





# Bitcoin and Blockchain Basics



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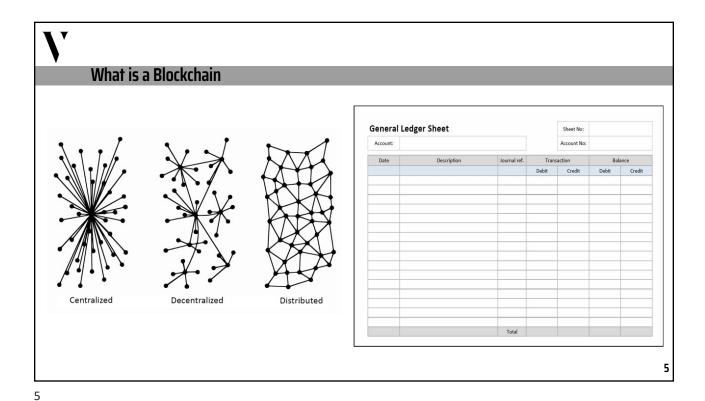
# What is Cryptocurrency?

**Cryptocurrency:** A digital currency in which transactions are verified and records maintained by a decentralized system (blockchain) using cryptography, rather than a centralized authority.





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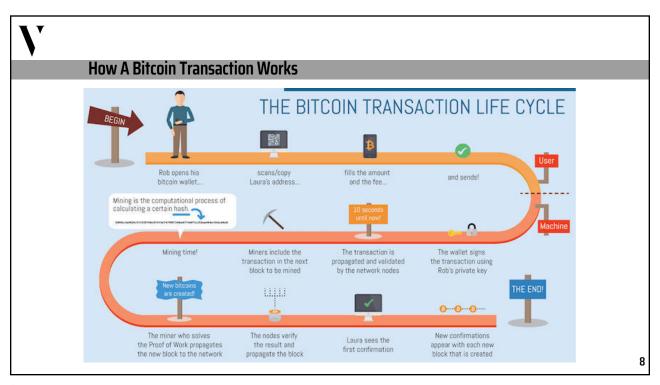
# **Cryptocurrency Exchanges**

**Exchange:** A marketplace where crypto is bought, sold, or exchanged for fiat or other crypto (PII holder)



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# **Cryptocurrency is Value Agnostic**



Like a US Dollar, a car, a cell phone, the internet, and a gun

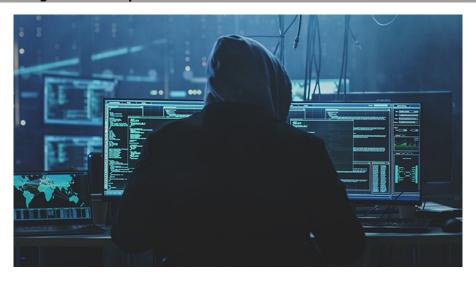
No independent value system

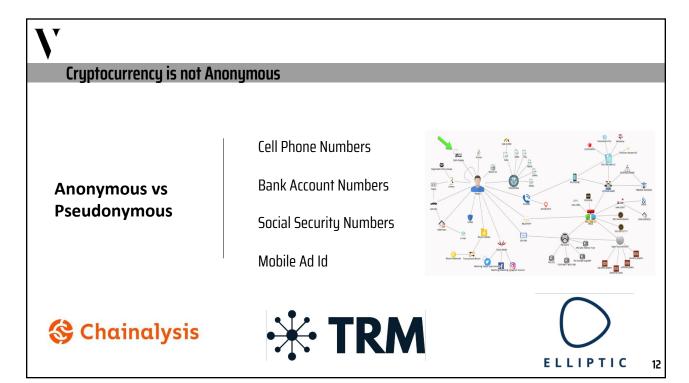
International Finance + Computer Science + Made Up Terms = Confusion

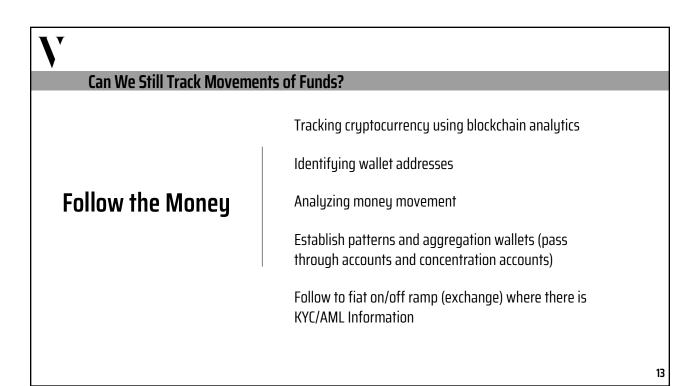
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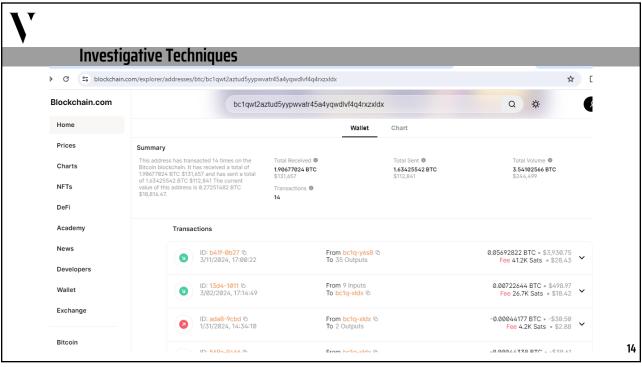


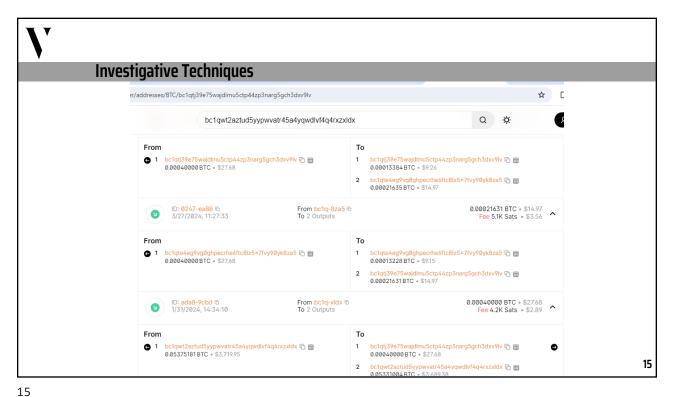
# **Investigative Techniques**

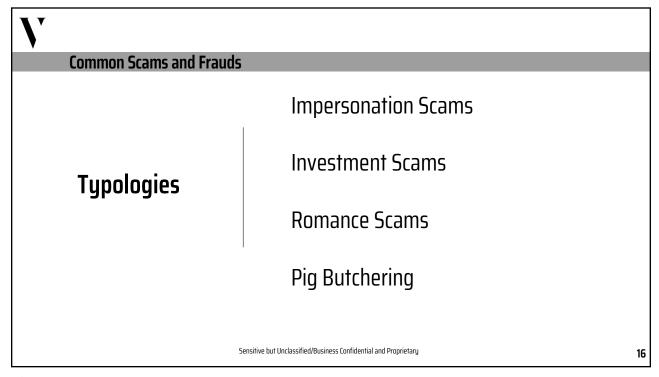














### **Common Scams and Frauds**

# **Impersonation Scam**



Impersonating a person or company using their Name, Image, or Likeness

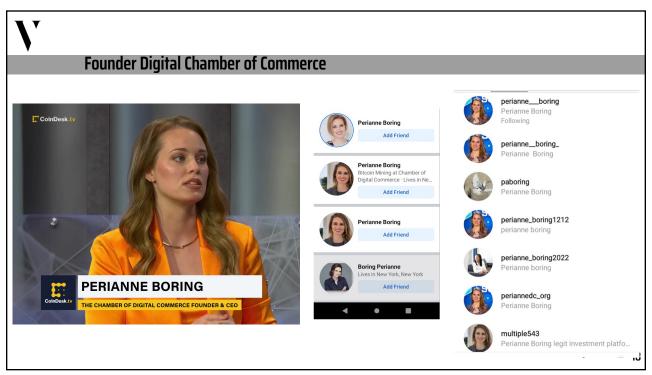
Real Names and photographs or real names and other photographs

Facebook, Instagram, Telegram, X (Twitter) etc, linked with a website and supporting online profile

Other fake accounts lending credibility

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# **Common Scams and Frauds**

# Investment Scams

Cryptocurrency Mining, FX Trading, Binary Options Trading, AI Supported Algorithms, Arbitrage, NFT, DeFI

Guaranteed results

Rug Pulls

Multiplier/Faucet Scams

Greed and Ignorance, Get Rich Quick

Sensitive but Unclassified/Business Confidential and Proprietaru

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# **Common Scams and Frauds**

# **Romance Scams**



Oldie but a goodie

Online dating apps increase reach and speed

COVID travel restrictions tilted field

Extensive and graphic online contact, phycological binding

Travel expenses, legal expenses, lost credit cards

Sensitive but Unclassified/Business Confidential and Proprietary

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# **Common Scams and Frauds**

# **Pig Butchering**



Romance plus Investment Scam = Super Scam

Dating site meeting

Sparking interest

Initial Investment gain and withdraw

More investments

Withdraw fees, taxes, etc, etc,

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# Pig Butchering – Case Study



Dating App for High-Net-Worth individuals

Initial Connection and move to Whats App

Building rapport... BRB, I have to make a trade

Made \$10,000 in 20 minutes

Can you teach me? (Devil's greatest trick)

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# Pig Butchering – Case Study

Open Coinbase account and wire money into it

Sex and marriage (nudes)

More profits for him

Time pressure not to miss opportunity

Set up account on "investing site" (NYSE impersonator, including KYC)

Transfer from Coinbase to investing site

Initial trade, initial profit (15% in 30 min)

Withdraw money back into bank account

Sense of loss created because of small

amount

One more withdrawal, then immediate

investing opportunity

Hook is set, wash, rinse, repeat

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# Pig Butchering – Case Study

Wire money, invest, profit, sex Invests all loose money and salary

\$100k per day invested Pivots to IRA, handles objections to

penalties and taxes Isolation – keep it a secret, don't tell friends

Dad in hospital, cannot meet IRL

Coached on structuring wires and handling

bank objections

Push to \$1 Million invested

Planned meeting IRL

Once account reaches \$4 million (investment plus gain) start withdrawal

process

Withdraw fee (\$250k) with time pressure

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# Pig Butchering – Case Study

More IRA withdrawals Account frozen for ML concerns

Exceeded limits at Crypto exchanges Needs money as sign of good faith there is

no ML

Encouraged to borrow from friend to unlock

her money

Pushed to get an online bank loan

Withdraw approved, triggers "audit"

resulting in \$365k tax bill

Handling objections from friends

More money sent, but to wrong wallet

Borrowed more money, scammer pays last

of money owed

Technical fee to recover....

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# Pig Butchering – Case Study

Once cryptocurrency was received it was immediately transferred to another wallet

Three separate wallets were used to move funds, then the funds were lost in a mixer

Likely a team scam, formulaic process

Victim shaming, lack of familiarity with cryptocurrency, lack of jurisdiction and unlikely prosecution, little constituency or support from LE, affluent but not rich

\$1.75 Million Lost

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# Fraud and Theft to Fund Weapons of Mass Destruction





Sensitive But Unclassified/Business Confidential and Proprietary

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# **North Korea Targeting Cryptocurrency Exchanges**

UN is investigating 58 North Korean cryptocurrency thefts from 2017 to 2023 worth an estimated \$3 Billion.

Cryptocurrency exchanges are targeted using sophisticated social engineering and spear phishing techniques

Nork Korea makes around half of its foreign currency income from cyber attack on cryptocurrency

In 2022, a higher value of cryptocurrency assets were stolen by the DPRK than in any previous year

In 2023, North Korea stole \$600 Million in cryptocurrency (30% reduction since 2022)

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# North Korea Cryptojacking

Mining cryptocurrency creates money out of thin air, but requires computing power and electricity

Cryptojacking is malware that steals a CPU's resources to mine cryptocurrency

Computers run slower and consume more electricity, but remain usable with data intact

Cryptojacking increased 400% in 2023, with more than 335 million incidents in first half of 2023 alone

Cisco's cloud security division reported Cryptojacking affecting 69% of its clients

We do not know the size and scale of this problem.

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# **Key Points**

Cryptocurrency is here to stay

Cryptocurrency is value agnostic

Traditional criminal techniques with a new tool

Scams and fraud using cruptocurrency are on the rise

Hostile nation states leverage cryptocurrency to generate revenue

Education is key, take away criminal first mover advantage

Cryptocurrency is better experienced than explained. Get some.

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