

2018 INVESTMENT MANAGEMENT CONFERENCE Chicago November 13, 2018

## Crypto, FinTech and Blockchain

Rick Giovannelli, Partner, Charlotte, NC Jennifer Crowder, Partner, Washington, DC



### WELL, THAT WAS TERRIFYING

But, which is more terrifying:

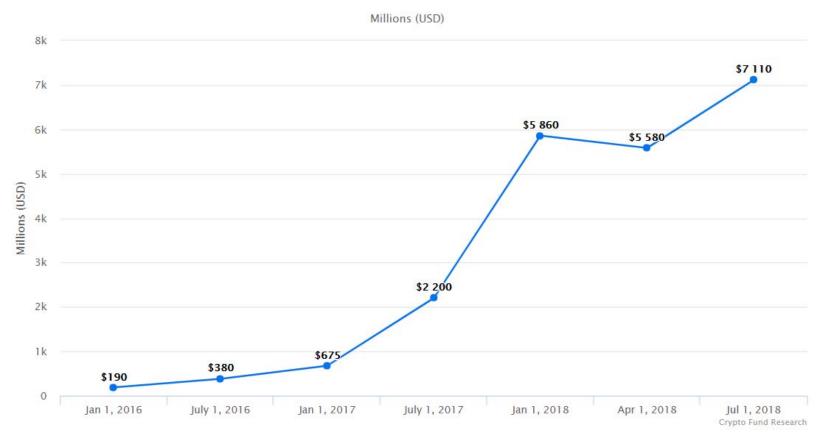
- Crypto Regulation, or
- Crypto Asset Prices?





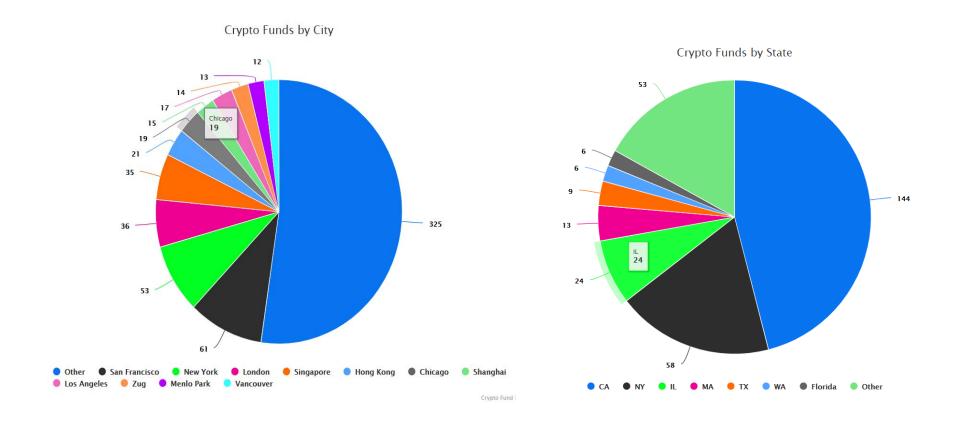
## Crypto Fund AUM: We Ain't Scared

Growth of Crypto Assets Under Management





## Hello, Neighbor - Chicago as a Crypto Hub



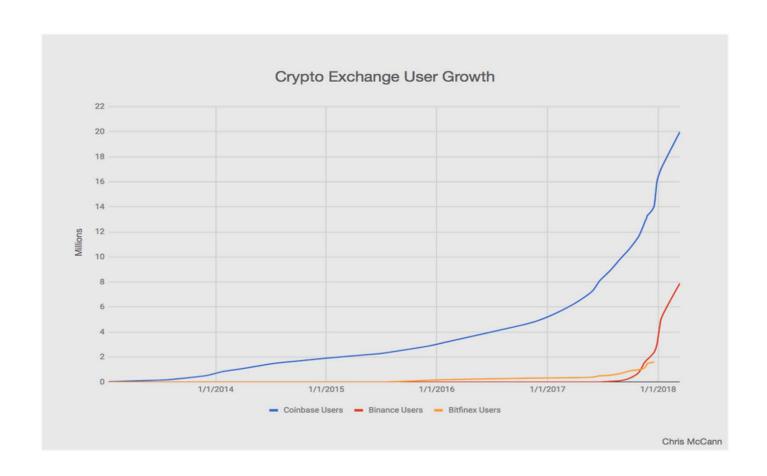


## **Crypto is Not Just Bitcoin**

Cry	ptocurrencies + Exchanges	Watchlist										
#	Name	Symbol	Market Cap	Price	Circulating Sup	#	Name	Symbol	Market Cap	Price	Circulating Supply	Volume (24h)
1	Bitcoin	втс	\$111,380,557,855	\$8,411.73	17,388,	21	(a) Bitcoin Gold	BTG	\$513,258,116	\$29.61	17,334,711	\$3,927,181
2	♦ Ethereum	ETH	\$21,750,755,544	\$210.95	103,106,	22	M Maker	MKR	\$478,093,087	\$656.52	728,228 *	\$317,065
3	X XRP	XRP	\$20,270,225,928	\$0.504165	40,205,508,7	23	8º OmiseGO	OMG	\$468,891,942	\$3.34	140,245,398 *	\$23,713,269
4	เ Bitcoin Cash	BCH	\$9,538,057,396	\$548.60	17,449,	24	<b>⊙</b> 0x	ZRX	\$390,789,856	<b>\$</b> 0.715693	546,029,782 *	\$9,372,301
5	<b>∅</b> EOS	EOS	\$4,922,724,938	\$5.43	908,245,1	25	O Dogecoin	DOGE	\$363,882,374	\$0.003112	116,917,975,233	\$17,235,320
6	🚀 Stellar	XLM	\$4,879,534,180	\$0.257529	18,947,524,4	26	☼ Decred	DCR	\$354,638,871	\$40.35	8,788,052	\$1,613,437
7	② Litecoin	LTC	\$3,085,520,863	\$52.22	59,092,	27	Qtum	QTUM	\$349,250,115	\$3.92	89,024,592 *	\$112,209,851
8	© Cardano	ADA	\$1,941,981,182	\$0.074902	25,927,070,5	28	Ontology	ONT	\$338,013,109	\$1.63	207,016,949 *	\$24,246,478
9	1 Tether	USDT	\$1,771,324,877	\$0.997131	1,778,421,7	29	<b>∆</b> Lisk	LSK	\$309,670,730	\$2.77	111,994,995 *	\$4,507,153
10	& Monero	XMR	\$1,770,553,374	\$108.93	18,557,	30	▲ Basic Attenti	BAT	\$279,804,812	\$0.279805	1,000,000,000 *	\$36,983,790
11	TRON	TRX	\$1,519,584,188	\$0.023112	65,748,111,6	31	Zilliqa	ZIL	\$274,537,827	\$0.034742	7,902,143,771 *	\$8,482,208
12	Dash	DASH	\$1,353,137,290	\$160.41	8,435,	32	∞ Aeternity	AE	\$271,264,379	\$1.16	233,020,472 *	\$5,333,490
13	<b>⊕</b> IOTA	MIOTA	\$1,328,306,037	\$0.477889	2,779,530,2	33	Bitcoin Diamond	BCD	\$266,383,916	\$1.73	153,756,875	\$1,116,756
14	Binance Coin	BNB	\$1,254,683,494	\$9.59	130,799,3	34	<b>b</b> BitShares	BTS	\$252,617,622	\$0.094589	2,670,690,000 *	\$3,223,309
15	NEO	NEO	\$1,048,831,175	\$18.11	65,000,00	35	" Nano	NANO	\$248,094,382	\$1.86	133,248,289 *	\$3,420,603
16	Ethereum Classic	ETC	\$1,006,528,970	\$9.50	105,917,	36	Bytecoin	BCN	\$240,535,591	\$0.001307	184,066,828,814	\$429,927
17	♥ NEM	XEM	\$831,230,255	\$0.092359	8,999,999,90	37		ICX	\$230,284,010	\$0.594387	387,431,340 *	\$10,181,458
18	ty Tezos	XTZ	\$790,796,681	\$1.30	607,489,0	38	<ul><li>Siacoin</li></ul>	SC	\$229,508,855	\$0.006091	37,679,831,499	\$3,753,696
19	② Zcash	ZEC	\$704,145,297	\$135.37	5,201,	39	DigiByte	DGB	\$224,309,361	<b>\$</b> 0.020329	11,033,983,155	\$1,710,222
20	V VeChain	VET	\$587,481,380	\$0.010233	55,454,734,80	40	Pundi X	NPXS	\$216,886,011	\$0.001521	142,603,994,148 *	\$15,397,186



## **More Investors are Trading Crypto**





# More Regulation, Volume Up, Volatility Down: Crypto is a ... Maturing Asset (Class)?

We're seeing more institutional movement into this area. And with more institutional movement, we should see more maturation of this market, but there is still a long way to go.

-- Chris Giancarlo, CFTC Chair, AKA "Crypto Dad"



Bitcoin market route to maturity? Evidence from return fluctuations, temporal correlations and multiscaling effects o

#### A New Signal Of Maturing Cryptocurrency Markets: Corporate And Foundation Investment Arms



#### **FORTUNE**

**How Crypto Will Grow Into an Institutional Asset Class** 

By SALIL DESHPANDE September 12, 2018

Forbes, Aug 20, 2018



## **Crypto? Really? Maturing?**



With its volatility on the decline, is Bitcoin fading away or just maturing?

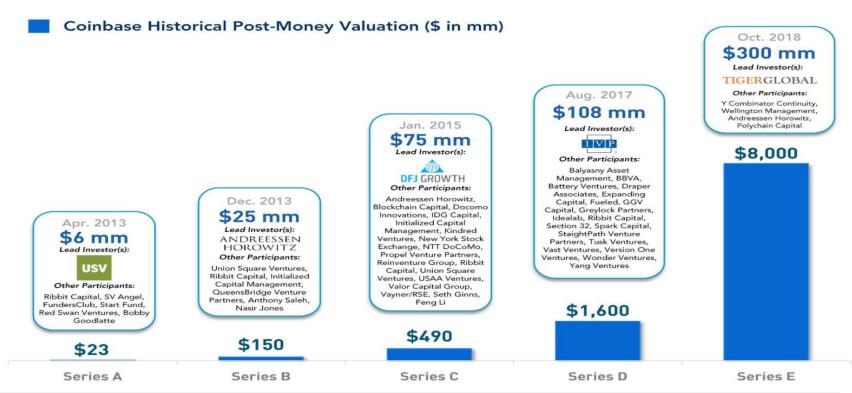
By VILDANA HAJRIC BLOOMBERG | OCT 05, 2018



- Maybe that's the wrong question?
- Consumers adopting crypto for payments
- Institutional investors
  - Avoid investing directly in crypto itself
  - Betting heavily on crypto use cases and service providers



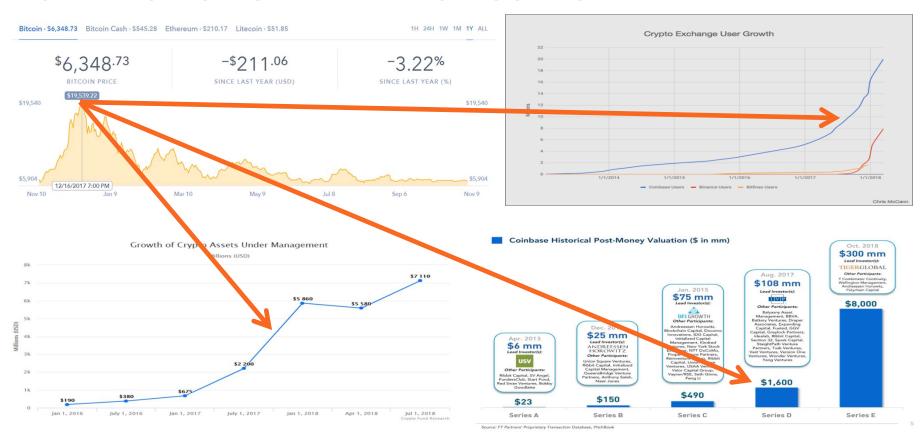
#### **CRYPTO EXCHANGE VALUATION**



Source: FT Partners' Proprietary Transaction Database, PitchBook

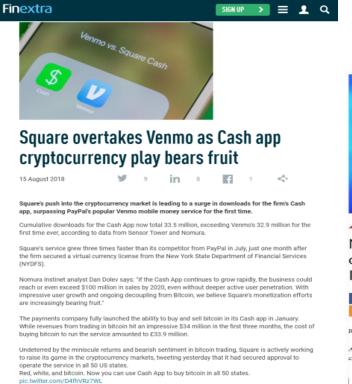


## INVESTORS TRACKING ADOPTION OF ASSET CLASS, NOT PRICE OF UNDERLYING ASSETS





#### **CONSUMERS ARE USING CRYPTO**

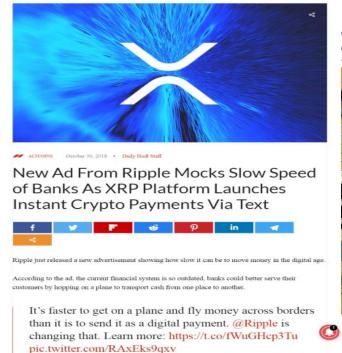


- Cash App (@CashApp) August 13, 2018

4,880 views | Sep 10, 2018, 11:05pm

#### **Forbes**

Should Your Company Accept Bitcoin And Other Cryptocurrency



s and how to help startups succeed.



## BLOCKCHAIN PAYMENT USE CASES OTHER THAN CRYPTOCURRENCIES

- Financial services
  - Cross-border payments
    - Ripple, Amex, Veem, and Santander Bank's "Payment Corridor"
  - Secure institutional payments
    - UBS developing a proof-of-concept for the "Utility Settlement Coin"



BLOCKCHAIN TOKEN USE CASES
OTHER THAN CRYPTOCURRENCIES

- Real Estate
  - Tokenization of land titles

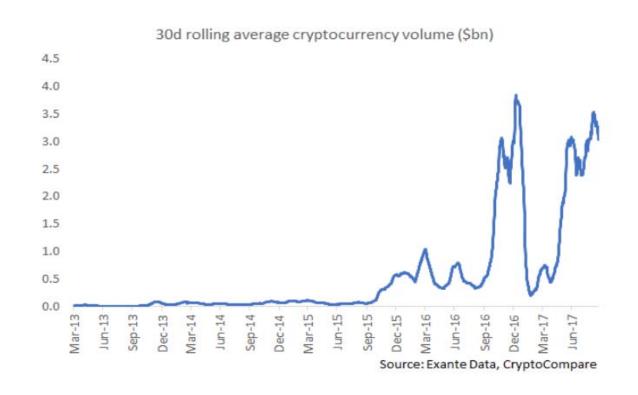




- Energy
  - Pilot program to tokenize renewable energy certificates



#### **CRYPTOCURRENCY USE CASES**



Cryptocurrency trading volume is up. What is cryptocurrency being used for?

### **Cryptocurrency Acceptance at the POS**

#### Coinbase

- Used by Overstock.com since 2014 to accept Bitcoin
- Also used to send, receive, buy and sell



- Digital asset exchange (i.e., crypto converter)
- Used by Overstock.com to accept crypto (in addition to Bitcoin)



- Used by retailer to accept Bitcoin
- Retailer can transfer \$ to bank account or store











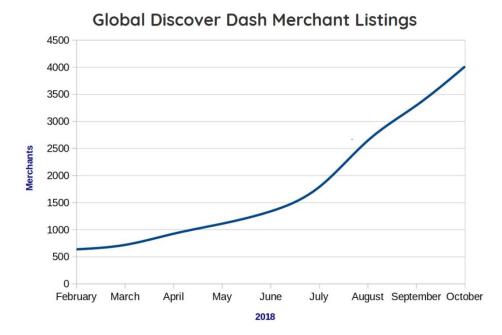


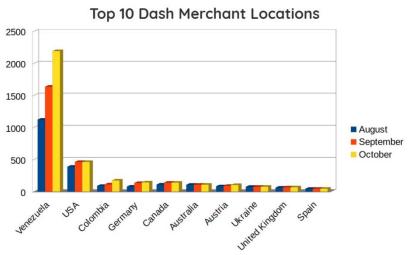
### **Cryptocurrency Acceptance at the POS**

#### Dash

- Direct P2P payments and merchant acceptance
- User friendly with cryptography in the background
- Buy with cash or other cryptocurrencies







discoverdash.com/stats



## **Cryptocurrency for the Unbanked - Microfinance**

- Africa
  - Devaluation of local currency leads to opportunity
  - Lack of regulation adds to opportunity
  - Non-taxation bolsters opportunity
    - Registration is required, but not taxable
  - Access is 24/7, worldwide for digital wallets





## **Cryptocurrency as a Charitable Donation**

Digital currency donations to charities increased to \$70M in 2017, up from \$7M in 2016.





#### FORTUNE

TECH - BITCOIN

Bitcoin Charity Donations Soared 10-Fold Last Year, Fidelity Says

By JEFF JOHN ROBERTS February 14, 2018

\*\*\*\*\*

Donors contributed nearly \$70 million in Bitcoin and other digital currencies to their favorite causes last year through Fidelity Charitable, according to a new report by the organization, an independent charitable arm of the Fidelity investment bank.

This amounts to a nearly ten-fold increase from the \$7 million that people donated last year, says Fidelity Charitable, which helps support more than 255,000 non-profits. The report didn't, however, break out individual recipients or specify how much of the \$70 million was in Bitcoin versus other digital currencies like Ethereum.



2169 views | May 14, 2018, 07:00pr

Nonprofits, It Is Past Time To Start Accepting Cryptocurrency Donations

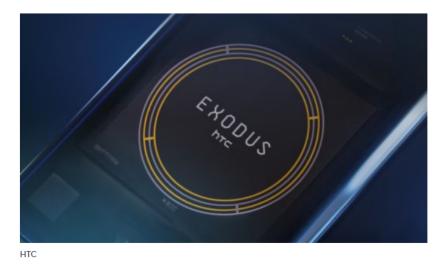






#### **Retail Use of Cryptocurrency**

- HTC Smart Phones
  - Target Audience: The blockchain community.
  - Advantage: Improved security and privacy.



HTC's "blockchain phone," the Exodus 1. The phone can only be bought with cryptocurrency.

 Price: The Exodus 1 is available for pre-order at a price of 0.15 bitcoins or 4.78 ether tokens, which is approximately \$960.

#### **Commercial Use of Tokens**

- Populous
  - Global invoice trading platform
  - PPT Populous Platform Token
  - Auction model
    - Business can sell invoices to receive funds instead of waiting for the customer to pay
    - Buyers can purchase the invoice and then collect the invoice amount plus interest on the due date
  - Used by over 40,000 businesses in the UK





#### **Commercial Use of Tokens**

### ShipChain

- Developed a business case, followed with ICO
- Blockchain-based transport and logistics solution



South Carolina issued a cease and desist

Bloomberg

Cryptocurrencies

## Blockchain Is About to Revolutionize the Shipping Industry

By <u>Kyunghee Park</u>
April 18, 2018, 10:01 AM CDT *Updated on April 18, 2018, 11:42 PM CDT* 





## The Intersection of State Money Transmitter Licensing (MTL) Laws & Cryptocurrency

- Can't we just register to do business in the state and call it a day?
- With an online-only presence, we don't need a license, correct?
- Can't we launch a pilot or only launch in a few states and then get our licenses later?







#### The Intersection of MTL Laws & Cryptocurrency

- MTL laws protect consumers
- Typically regulate nonbank entities that:
  - Receive and hold consumer funds, or
  - Issue or sell payment instruments (including stored value).
- MTL laws usually require:
  - Minimum capitalization and bonding;
  - Fingerprinting, background checks and financial info on owners;
  - AML compliance program; and
  - Reporting requirements & being subject to audit by state regulators.
- MTL laws have been said to stifle payment innovation when compared to the EU "passporting" system.







#### The Intersection of MTL Laws & Cryptocurrency

- Money Transmitter Licensing (state level)
  - 49 states (plus D.C.) have enacted MTL laws
  - 27 states affirmatively do or do not regulate cryptocurrency
  - Licensing triggers
    - Receiving cryptocurrency for transmission
    - Engaging in transmission or exchange involving cryptocurrency & fiat
    - Issuing or selling cryptocurrency
    - Exercising control or custody over cryptocurrency









### Is it possible to comply without a license?

Short answer: Yes, IF a program is structured so that an exemption applies or a license is not required



Agent of a bank (or other exempt entities)

- Agent of a licensed money transmitter
- Agent of the payee
- Engaging in exempt activities





#### **Challenges**

- Partnering with a bank or licensee = oversight & cost
- Nationwide solution
- To license or not to license
  - Investment
  - Time to market



States are active with inquiries and enforcement actions



#### K&L GATES

## **Recent MTL Developments**



- New law in South Carolina only Montana left
- Eighteen states now expressly include some cryptocurrency activity as requiring a money transmitter or similar license: AL, CO, CT, GA, HI, ID, IL, KS, LA, NM, NY, NC, OR, PA, TN, TX, VT, WA (although some only if fiat involved)



#### K&L GATES

#### **Regulatory Sandboxes**

- Arizona announces first U.S. "Sandbox"
  - Up to 10,000
  - Duration of 10 years
  - Max. Loans: \$15,000 individual/\$50,000 aggregate
  - Max. Money Transmission products or services: \$2,500 individual/\$25,000 aggregate
  - Some limits subject to increase upon showing of adequate capitalization & risk management
  - Consumer disclosures
- Illinois considering it
  - Up to 5,000
  - 12-month test period (possible 6-month extension)
  - No transaction limits







#### Taking a Look at: What is the use case?

- Key questions:
  - Due diligence
  - Business plan
  - Financial backing
  - Legitimacy







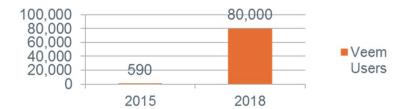




#### Crypto Payments: Case Study - Veem



Instead of relying on a series of correspondents to move money between different jurisdictions around the world, Veem, uses bitcoin to directly connect its clients' bank accounts with suppliers and customers. -- Forbes



"Whatever you do in life, at the end of the day there's a payment.

Payment technology is at the core of what people do and their

livelihood." - Marwan Forzely, Veem CEO



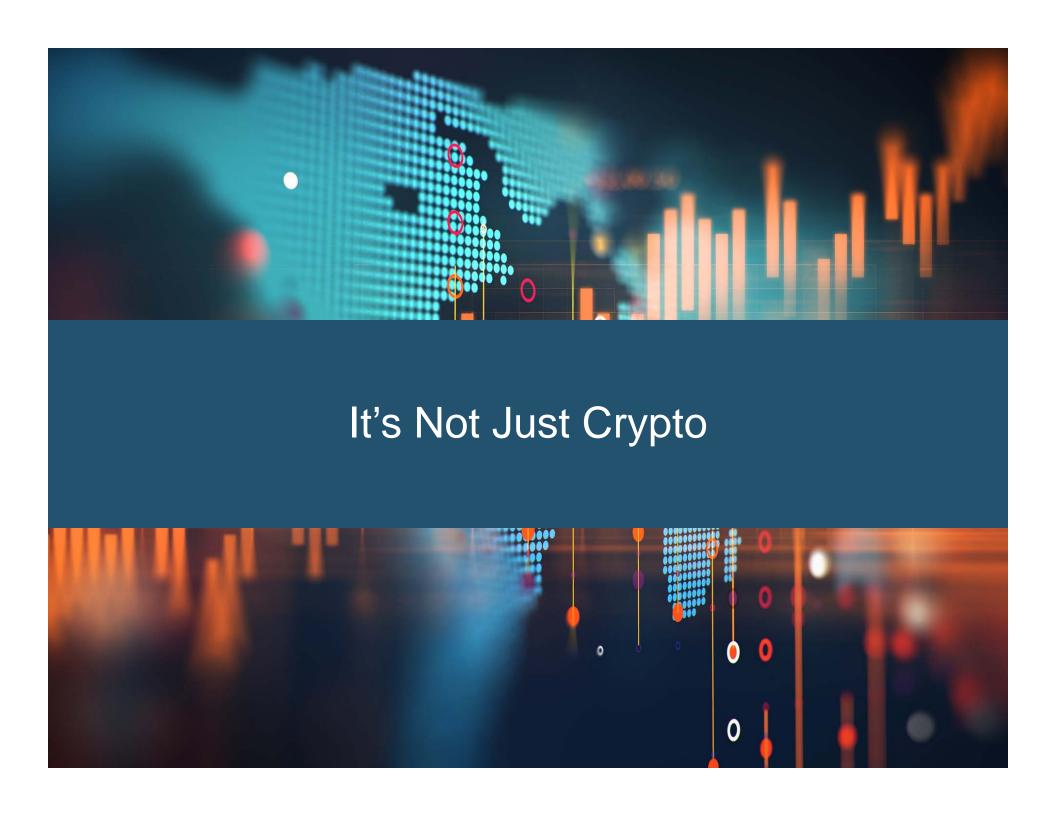
## **Crypto INVESTMENT: Case Study - Veem**



Goldman Sachs' Principal Strategic
Investment Group is strategically backing
blockchain companies that have the
potential to improve service for the bank's
clients, ... . But fellow Veem investor GV ...
has a much more profit-driven motive ...
Veem could be the first bitcoin startup to
go public.

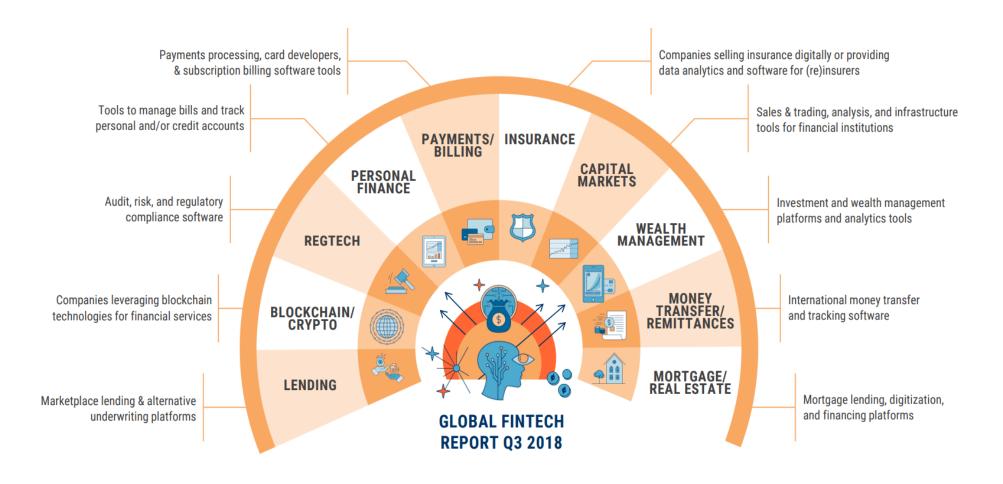
Veem has raised \$25 million to cut intermediary banks out of the payment process altogether. -- Forbes







### Disruptive Fintech is More than Crypto



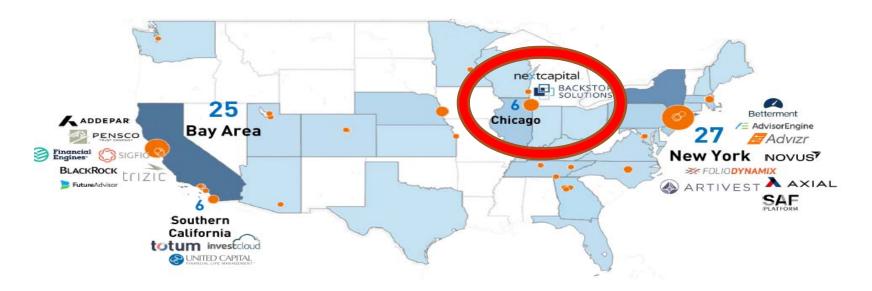


## Hello, Neighbor – Chicago as a Fintech Hub

#### WealthTech - Landscape

U.S. WealthTech Geographic Distribution







### Fintech is Disrupting Everything ... Including IM

WealthTech - Landscape

Industry Landscape – Selected Category Examples











RIAInaBox FORESIDE BasisCode

FT PARTNERS RESEARCH



### Blockchain ... as a Service (BaaS)?

- Blockchain: A "Distribute Ledger echnology"

- Ledger:
  - "a book or other collection of financial accounts of a particular type"
  - Accounting
    - Audit records
    - Supply Chain Management
  - "Stock" ledgers
    - Fractional ownership
    - Securitization
    - **Tokenization**













#### Blockchain as Ownership Ledger for Alt. Assets

Q Search Bloomberg

Markets

## **Blockchain Tested for Making Mortgage Securities Easier to Track**

By Matthew Leising
January 18, 2018, 6:00 AM EST

- ▶ Credit Suisse, Wells Fargo, Western Asset among firms in trial
- ► Distributed ledger technology used to simplify securitization

Most Read

Nov 06, 2018 - Press Releases



#### DTCC Enters Test Phase on Distributed Ledger Project for Credit Derivatives with MarkitSERV & 15 Leading Global Banks

With development complete, firm advances to next phase in its journey to launch its replatformed Trade Information Warehouse (TIW)

### **Blockchain and Really Alternative Assets**



304 Troutman Street, Brooklyn, NY

https://www.meridio.co/

Mæcenas

"A 'decentralized art gallery'
(the works are scattered,
but exhibited together
online) that 'democratizes'
investment in art"
-NY Times



"14 Small Electric Chairs"

- Andy Warhol

<a href="https://www.maecenas.co/">https://www.maecenas.co/</a>

Fractional Ownership in

"Best performing asset class
of the last decade"

Collectible Exotic Cars



1955 Jaguar D-Type

https://bitcar.io/



#### The Obligatory Commercial ...

#### K&L GATES: COUNSEL TO THE GLOBAL FINTECH INDUSTRY<sup>SM</sup>



#### **Broad FinTech Transactional Experience**

Our corporate and transactional attorneys regularly participate in transactions throughout the lifecycle of fintech companies from inception and seed financings, through subsequent rounds of growth equity and debt financing through an IPO or a liquidity event via a sale to a strategic or financial buyer.

We represent virtually every type of participant in these transactions, including the companies themselves, their founders, venture capital and other growth equity funds, private equity buyers, lenders, strategic venturing and corporate development groups of leading national banks and other financial services companies as well as corporate acquirers.

More than \$50 BILLION

has been invested in almost

2,500 FinTech companies

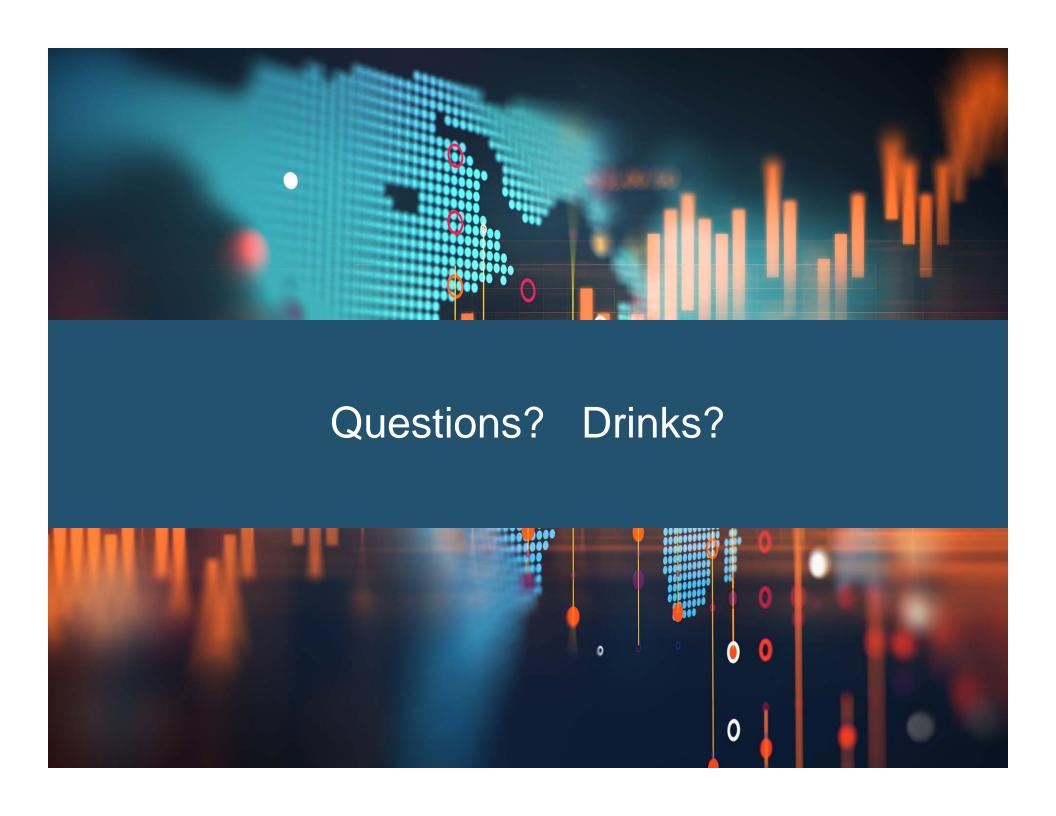
since 2010, as these innovators redefine the

the we store

way in which we store,

save, borrow, invest, move, spend, and protect money.

REPRESENTATIVE FINTECH CLIENTS AND DEALS



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