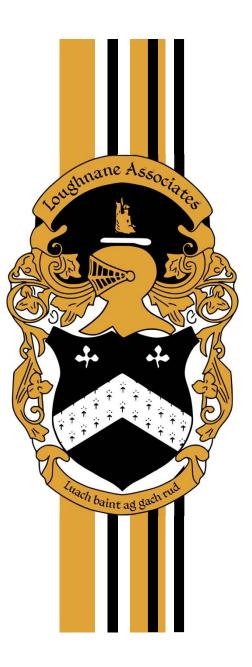
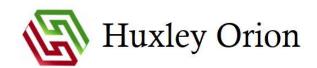
# **Cryptocurrency and More**



Loughnane Associates LLC

Value Touches Everything



# Agenda

- •What are Virtual Assets
- •Virtual Asset Service Providers
- •The Process
- •Intangible Property and NFT's
- •Discussion of Surface, Deep, Dark Web
- •The Onion Router



# **Virtual Currency**

www.valuetoucheseverything.com Training Purposes Only

Cryptocurrency and More





# **Convertible Virtual Currency**

- A medium of exchange that operated like a currency in some environments
- Does not have legal tender status
- "Convertible" virtual currency has an equivalent value in real currency or acts as a substitute for real currency

"New types of anonymity-enhanced CVCs have emerged that further reduce the transparency of transactions and identities as well as obscure the source of the CVC through the incorporation of anonymizing features, such as mixing and cryptographic enhancements"

"Mixing or tumbling involves the use of mechanisms to break the connection between an address sending CVC and the addresses receiving CVC."

www.valuetoucheseverything.com Training Purposes Only





### The Most Popular Cryptocurrencies 2021

1. Bitcoin	7. Tether	Bitcoin	Pricing
2. Ethereum	8. Monero	Date	Price
3. Cardano	9. Litecoin		
4. Polkadot		December 31, 2020	\$29,001.72
	10. USD Coin	December 31, 2019	\$7,193.60
5. Chainlink	11. Bitcoin Cash	December 31, 2018	\$3,742.70
6. Ripple	12. IOTA	December 31, 2017	\$14,156.40
	13. Dogecoin	December 31, 2016	\$963.74



# **Privacy Coins**



#### What they are:

- Cryptocurrencies that power private and **anonymous blockchain transactions**
- They obscure their origin and destination.
  - Impossible to determine who owns how many coins, or who is sending and receiving transactions.
  - Only transaction participants (senders, recipients, or those with certain "view" keys) can view transaction data.
  - Mixing multiple transactions with each other to elude chain analysis.
- While privacy coins are not banned as of yet, they are making things difficult for both countries and exchanges that are subject to information-sharing requirements due to regulations like the FATF Travel Rule.
  - Many exchanges have delisted

# The challenge is how these coins will align with FATF compliance requirements

#### How they work:

- Stealth addresses require a sender to generate a new address for every transaction sent in order to avoid being linked to a receiver.
  - Monero uses a version called the **dual-key stealth** address protocol (DKSAP).
- **CoinJoin** A coin mixer that merges transactions from various individuals into a single transaction and then disburses them to their respective users using new addresses.
- **Zk-SNARKs** (Zero-Knowledge Succinct Non-Interactive Argument of Knowledge) allow cryptocurrency holders to prove a transaction's validity without divulging critical identifying information such as the parties involved and the account balances.

# Chainalysis and CipherTrace both say they have tools to trace Privacy Coins

www.valuetoucheseverything.com Training Purposes Only

Cryptocurrency and More



# Revision to Recommendation 15 New Technologies (updated 2018)

Money laundering or terrorist financing risks that may arise in relation to

- (a) the development of new products and new business practices, including new delivery mechanisms, and
- (b) the use of new or developing technologies for both new and pre-existing products.

Financial institutions should conduct risk assessment prior to the launch of the new products, business practices or the use of new or developing technologies and take appropriate measures to manage and mitigate those risks.

To manage and mitigate the risks emerging from virtual assets, countries should ensure that virtual asset service providers are regulated for AML/CFT purposes

www.valuetoucheseverything.com Training Purposes Only

Cryptocurrency and More



# **Virtual Asset Service Providers**

www.valuetoucheseverything.com Training Purposes Only

Cryptocurrency and More





#### Department of the Treasury Financial Crimes Enforcement Network

Guidance

FIN-2013-G001

Issued:March 18, 2013Subject:Application of FinCEN's Regulations to Persons Administering,<br/>Exchanging, or Using Virtual Currencies



#### Advisory on Illicit Activity Involving Convertible Virtual Currency

Criminals continue to exploit virtual currency to support illegal activity, money laundering, and other behavior endangering U.S. national security, including through entities facilitating its anonymous use.



### "Virtual Assets" and "Virtual Asset Service Providers"

www.valuetoucheseverything.com Training Purposes Only

Cryptocurrency and More



# **Virtual Asset Service Providers**

- Are classified as Money Services Businesses
- Remember the requirement for foreign registration
- FATF defines Virtual Asset Service Provider (VASP) as:
  - Any natural or legal person who is not covered elsewhere under the FATF Recommendations
  - As a business conducts one or more of the following activities or operations for or on behalf of another natural or legal person:
    - exchange between virtual assets and fiat currencies;
    - exchange between one or more forms of virtual assets;
    - transfer of virtual assets;
    - safekeeping and/or administration of virtual assets or instruments enabling control over virtual assets;
    - and participation in and provision of financial services related to an issuer's offer and/or sale of a virtual asset.

www.valuetoucheseverything.com Training Purposes Only

Cryptocurrency and More







ASSET SERVICE PROVIDERS



### **Travel Rule**

All financial institutions are required to pass on certain information to the next financial institution, in certain funds transmittals involving more than one financial institution

#### **Transmitter Side**

- ✓ Name, Address
- ✓ Account Number if used
- ✓ Identity of Financial Institution
- ✓ Amount Transmitted
- ✓ Execution Date
- ✓ Identity of Recipient's Financial Institution

#### **Recipient Side**

- ✓ Name, Address
- ✓ Account Number
- ✓ Any other specific identifier

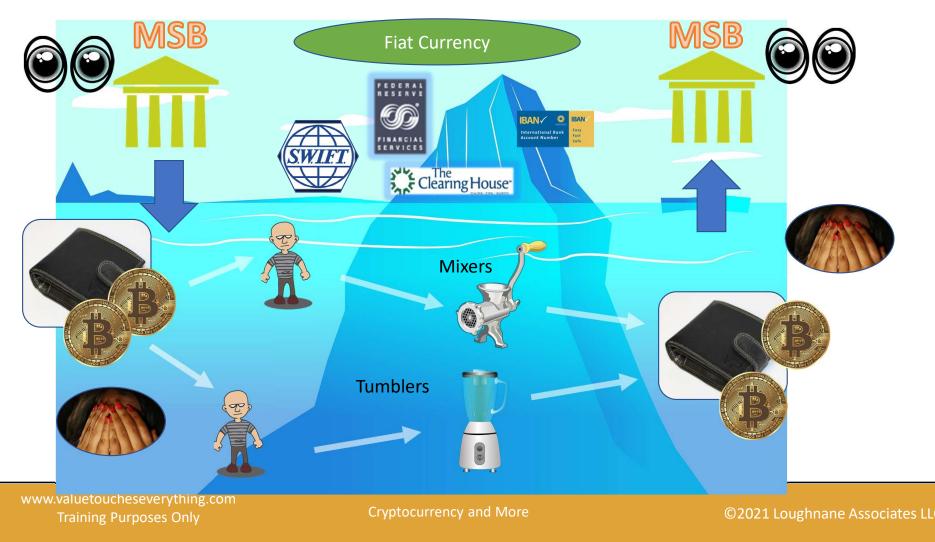
#### **Intermediary Bank**:

- Required to pass on all information from Transmitter Bank
- ✓ Or proceeding Intermediary

#### **Exception** - If Transmitter and Recipient are the same Financial Institution

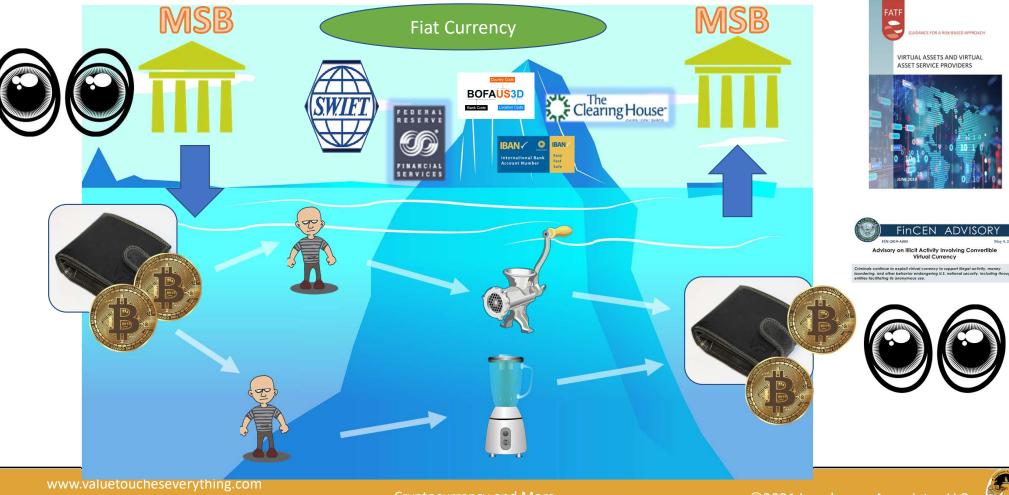
www.valuetoucheseverything.com Training Purposes Only Cryptocurrency and More ©2021 Loughnane Associates LLC

### Where are we were





### **The New**



©2021 Loughnane Associates LLC

Cryptocurrency and More

Training Purposes Only



TRADEOGRE	Markets	Help							0
🜔 BTC Marke	ts						Search:		-
C	urrency		Market	Change :	Price	Volume 1	High	Low	
(	Pirate		BTC-ARRR	▲ 0.50%	0.00008289	22.23424701	0.00009130	0.00008153	
	ô Dero		BTC-DERO	¥ 1.41%	0.00027899	6.43157984	0.00029738	0.00026983	
	Monero			▼ 0.82%	0.00585179	5.11470150	0.00610000	0.00584000	
¢	Ethereum		BTC-ETH	<b>▲ 4.31%</b>	0.06753244	2.02610646	0.06890000	0.06461576	
	Litecoin			♥ 0.5%	0.00359533	1.69652014	0.00364975	0.00354095	
	<li>Ergo</li>		BTC-ERG	▲ 16.26%	0.00016160	1.69407104	0.00016500	0.00013761	
(	🗿 Haven			▼ 4.34%	0.00009909	1.49262863	0.00011197	0.00009900	
\$	PRCYCoin		BTC-PRCY	₹ 7.82%	0.00002368	1.48678033	0.00002607	0.00002305	
;	imes Ripple			▼ 1.07%	0.00001849	1.14758463	0.00001897	0.00001815	
	Wownero		BTC-WOW	▼ 0.96%	0.00000617	0.48844337	0.0000632	0.00000599	
0	Dogecoin			▼ 1.29%	0.00000460	0.35885775	0.00000480	0.00000444	
	🔗 Aeon		BTC-AEON	₹ 0.94%	0.00002317	0.32850383	0.00002430	0.00002034	
	🖴 Zano			▲ 8.86%	0.00005984	0.27004970	0.00006256	0.00005496	
0 2021 TradeOgre 🛜	Online: 1129	BTC: \$39,	726.00 LTC: \$144.22						

#### TRADEOGRE Markets Help

#### Fee Schedule

TradeOgre currently implements a 0.2% trading fee on all fulfilled orders.

Withdrawal fees are dynamically calculated based on the specific coin technology, we strive to have minimal withdrawal fees.

#### Withdrawal Fees

Ô	ACM Actinium 0.01000000		ADA Cardano 0.20552803	æ	AEON Aeon 0.03290744		ARQ ArQmA 0.00000644	2	ARRR Pirate 0.01000000	BBS	BBS BBSCoin 50.00000000
B	BCN Bytecoin 0.50000000		BEAM Beam 0.00100000	:(=):	BITC BitCash 0.01000000	*	BKC Balkancoin 0.10000000		BLOC BLOC.money 0.10000000	₿	BTC Bitcoin 0.00005000
₿	BTCP Bitcoin Private 0.01000000		CASH Litecash 0.00000100	C	CCX Conceal 0.10000000	C	CIV Civitas 0.01000000		COAL BitCoal 0.01000000	U	CUT CUTcoin 0.00268981
	D Denarius 0.10000000	٦	DASH Dash 0.01000000		DERO Dero 0.00696600	•	DOGE Dogecoin 2.47892608	Σ	ERG Ergo 0.10000000	-	ETH Ethereum 0.01844042
¥	ETN Electroneum 0.36192000	$\otimes$	ETNX Electronero 0.00072000	×	ETNXP ElectroneroP 0.36000000	se	FBF FreelaBit 0.10000000	50	FLUX Flux 0.01000000	$\bigcirc$	GHOST Ghost 0.01000000
0	GPKR Gold Poker 0.01000000	G	GRFT Graft 0.00781161	<"	GRIMM Grimm 0.00000100	8	GRIN Grin 0.02884800		GRLC Garlicoin 0.01000000	8	INC Incognito 0.00002100
NTU	INTU INTUcoin 10.00000000	0	IRD Iridium 1.00000000	K	KRB Karbo 0.20000000		LNS Lines 0.10000000		LTC Litecoin 0.01000000	γ	LTHN Lethean 0.02240615
leOgre	🛜 Online: 1131 BTC	: \$39,7	26.00 LTC: \$144.22				MWCMWC				

PROS

Simplest registration ever
No KYC verification
Low fees

•Neat trading interface

Accepts worldwide

customers

#### CONS

No way of buying crypto with fiat
No official support
No way of marking favorite coins
Ugly charts

www.valuetoucheseverything.com Training Purposes Only





### Use of P2P as an MSB

Eric Powers willfully violated the BSA's registration, program, and reporting requirements from December 6, 2012 through September 24, 2014.

Mr. Powers failed to:

- (a) register as an MSB with FinCEN;
- (b) establish and implement an effective written anti-money laundering (AML) program;
- (c) detect and adequately report suspicious transactions;
- (d) report currency transactions

Civil Penalty of \$35,350

- Over 200 transactions involving the physical transfer of more than \$10,000 in currency, yet failed to file a single CTR
- 160 purchases of bitcoin for approximately \$5 million through in-person cash transactions, conducted in public places such as coffee shops, with an individual identified through a bitcoin forum
- 150 cash transactions were in-person and were conducted in separate instances for over \$10,000 during a single business day. Each of these 150 transactions necessitated the filing of a CTR

www.valuetoucheseverything.com Training Purposes Only





- In operation since 2007
- Says it is based in Panama, but the Panamanian government says no
- Once a user obtains an account, they can transfer Perfect Money units to other users inside the system
- Southern Methodist University 2011 study- Liberty Reserve and Perfect Money were tow of the most widely accepted digital currencies for online Ponzi schemes
- Of 1,000 websites that linked to Perfect Money, they found 70 percent that were Ponzi schemes

All Account that belong to US Citizens/Residents/US Companies will be disabled within 15 days 15.06.13

Dear Customers,

In line with our policy, all accounts that belong to US Citizens/Residents/US Companies will be disabled on 1st of July. If you still have funds on your account, please take appropriate and timely steps to withdraw the balance. Please note that after 1st of July, no transactions can be executed at accounts that fall into the above mentioned category.

Please do not postpone taking action to withdraw you balance.

www.valuetoucheseverything.com Training Purposes Only



### **The Process**

www.valuetoucheseverything.com Training Purposes Only

Cryptocurrency and More



### Let's work with Bitcoin

### What is Bitcoin?

- An electronic payment system based on mathematical proof
- Decentralized
- Low transaction fees?
- Built on a "Blockchain" technology which ties to a PKI infrastructure
  - Public Key
  - Private Key
  - Proof of Work
- Owner is determined by the last transaction

#### How Does a Transaction Work?

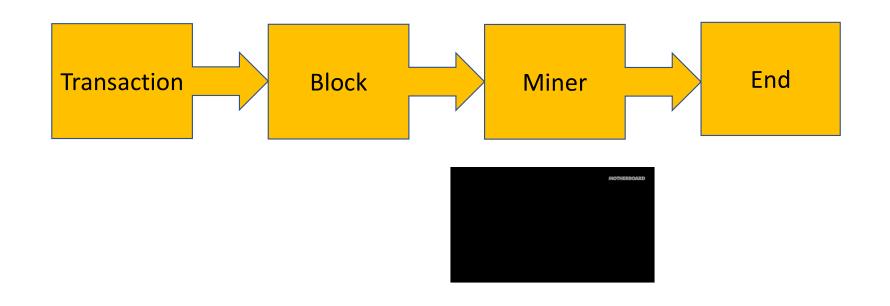
- Requires a Bitcoin wallet, a Bitcoin and a wallet address
- Transaction is placed in a Transaction Block
- Authenticated by "Bitcoin Miners" who get paid in Bitcoin as they authenticate a transaction
- Transfer is verified and distributed to public ledgers

#### Who is Satoshi Nakamoto?

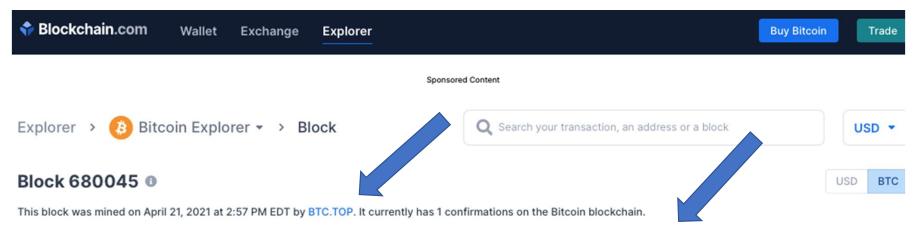




### **Process Flow**



www.valuetoucheseverything.com Training Purposes Only Cryptocurrency and More ©2021 Loughnane Associates LLC



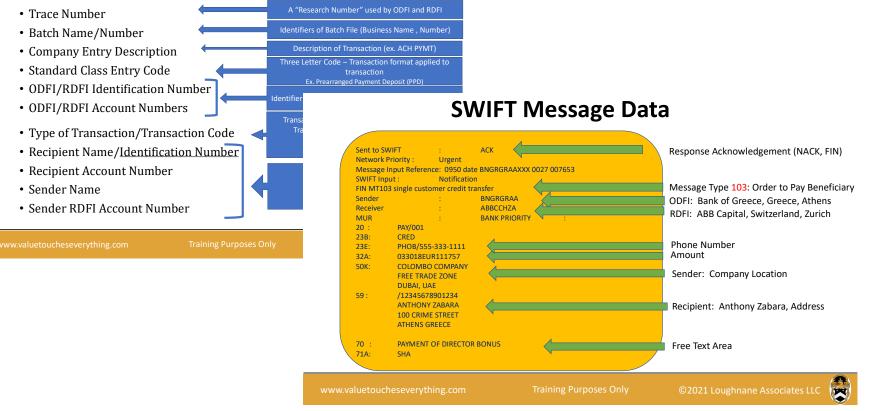
The miner(s) of this block earned a total reward of 6.25000000 BTC (\$346,854.88). The reward consisted of a base reward of 6.25000000 BTC (\$346,854.88) with an additional 3.18375474 BTC (\$176,688.14) reward paid as fees of the 3162 transactions which were included in the block. The Block rewards, also known as the Coinbase reward, were sent to this address.

A total of 62,295.57728239 BTC (\$3,457,203,947.41) were sent in the block with the average transaction being 19.70132109 BTC (\$1,093,359.88). Learn more about how blocks work.

www.valu			
Number of Transactio	ons	3162	
Miner		BTC.TOP	
Height		680045	
Timestamp		2021-04-21 14:57	
Confirmations		1	
Hash		00000000000000000000000000000000000000	Î







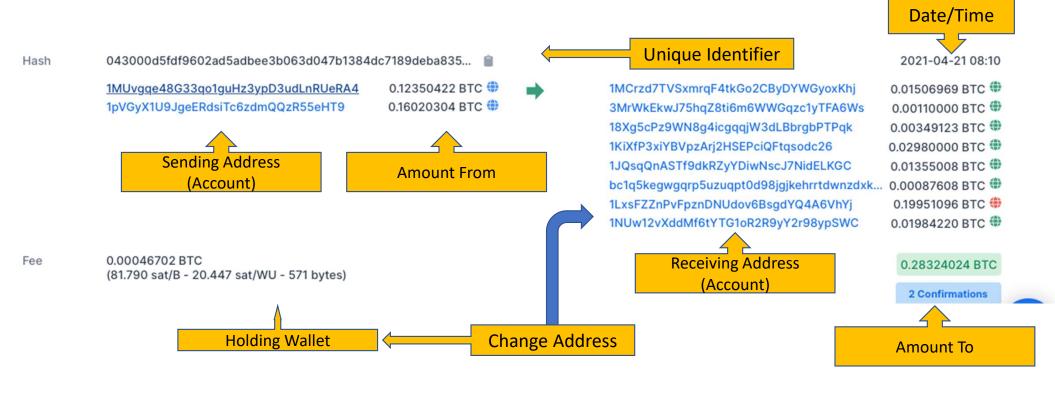
www.valuetoucheseverything.com Training Purposes Only

Cryptocurrency and More

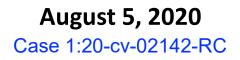


💠 Blockcha	ain.com Wallet	Exchange Exp	lorer			Buy Bitcoin	Trade
Summary	0					USD	BTC
					ction currently has 2 confirmations on the net is now \$15,718.92. Learn more about how tran		f this
Hash	043000d5fdf9602ad5adbe	ee3b063d047b1384d	lc7189deba835 📋			2021-04-21	08:10
	1MUvgqe48G33qo1guHz3y 1pVGyX1U9JgeERdsiTc6zdr	and the second	0.12350422 BTC 🌐 0.16020304 BTC 🌐	→	1MCrzd7TVSxmrqF4tkGo2CByDYWGyoxKhj 3MrWkEkwJ75hqZ8ti6m6WWGqzc1yTFA6Ws 18Xg5cPz9WN8g4icgqqjW3dLBbrgbPTPqk 1KiXfP3xiYBVpzArj2HSEPciQFtqsodc26 1JQsqQnASTf9dkRZyYDiwNscJ7NidELKGC bc1q5kegwgqrp5uzuqpt0d98jgjkehrrtdwnzds 1LxsFZZnPvFpznDNUdov6BsgdYQ4A6VhYj 1NUw12vXddMf6tYTG1oR2R9yY2r98ypSWC	0.00349123 E 0.02980000 E 0.01355008 E	
Fee	0.00046702 BTC (81.790 sat/B - 20.447 sat/\	WU - 571 bytes)				0.28324024 2 Confirmat	
	etoucheseverything.com ing Purposes Only	۱ 	Cryptocurrency an	nd More	©2021 Lo	ughnane Assoc	iates LLC

# The information is here (Blockchain.info)







Placement:

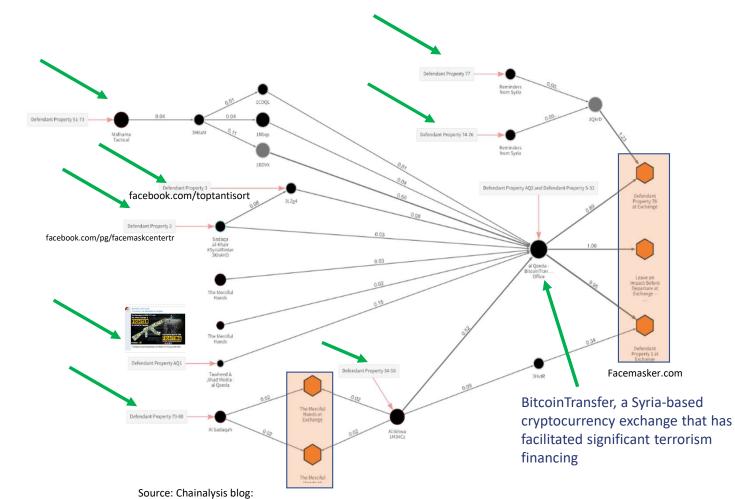
Money is generated from a number of sites

#### Layering:

Transferred to the Bitcoin Transfer Exchange in Syria.

#### Layering/Integration:

From there, the money is moved to accounts at larger, international exchanges



"Chainalysis in Action: Department of Justice Announces Takedown of Two Terrorism Financing Campaigns with Help from Blockchain Analysis" August 13, 2020

www.valuetoucheseverything.com Training Purposes Only

Cryptocurrency and More



### **Transaction Views**

### Public View

#### MSB View

Sender's bitcoin address Recipient's bitcoin address Amount Timestamp

Blockchain.info

Sender ID (on file) All MSB users that have transacted with the address All transaction notes ID information, complete profile and transaction history

> KYC Requirements Transaction Monitoring

3<sup>rd</sup> Party Services

Mapping addresses on the blockchain to identify source and destination of funds

www.valuetoucheseverything.com Training Purposes Only

Cryptocurrency and More





### **Public View**

💠 Blockchain.com	Wallet	Exchange	Explorer		Buy Bitcoin	Trade
				Sponsored Content		
Explorer > (3) Bitc	oin Explo	rer 🕶		Q 15K9Zj1AU2hjT3ebZMtWqDsMv3fFxTNwp	. ⊗	USD -

#### Bitcoin

Blockchain information for Bitcoin (BTC) including historical prices, the most recently mined blocks, the mempool size of unconfirmed transactions, and data for the latest transactions.

\$55,496.78 Price →	127.777 EH/s Estimated Hash Rate →	242,727 Transactions (24hrs) →	1.949m BTC Transaction Volume →	127,892 BTC Transaction Volume (Est) →		
Price		1 Day - Mempoo	l Size (Bytes)	1 Dav 💌		
www.valuetouche Training Pur		Cryptocurrency a	nd More	©2021 Loughnane	e Associates LLC	

### Method to Identify/Track a Bitcoin Address Owner

- Personal Information Posted: Collecting donations on a personal blog
- Posting an address on a website using their real name as owner of registered domain
- Use real identity in a forum with address
- Use of address in social media (facebook, LinkedIn, etc)
- Tracking Outside Purchases (name and shipping information?)
- Searching for Thin Client or Hosted Wallet Usage
- IP transactions traced by the Internet Service Provider
- Identify the exchange holding the account who logs transactions
- Using Transaction Analysis software firms such as Elliptic or Chainalysis

www.valuetoucheseverything.com Training Purposes Only

Cryptocurrency and More



# Blockchain Analysis: Suspect Addresses

IN DAY SALED	Address	15K9Zj1AU2hjT3ebZMtWqDsMv3fFxTNwpf
(비)가 이 (비) (제·아이) 이	Format	BASE58 (P2PKH)
16222A)	Transactions	23
	Total Received	0.09036343 BTC
	Total Sent	0.08945595 BTC
Payment Request Donation Button	Final Balance	0.00090748 BTC



#### Transactions

Hash	7adc6ea16065560d2bb89c1f1dd8b04847ecd5c145af	f3b631			2020-11-05 08:31
	16wBGWBW7JSBxgjPZqHXa2GaJtLsB 0.0009627	79 BTC 🗢	+	15K9Zj1AU2hjT3ebZMtWqDsMv3fFxT 1C87H84PsYMfM3Bn9pyr9Dw2ATEkb	0.00006300 BTC @ 0.00022857 BTC @
Fee	0.00067122 BTC (297.000 sat/B - 74.250 sat/WU - 226 bytes)				+0.00006300 BTC
Hash	f73a83969fca2ffc4ff3ffec4e9b7579d5d1c3300bf41f9	913889			2020-11-05 08:05
	1M6qucdUbrqhs544uZvEtTRWLxaNVe         0.0011155           1M6qucdUbrqhs544uZvEtTRWLxaNVe         0.0010000		+	15K9Zj1AU2hjT3ebZMtWqDsMv3fFxT 16wBGWBW7JSBxgjPZqHXa2GaJtLsB	0.00004200 BTC @ 0.00096279 BTC @
Fee	0.00111078 BTC (297.796 sat/B - 74.449 sat/WU - 373 bytes)		-		+0.00004200 BTC
Hash	504ee1adf4c22111b5f3cf4ce3b27a3d9b305e67ad6c4	431fce			2020-10-28 01:59
	19aoKUoE6cdgzXwB2hDBWeVjYyKwN 0.0004194	17 BTC 🖶	+	15K9Zj1AU2hjT3ebZMtWqDsMv3fFxT 113LbBc4qA922h8Kx8wDkUWtuGrpfs	0.00001000 BTC + 0.00011816 BTC +

### Money going to... Money coming from...

# Identify other suspect addresses

www.valuetoucheseverything.com Training Purposes Only

Cryptocurrency and More





# **Blockchain Analysis: Clustering**

Association with suspect addresses

Pull history of the use of these addresses

1MCrzd7TVSxmrqF4tkGo2CByDYWGyoxKhj 3MrWkEkwJ75hqZ8ti6m6WWGqzc1yTFA6Ws 18Xg5cPz9WN8g4icgqqjW3dLBbrgbPTPqk 1KiXfP3xiYBVpzArj2HSEPciQFtqsodc26 1JQsqQnASTf9dkRZyYDiwNscJ7NidELKGC bc1q5kegwgqrp5uzuqpt0d98jgjkehrrtdwnzdxk... 1LxsFZZnPvFpznDNUdov6BsgdYQ4A6VhYj 1NUw12vXddMf6tYTG1oR2R9yY2r98ypSWC

www.valuetoucheseverything.com Training Purposes Only

Cryptocurrency and More



#### Address 0

USD BTC

This address has transacted 402 times on the Bitcoin blockchain. It has received a total of 767.11468021 BTC (\$29,102,044.97) and has sent a total of 767.11468021 BTC (\$29,102,044.97). The current value of this address is 0.00000000 BTC (\$0.000



1AVKdnyWRGJBqSsH3GrvG5fapdTapBnW9u
BA5E58 (P2PK)0
402
767.11468021 BTC
767.11468021 BTC
0.00000000 BTC

#### Transactions

Hash	19d0e4c4f79f3d907e05fa2654e571ab9767b8ef	c968ba33ecc3			2021-03-15 11:20
	1AVKdnyWRGJBqSsH3GrvG5fapdTapBnW9u	2.272727 BTC 😑	+	1QEojScgoRXJfwMfdWFeVtLWCQoo6BFUXg	0.08899316 BTC @
					-1.14116106 BTC
					5 Confirmations
Fee	0.00026502 BTC (81.046 sat/B - 20.261 sat/WU - 327 bytes)				
Hash	e8c4eab972d7388864480f684a7c07080afeac20 1AVKdnyWRGJBqSsH3GrvG5fapdTapBnW9u 1.43		+	1QEojScgoRXJfwMfdWFeVtLWCQoo6BF	2021-03-24 09:40 UXg 🛛 🕲
					+1.14116106 BTC
Fee	0.00023755 BTC (81.075 sat/8 - 20.269 sat/WU - 293 bytes)				

www.valuetoucheseverything.com Training Purposes Only

Cryptocurrency and More



		rch your transaction, an address or a	
LAS	Q Search for things like address, transaction, block	All Blockchains 🗢	
HIBIT	There are 2 blockchains with result(s) to 1QEojScgoRXJfwMfdWFeVtLWCQoo6BF	your search UXg :	
	BTC Address		
	SCH Address		
	_!_		
	I I		
You've thou	ight about it, now it's time.		





Explorer > (a) Bitcoin Explorer - > Address

Q Search your transaction, an address or a block

#### Address 0

his address has transacted 15 times on the Bitcoin blockchain. It has received a total of 0.29560047 BTC (\$11,214.20) and has sent a total of 0.20660731 BTC (\$7,838.0 urrent value of this address is 0.08899316 BTC (\$3,376.14).

Rinnsand Conterd



Address	1QEoJSogoRXJfwMfdWFeVtLWCQoo68FUXg	
Format	BASESB (P2PKH)	
Transactions	15	
Total Received	0.29560047 BTC	
Total Sent	0.20660731 BTC	
Final Balance	0.08899316 BTC	

#### ransactions 0

www.valuetoucheseverything.com Training Purposes Only

Cryptocurrency and More

USC



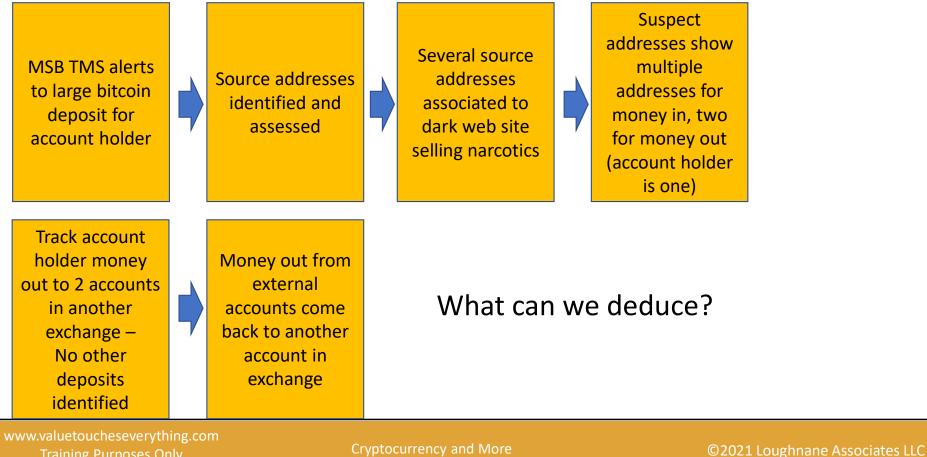
Hash	bc8339e27493e7d12d5725da5b87e73ba3d165	5e62e69244fbadt25_			2021-05-
	1Cdbg44GsMMKrk1wLTwrrVFowBomsZ4Pqn 1HyU6o5UegF2yWYsK31LL3WEMnstNPFFM1 1BNF6K8ADxx6V4Hf33wjT75uZd9hMpU2GN	0.01932200 BTC 0.00497700 BTC 0.00450000 BTC	+	1GMkLqxaNkQ64gTe9A7kMU9dvqxiKq1NEf	0.3534820
	TAdrrsLlaghjgaJul4553z3fSnNa3XMTCK TKSxdvBNRA2r4XoxASgAwKoupfLWBUpYxZ 1w7eZ6LM4vaemwmKeVuxdXyJjHmpThdmN	0.05460532 BTC 0.00511352 BTC 0.01515251 BTC			
	1AR9PNzRxsorrw1KRnoGbCnwFSsY51GnFQ 1Kk6j1sPDsg2yFxa71iBS7dvBWly6RWWsT 13KX1QlwKsJ8Mm3e1pbkkv3Y9em1Qnm43x	0.00153112 BTC @ 0.00539101 BTC @ 0.02548423 BTC @			
	1PyDCfDxdYydrVnqmpaYrrggRsJDqTMSZr Load more inputs (10 remaining)	0.00132391 BTC			
ee	0.00430206 BTC (144.171 sat/8 - 36.043 sat/WU - 2984 bytes)				-0.124267
					1 Confirm
Hash	19d0e4c4f79f3d907e05fa2654e571ab9767b8e	fc968ba33ecc369b			2021-05-
	1AVKdnyWRGJBqSsH3GrvG5fapdTap8nW9u	1.14116106 BTC	+	1QEojSogoRXJfwMfdWFeVtt WOODERE IX 1HBbdUFaoznouaKz8FHnun 14jfTo4WdiX5sV64xQZ6b1wn850CDJNu2L	0.00000000

www.valuetoucheseverything.com Training Purposes Only

Cryptocurrency and More

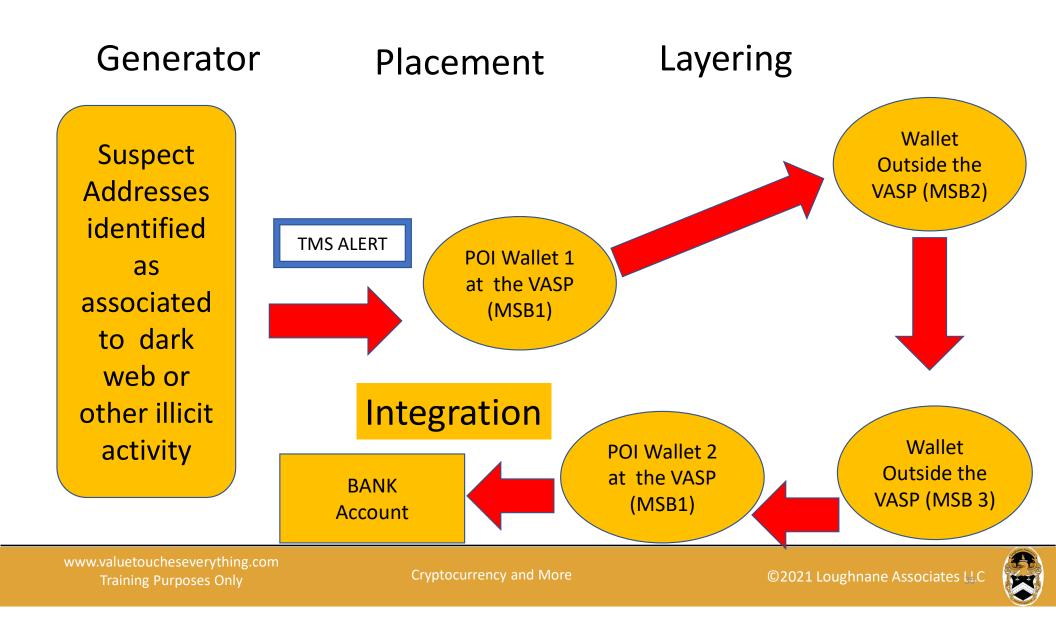


### **Money Laundering Scenario**



**Cryptocurrency and More** 

**Training Purposes Only** 



# **Consider Third Party Options**

- •Fast way to identify suspect clusters
- •There are analyst providers who have prepared the attribution to addresses and have them clustered

### •OSINT third party providers such as

- •Blue Lights Digital Training,
- •Flashpoint,
- •others

www.valuetoucheseverything.com Training Purposes Only



# **Chain of Custody**

- •Know your organization's policies
- •There needs to be complete audit trails
- Chain of custody and accountability for activity is critical
- Consult, team with experts, especially if you are building a case
  - You need the tools
  - You need the testimony

www.valuetoucheseverything.com Training Purposes Only



# Don't Forget the "Old School" Financial Investigation Methods

- How does the suspect purchase equipment and material related to the crime?
- Shipments How paid? Cash? Credit Card? Debit Card? Prepaid Access?
- Track the credit card transactions
- Track the prepaid access cards?
  - How is he loading them? At the counter at Walmart? What is he doing to load them?
- Is the Exchange account associated to a bank account?
  - Do the bank records show transfers/receipts from a VASP?
  - Where does the cryptocurrency convert to fiat? And what happens to the money?

Subpoenas, Warrants, Seizures, Interviews, Informants, Cellphone and Surveillance, and so much more

www.valuetoucheseverything.com Training Purposes Only



### **Pocket Litter!**

# Element peach process pyrrhic...

# Keep it!

www.valuetoucheseverything.com Training Purposes Only

Cryptocurrency and More



# Intangible Property and Non-Fungible Tokens

www.valuetoucheseverything.com Training Purposes Only

Cryptocurrency and More



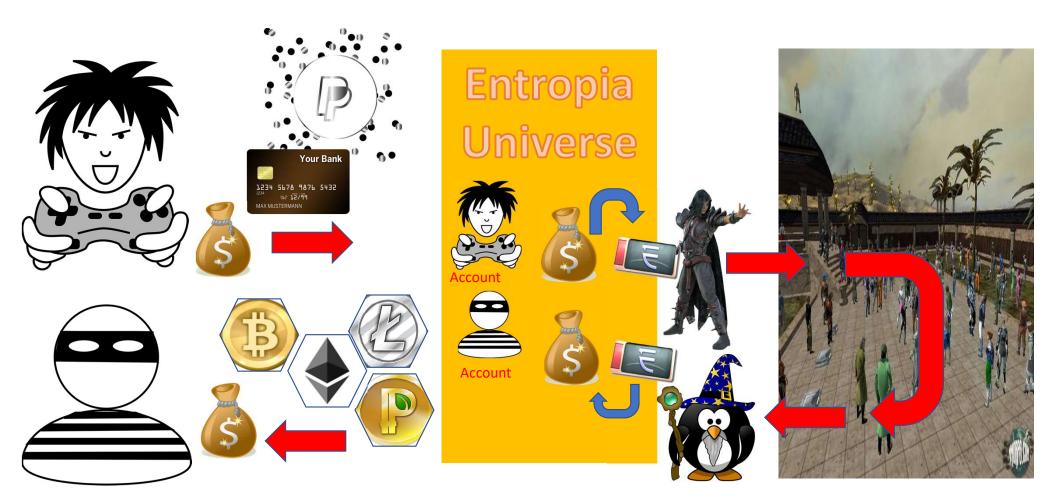
### "Intangible Property" No physical substance



- Intellectual property
- Non-fungible tokens
- Copyrights
- Trademarks
- Patents
- Virtual World Assets

www.valuetoucheseverything.com Training Purposes Only





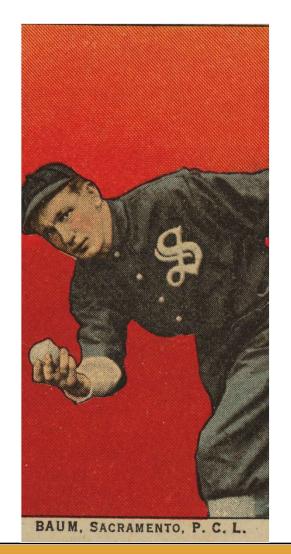
www.valuetoucheseverything.com Training Purposes Only

Cryptocurrency and More



### **Non-Fungible Tokens**

- NFTs are unique cryptographic tokens that exist on a blockchain and cannot be replicated.
- NFTs can be used to represent real-world items like artwork and real-estate.
- "Tokenizing" these real-world tangible assets allows them to be bought, sold, and traded more efficiently while reducing the probability of fraud.
- NFTs can also be used to represent peoples' identities, property rights, and more.





www.valuetoucheseverything.com Training Purposes Only

Cryptocurrency and More



E Larva Labs

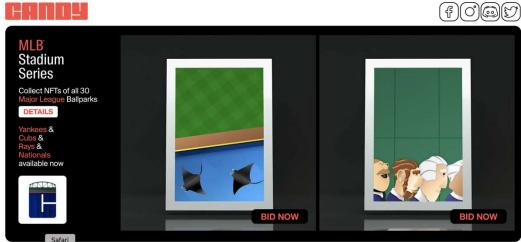
Writing Projects About

#### **CryptoPunks Overview**

#### **Punks for Sale**



#### FUUT



Training Purposes Only

#### Cryptopunks / 3621



#### CryptoPunk 3621

One of 3840 Female punks.

#### Accessories

Mol	nawk			
441	punks	have	this.	

Cigarette 961 punks have this.

#### **Current Market Status**

Earring

2459 punks have this.

This punk is currently owned by address 0xf4a775. This punk is currently for sale by owner for 20E (\$38,123). There are currently no bids on this punk.

#### **Transaction History**

Туре	From	То	Amount	Txn
Offered			20Ξ (\$33,764)	Mar 28, 2021
Offer Withdrawn				Mar 12, 2021
Offered			252 (\$44,471)	Mar 11, 2021
Offered			20Ξ (\$36,995)	Mar 10, 2021
Sold	0xb6be4d	0xf4a775	0.09E (\$42)	Dec 03, 2017
Offered			0.09Ξ (\$26)	Nov 01, 2017
Claimed		0xb6be4d		Jun 23, 2017



### Non-Fungible Token (NFT)

- Cryptographic assets on blockchain with unique identification codes and metadata that distinguish them from each other
- Unlike cryptocurrencies, they cannot be traded or exchanged at equivalency. This differs from fungible tokens like cryptocurrencies, which are identical to each other and, therefore, can be used as a medium for commercial transactions. They can be traded or exchanged, one for another.
- For example, one Bitcoin is fungible because it is always equal in value to another Bitcoin
- Made unique and irreplaceable, thereby making it impossible for one non-fungible token to be equal to another
- They are digital representations of assets and have been likened to digital passports because each token contains a unique, non-transferable identity to distinguish it from other tokens
- Just like Bitcoin, NFTs also contain ownership details for easy identification and transfer between token holders
- Owners can also add metadata or attributes pertaining to the asset in NFTs. For example, tokens
  representing coffee beans can be classified as fair trade. Or, artists can sign their digital artwork with their
  own signature in the metadata

www.valuetoucheseverything.com Training Purposes Only





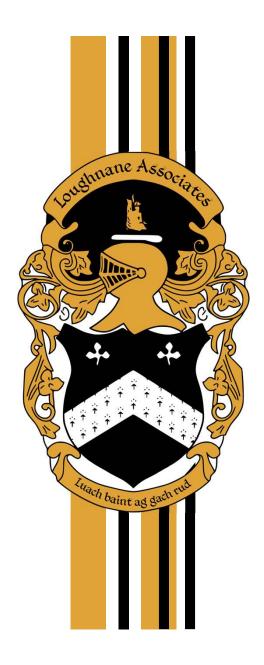
### Key Takeaways

- •Pseudo Anonymous
- Watch for external disclosures
- Watch the Pocket Litter
- •MSBs have a special value
- •Consider using experts for darkweb and virtual assets





# Questions



Loughnane Associates LLC

Value Touches Everything

