government or central bank
- ▶ Linked to specific nation-state
- No inherent security

Different cryptoassets (more than bitcoin)

Crypto-classes

- Decentralized cryptocurrencies
 - Bitcoin
- Semi-centralized cryptocurrencies
 - Stablecoins
- Centralized cryptocurrencies
 - Central bank digital currencies

Applications

- Smart contracts
 - Enable blockchains to talk to other technology
- Decentralized autonomous organizations
 - Organization governed by smart contracts
- DeFi
 - Banking without the banks

Blockchain not just crypto

Important to recognize that blockchain is a lot more than cryptocurrency

Think of blockchain like the underlying "internet" or technology platform, with cryptocurrencies running on top of that platform like websites

Hundreds of enterprise applications that do not use crypto

Questions to think about?

- ▶ Will crypto ever be accepted in the mainstream?
- Will bitcoin be the future of money?
- Does crypto have a different path toward currency dominance?
- ▶ What are the other options for crypto-adoption?
- Has the promise of either blockchain or crypto actually been realized?

Some more questions

- Are we going to talk about FTX?
 - Yes
- ▶ Is crypto going to \$0
 - ▶ I don't think so
- ▶ Is crypto a giant Ponzi scheme?
 - Funny you should ask?
- ▶ What is your 2023 prediction?
 - ▶ We will cover that at the end



FTX meltdown

FTX was a market leader in the cryptoasset marketplace

Obtained numerous celebrity endorsements and naming rights for venues

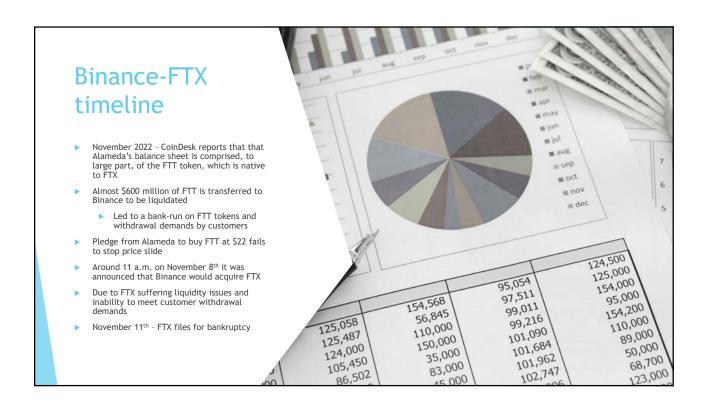
Had served as the "white knight" for other crypto organizations during the ongoing bear market

That all changed starting on November 6th, 2022

Let's take a look at the timeline of the collapse of FTX and its proposed acquisition by Binance

Binance-FTX timeline

- ▶ July 2022 FTX and Sam Bankman-Fried (SBF) bankrolled the troubled crypto lender BlockFi, and acquires Canadian crypto firm Bitvo as well as agreeing to acquire Voyager Digital
- August 2022 Alameda Research co-CEO steps down
 - Alameda Research is closely connected to FTX, raising questions around governance and risk management
- September 2022 FTX President steps down
- October 2022 SBF is revealed to having donated \$50 million to U.S. political candidates, and expresses support for Digital Commodities Consumer Protection Act
 - Widely rejected by the crypto community, except for SBF





Let's have some context

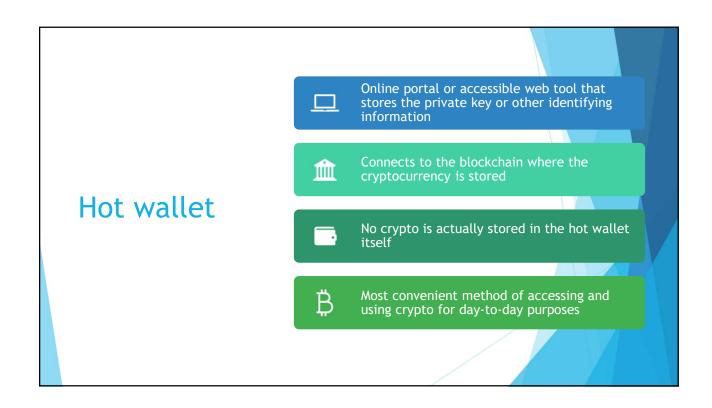
- October 2022 Mastercard partners with Paxos to help banks and other intermediaries authorize and settle financial transactions
 - Already used by PayPal
- Madeira Islands (Portugal) are planning to embrace/adopt bitcoin
 - Potentially as legal tender
- Bitcoin Cash to be accepted as legal tender in St. Kitts
- Stablecoin transaction volume topped \$800 billion in September
- That's not all

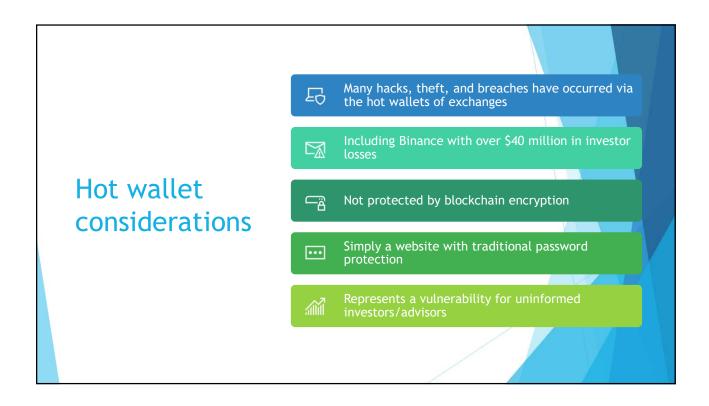
More context

- ▶ Blackrock and Coinbase have agreed to offer a jointly managed platform to allow institutions access to crypto trading and custodial services
- ▶ JP Morgan is expanding its enterprise blockchain, Onyx, and just completed it's first ever decentralized finance transaction
 - Polygon blockchain
- ▶ About 1 billion people have used crypto in 2022
- ▶ About 320 million daily users worldwide
- ▶ But there is more....

Keep this in mind

- 2022 has seen multiple centralized exchanges and platforms fail or struggle dramatically
 - Celsius
 - TerraLabs
 - BlockFi
 - ▶ FTX
 - Many others
- Investors withdrew over \$1 billion in bitcoin from exchanges over the weekend
- Creates opportunities for new services crypto & cyber







Cold wallet considerations

- What hardware option to purchase?
- ► How to designate authorized parties
- Processes to be implemented to grant access to the cold wallet itself
- Physical storage considerations
 - ▶ Should be offsite in a secure location
 - ▶ May even be a bank safety deposit box
 - Procedures for recovering it must be documented

Key management

- One additional consideration for anyone seeking to provide services in this space is to understanding the following
- ▶ Public key & private key
- Public key = your address
- Private key = key that opens your P.O. box
- Public keys can be shared widely
- Private keys must be protected
- "Not your keys not your coins"

So what is the future of money? Stablecoins or CBDCs?

Stablecoin vs. CBDC

Stablecoins

- Backed or otherwise supported by any number of external assets
- Issued by a private entity and centrally managed
- Cryptoasset layered on top of external asset (fiat/commodity, etc.).

CBDCs

- Issued and governed by a central government or central bank
- Direct representation of existing fiat currencies
- Will be treated as monetary alternative

What is a stablecoin?

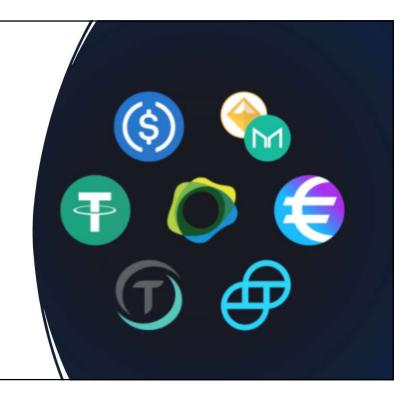
- Cryptocurrency that is backed, pegged, or otherwise supported by some other underlying asset
- ▶ 1) Fiat
- > 2) Commodity (gold or oil)
- > 3) Additional cryptocurrency playing the role of reserve currency
 - MakerDAO
- 4) Or a basket of reserve assets (Libra 1.0)
- 5) Of a 1-1 crypto to asset relationship (Libra 2.0)

What are the benefits of stablecoins

- To solve the volatility and perceived lack of stability associated with traditional decentralized and distributed cryptocurrencies
- 2) Goal: Encourage broader adoption and utilization of stablecoins as viable alternatives to fiat currencies
- 3) Criticisms: not "true" crypto, are they better?

Types of stablecoins

- -Fiat stablecoin
- Crypto stablecoin
- -Commodity stablecoin
- Algorithmic stablecoin
- -Hybrid stablecoin
- Derivative backed
- -Sovereign stablecoin



President's Working Group Report on Stablecoins

- •
- https://home.treasury.g ov/news/pressreleases/jy0454
- First comprehensive report on stablecoins issued by the Federal Government, with major private sector partners



PayPal Stablecoin

- PayPal is actively working on developing a native stablecoin
- https://cointelegraph.com/n ews/paypal-stablecoin-whatit-could-mean-for-payments
- Has over 350 million users
- Already allows users to transact in Bitcoin, Litecoin, Ether, and Bitcoin Cash

PayPal stablecoin: What it could mean for payments PayPal has confirmed it is exploring a stablecoin. Here's how experts see the potential impact of a PayPal Coin. 16441 Total views 64 Total shares Laten to article Response Sea Company Re



Blockchain has only been around since 2008-2009, but has already experienced several dramatic changes

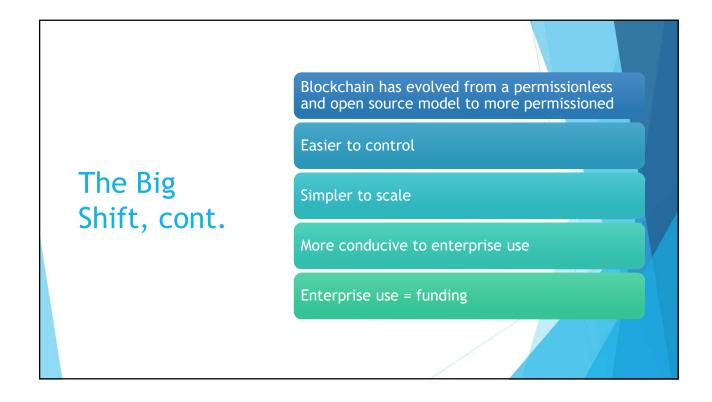
Bitcoin

Price bubbles

Regulatory enforcement and updates

Global interest and investment in the space

So what is next?



So what is the big shift? • Permissionless > Permissioned > Stablecoins > Centralized Cryptoassets > Central Bank Digital Currencies

Central Bank Digital Currency?

- So what exactly is a CBDC?
- What does it mean for the crypto and blockchain marketplace?
- How will these cryptoassets change the blockchain/crypt accounting marketplace?



Pros - Central Bank Digital Currencies

- Price stability
- Implicit/explicit government backstop
- Governed by a central entity
- Issued by a central entity
- More able to be used as a legitimate fiat alternative

Cons - CBDC

- Issued by a centralized entity
- ▶ Too much transparency and traceability
- Potential control and monitoring by a governmental entity
- Privacy?
- ▶ Who is in charge of how this CBDC will work?

Making it different from crypto

- ▶ A CBDC is very different from a decentralized cryptocurrency
- ▶ 1) Issued by a government
- 2) Stabilized by a fiat currency
- > 3) Able to be redeemed?
- 4) How is it going to be issued?
- 5) Will it be interoperable?

Are these types of cryptoassets the future of cryptocurrency?

The future of cryptoasset solution or technology is going to have benefits and challenges that accompany this implementation

Every nation is different, so it is reasonable to expect every CBDC to be different as well

Breaking down CBDCs

- ➤ A CBDC is, as its name described, issued or governed by a central government or some sort of quasi governmental entity like a central bank
- Completely different from other cryptocurrencies such as bitcoin, ether, or even other types of stablecoins
- ► Has some potential positives and negatives
 - Deeper dive

CBDC, positives

- Government backstop will encourage use as a legitimate fiat alternative
- Backstop will also help reduce price volatility
- Support from leadership might also help the accounting and reporting conversation mature
- Basically a CBDC can help make cryptocurrency actually be used as currency

CBDC, negatives

- Political interference
- Possible bifurcation of crypto market into a two-tiered setup
 - Valuation and implementation
- ▶ How will this actually get rolled out into the marketplace
- ► Timeline?
- Expansion of central banks balance sheet/possible inflation?

CBDC, implementation

- ▶ So how exactly would this be implemented and rolled out into the economy?
- Two primary options and possibilities
- ▶ 1) Mirror the current model and system
- > 2) More closely connect individual accounts with the Federal Reserve itself

- ▶ The U.S. dollar is already a digital in nature
- Only 31% of total dollar transactions are actually physical cash in nature
- https://www.cnbc.com/2018/08/06/spike-the-dollars-obit-cash-is-still-a-growth-business.html
- So what would the actual benefit be of implementing a crypto dollar that is the same thing as the current system

Option #1mirrors current system

- If the government can watch and monitor every transaction using a CBDC what does that mean for privacy and consumer protections?
- Would it be used to directly encourage and direct consumer behavior?
- What about social scoring and other governmental led initiatives and ideas?
- Let's think about the following

Option #2 -Direct to the Fed

Surveillance currency

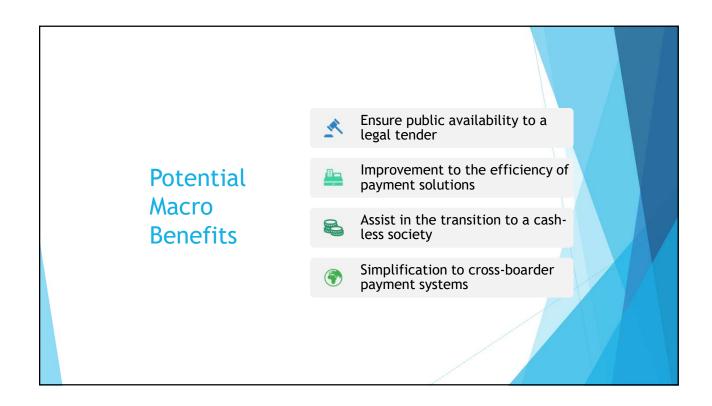
- If the Federal Reserve, or other central bank, has the ability to monitor and review individual transactions that could create a turn-key policy state
- What if political leadership changes and becomes hostile to certain type of transactions, opinions, and purchases
- Could this risk the validity of the CBDC project?
- ▶ Keep in mind the first nation that will come to market will be China

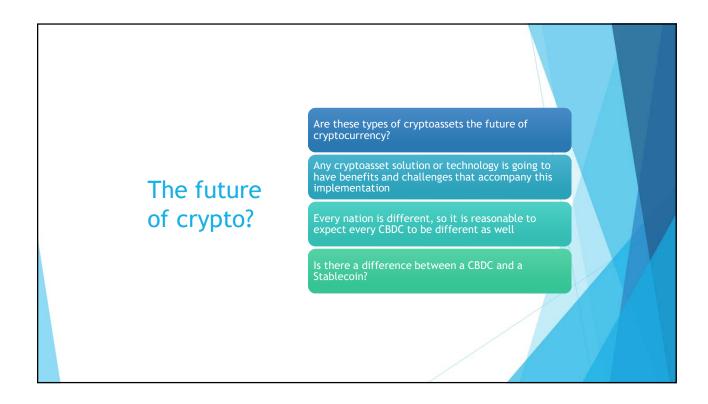
CBDC, different types

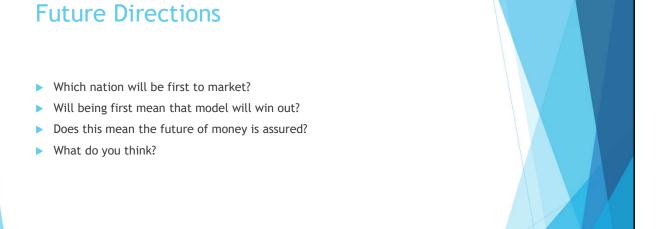
- Another option is to have different types of CBDC that enter the marketplace, dependent on the use case in question
- ▶ Think about it for a second
- Does your banking relationship with your bank operate the exact same way as commercial banks with the Federal Reserve?
- Might lead to the creation of hundreds of different kinds of cryptocurrencies
- Now... let's take a look

Hundreds of cryptocurrencies?

- Wouldn't the creation of hundreds of types of cryptocurrencies simply lead to chaos and anarchy in the marketplace?
- No, and let's think about it for a second how different are CBDCs from other financial instruments of other cryptoassets
- Not really!
- ► There are hundreds of actively traded ETFs so why should this market evolve differently







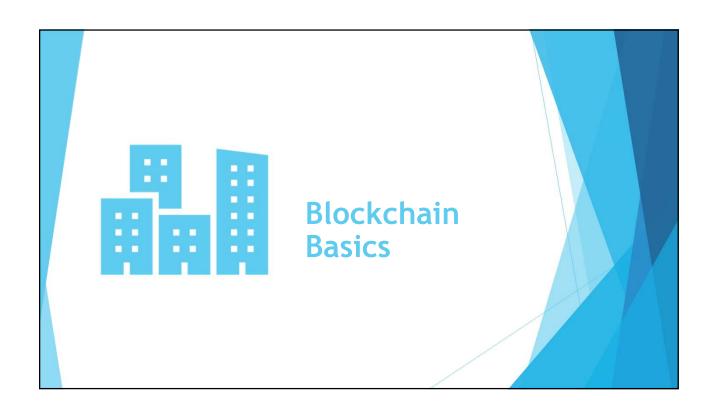
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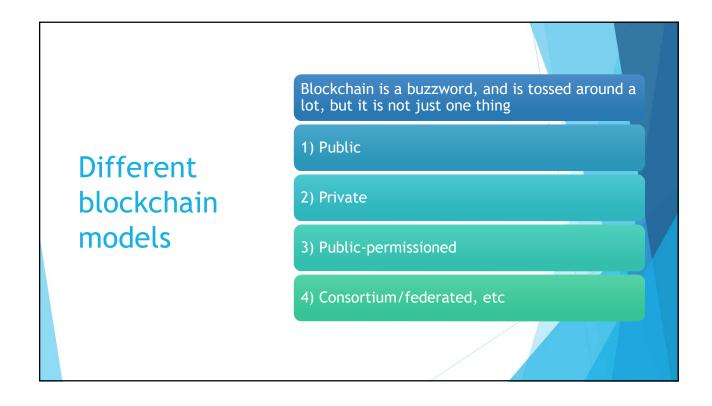
- Questions?
- Comments?
- Jokes?
- ► Email <u>drseansteinsmith@gmail.com</u>
- ► Twitter @seansteinsmith
- ▶ LinkedIn Sean Stein Smith

10:05 - 10:55 a.m.

Blockchain Basics

Dr. Sean Stein Smith, CPA, CMA, CFE, CGMA, *Professor University of New York City*





Why the need for different blockchains

- Blockchain is not a mystical or magical technology
- Not always a good fit for every project or task at hand
- ▶ Three primary issues that have arisen with blockchain technology are
- ▶ 1) Scalability
- 2) Technical complexity
- > 3) The permissionless nature of blockchain

Blockchain vs Distributed Ledger Technologies (DLT)

- ▶ Blockchain is simply one version of distributed ledger technologies
- Every blockchain is a distributed ledger tool
- Not every distributed ledger is a blockchain

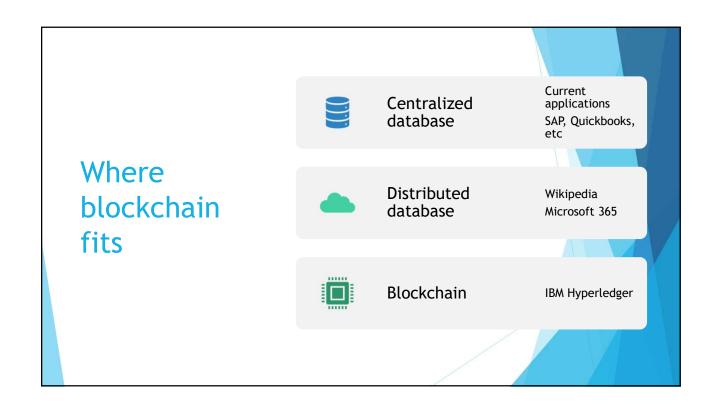
Blockchain

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Bitcoin: A Peer-to-Peer Electronic Cash System

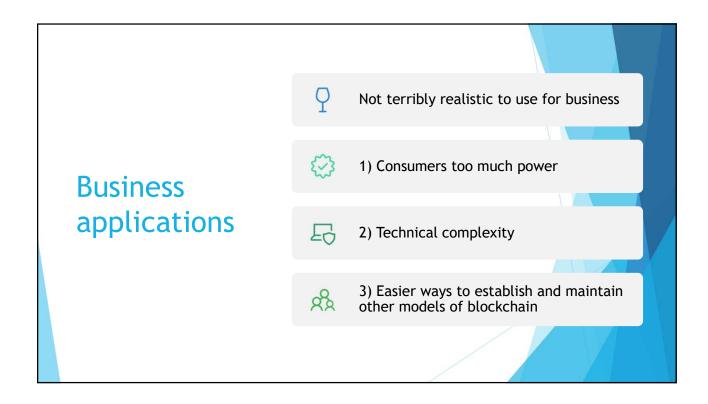
Satoshi Nakamoto satoshin@gmx.com www.bitcoin.org

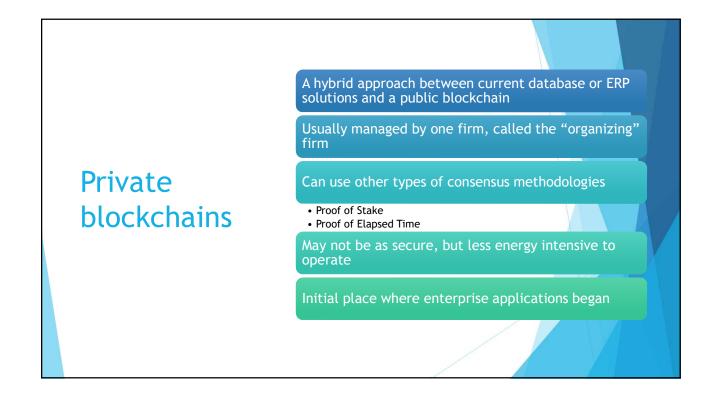
Abstract. A purely peer-to-peer version of electronic cash would allow online payments to be sent directly from one party to another without going through a financial institution. Digital signatures provide part of the solution, but the main benefits are lost if a trusted third party is still required to prevent double-spending. We propose a solution to the double-spending problem using a peer-to-peer network. The network timestamps transactions by hashing them into an ongoing chain of hash-based prob-6-6-work, forming a record that cannot be changed without redoing the proof-of-work. The longest chain not only serves as proof of the sequence of events witnessed, but proof that it came from the largest pool of CPU power. As long as a majority of CPU power is controlled by nodes that are not cooperating to attack the network, they'll generate the longest chain and outpace attackers. The network itself requires minimal structure. Messages are broadcast on a best effort basis, and nodes can leave and rejoin the network at will, accepting the longest proof-of-work chain as proof of what happened while they were gone.

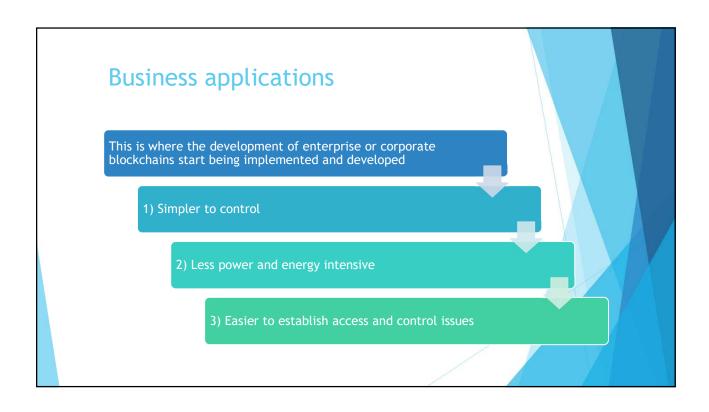


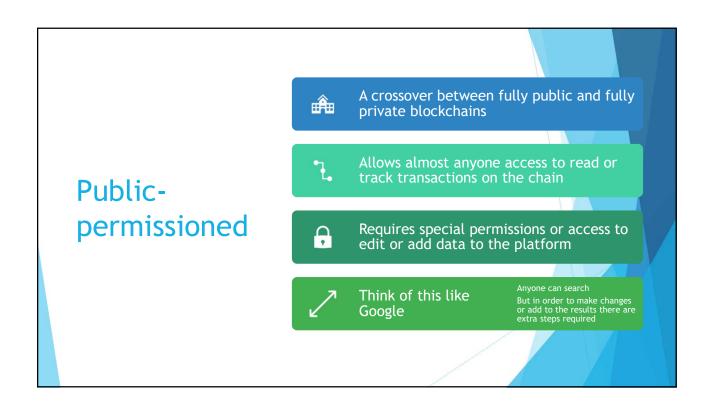
The blockchain problem Thousands of developers How many of us feel confident describing or recommending what type of blockchain to implement?

A decentralized and distributed ledger of encrypted information Comprised of nodes (network members) • Not every node is a full node • Think of it like "read" or "read/edit" ability Usually uses the Proof of Work consensus methodology • A race to complete a puzzle • To earn coins or other rewards Most secure but also most complex

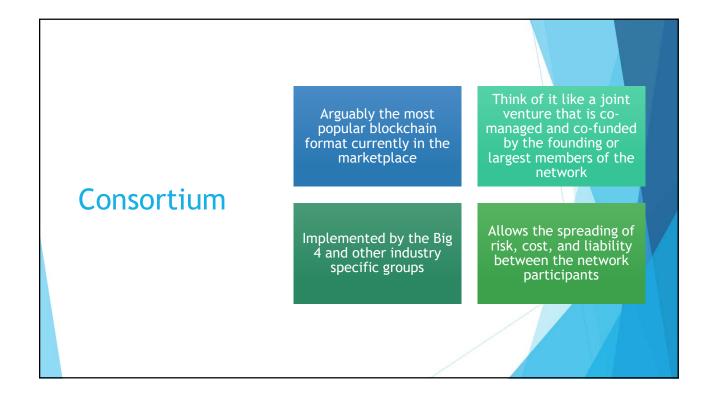




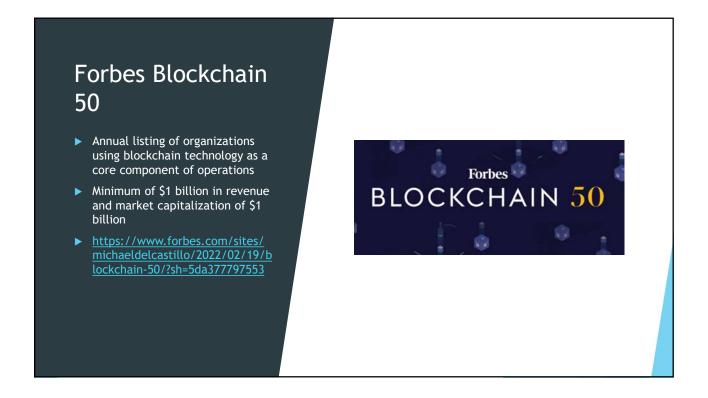


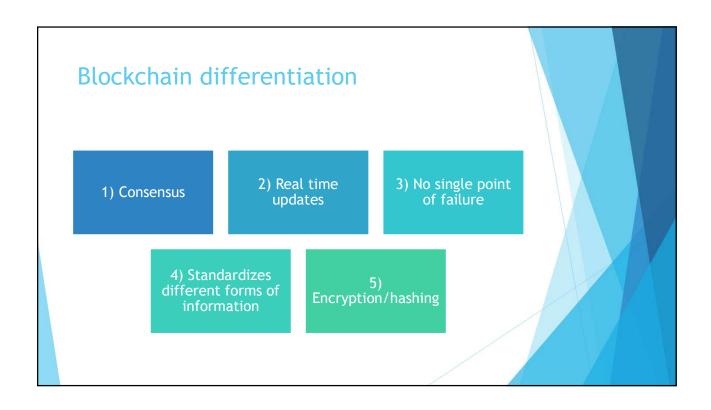


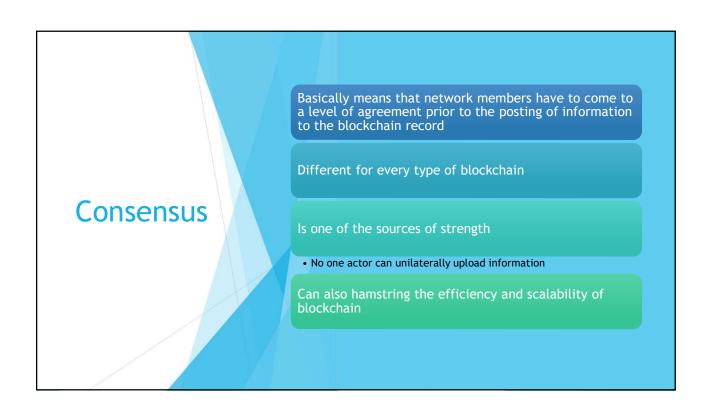
This might ultimately be the ultimate end result for governmental blockchains 1) Freedom of information act and other disclosure legislation 2) Need for transparency 3) Connects back to the benefits of blockchain • Efficiency • Transparency • Cost savings





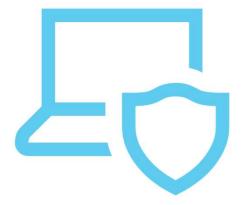






Real time transmission

- Once records have been posted to the shared ledger, network members receive up to date versions of the information as it happens
- Reduces the time lag and delay that can be associated when sharing information
- Makes blockchain platforms especially useful for payment processing and trade settlement



No single point of failure

A key risk for data processing and organizations of any size and in any industry

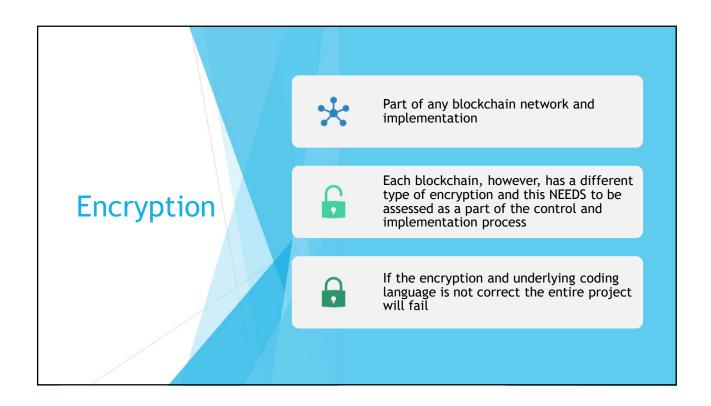
Hacks have occurred at organizations of all sizes and types, exposing the risk of a single centralized processing point

• Facebook, Yahoo, Home Depot, Target, Marriot, etc.

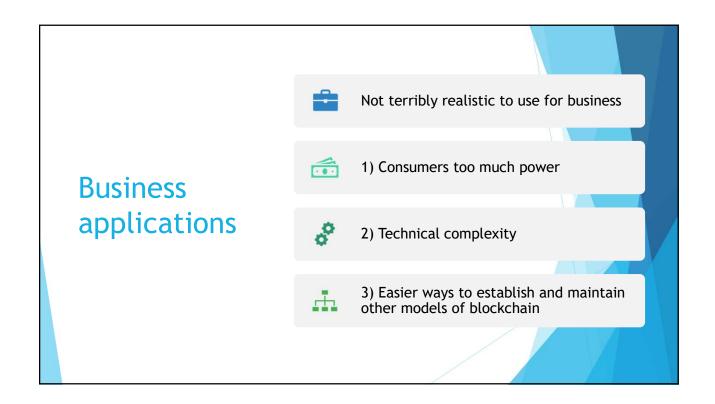
Distributing the processing and storage of information assists with reducing this risk

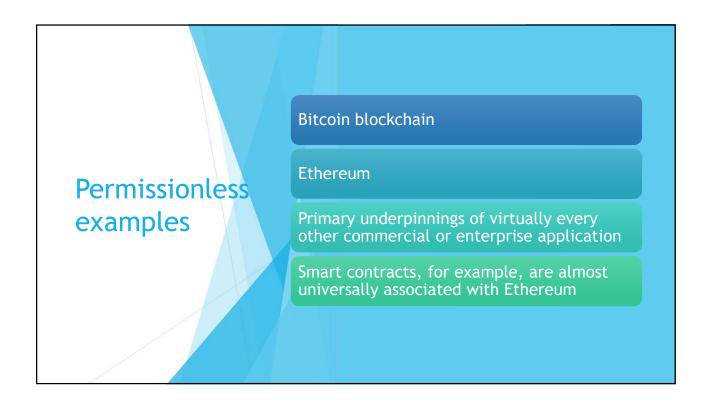
Standardizes Information

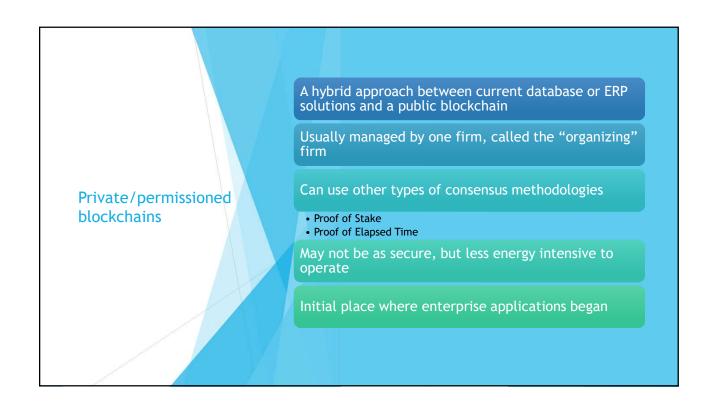
- In order for any blockchain to function as advertised there needs to be agreement as to what information is stored
 - Inventory records
 - Hash numbers
 - Data to reference other blockchains
- This standardization also helps reduce possibility of incompatible data or wrong file types
- CSV vs. Excel vs. PDF



A decentralized and distributed ledger of encrypted information Comprised of nodes (network members) • Not every node is a full node • Think of it like "read" or "read/edit" ability Usually uses the Proof of Work consensus methodology • A race to complete a puzzle • To earn coins or other rewards Most secure but also most complex



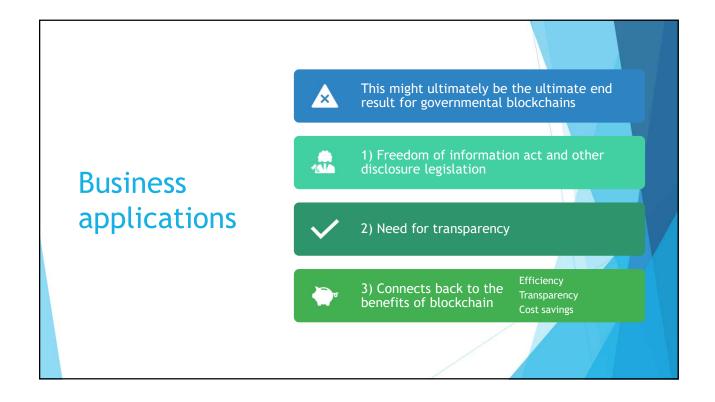


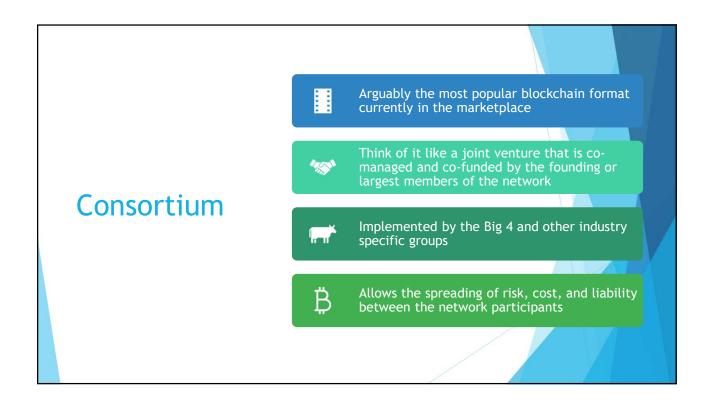


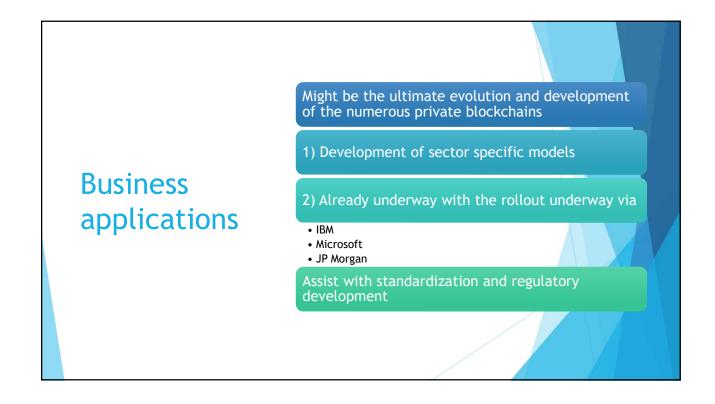
This is where the development of enterprise or corporate blockchains start being implemented and developed 1) Simpler to control 2) Less power and energy intensive 3) Easier to establish access and control issues

Private-permissioned blockchains Majority of enterprise examples are permissioned or private blockchains Walmart - Leafy Green Blockchain JP Morgan - Quorum Depository Trust and Clearing Corporation

A crossover between fully public and fully private blockchains Allows almost anyone access to read or track transactions on the chain Requires special permissions or access to edit or add data to the platform Think of this like Google • Anyone can search • But in order to make changes or add to the results there are extra steps required Potential use cases in governmental or NFP spaces





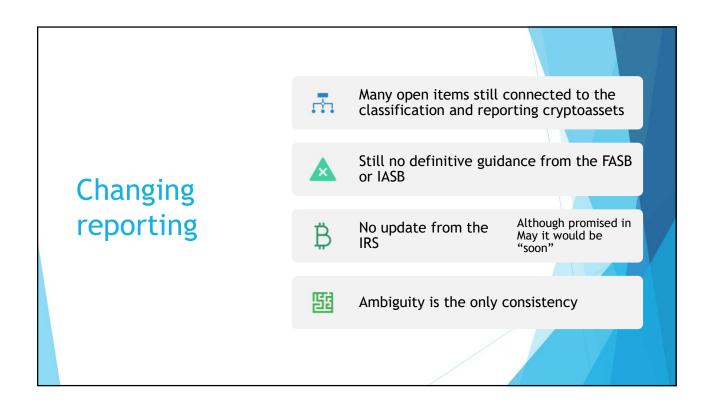


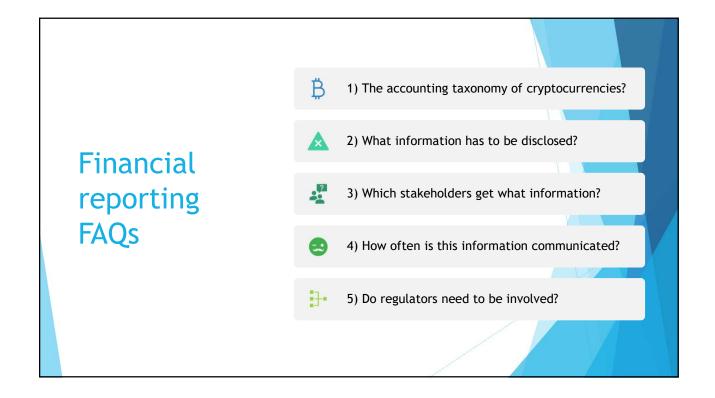
Data integrity with blockchain

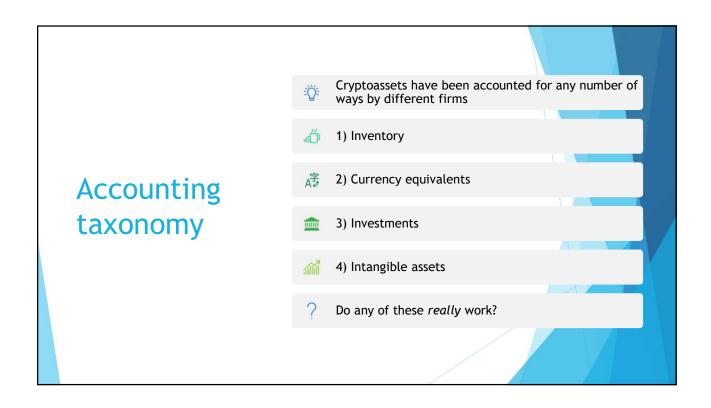
- Blockchain addresses this issue with the technology that lies at the core of platform
- ▶ 1) Encryption
- 2) Public/private key
- > 3) Hash ID's
- ▶ 4) Tamper-resistant
- 5) Consensus based methodology

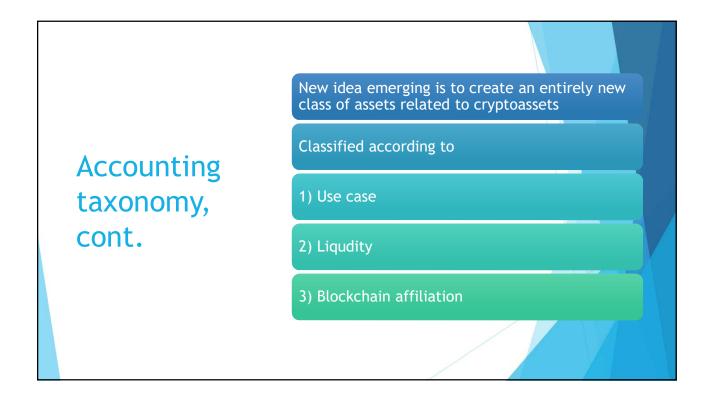


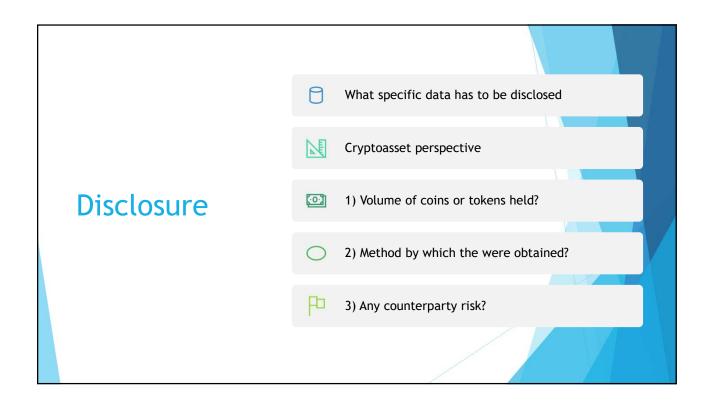


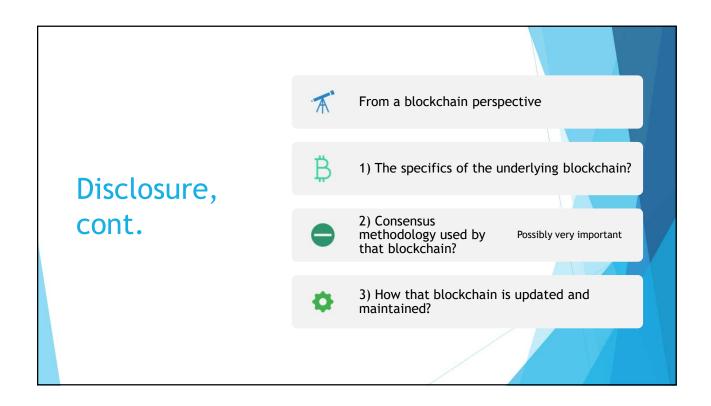


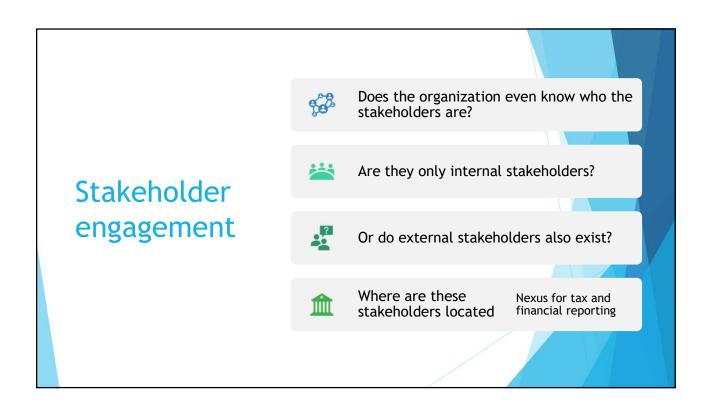


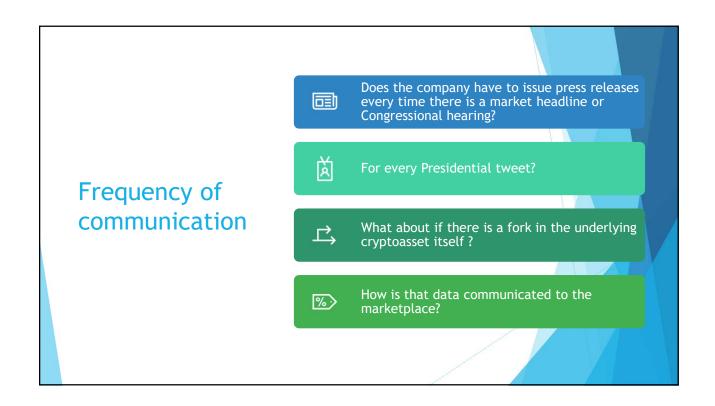


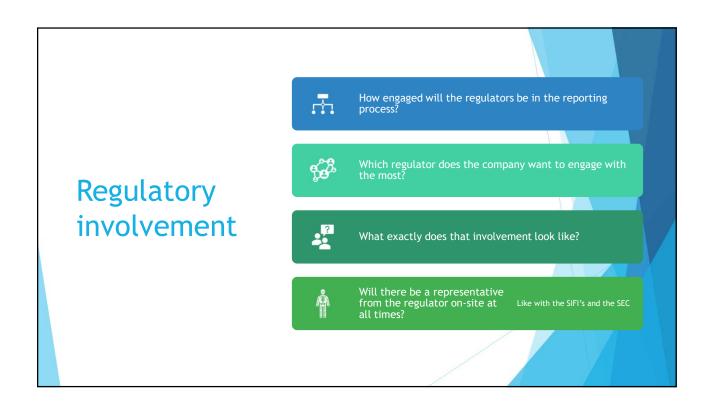


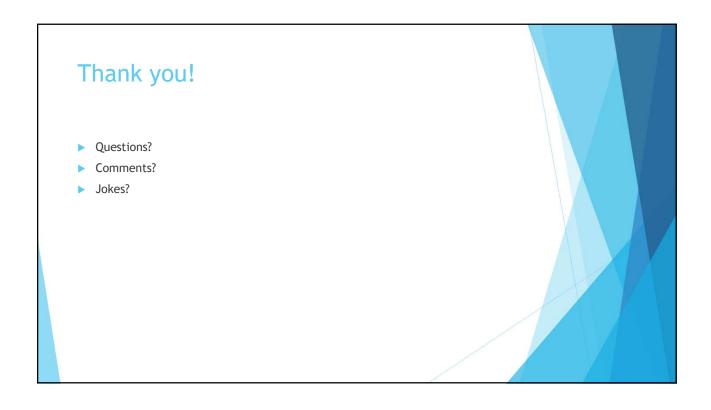












10:05 – 10:55 a.m.

KPI Dashboards

John Higgins, CPA, CITP, *Strategic Technology Advisor CPA Crossings LLC*

KPI Dashboards – The New Financial Reporting Model



Presented By John H. Higgins CPA Crossings, LLC



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Learning Goals



After attending this presentation, you will ...

- Recognize the concepts associated with KPI dashboard development
- Recognize the value proposition for embracing this new financial reporting model
- Identify opportunities to incorporate this skill set into your professional toolbox



John H. Higgins, CPA.CITP Strategic Technology Advisor



jhiggins@cpacrossings.com

Strategic technology advisor to the profession w/ 35+ years of experience

Nationally recognized author and presenter on CPA technology

Former National Mid-market Technology Partner - BDO

Cygnus Media Top 25 Thought Leader for the profession

AICPA Business & Industry Hall of Fame Inductee

MICPA Innovative User of Technology Award

Past Chair of the Michigan Association of CPAs

Passionate advocate for the CPA profession!



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Presentation Outline

- ➤ The Changing World of Information
- Dashboards The New Financial Reporting Model
- Selected Dashboard Solutions
- How to Build a Dashboard
- Establishing a Dashboard Service
- ➤ Wrap-up



THE CHANGING WORLD OF FINANCIAL INFORMATION





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Financial Reporting - "The Good Old Days"

- > Pencil
- > Columnar paper
- > Eraser
- > Typewriter
- Extremely labor intensive
- Calculating percentages was a big deal!





Financial Reporting - Current Model

- Accounting / financial software
- Excel / Word
- > Semi-automatic
- Focus on historical reporting
- Emphasis on compliance
- Columns & rows of data





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Financial Reporting - Emerging Model

- ➤ "Big data"
- Data analytics
- Real time reporting
- Visual / graphical presentation
- Interactive reports





FYI

The value of dashboards extends far beyond the financial function to areas such as operations, HR, sales and more.

The opportunity for CPAs and financial professionals to enhance their value to their organizations and clients through the development of data analytics expertise is substantial!



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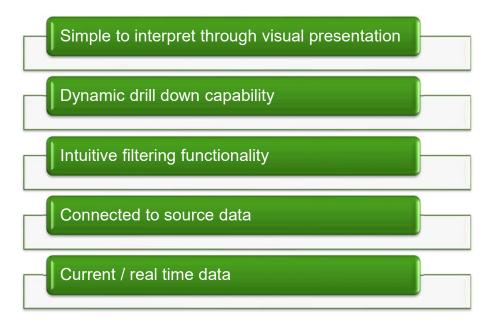
DASHBOARDS – THE NEW FINANCIAL REPORTING MODEL



Source: www.idashboards.com



Qualities of a Good Dashboard

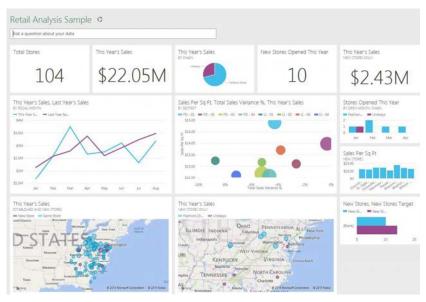


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Dashboard Example – Microsoft Power BI



Source: www.microsoft.com



Dashboard Example - iDashboards



Source: www.idashboards.com

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Dashboard Example - Sage Intacct

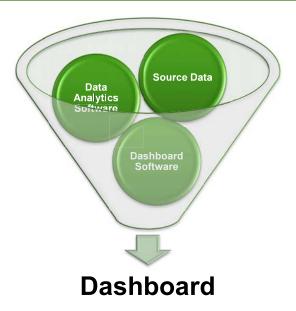


Source: www.intacct.com



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Elements of a Dashboard





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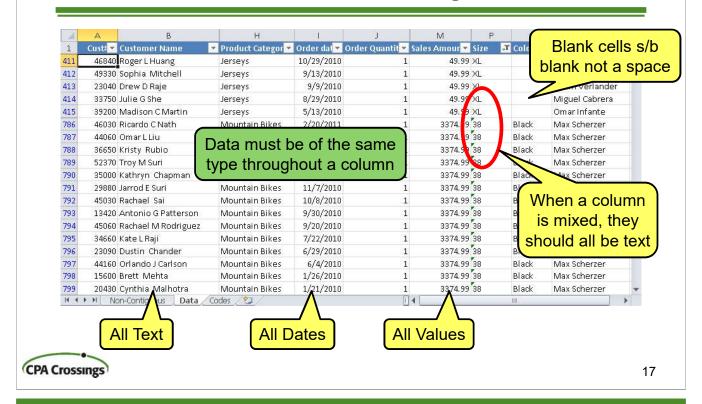
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Source Data

- > Need to identify the source(s) of the data
- Challenge of bringing in data from different sources
- Create data relationships as necessary
- > Cleanse the data

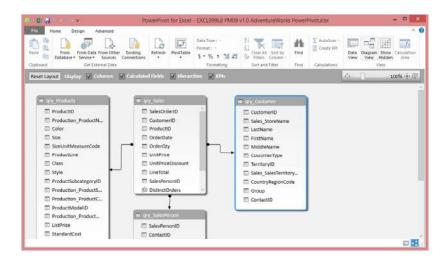


Data Cleansing



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Establishing Your Data Model



This is where you get data & create relationships between tables



Data Analytics Software

- Process raw data into meaningful information
- Excel pivot tables is a basic example
- Designed to process / analyze "big data"
- Built-in to some financial applications
- Sophistication relative to information desired



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Alternative Dashboarding Approaches

Excel / Power Bl

- Excel w/ PowerPivot
- Power BI Desktop
- Power Bl.com

Packaged dashboard solution

- Horizontal (cuts across industries / functions)
- Vertical (industry / function specific)

Application integrated

- · Accounting / financial systems
- HR system
- ERP system



SELECT DASHBOARD SOLUTIONS













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Alternative Excel Dashboard Methods

- Standard Excel charting features
- > Pivot Tables and Pivot Charts
- > Power Pivot Add-in
- Power Bl.com



Excel Dashboards Using Charting

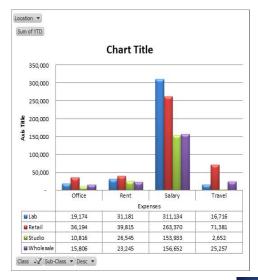
- Most basic dashboard tool
- Use charting functionality
- Suited for static dashboards updated periodically
- Use pivot tables and pivot charts for more dynamic dashboards

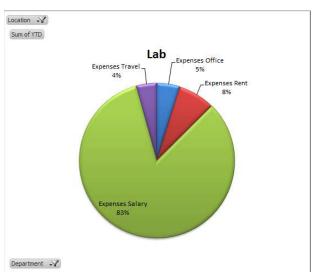


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Excel Dashboards Using Pivot Tables & Pivot Charts









Power Pivot





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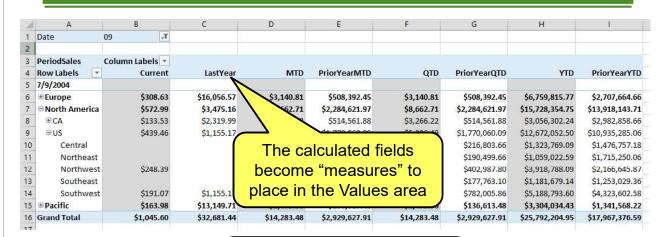
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Power Pivot Features

- Has NO data size limit
- Handles 2 million, 20 million, or even 200 million records
- Allows access to multiple data sets
- Uses relationships to join tables
- Has a new extensive Data Analysis Expression (DAX) formula language including Time-Intelligent Functions



PowerPivot Example



Note: In a test on a PowerPivot with 3.4 million records, changing the date took less than a second to recalculate



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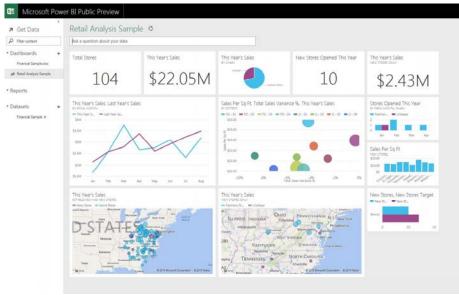
Microsoft Power BI



- Cloud based business analytics service
- Create interactive dashboards hosted in the cloud
- API (application program interface) to create live connections to your data
- Power BI Desktop is the report / dashboard authoring tool (Excel alternative)
- Power Bl.com is the dashboard hosting service



Microsoft Power BI



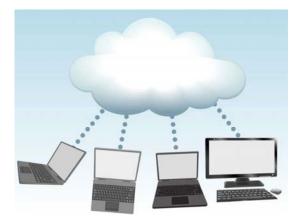


Source: www.microsoft.com



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Cloud Financial Systems





Cloud Accounting Systems

- > Anytime, anywhere, any device access
- Embrace new software technology
- No need to create data connections
- Dashboards updated in real-time



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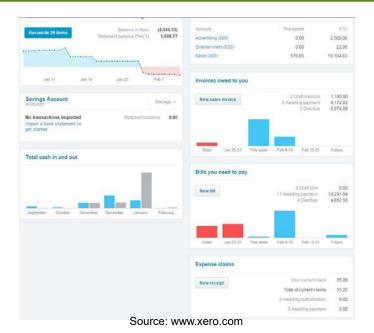
QuickBooks Online Dashboard Example



Source: www.quickbooks.com



Xero Dashboard Example



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Sage Intacct Dashboard Example



Source: www.intacct.com



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NetSuite Dashboard Example



Source: www.netsuite.com



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Tableau





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HOW TO BUILD A DASHBOARD





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Building a Dashboard

Analyze current report usage

Facilitate creative storyboard session

Develop prototype dashboards

Refine and review

Publish for web / mobile access



Establishing a Dashboard Service

- Internal or External
- Define scope of service
 - Data / report analysis
 - Data connectivity
 - Dashboard design
 - Dashboard review sessions
- Establish value priced annuity fee (external)



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WRAP-UP





In Summary

- KPI Dashboards are the new reporting model of choice
- > A picture is worth a 1,000 numbers
- > This skill set is in high demand
- Opens up many professional opportunities for CPAs



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Questions?





THANK YOU







11:10 a.m. - 12 p.m.

Key Considerations for Setting Up a Crypto Payments System

Dr. Sean Stein Smith, CPA, CMA, CFE, CGMA, Professor University of New York City

Key Considerations For Setting Up a Crypto Payment System

Yes, but not with bitcoin

Agenda

- Stablecoin FAQs
- Considerations for setting up a stablecoin payment system

So, what are stablecoins Really?

What is a stablecoin?

- Cryptocurrency that is backed, pegged, or otherwise supported by some other underlying asset
- ▶ 1) Fiat
- 2) Commodity (gold or oil)
- > 3) Additional cryptocurrency playing the role of reserve currency
 - MakerDAO
- 4) Or a basket of reserve assets (Libra 1.0)
- 5) Of a 1-1 crypto to asset relationship (Libra 2.0)

What are the benefits of stablecoins

- To solve the volatility and perceived lack of stability associated with traditional decentralized and distributed cryptocurrencies
- 2) Goal: Encourage broader adoption and utilization of stablecoins as viable alternatives to fiat currencies
- 3) Criticisms: not "true" crypto, are they better?

Types of stablecoins

- -Fiat stablecoin
- Crypto stablecoin
- -Commodity stablecoin
- -Algorithmic stablecoin
- -Hybrid stablecoin
- Derivative backed
- -Sovereign stablecoin



President's Working Group Report on Stablecoins

- https://home.treasury.g ov/news/pressreleases/jy0454
- First comprehensive report on stablecoins issued by the Federal Government, with major private sector partners

U.S. DEPARTMENT OF THE TREASURY

ABOUT TREASURY

POLICY ISSUES

DATA

SERVICES

NEWS

We can do 10 lb. Find COVID-33 vaccines near you. Voil Vaccines. gov.

NOME: NEWS: PRESS RELEASES

Press Releases

Press Releases

President's Working Group on Financial Markets Releases Report and Recommendations on Stablecoins

Terra Meltdown - May 2022

- ▶ What exactly happened here?
- Let's take a step back and break down some of the key components
- Stablecoins
 - Algorithmic stablecoin
- Multi-coin system
 - ▶ Terra stablecoin and Luna governance token
- Decentralized finance (DeFi)
 - Protocol to help encourage utilization
 - ▶ Returns of 20% have been promised

Terra Mechanics

- ▶ The Terra stablecoin is designed to be the equivalent to \$1 USD
 - ▶ Able to be redeemed as used on a 1:1 basis with the USD
- If the price went above or below \$1, investors and holders have an opportunity to trade Terra for Luna
 - ▶ Luna is the governance token connected to TerraLabs
 - ▶ Allow investors to take advantage of price differences (arbitrage)
 - ▶ Can generate profits and/or maintain the Terra peg as 1:1 with USD
- Also included the Anchor Protocol (DeFi) network that creates opportunities and demand for lending
- Luna Guard Foundation (LGF) tasked with maintaining the integrity of this system

Terra Meltdown, cont.

- May 2022 the value of Terra stablecoin (designed to be tradeable and exchangeable for \$1 USD) collapsed
 - Dropped over 70% in value
- Luna governance token rendered worthless
 - ▶ Dropped from value of over \$100 per token to under \$0.10
- May 2022 the LGF had to deploy (sell, lend, etc.) the over \$5 billion in bitcoin that had been purchased for the purpose of supporting Terra and Luna
- Caused a widespread meltdown in the wider cryptoasset sector

Implications

Increased scrutiny over cryptoassets and stablecoins specifically

Widespread sell-off and decline in cryptoassets

Doubts and questions raised around the decentralized finance (DeFi) sector

Forecasts of the permanent decline of blockchain & cryptoassets

U.S. Executive Order - Crypto

- Long-awaited executive order signed into law in March 2022
- No specific actions steps or policies
- ► Three (3) main takeaways
 - No crypto ban or shadow-ban
 - Mandates coordination among policymakers
 - Definitive shift toward integration
- Brookings Institute article that breaks down the implications of this E.O.



SEC - Staff Accounting Bulletin

- ▶ Published March 31, 2022, with effective date April 11, 2022
- Proposes several accounting specific changes for publicly traded organizations offering crypto custodial services
 - Reporting of cryptoassets held for customers as liabilities, offset by an asset
 - ▶ Disclose risks associated with cryptoassets
 - Guidance to be applied by June 15, 2022
- Is not official guidance nor enforceable law
- https://www.sec.gov/oca/staff-accounting-bulletin-121
- Commissioner Peirce issued response
- https://www.sec.gov/news/statement/peirce-response-sab-121-033122

TRUST Act

- ▶ Draft legislation issued by Senator Toomey's office on April 6, 2022
- Centers around the issue of stablecoin issuance and crypto banking
- Three (3) primary issues
 - Establishes a new federal license designed specifically for stablecoin issuers;
 - Preserves the state-registered money transmitter status for most existing stablecoin issuers; and
 - ▶ Clarifies that insured depository institutions are permitted to issue stablecoins
- States that stablecoins are not securities and stablecoin issuers need to have annual attestations
- https://www.banking.senate.gov/newsroom/minority/toomey-announces-legislation-to-create-responsible-regulatory-framework-for-stablecoins

How are decentralized crypto different from fiat?

Bitcoin

- Fixed supply (21 million)
- Requires investment to create new
- Not issued by a government or central oversight authority
- Borderless
- Cryptographically secured

USD

- Unlimited supply (printer go brrr) with no limit on supply
- No investment required to increase supply
- Controlled entirely by central government or central bank
- ▶ Linked to specific nation-state
- ▶ No inherent security

PayPal Stablecoin

- PayPal is actively working on developing a native stablecoin
- https://cointelegraph.com/n ews/paypal-stablecoin-whatit-could-mean-for-payments
- ▶ Has over 350 million users
- Already allows users to transact in Bitcoin, Litecoin, Ether, and Bitcoin Cash

PayPal stablecoin: What it could mean for payments



Visa

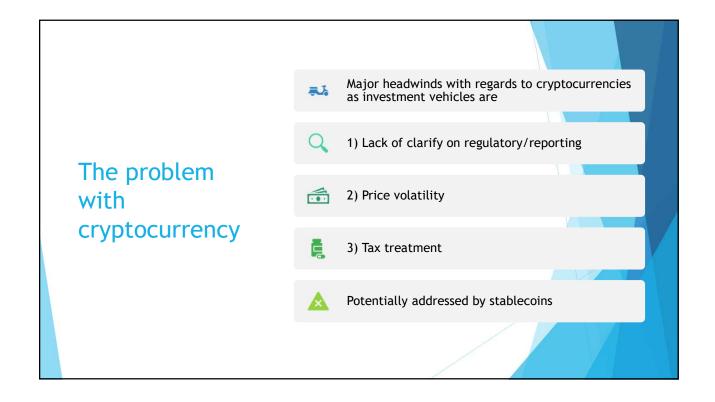
- In Q4 2021 Visa settled \$2.5 billion in crypto transactions
- Building out own internal tools and platform for additional crypto functionality
- https://www.coindesk.com/business/2022/03/08/visa-ceo-still-uncertain-on-cryptos-role-in-the-west/



Circle / USD Coin vs Tether / USDT

- ▶ USDC is created by Circle, backed by Goldman Sachs
 - ▶ Fully audited by GrantThornton
- ▶ Tether largest stablecoin in the marketplace
 - ▶ Still questions around the recent 3/31 attestation report
 - Not audited and continuously under scrutiny
 - ▶ Paid a \$41 million fine regarding lack of audited reserves
 - https://fortune.com/2021/10/15/tether-crypto-stablecoin-fined-reserves/





What problems are solved

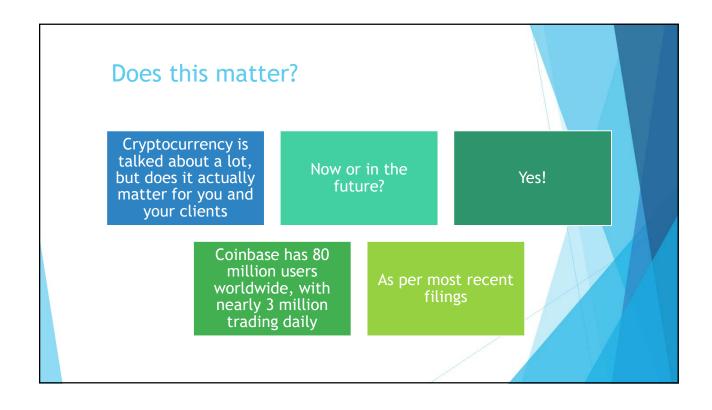
- Still early in the development of this asset class
- Several items that could be addressed include
- ▶ 1) Reducing price volatility
- ▶ 2) Facilitating use of crypto for payment for goods/services
- > 3) Increased clarity from financial reporting side
- 4) Lower tax uncertainty
- ▶ 5) Development of decentralized finance options

Stablecoin breakdown

- ▶ Have a market capitalization well in excess of \$150 billion USD
- Used for transactional purposes, and play an integral role in the DeFi economic landscape
- Issued by private organizations and are pegged to external assets
 - ▶ Fiat currencies
 - External assets (gold/oil)
 - Other cryptocurrencies
- But, are they taxable?

Stablecoin taxes?

- > Stablecoins are treated the exact same way as other cryptoassets
- When used for purchases or paying for goods and services these cryptoassets must be disclosed, reported, and have any applicable taxes paid based on these transactions
- Only primary upside is
 - Lack of volatility means the tax obligations will be limited
 - Authorization by major players means that reporting/disclosure is more consistent and understandable
- Who is involved?



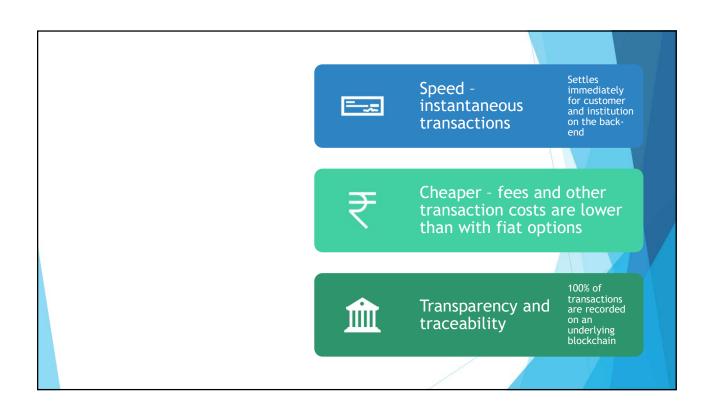
Do these sound familiar?

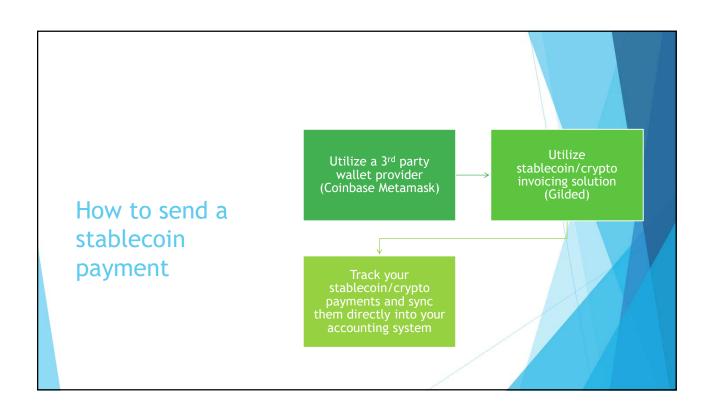
- PayPal 361 million users
- Visa over 1 billion accounts worldwide
- Mastercard over 700 million accounts worldwide
- Venmo over 50 million monthly users
- CashApp over 30 million monthly users
- They all allow crypto transactions
- Does it matter now?

Additional stabilization questions

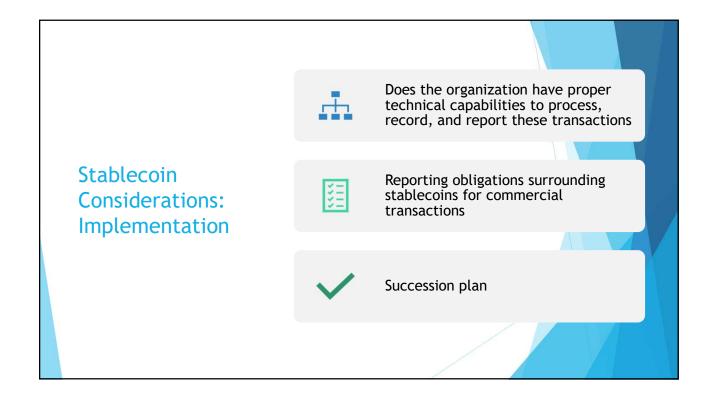
- Points to consider and research prior to recommending a specific coin include
- 1) Are coins redeemable for this external asset?
- 2) What are the rights of coin holders?
- 3) Does the stabilization actually work?
- 4) How is the stabilization reported?
- 5) What pieces of information are disclosed?











Approvals needed for implementing stablecoins as part of the payment process?

How do you implement stablecoins into existing AR and AP processes?

Internal control processes in place

Organizational Considerations

Proper tracking of payments and receipts

Choosing proper liquidity/exchange provider

Setting up a crypto payment system

Items to consider

Crypto payment providers

- Coinbase
- Coingate
- CoinBank
- AlfaCoins
- Shopify
- BitPay
- BitcoinPay
- GoCoin

- Just a few of the many providers that exist in the marketplace
- Important to conduct due diligence on the provider and specific services offered
- https://www.devteam.space/blog/ 10-best-bitcoin-paymentgateways/

Step 1 - Which Crypto

Decide which crypto to accept. Before doing anything else, an organization that is planning on beginning to accept cryptocurrencies as a form of payment needs to decide which crypto it will accept. Similarly, it must decide how it will store the crypto and what service it will use to facilitate the payment. This requires extensive due diligence in the vendor selection process as well as the underlying technology relied on by this vendor. It is important that competent professionals who understand the technology are involved in this process.

Step 2 - Develop a Strategy

Develop a crypto strategy. Like every major implementation, remember the six Ps of planning: prior proper planning prevents poor performance. A company must determine how and where to store their currency just as they would with fiat currency. They may run into issues opening accounts with major exchanges due to mirrored federal banking concerns and limitations. They must develop standard operating procedures which dictate whether these cryptodenominated payments are going to be held by the organization (and if yes, how) or if they will immediately be converted back into fiat currency. Any conversion process requires clearing the traditional banking hurdle.

Step 3 - Don't Reinvent the Wheel

• Don't reinvent the wheel. Blockchain and crypto might still seem like an amorphous topic that can be confusing, but no organization interested in implementation of a crypto-based solution needs to begin from scratch. Accepting crypto as a payment option is not an impossible idea; multiple vendors have been offering these exact services for years at this point. Again, proper due diligence is key to understand and mitigate third-party risk.

Other considerations

Firm considerations

- Cybersecurity and interoperability. Going cashless and being able to access the banking system through stablecoins and other crypto payments might be a solution for certain firms, but that does not reduce the importance of cybersecurity.
- As prices and interest in crypto continue to increase, practitioners need ensure that the controls in place are up to the task. It is also important to understand how the technology you onboard will cooperate with other parts of your business and with those who you wish to do business.
- Reduction in cash dependence. Cryptocurrencies, specifically stable coins that maintain value against a certain benchmark such as the U.S. dollar, can act as an alternative to dealing in fiat currency for these organizations.
- Less cash dependence means lower risk of theft, embezzlement and security around organizational finances.

Firm considerations, cont.

- **Lower fees.** Credit cards come with a "baked-in" fee of approximately 3 percent per transaction. Similar fees will be incurred to make use of third-party ACH services or cashless ATMs.
- Service providers generally understand the limitations imposed on the industry and are taking advantage to meet the demand at high costs
- A crypto-based payment system could reduce these fees and add back some of these amounts to the bottom-line.

Talking to customers/colleagues about crypto

FAQ #1 - How to start

- > Starting with crypto investing is very easy and straight-forward
- ▶ Can be done on a computer/tablet or phone
- Coinbase is the only publicly traded U.S. cryptoasset exchange in the U.S.
 - ▶ Where I invest
 - ▶ Nearly 100 million customers worldwide
- Ability to link banking and/or credit card information to allow crypto purchases using fiat currencies
 - USD to crypto purchases

FAQ #1, cont.

- What to look for when researching a crypto exchange
- ▶ 1) What is the history of the management team in change of the exchange
 - ▶ Look no further than QuadrigaCX
 - https://www.coindesk.com/learn/the-story-behind-quadrigacx-and-gerald-cottennetflixs-crypto-king/
 - Netflix documentary
- > 2) Is the exchange registered/insured/regulated by a regulator?
- > 3) What are the policies for redeeming crypto back into fiat?
- 4) What is the history of hacks/breaches, etc.
- > 5) Does this organization have relationships with other exchanges?

FAQ #2 - Is crypto safe?

- Blockchain and cryptoassets represent a fast moving and rapidly evolving asset class so there is a higher level of risk when compared to other financial instruments
- Regulatory uncertainty and confusion
 - SEC lawsuits
 - State-by-state settlements and fines
 - Federal ambiguity on regulation
- Technical complexity can lead to user errors/hacks
- Also, most crypto investments are not covered by any investor insurance tools as of yet

FAQ #2, cont.

- ▶ Recent crypto hacks include, but are not limited to:
- Scammers stole \$14 billion in 2021, a 79% increase from 2020
- https://www.nbcnews.com/tech/security/crypto-scammers-took-record-14-billion-2021-rcna11192
- Criminals have already stolen \$1.2 billion in 2022 alone
- https://finance.yahoo.com/news/crypto-hackers-stolen-173940395.html
- On April 17th, \$180 million was stolen from the BeanSprout protocol
- https://www.coindesk.com/tech/2022/04/17/attacker-drains-182m-from-beanstalk-stablecoin-protocol/

FAQ #3 - Red flags

- ▶ Red flags to look out for individual cryptoassets or organizations include
 - Sudden increases in price
 - Unrealistic returns promised
 - Social media influences posing as investment advisors
 - https://www.outlookindia.com/website/story/business-news-cryptocurrency-frauds-5-red-flags-to-watch-out-for/401375
 - Anonymous team or team with no track record
 - ▶ Incomplete or poorly written whitepaper/documentation
 - Questionable trading exchanges
 - https://www.coinspeaker.com/5-red-flags-crypto-investing/

FAQ #3, cont.

- 2022 notable hacks include
- Over \$600 million from Axie Infinity
- https://www.cnbc.com/2022/04/15/ronin-hack-north-korea-linked-to-615-million-crypto-heist-us-says.html
- ▶ Solana has lost over \$300 million
- ▶ Binance smart chain lost \$100 million
- ▶ NFTs have suffered nearly \$50 million in hacks
- https://www.itbusinessedge.com/security/blockchain-hackers/

FAQ #4 - Hot or cold?

- Big decision around crypto investing is whether to hold crypto information in a hot wallet or cold wallet
- Hot wallets are online portals that allow real time access and trading of cryptoassets
 - Convenient
 - App based
 - ▶ Much easier to hack
- Cold wallets are specialized hardware devices that are used for longer term storage
 - Not connected to the internet
 - More difficult to hack

FAQ #4, cont.

- ▶ Which type of wallet is best?
- Depends on the goals of the investor in question
- ▶ Trading?
- ▶ Buy and hold?
- ▶ General rule is to keep 10% in a hot wallet and 90% in a cold wallet
- Allows flexibility for daily activities while keeping bulk of assets off-line and safer from hacks

FAQ #5 - How to plan & protect

- Generally speaking there are several pieces of advice every potential crypto investor should consider
- ▶ Tax implications
- Cyber implications
- What the goal of this investing is?
- What type of crypto to invest in?
- ▶ How to integrate this into your other investing/business activities?

Thank you!

- Questions?
- Comments?
- Jokes?
- ► Email <u>drseansteinsmith@gmail.com</u>
- ► Twitter @seansteinsmith
- LinkedIn Sean Stein Smith

11:10 a.m. – 12 p.m.

Cloud Accounting Software Update

John Higgins, CPA, CITP, Strategic Technology Advisor CPA Crossings LLC

Cloud Accounting Software Update



Presented By John Higgins, CPA.CITP CPA Crossings, LLC



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Learning Goals



- > Review alternative cloud accounting models
- Learn about the new CAS & CAAS service delivery models
- Develop an understanding of the current market for financial, ERP and workflow software



John H. Higgins, CPA.CITP Strategic Technology Advisor



jhiggins@cpacrossings.com

Co-founder of CPA Crossings, LLC

Strategic technology advisor to CPAs w/ 30+ years of experience

Nationally recognized author and presenter on CPA technology

Former Top 10 National Technology Partner - BDO

Recognized by Cygnus Media as a Top 25 Thought Leader for the accounting profession (2011 – 2022)

AICPA Hall of Fame Inductee

MICPA Innovative User of Technology Award

Past Chair of the Michigan Association of CPAs



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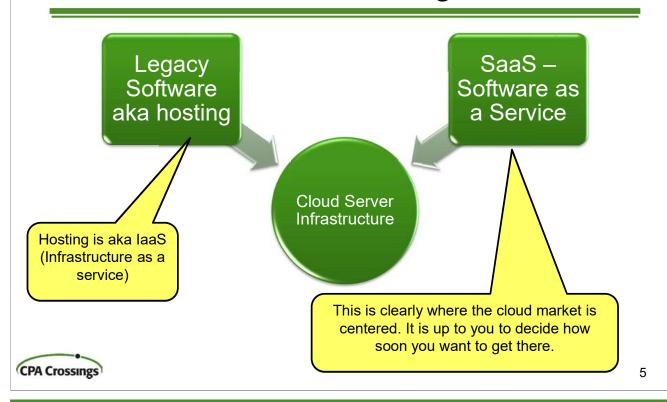
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Presentation Outline

- Alternative Cloud Based Software Strategies
- The New Accounting Software & Services Paradigm
- > Financial, ERP & Workflow Software
- Personal Productivity Software
- ➤ Wrap-up

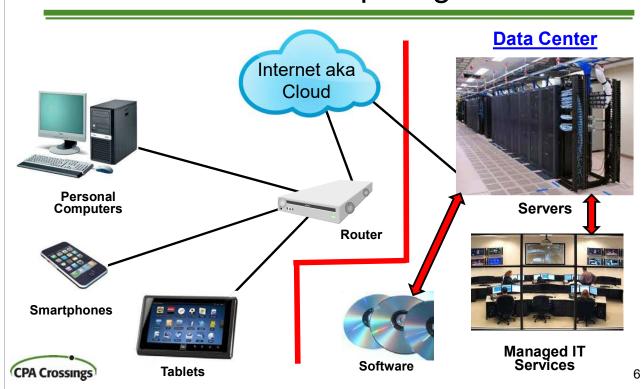


Alternative Cloud Based Software Strategies

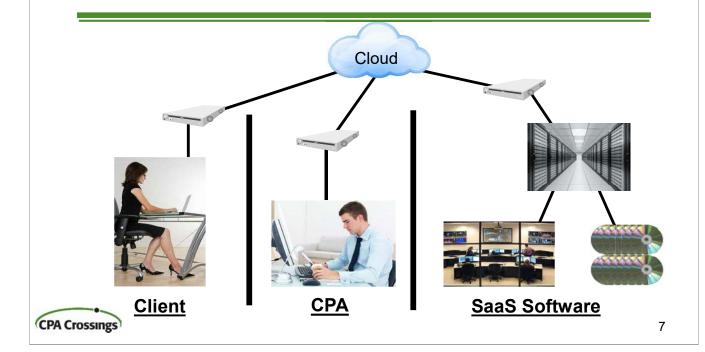


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The Cloud Computing Model

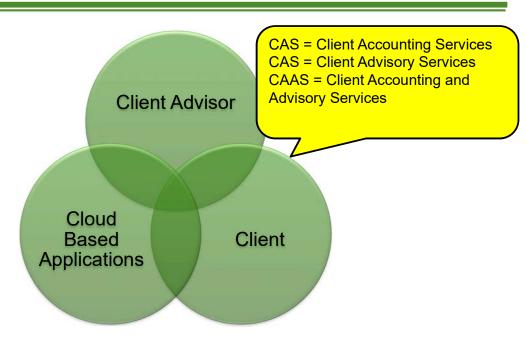


THE NEW ACCOUNTING SOFTWARE & SERVICES PARADIGM



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The CAS / CAAS Model





FINANCIAL, ERP & WORKFLOW SOFTWARE





















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Best of Breed vs. Suites

The timeless debate



Trends In Financial Software

Everything is moving to SaaS

Cross vendor integration is more prevalent

Trending towards business process specific solutions

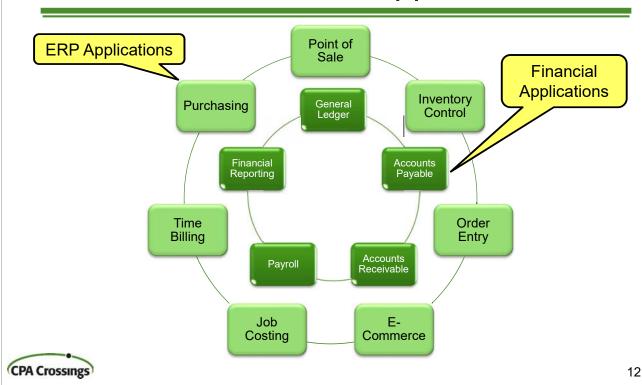
Third party integrated apps are key

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Financial & ERP Applications



Top Selling SaaS Financial Solutions

Small Business

- QuickBooks Online (QBO) Intuit
- > Xero
- Patriot Software
- > BQE CORE

Enterprise

- > Accumatica
- ▶ Intacct Sage
- ▶ NetSuite Oracle



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Niche Workflow Applications





Top Selling SaaS Workflow Solutions

Cash Management

- ➢ Bill.com
- Corpay

Expense Management

- Expensify
- Concur

Sales Tax Automation

- Avalara
- Vertex

Human Resource

- > ADP
- Paychex



15

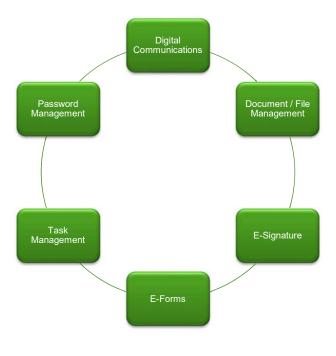
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PERSONAL PRODUCTIVITY SOFTWARE





Personal Productivity Applications



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WRAP-UP





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Presentation Wrap-Up

- All categories of business software are moving to the SaaS model
- You can have your cake and eat it too with a SaaS / hosting hybrid model
- A hybrid suite and best of breed solution may be your best option
- Don't underestimate the ROI value of personal productivity software



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Questions?





THANK YOU





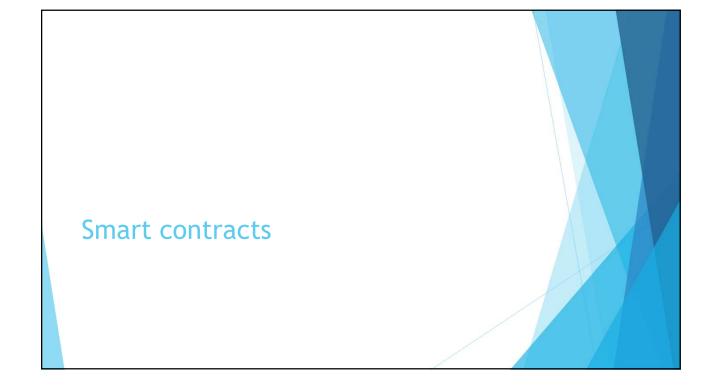


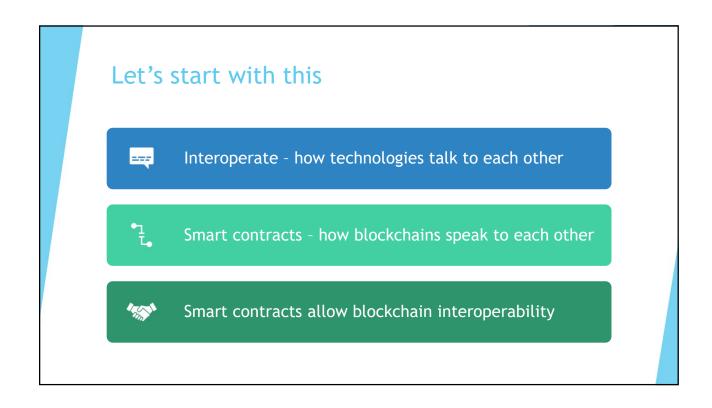
1 – 1:50 p.m.

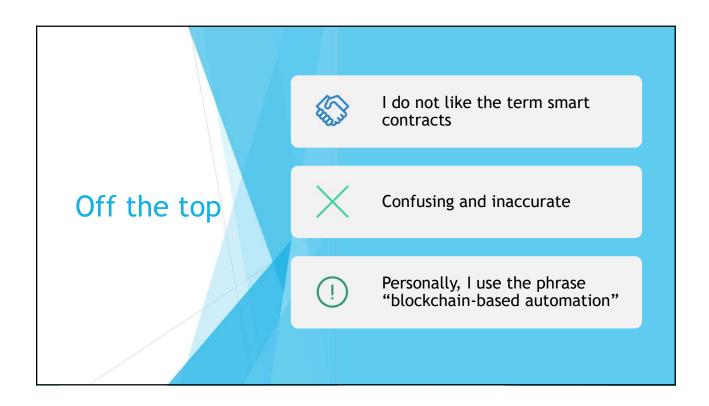
Non-Fungible Tokens

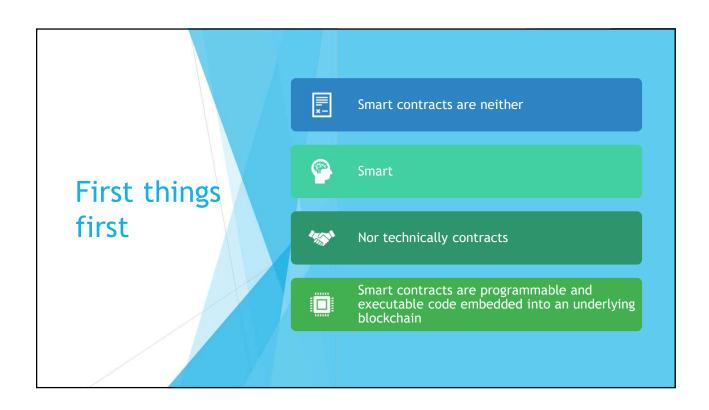
Dr. Sean Stein Smith, CPA, CMA, CFE, CGMA, Professor University of New York City

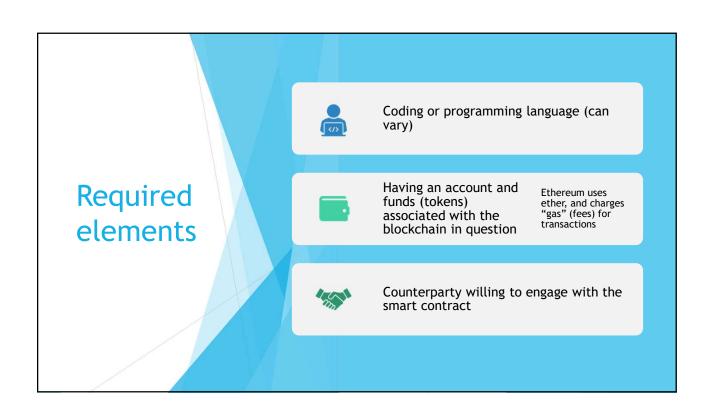
Smart Contracts & NFTs Dr. Sean Stein Smith



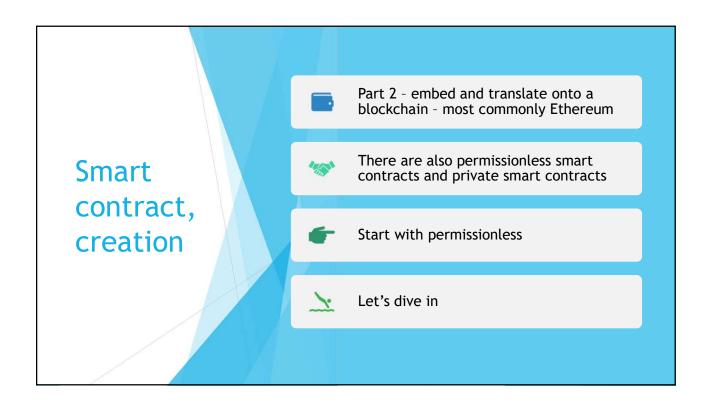








Smart contract, creation Part 1 Develop a traditional contract 1) Terms & conditions 2) Consideration 3) Rights & obligations 4) Legality 5) Offer & acceptance

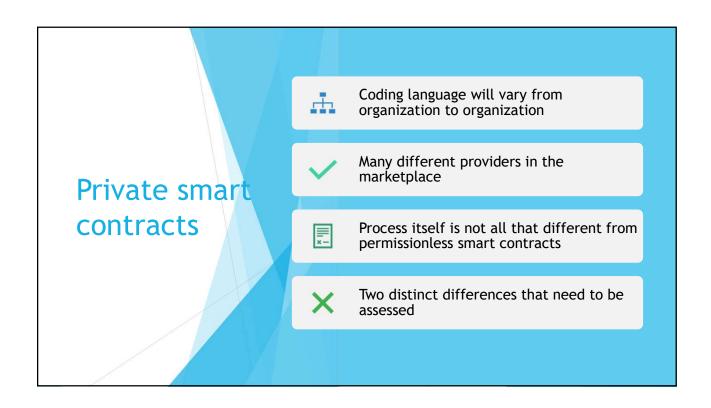


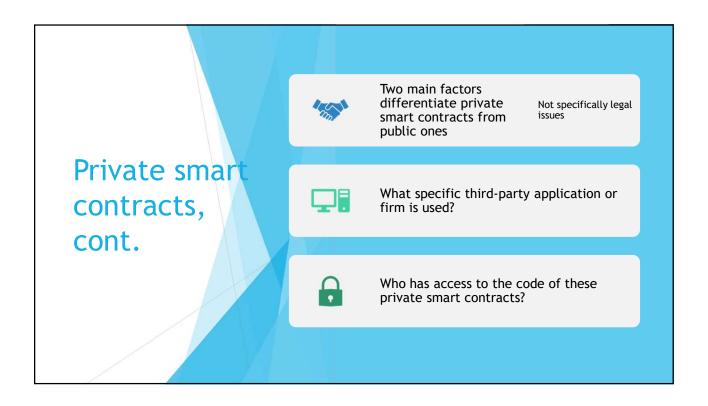
Permissionless Ethereum Smart Contracts

- ▶ A "smart contract" is simply a program that runs on the Ethereum blockchain. It's a collection of code (its functions) and data (its state) that resides at a specific address on the Ethereum blockchain.
- ➤ Smart contracts are a type of Ethereum account. This means they have a balance and they can send transactions over the network. However they're not controlled by a user, instead they are deployed to the network and run as programmed. User accounts can then interact with a smart contract by submitting transactions that execute a function defined on the smart contract. Smart contracts can define rules, like a regular contract, and automatically enforce them via the code
- https://ethereum.org/en/developers/docs/smart-contracts/
- ▶ What???















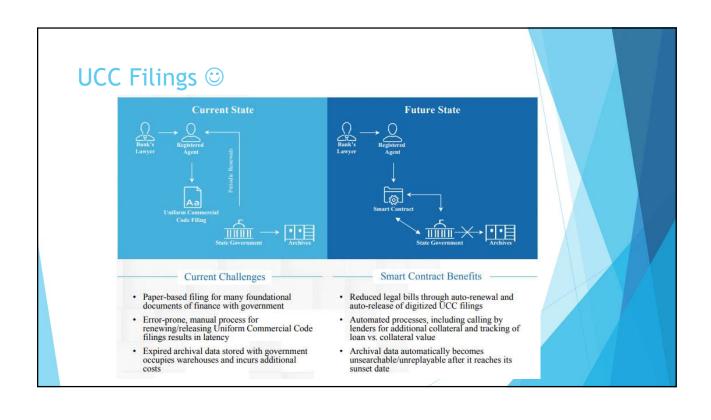
Smart contract use cases

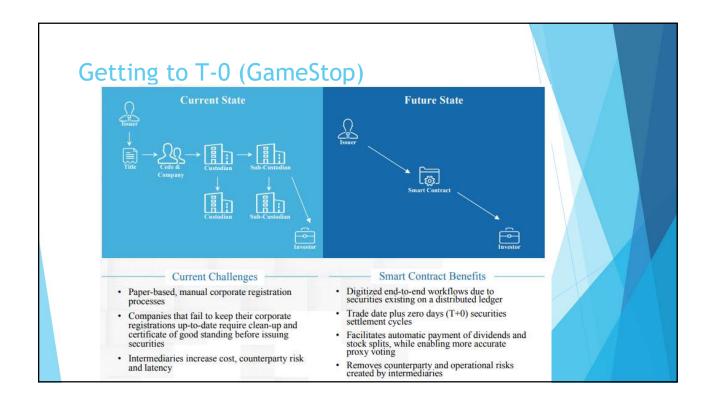
- Digital Identity
- Records
- Securities
- Trade Finance
- Derivatives
- Financial Data Recording

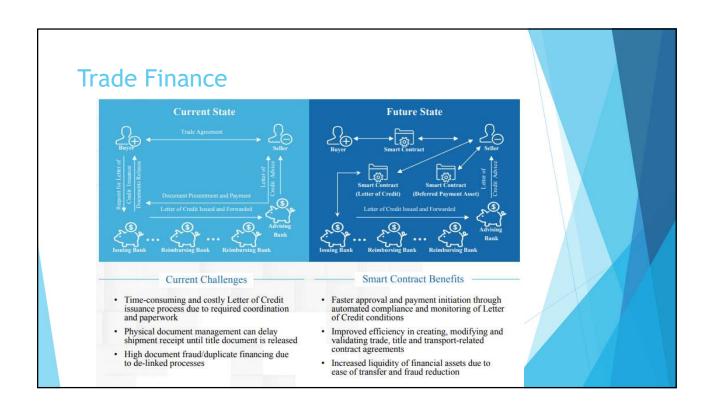
- Mortgages
- Land Title
- Supply Chain
- Auto Insurance
- Clinical Trials
- ► Cancer Research

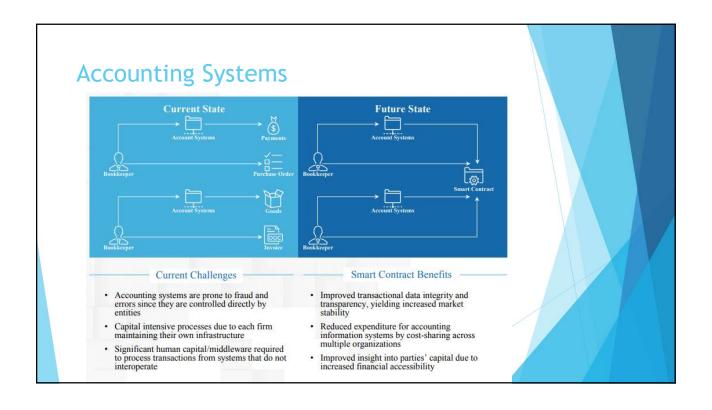
 http://digitalchamber.org/assets/s mart-contracts-12-use-cases-forbusiness-and-beyond.pdf

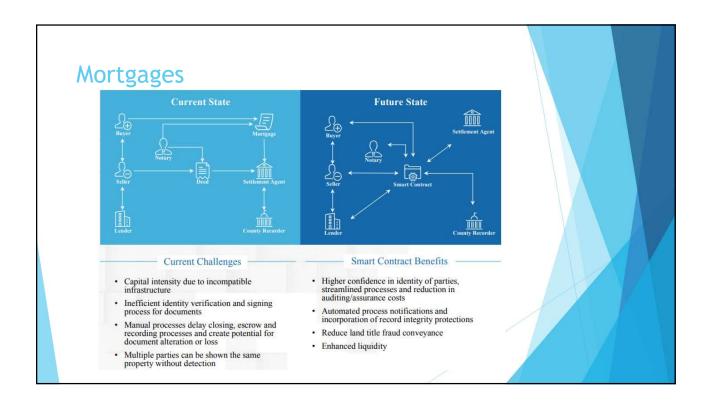
Current State Current State Future State













Examples

#1 Inmusik- The Music Industry

- ▶ The global streaming services makes around 40% of the global revenues but the music industry experiences some issues like the revenues fails to reach the content creators' hand due to centralization, lack of transparency over ownership of the content, royalties payment and many more.
- Inmusik is a music streaming platforms that can decentralize revenues and have a proper allocation of revenues to the worthy recipient or creators. All this is possible because of the smart contracts, available in the Inmusik blockchain that enables the validation of the ownership of a song through a transparent tagging system. As a result, the party who creates the track gets the right portion of fees allocated from the royalties.

#2 Ascribe- Digital Artwork

- ▶ The Digital Art industry is also prey to lack of ownership and transparency. With the blockchain art market emerging, digital artists are bound to find answers to the aforementioned issues.
- ▶ Boost of Digital art sales through imbibing digital scarcity
- Digital art investment to be democratized
- · Improving trace ownership and digital art provenance
- · Creation of an ethical way to pay the digital artists
- Ascribe is a digital art platform, merged with smart contracts to enable secure ownership or authorship of a digital artwork, which means the digital artists are saved against fraud. As the artwork is circulated and promoted across various platforms on the web, the artists can keep a track wherever their work is published so that they can claim the right publication fee.

#3 Tracr- The Diamond Industry Supply Chain

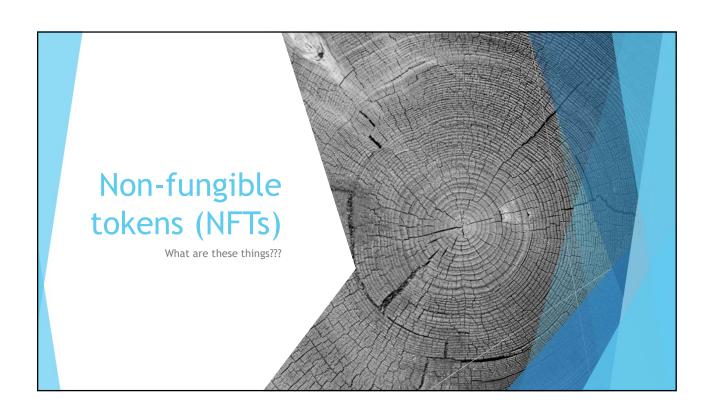
- Smart Contracts can help the diamond industry to improve its supply chain. Very recently, a diamond company, DeBeers introduced a blockchain-based project called Tracr, that will help in improving the supply and logistics of the diamond production. The issues which are looked forward to being solved with the help of smart contracts are:
- Monitoring or tracking the production processes and traceability of diamonds
- Lacking visibility in the supply chain
- · Uncertainties revolving around authentication of the assets
- Privacy and Security concerns with respect to production supply.
- Too much of compliance costs due to inconsistent processes.
- ► Tracr takes care of all these issues and relies on a KYC procedure which facilitates the transactions while enablement of privacy control to respect sensitive data. Tracr even provides a digital fingertip that enables anyone to efficiently track diamond production. Some other smart contract supply chain examples include Maersk and IBM, Tomcar and many more.

#4 UBS- The Banking And Insurance Industry

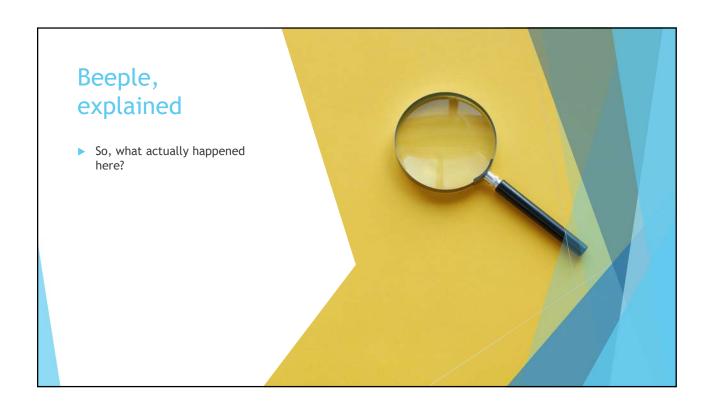
- ▶ The Banking industry is one such industry that will be getting the most benefit from the blockchain technology and smart contracts. Some of the areas that benefit the most from smart contract technology are as follows:
- Know Your Customer (KYC) Procedure
- Infrastructure costs can be saved for securities
- Alternative to traditional bonds and mortgages
- Reduction of insurance costs
- Recently, the Swiss Bank <u>UBS</u> has discussed the inception of a new technology called "smart bond", which is a blockchain-based program for the creation of the self-paying instrument, which will be risk-free and is an available payment stream for the unbanked people. This kind of micro contracts can enable microfinance which could help in payment of everyday goods.

#5 Applicature- The Healthcare Industry

- ▶ Even in the healthcare industry, there are several issues pertaining to data conservation and patient privacy. To get rid of the dependencies which involve a lot of middlemen and bureaucracies, introduction to the smart contract was much necessary for the healthcare industry. Smart Contracts would help in:
- · Privacy and safety on patient's record or data
- · Reduction of transaction costs
- Improving protocols or compliances
- Applicature is a blockchain development application, which fosters data integrity, wherein the patients will have access to a transparent, secure record of their health data. It provides a safe network to all the healthcare entities from the practitioners to patients.













- How does an NFT work?
- NFT are unique and specific tokens connected to a blockchain
- Cannot be traded for each other
- ▶ Major use case and implication for smart contracts
- ▶ Can be programmed to be as complicated or simplistic as needed
 - Royalty payments can be allocated automatically
- https://www.thefashionlaw.com/nfts-what-are-you-buying-and-what-do-you-actually-own/

NFTs, minted

- Writing the underlying smart contract doe that governs how an NFT operates
- Can be written on different blockchains
- ▶ Some NFT marketplaces only function with specific blockchains
- Depending on the blockchain used could have an impact on resell and market value

NFT ownership

- ▶ The ownership of the NFT is a unique token
- ▶ NOT the underlying content of the NFT
- Generally speaking, the purchase of a piece of artwork does not convey other exclusive rights
- ▶ If a painting is purchased, that specific asset has been purchased, not the rights to create copies or other derivative products
- ▶ In other words, NFTs are for personal use, and not for monetization on public platforms

NFT License

- Put forward by Dapper Labs
- Contract template that can be customized to specify what rights are conveyed
- Distinguishes the NFT from the underlying art or asset
- Clarifies that the NFT holder obtains a 1) personal license to use and display the art, and 2) a commercial license to merchandise and monetize the asset
 - ▶ \$100,000 gross revenue limit
- Just one example

NFT and IP rights

- NFTs can be used to authenticate the ownership and ownership history of a specific token or other cryptoasset
- Cannot be used to match an owner of the NFT to a real person in the physical world nor the underlying rights to that specific work
- ► Counterfeiting is still a major issue for the NFT industry
- Addressed by requiring artists to submit identifying data prior to minting the NFTs
 - Old-fashioned meets crypto

NFT Tax Treatment

- Might be a bit different from other crypto taxes, which create a taxable event every time there is a transaction involving these digital assets
- Since NFTs are just digital representations of physical assets, like real estate, would the tax treatment simply mirror the tax treatment of the underlying asset?
- ▶ No definitive guidance on accounting, but income streams are possible depending on the use case...

NFT Use Cases

- · Creating digital or crypto-collectibles
- Managing ownership of digital items within blockchain-integrated games
- Proving authenticity of digital art, while allowing artists to retain their copyright and IP
- Devising a digital identity system that allows users to control their data from one place
- · Allowing fractional ownership of high-value items, such as real estate
- ► https://www.gemini.com/cryptopedia/nft-non-fungible-token-cryptocollectibles

FAQ #1 - How are NFTs different from other cryptoassets?

▶ The primary difference between NFTs and other cryptoassets can be boiled down to two facts. Firstly, NFTs are unique and distinct assets, so this means that that they cannot be exchanged for one another like bitcoin and other cryptocurrencies can be. Secondly, and since these cryptoassets represent distinct claims linked to assets, NFTs cannot be subdivided and used fractionally as a currency equivalent.

FAQ #2 - What is the accounting treatment for NFTs?

Since there is no crypto-specific authoritative accounting guidance in the marketplace, the general rule is that cryptoassets are treated as the equivalent to indefinite lived intangible assets. That said, and something we will be exploring in more detail, depending on the underlying asset in question - as well as the process by which these NFTs are issued - the accounting treatment will change.

FAQ #3 - Is there a tax implication for NFTs?

Generally speaking NFTs are taxed as property, which all cryptocurrency are treated and taxed as. Where the differentiation comes into play is whether or not a taxpayer is an NFT creator, or is simply buying and selling NFTs. Creators are taxed at the point in time that the NFT is sold, with any income being recognized as ordinary income. Buyers and sellers of NFTs are going to be taxed similar to how other cryptocurrencies are taxed, with long term capital gains rates, or short term (ordinary income) rates coming into play.

Thank you!

- Questions?
- Comments?
- Jokes?
- ► Email <u>drseansteinsmith@gmail.com</u>
- ► Twitter @seansteinsmith
- LinkedIn Sean Stein Smith

1 – 1:50 p.m.

Microsoft Teams Deep Dive

John Higgins, CPA, CITP, Strategic Technology Advisor CPA Crossings LLC

Microsoft 365 Teams App Deep Dive





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Presentation Outline

- ➤ What is Teams?
- ➤ Teams Meetings Key Features
- ➤ Teams & Channels Key Features
- Deployment Considerations
- ➤ Wrap-up



What is Teams?

A digital platform to transform the way you communicate, collaborate and share knowledge



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Teams and the Office 365 Ecosystem





Strategic Impact of Teams

Enhance internal & external communications

Organize information for quick retrieval

Replacement for email conversations

New hire onboarding

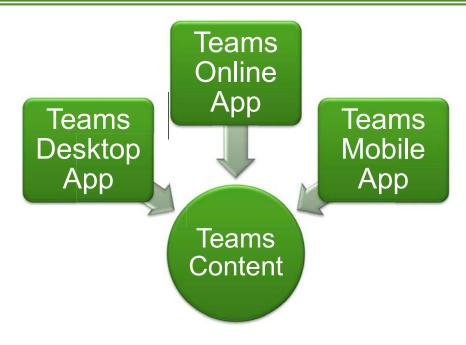
Enhance transparency and information privacy



5

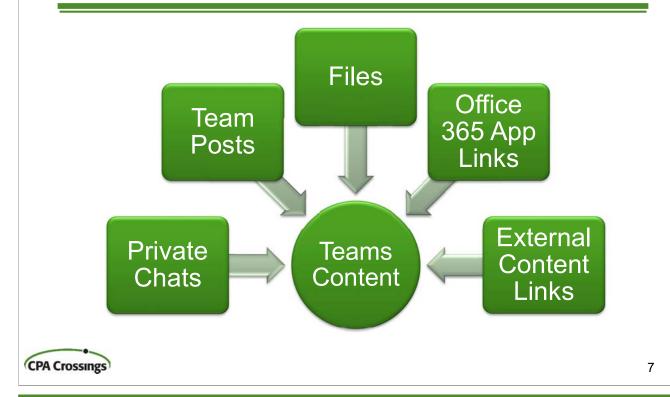
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The Teams App Ecosystem



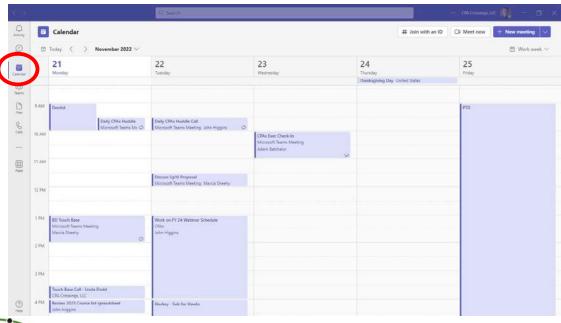


Teams App Content



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Teams Meetings



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Key Meetings App Features

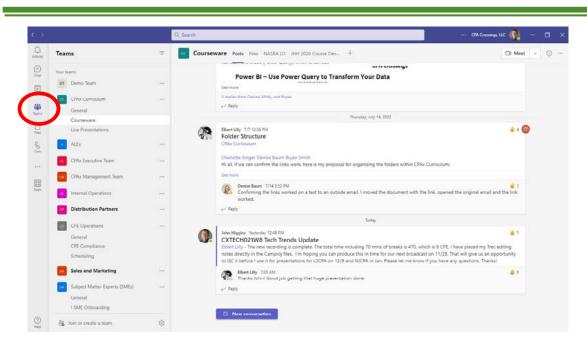
- Two-way synchronization with Outlook Calendar
- Control over attendee audio / video / chatting
- Utilize breakout rooms in meetings
- Screen and audio sharing
- > Record meetings
- Customized registration forms



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Teams & Channels





Key Teams & Channels Features

- Individual teams / channels configuration
- Individual and custom group tagging
- Customize links to external apps & content
- Direct integration with SharePoint
- Private channels option
- Integrated Office apps access
- Customized notification settings
- Connect with external "guest" users



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Key Deployment Considerations

How to organize your content

Who will get access to what

Who will manage the application

Establish usage policies

Support external users or not



WRAP-UP





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Teams Orientation Summary

- A little planning prior to your Teams deployment will pay big dividends
- > Start with a small deployment
- Extend Teams to external users when you feel you have the experience and our prepared



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THANK YOU





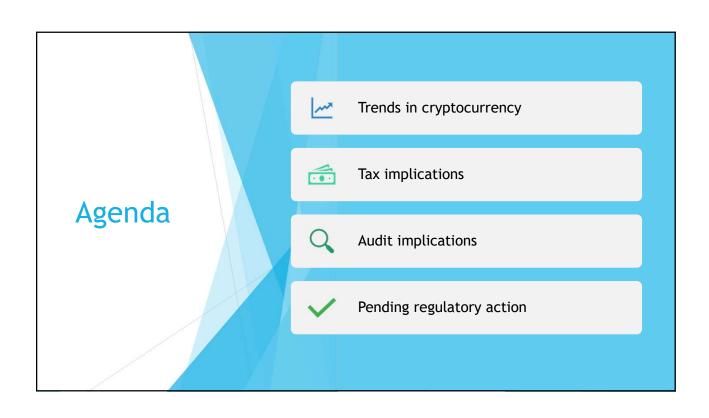


2:05 - 2:55 p.m.

Hot Topics & Trends in Virtual Money

Dr. Sean Stein Smith, CPA, CMA, CFE, CGMA, Professor University of New York City









FTX meltdown

FTX was a market leader in the cryptoasset marketplace

Obtained numerous celebrity endorsements and naming rights for venues

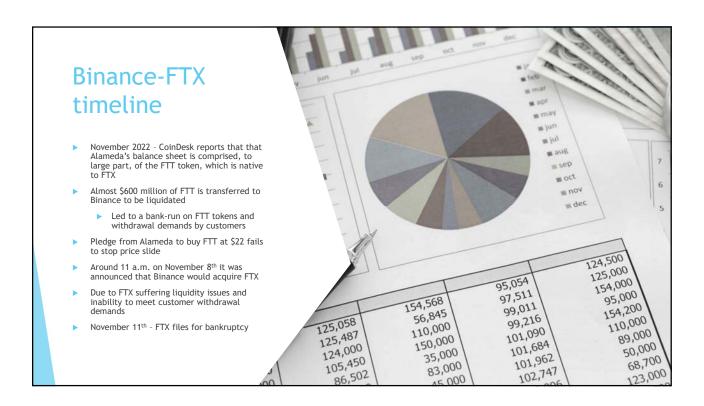
Had served as the "white knight" for other crypto organizations during the ongoing bear market

That all changed starting on November 6th, 2022

Let's take a look at the timeline of the collapse of FTX and its proposed acquisition by Binance

Binance-FTX timeline

- ▶ July 2022 FTX and Sam Bankman-Fried (SBF) bankrolled the troubled crypto lender BlockFi, and acquires Canadian crypto firm Bitvo as well as agreeing to acquire Voyager Digital
- August 2022 Alameda Research co-CEO steps down
 - Alameda Research is closely connected to FTX, raising questions around governance and risk management
- September 2022 FTX President steps down
- October 2022 SBF is revealed to having donated \$50 million to U.S. political candidates, and expresses support for Digital Commodities Consumer Protection Act
 - Widely rejected by the crypto community, except for SBF



FTX Takeaways

- As FTX collapsed several things became clear
 - ▶ Corporate governance was non-existent
 - Questionable loans and trading activities went on between related parties
 - Disclosures and valuations were inconsistent at best
 - Non-U.S. based organizations increasingly have a spotty track record
 - ▶ Bankruptcy procedures have not evolved to deal with such a large crypto filing
- Regulators and regulation will absolutely be coming for the space
- Might result in sped up process to create crypto-specific rules

Let's have some context

- October 2022 Mastercard partners with Paxos to help banks and other intermediaries authorize and settle financial transactions
 - Already used by PayPal
- Madeira Islands (Portugal) are planning to embrace/adopt bitcoin
 - Potentially as legal tender
- Bitcoin Cash to be accepted as legal tender in St. Kitts
- ▶ Stablecoin transaction volume topped \$800 billion in September
- ► That's not all

More context

- Blackrock and Coinbase have agreed to offer a jointly managed platform to allow institutions access to crypto trading and custodial services
- ▶ JP Morgan is expanding its enterprise blockchain, Onyx, and just completed it's first ever decentralized finance transaction
 - Polygon blockchain
- ▶ About 1 billion people have used crypto in 2022
- ▶ About 320 million daily users worldwide
- ▶ But there is more....

Keep this in mind

- 2022 has seen multiple centralized exchanges and platforms fail or struggle dramatically
 - Celsius
 - TerraLabs
 - BlockFi
 - ▶ FTX
 - Many others
- Investors withdrew over \$1 billion in bitcoin from exchanges over the weekend
- Creates opportunities for new services crypto & cyber

Ethereum merge, recap.

The Ethereum merge has successfully been completed (September 2022)

- Ethereum blockchain has converted from Proof-of-Work consensus to Proof-of-Stake consensus
- Energy consumption will decline by approximately 99% as a result
- Opens the door for further pivoting away from BTC to ETH as crypto market leader

Tax accounting has not changed

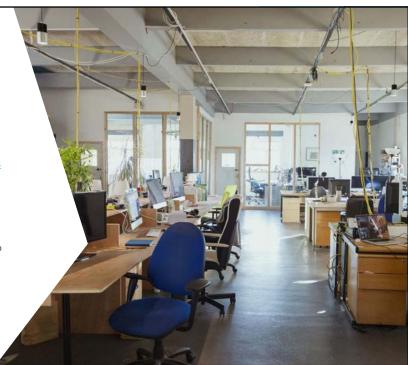
• More on that later

Financial accounting has not changed

• Not yet at least

SEC Crypto Asset Office - Sept 2022

- Office of Crypto Assets will join the seven (7) existing offices that handle corporate disclosure filings
- https://www.reuters.com/markets/us/us -sec-set-up-new-office-crypto-filings-2022-09-09/
- Office of Crypto Assets
- The Office of Crypto Assets will continue the work currently performed across the DRP to review filings involving crypto assets. Assigning companies and filings to one office will enable the DRP to better focus its resources and expertise to address the unique and evolving filing review issues related to crypto assets.
- https://www.sec.gov/news/pressrelease/2022-158



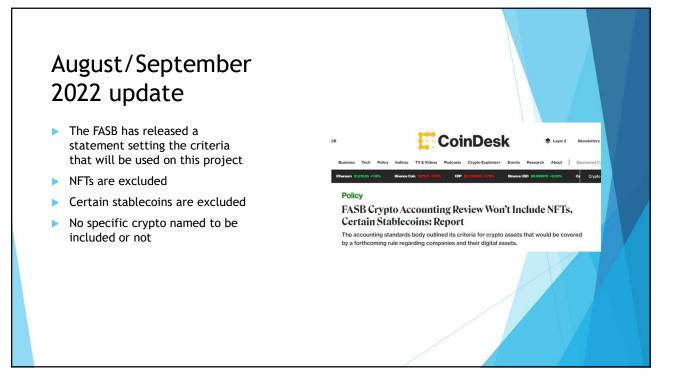
U.S. GAAP Primer

- U.S. Generally Accepted Accounting Principles are the rules that U.S. publicly traded firms must follow
 - ▶ U.S. domiciled and foreign firms trading on U.S. markets
- Determines how assets, liabilities, and equity instruments are reported on financial statement and for external financial reporting purposes
- ► The Financial Accounting Standards Board (FASB) is the group that writes, reviews, and codifies GAAP standards
- Up until 2021-2022, the FASB refused to consider crypto accounting rules at all



The GAAP problem, cont. • Under U.S. GAAP • Intangible assets cannot be marked to market • Intangible assets must be tested for impairment • If impairment has occurred, these assets must be written down • After impairment has occurred, the value can never be restored • These represent major issues for firms seeking to use/accept/hold cryptoassets • Crypto remains a volatile asset class





Good news! October 2022

- FASB announced that certain cryptoassets, including bitcoin and ether, can be accounted for a fairmarket-value
- Still has to proceed through the rulemaking process
- GREAT first step toward establishing crypto-specific accounting guidance
- https://www.coindesk.com/business/2 022/10/13/fasb-mulls-fair-valueaccounting-for-crypto-holdings-report/



PCAOB in the conversation

- The Public Company Accounting Oversight Board recently issued some preliminary information on audits involving cryptoassets
- https://pcaobus.org/Documents /Audits-Involving-Cryptoassets-Spotlight.pdf



Jarrett vs. United States

- Nothing has changed as a result of these headlines
- Staking rewards are still an ambiguous tax topic
 - ▶ Post-merge this will become more important
- No change to IRS guidance or FAQs
- No indication that policy changes are coming
- Conversation specific to the unique facts and circumstances of this case and complaints therein
- https://www.natlawreview.com/article/recent-tax-developments-concerning-staking-rewards
- https://news.bloombergtax.com/tax-insights-and-commentary/taxpayers-in-jarrett-case-still-seek-an-answer-on-crypto-staking

Bad news! Sept/Oct 2022

- Jarrett case has been dismissed
- Jarrett plans to file appeals with existing legal team
 - Includes the Proof of Stake Alliance
- As of right now, block rewards and staking rewards are taxable upon creation
- https://news.bloombergtax.com/d aily-tax-report/crypto-staking-taxlawsuit-ruled-moot-after-irsissued-refund



Crypto Staking Tax Lawsuit Ruled Moot After IRS Issued Refund

More regulation (pending)

President's Working Group Report on Stablecoins

- Issued in Q4 2021
- https://home.treasury.gov/news/press-releases/jy0454
- ► First comprehensive report on stablecoins issued by the Federal Government, with major private sector partners
- Not supportive of the sector nor its use cases



U.S. Executive Order - Crypto

- Long-awaited executive order signed into law in March 2022
- No specific actions steps or policies
- ► Three (3) main takeaways
 - No crypto ban or shadow-ban
 - Mandates coordination among policymakers
 - Definitive shift toward integration
- https://www.brookings.edu/blog/techt ank/2022/03/17/how-bidens-executiveorder-on-cryptocurrency-may-impactthe-fate-of-digital-currency-and-assets/



SEC - Staff Accounting Bulletin

- ▶ Published March 31, 2022 with effective date April 11, 2022
- Proposes several accounting specific changes for publicly traded organizations offering crypto custodial services
 - ▶ Reporting of cryptoassets held for customers as liabilities, offset by an asset
 - Disclose risks associated with cryptoassets
 - ▶ Guidance to be applied by June 15, 2022
- Is not official guidance nor enforceable law
- ▶ https://www.sec.gov/oca/staff-accounting-bulletin-121
- Commissioner Peirce issued response
- https://www.sec.gov/news/statement/peirce-response-sab-121-033122

TRUST Act

- Draft legislation issued by Senator Toomey's office on April 6, 2022
- ▶ Centers around the issue of stablecoin issuance and crypto banking
- ► Three (3) primary issues
 - Establishes a new federal license designed specifically for stablecoin issuers;
 - Preserves the state-registered money transmitter status for most existing stablecoin issuers; and
 - ▶ Clarifies that insured depository institutions are permitted to issue stablecoins
- States that stablecoins are not securities and stablecoin issuers need to have annual attestations
- https://www.banking.senate.gov/newsroom/minority/toomey-announces-legislation-to-create-responsible-regulatory-framework-for-stablecoins

Lummis-Gillibrand Responsible Financial Innovation Act

- Introduced in June 2022, and contains several important takeaways
- Proposes to grant the CFTC authority over any and all digital assets that are not securities
- Introduces a de minimis exemption for taxation of personal crypto transactions
 - \$200
- Mining & staking would not be taxable until sold
- Increases definition around stablecoins
- Recommends creation of an Advisory Committee on Financial Innovation
- https://cointelegraph.com/news/lummis-gillibrand-crypto-bill-comprehensive-but-still-creates-division

New York Dept. of Financial Services

- Recently issued guidance on how stablecoins are to be treated (and used) within NY state lines
- ▶ Borrows significantly from the TRUST Act
 - Classification as payment stablecoins
 - ▶ Backed and redeemable into U.S dollars
 - Monthly attestations are required
- Only for stablecoins regulated by the NYDFS, but reasonable to expect other states to follow
- https://www.dfs.ny.gov/industry_guidance/industry_letters/il20220608_issua nce_stablecoins

Do we need crypto audits?

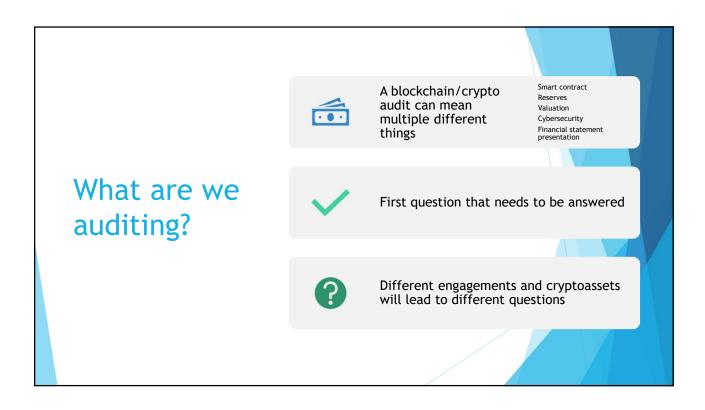
I mean, really?





Top hacks of 2022 Ronin Network - \$620 million Wormhole - \$320 million Nomad - \$190 million Beanstalk - \$182 million Are there any common traits? https://www.moneycontrol.com/news/business/cryptocurrency/crypto-hackers-steal-3-billion-in-2022-set-to-be-biggest-year-for-digital-asset-heists-9347301.html

Common attributes of crypto hacks Some of the most common hacks and breaches include Hacks and breaches of exchanges Hot wallet hacks Scams, rug-pulls, etc Ransomware Phishing Malware Password hacks/breaches Bitcoin ATM scams https://usa.kaspersky.com/blog/crypto-hacks/20042/

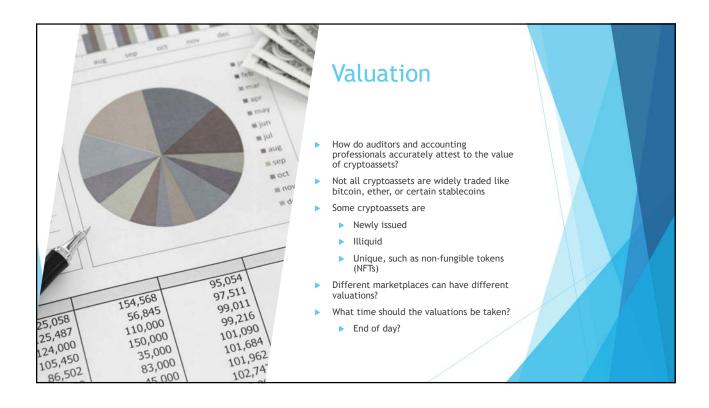






Proof-of-Reserves

- An attest engagement that has rapidly come to the front-burner following the collapse
- ▶ Triggered the selling of a large position of the FTT token by Binance
- ➤ A native token created to facilitate trading on FTX and used to shore up the balance sheer of Alameda Research
- ▶ How were these tokens audited/confirmed/verified?
- ▶ Proof-of-Reserves provides, at least, a partial solution to this problem



Cybersecurity

Cybersecurity issues play a key role in the hacks and breaches that have occurred in the space

• 2022 on pace to set records for dollar-cost and # of incidents

How are blockchain-based applications integrated with other technology applications

Do the hot and cold wallets of the organization interoperate correctly with other technology tools

Does the organization have appropriate insurance for these activities?



Thank you! Description: Questions? Comments? Jokes? Email - drseansteinsmith@gmail.com Twitter - @seansteinsmith LinkedIn - Sean Stein Smith

2:05 - 2:55 p.m.

Get the Most Out of Office 365

John Higgins, CPA, CITP, Strategic Technology Advisor CPA Crossings LLC

Take Your Office 365 ROI to the Next Level



Presented By John H. Higgins, CPA.CITP CPA Crossings, LLC



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Learning Goals



After attending this presentation, you will ...

- Identify opportunities to leverage your investment in Office 365 to improve productivity
- Recognize the potential to streamline some of your routine workflows with Office 365



John H. Higgins, CPA.CITP Strategic Technology Advisor



jhiggins@cpacrossings.com

Strategic technology advisor to the profession w/ 35+ years of experience

Nationally recognized author and presenter on CPA technology

Former National Mid-market Technology Partner - BDO

Cygnus Media Top 25 Thought Leader for the profession

AICPA Business & Industry Hall of Fame Inductee

MICPA Innovative User of Technology Award

Past Chair of the Michigan Association of CPAs

Passionate advocate for the CPA profession!



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Presentation Outline

- ➤ The Big Picture
- Time Saving Outlook Tips
- The Core Apps
- Streamline Communications With Teams
- File Sharing & Collaboration With SharePoint
- Get Organized With OneNote
- Stay Organized With To Do and Planner Apps
- Control Your Schedule w/ Bookings App
- Wrap-Up



The Big Picture



Office 365 Ecosystem of Apps



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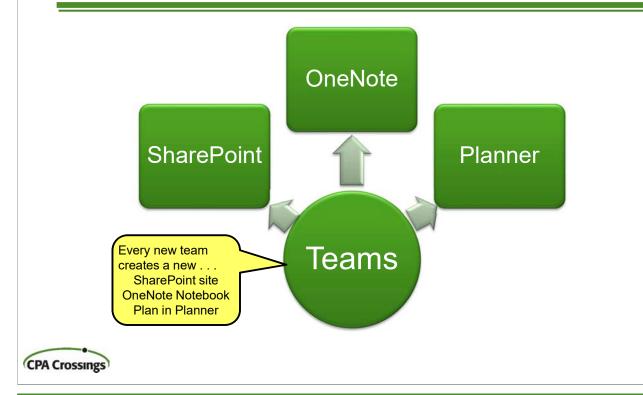
Time Saving Outlook Tips

- Quick Parts
- Dictation
- Share to Teams
- Rules / Folders / Favorites
- Categories
- ➤ Flag for Follow Up





The Core Apps



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Streamline Communications With Teams App

- ✓ Make all meetings Teams meetings
- ✓ Leverage custom tabs
- ✓ Use private channels as client portal
- ✓ Minimize use of "chat"
- ✓ Teams & Stream for process documentation
- Understand Teams / SharePoint relationship





File Sharing & Collaboration With SharePoint App

- Teams and SharePoint work in harmony
 - Teams for conversation storage
 - SharePoint for file storage
- Versioning
- > Alerts
- Sync App

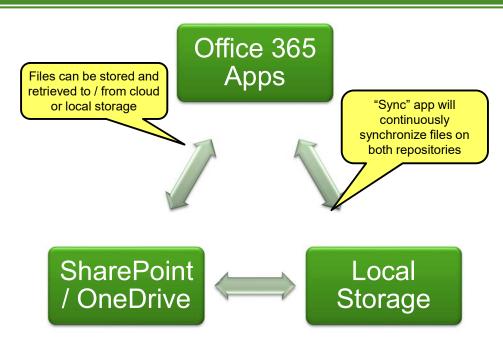




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SharePoint / OneDrive Sync App





Get Organized With OneNote

- Each team generates a OneNote notebook
- Leverage dictation
- Link to files
- Use tags for quick retrieval



- Setup a tab to notebook in the team
 - Client team
 - Client SharePoint site
 - Client notebook



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Stay Organized With "To Do" and Planner Apps









To Do App

- Consolidates "to do" items from:
 - Outlook flagged email messages
 - Outlook tasks
 - Planner tasks
 - To Do app tasks
- Create custom to do lists





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Planner App Key Features



Useful for project and event planning

Integrates with many Office 365 apps

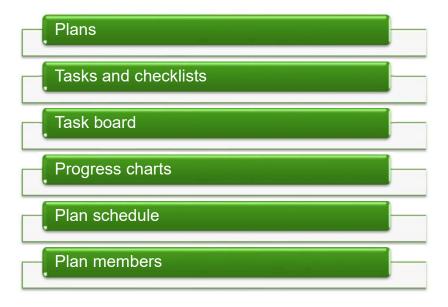
Tasks can be assigned to external users

Visual progress reporting tools





Planner App Components





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Control Your Schedule With The Bookings App

- Setup a bookings page
- Define appointment types
- Keep it simple
- > Use with Outlook Quick Parts
- ➤ Test it!





Additional Apps

- Power BI for visual KPI dashboards
- Forms app for quick surveys and data gathering
- Lists app to create and manage custom lists
- Stream to host videos / Teams meetings
- Power Automate and Power Apps to automate routine processes (RPA) / workflow automation



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WRAP-UP





Presentation Wrap-Up

- ➤ There is an abundance of opportunity to increase productivity with Office 365
- Office 365 provides a platform to support a remote work environment
- Take time to learn how you can utilize the various apps in your organization
- It's a journey not a destination!



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THANK YOU







3:05 - 4:45 p.m.

CPA Technology Trends Update

John Higgins, CPA, CITP, Strategic Technology Advisor CPA Crossings LLC

CPA Crossings Technology Trends Update



Presented By John Higgins, CPA.CITP CPA Crossings, LLC



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Learning Goals



After attending this presentation, you will be able to ...

- Recognize and be aware of the important technology trends that will impact you and your organization
- Recall the important aspects of these technologies to prepare you to participate in discussions with your colleagues, clients, customers, IT staff and service providers
- Begin to develop a strategy for how to integrate these technologies into your business model
- > Identify the emerging skills that will benefit you professionally



John H. Higgins, CPA.CITP Strategic Technology Advisor



jhiggins@cpacrossings.com

Co-founder of CPA Crossings, LLC

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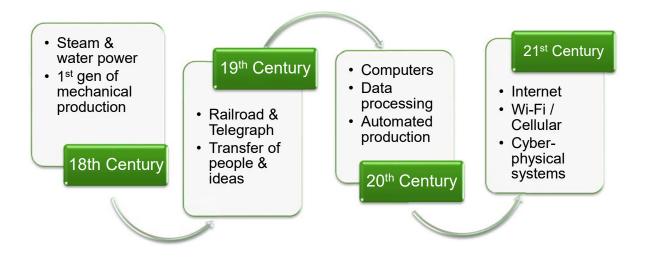
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Presentation Outline

- The Big Picture
- > Technology Mega Trends
 - Cloud Computing
 - <u>loT (Internet of Things)</u>
 - Big Data & Data Analytics
 - RPA (Robotic Process Automation)
 - Al (Artificial Intelligence)
 - Blockchain Technology
 - Virtual Money
 - The Metaverse
- Personal Technology Trends
- Wrap-up

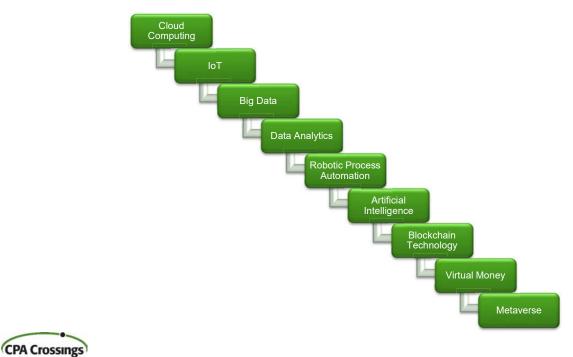


The Big Picture – Transformative Innovations



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The Big Picture – Mega Trends



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Today's Technology Challenges

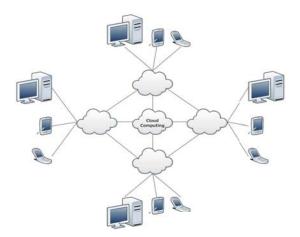
- Developing an awareness of opportunities
- > Expensive capital investment requirement
- > Rapid obsolescence
- Privacy concerns
- Challenge of change
- Rapid transformation of workforce
- Lack of regulations / standards
- ➤ Integration of artificial intelligence & humanity



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THE CLOUD





What Did The Pandemic Teach Us?

- Being digital and cloud based is no longer optional
- > The cloud model is resilient and scalable
- ➤ Microsoft Teams broke a daily record of 2.7 billion minutes of chat on 3/31/20. Up 200% in two weeks and a 1,000% increase in video chat over the same period.
- Work from home can be a strategic advantage

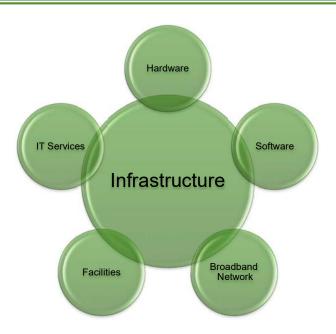
Source: WSJ



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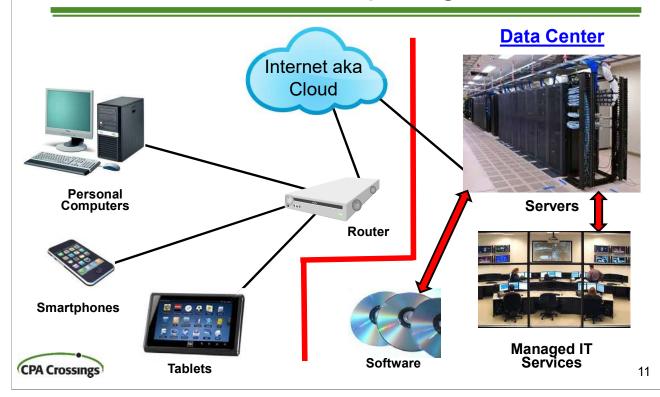
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Cloud Computing Infrastructure Defined



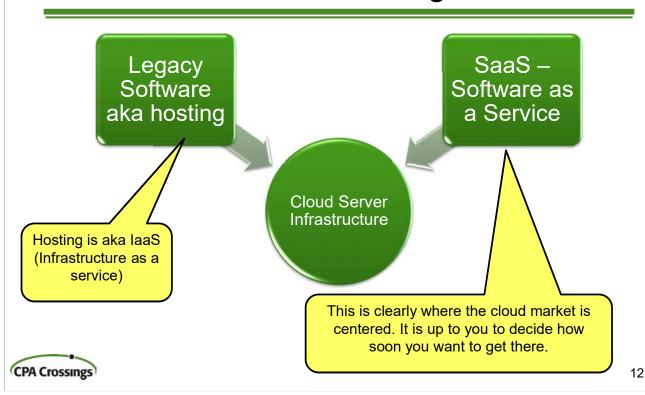


The Cloud Computing Model



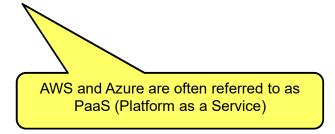
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Alternative Cloud Based Software Strategies



Cloud Infrastructure Hosting Providers

- > AWS (Amazon Web Services)
- ➤ Microsoft Azure
- > Right Networks





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IOT (INTERNET OF THINGS)







Things To Know About IoT

Any physical device can become an IoT device

IDC Predicts 41.6 billion IoT devices by 2025

Industrial and automotive will be the biggest users

Transmit data back through the cloud for analysis

Information privacy is a major concern



IDC = International Data Corporation

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Smart Pill Bottles

- > Real-time measurement
- Sense when the bottle was opened
- Missed dosage triggers automatic notifications





Smart Belly Trash Cans

- Wi-Fi enabled waste collection repository
- Reports real-time and historical waste collection history
- > No electricity required to report via the cloud
- Optimize waste collection fleet scheduling





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BIG DATA & DATA ANALYTICS





"Big Data" Defined

Big data is high-volume, high-velocity and high-variety information assets that demand cost-effective, innovative forms of information processing for enhanced insight and decision-making aka data analytics.

Source: Gartner, Inc. IT Glossary





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Things To Know About Big Data

Data is being accumulated at an unprecedented rate

Trend is to analyze data and report visually

Provides the foundation for AI (Artificial Intelligence)



Types of Data Analysis

Descriptive Analytics

What happened?

Diagnostic Analytics

Why did it happen?

Predictive Analytics

What is likely to happen?

Prescriptive Analytics

What should be done?



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Data Analytics Case Studies

- ➤ Netflix
- Amazon
- ➤ McDonalds
- > UPS
- > Uber





KPI Dashboard Examples





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ROBOTIC PROCESS AUTOMATION (RPA) & ARTIFICIAL INTELLIGENCE (AI)







RPA vs. Al

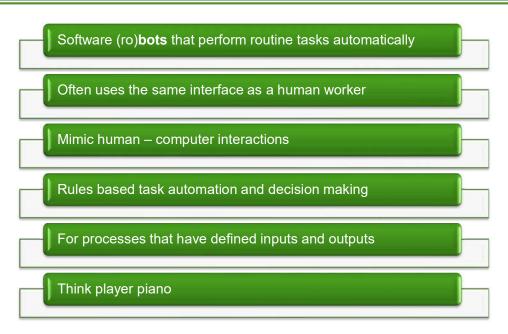
- > RPA (Robotic Process Automation) is the automation of "doing"
- Al (Artificial Intelligence) is the automation of "thinking"



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Things To Know About RPA





Things To Know About Bots & Robots

A bot is a computer program designed to execute a specific task automatically

A chatbot is a bot designed to interact with humans conversationally, via text or voice

A robot is a machine built to resemble a human being or animal in appearance and behavior



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Practical Modern-Day Applications

- Siri / Cortana / Alexa
- Online chat support
- Amelia Demo



McKinsey & Company Al Survey

- 1,843 participants across industries, regions and company sizes
- > 56% report at least one AI function up from 50%
- > 2/3 of companies plan to increase their AI adoption
- India & Asia-Pacific highest level of adoption
- > 27% have achieved at least 5% growth of EBIT
- Biggest impact is in cost reduction (79%)
- High performers rely more heavily on cloud servers



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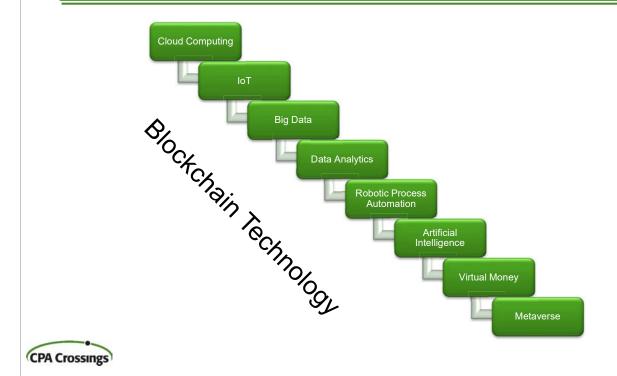
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BLOCKCHAIN TECHNOLOGY





Phases of Modern Technology



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Blockchain is a revolutionary way to validate, record and preserve information digitally



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Attributes of Blockchain Technology

- ✓ Can store any type of digital information
- ✓ Based on mathematics and cryptography
- ✓ Immutable / shared / distributed transaction ledger
- ✓ May not rely on a central authority
- ✓ Emerging and evolving technology



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Emerging Blockchain Applications

- Cryptocurrency
- Supply chain tracking
- Intellectual property protection
- Medical history
- Voting systems
- Identity management





VIRTUAL MONEY





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Disclaimer

- ➤ This presentation is in no way intended to promote the use of cryptocurrencies
- This is a highly volatile market
- Invest in and use cryptocurrency at your own risk!



THE EVOLUTION OF MONEY







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Money Defined

- > A measure of value
- > A medium of exchange / payment
- > A store of value





Types of Money

- Fiat Money
 - Supply / value established by government
 - Established as legal tender



- Commodity Based Money
 - Value tied to a tangible commodity
 - Gold, silver, copper
 - Value determined by market



- Digital (virtual) Money
 - Intangible
 - Based in technology
 - May be fiat (government controlled / CBDC)
 - May be crypto (autonomous)



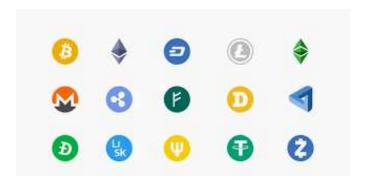


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Cryptocurrencies

- > Bitcoin
- > Ethereum
- > All the other Alt coins





Bitcoin – The Big Picture

- > A new frontier in money
- Bitcoin is a digital cryptocurrency
- Value is 100% market based
- A protocol based on mathematics and cryptography
- Designed by Satoshi Nakamoto (pseudonym)





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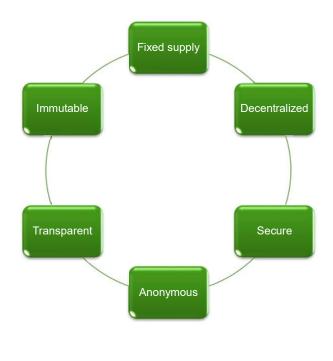
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Bitcoin Facts & Stats

- > First Bitcoin (BTC) was created in 2009
- > A Bitcoin is a digital transaction, not physical
- ➤ First transaction: two Papa Johns Pizzas in exchange for 10,000 Bitcoins
- ➤ Total supply maxed out at 21 million BTC
- Current supply as of 2021 18.7m (approx.)
- ➤ 1 Bitcoin = 100,000,000 Satoshis
- > 1 Bitcoin = \$60k, 1 Satoshi = .0006 BTC (4/21)



Bitcoin Ecosystem Attributes



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INTRODUCTION TO ETHEREUM







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What is Ethereum?

- > A blockchain protocol alternative to Bitcoin
- Cryptocurrency is called "Ether" second largest valuation behind Bitcoin
- Foundation for building apps
- > Run by identified individuals
- > Supports "Smart Contracts"



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Smart Contracts

- Self executing contracts
- > Terms of a contract stored in digital format
- A series of yes / no conditions that determine whether an action will be triggered
- Opens a whole new market for Blockchain





The Ethereum "Merge"

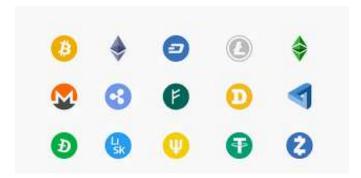
- ➤ The Ethereum protocol is switching from "proof of work" to "proof of stake"
- ➤ Completed September 2022
- > Resulted in a "hard fork"



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INTRODUCTION TO ALT COINS



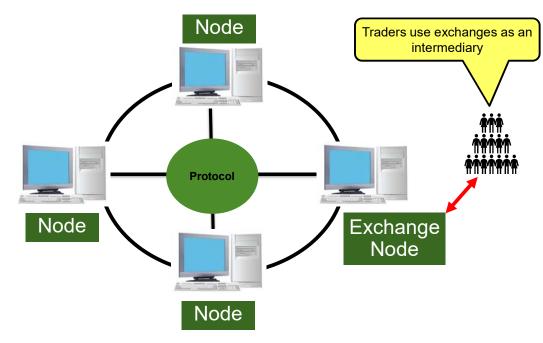


Things to Know About "Alt" Coins



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Cryptocurrency **Exchanges**



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Exchanges

- On ramp to the cryptocurrency market
- > Acts as intermediary
- Adds an unnecessary vulnerability
- Convenient
- Lack regulation and oversight
- ➤ Big busts
 - FTX Sam Bankman-Fried (2022)
 - Mt. Gox (2014)



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CBDC (Central Bank Digital Currency)

- Digital currency issued by a central bank
- Legal tender
- > Will likely not use blockchain
- Centrally controlled
- Every transaction traceable digitized serial #
- Being considered by many countries
 - Project Hamilton in the U.S.





THE METAVERSE





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The Metaverse

Where the world of make believe becomes everyday reality



Metaverse

- Simulated digital environment using augmented reality (AR) and virtual reality (VR)
- VR headsets / AR Glasses
- Avatar an icon used to represent you online
- Digital Twin people, products, processes
- Fueled by Web3 (blockchain / decentralization)
- Meta (formerly Facebook)
- Second Life 1st generation metaverse



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A Metaverse Business Case

- > HBR Interview Julie Sweet, CEO, Accenture
- Metaverse Continuum
- Onboarded 150k new staff in 2022 in the metaverse
- Replacement for traditional in person onboarding as a result of the pandemic
- Doing client visits the same way
- Started development back in 2007



PERSONAL TECHNOLOGY TRENDS





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Key Trends In PC Technology

High performance, lightweight laptops

Docking stations

Large screen (30"+) displays

Solid State Drives (SSD)

High performance processors – Intel i7 / i9

Windows 10 / 11



Solid State Drives (SSD)





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Dell Latitude 5530 Laptop

- **>** \$1,800
- ➤ Intel i7 CPU
- ➤ 15" display
- ➤ 16 GB RAM memory
- > 512 GB SSD
- Docking station (\$220)







Lenovo ThinkPad Carbon Gen 10

- > \$1,632
- ➤ Intel i7 CPU
- ➤ 14" display
- ➤ 16 GB RAM memory
- > 512 GB SSD
- ➤ Docking station (\$239)







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Microsoft Surface Laptop 5

- > \$1,500
- ➤ Intel i7 CPU
- ➤ 15" display
- ➤ 16 GB RAM memory
- > 512 GB SSD
- Docking station (\$200)







Display Monitors





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LG 49" Curved Monitor - \$1,500





Samsung 34" Monitor - \$290



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ViewSonic 27" Monitor - \$635



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ASUS 15.6" Portable Monitor - \$230

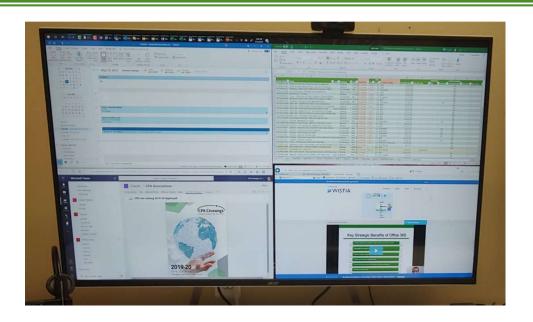




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DisplayFusion Virtual Monitor Software - \$49





Logitech C930e Webcam - \$130





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Microsoft Hub 85" - \$20k - \$25k





WRAP-UP





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Presentation Wrap-Up

- We have covered a lot of technology!
- Business technology awareness needs to be a core competency for CPAs
- ➤ Technology is positioned to alter the nature of every business at an unprecedented level over the next five years



Questions?





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THANK YOU





