

Chainalysis: A Blockchain Analytics Company

DATA
INPUTS

Blockchain
Data

Proprietary
Research

Cryptocurrency
Exchange Data

DATA
PREP STEPS

Normalize

Standardize storage
and labelling across
blockchains



Clustering

Group addresses
controlled by the
same entities



Attribution

Assign labels to
identified entities

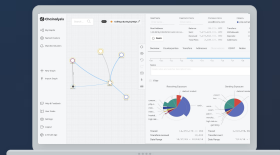


Enhancement

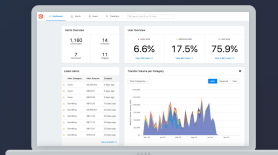
Algorithms run on
labelled data for
greater coverage



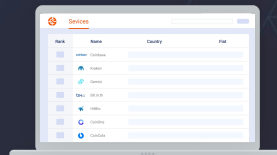
 **REACTOR**



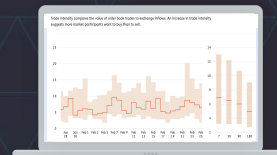
 **KYT**

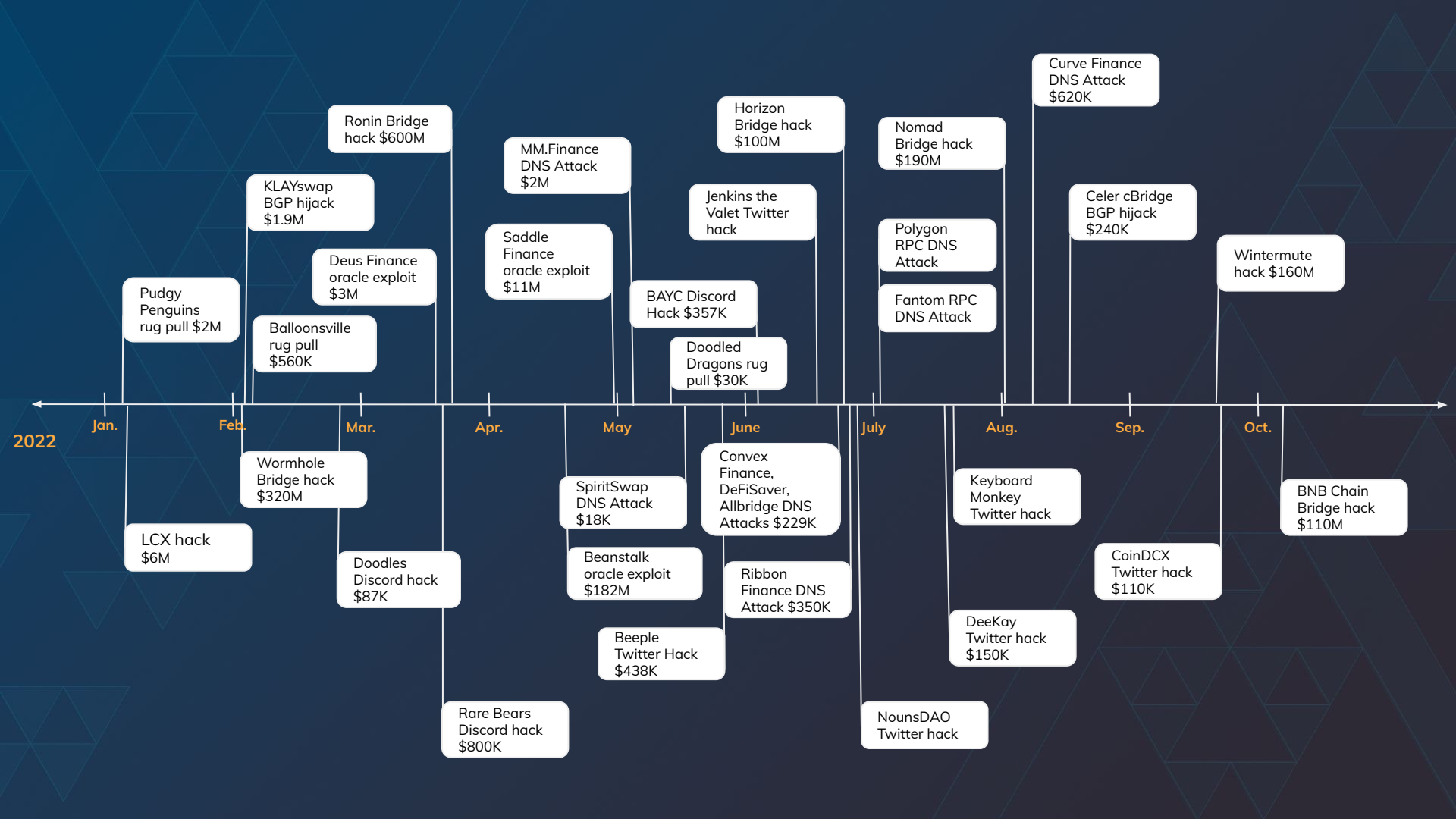


 **KRYPTOS**



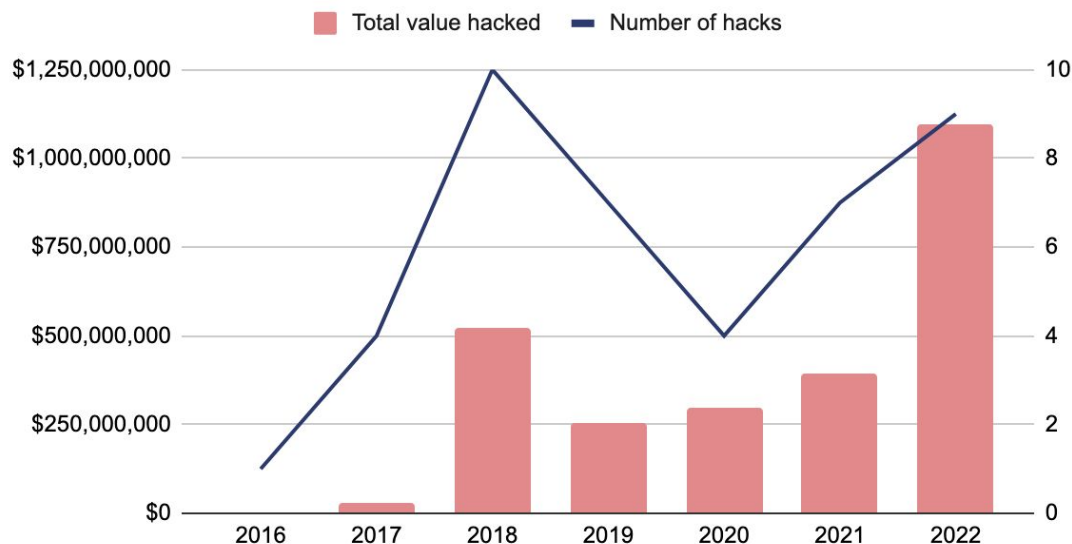
 **MARKET INTEL**





Chainalysis has identified 42 DPRK hacks since 2016

North Korean-linked hacks by total value hacked and total number of hacks



<https://go.chainalysis.com/2021-Crypto-Crime-Report.html>

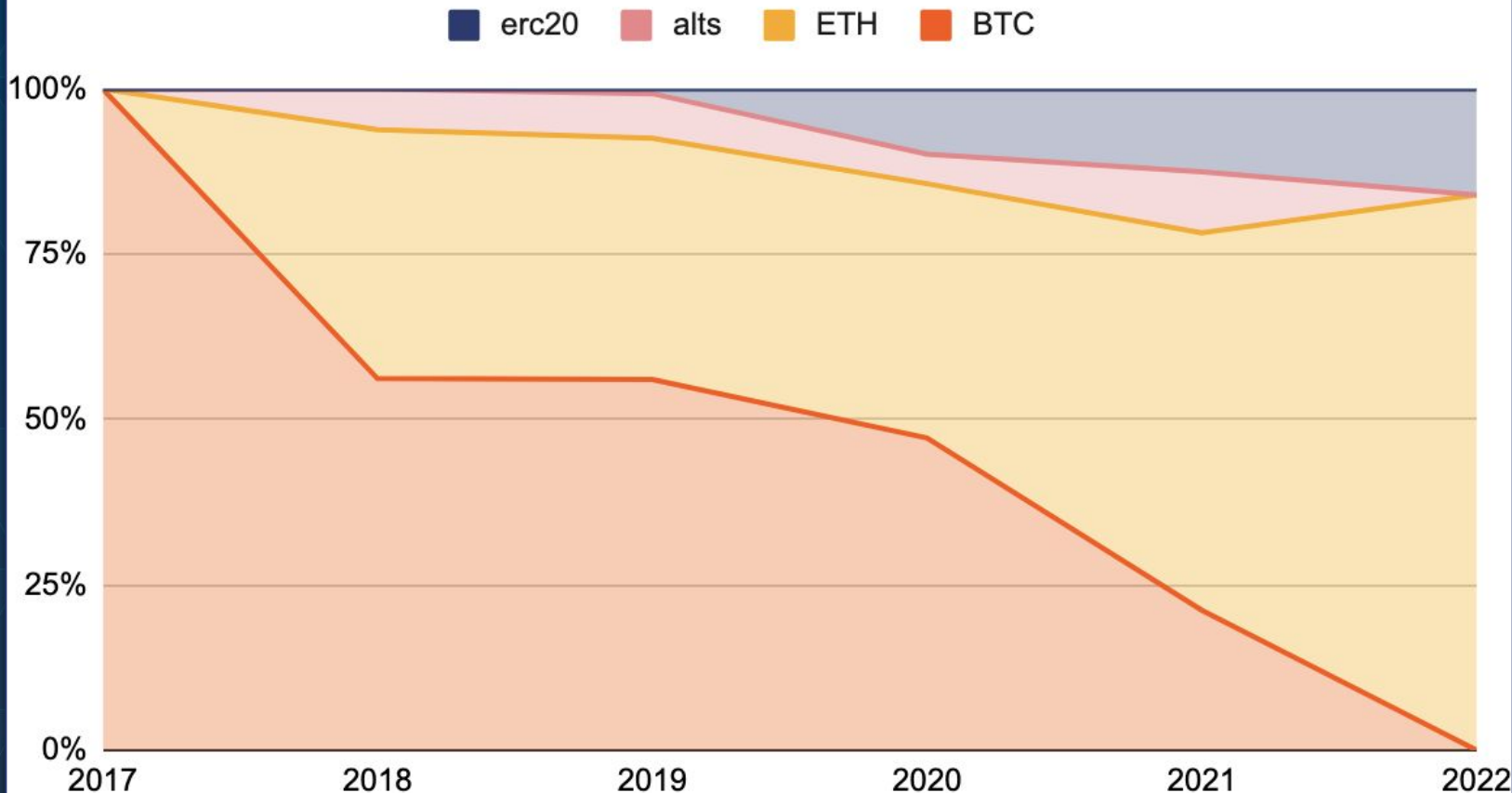
~\$2.7B hacked funds investigated

Kucoin largest hack in 2020 - \$275M stolen

Ronin hack - biggest single hack to date

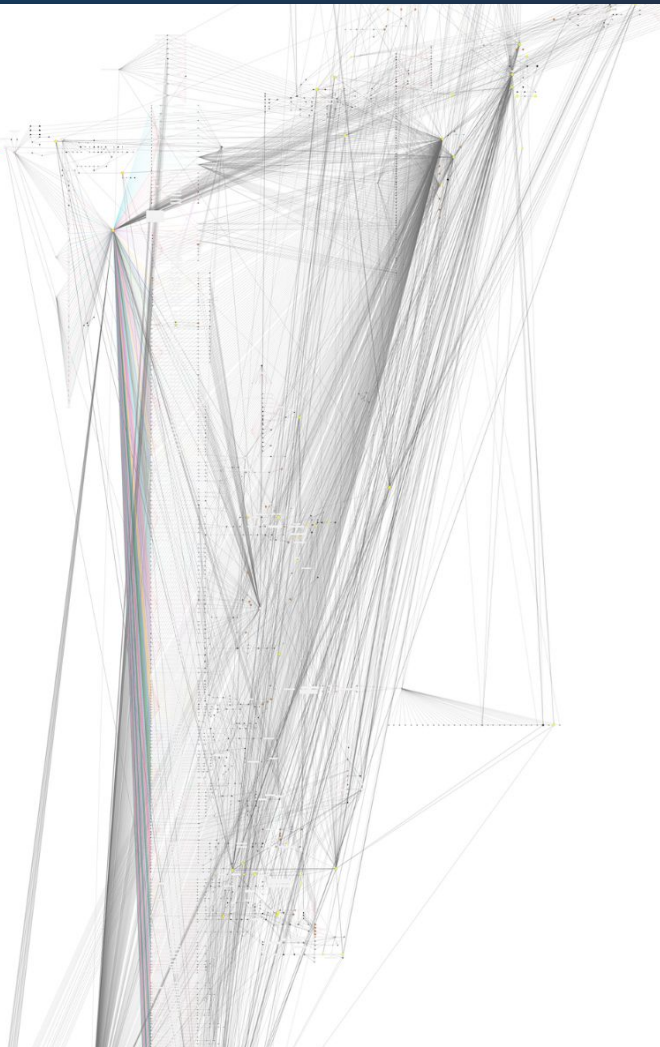
~30% of all hacked value went to DPRK since 2017

Share of stolen funds being laundered by DPRK by currency



Axie

Hacker



Compromised dapp front ends via vulnerable web2 infrastructure



⚠ DO NOT SWAP ⚠

Similar to other protocols hosted on @GoDaddy, QuickSwap has been domain hijacked

Funds in LPs, the Dragon's Lair, Syrup Pools, & YOUR wallets are safe

Only swaps have been affected. Please DO NOT SWAP

BORDER GATEWAY PROTOCOL INSECURITY —

How 3 hours of inaction from Amazon cost cryptocurrency holders \$235,000

For 2nd time in 4 years, Amazon loses control of its IP space in BGP hijacking.

DAN GOODIN - 9/23/2022, 1:04 PM

Compromised Discord servers



Our Discord servers were briefly exploited today. The team caught and addressed it quickly. About 200 ETH worth of NFTs appear to have been impacted. We are still investigating, but if you were impacted, email us at discord@yugalabs.io.

3:16 PM · Jun 4, 2022



We are currently investigating a potential vulnerability in our Discord, please do not click on any links in the Discord.

3:43 AM · May 6, 2022 · Twitter Web App

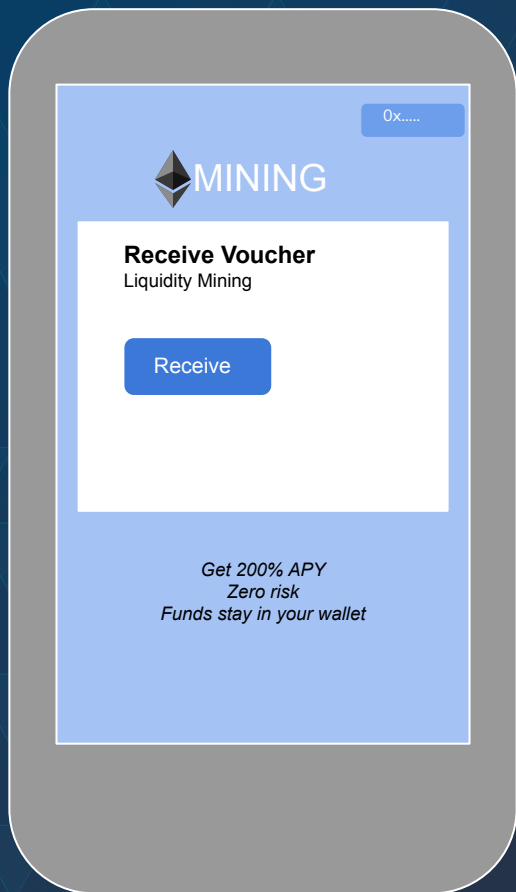
Identifying Coordinated Campaigns

Off-chain analysis

- Traditional incident response analysis
- What system was compromised?
- How was that system compromised?
- Infrastructure used

On-chain analysis

- What is the payload?
 - Token approval phishing
 - Seed phrase phishing
 - Eth_sign phishing
- Fund movement post attack
 - Consolidation of funds pre/post mix
 - Distinctive laundering patterns

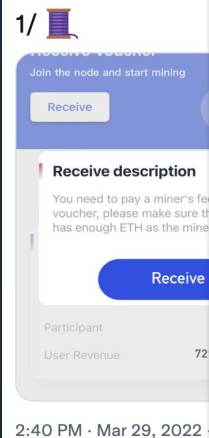


 **MetaMask** @MetaMask

⚠️ PSA: There's a new scam making the rounds - fake "mining" sites that ask you to join a "node."

The site will attempt to connect to your wallet and get you to approve unlimited access to your tokens.

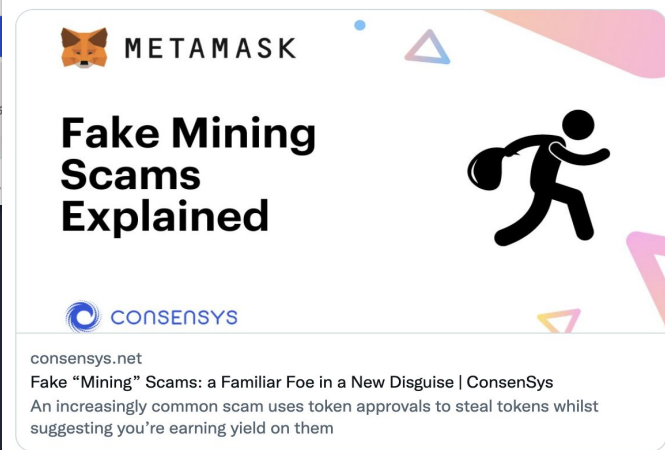
So far, they seem to be targeting mobile users & their \$USDT.



 **ConsensSys** @ConsensSys

If you've kept up to date with our various Twitter handles, you'll know we can't talk enough about token approval scams – a new format, observed by @sniko_ and others on our team, involves sites offering 'mining' rewards 🛠️

1/6



12:44 PM · Jun 28, 2022 · Twitter Web App

Apply rewards

0x

0.00 USDT_ETH

14,982 USDT_ETH

14,982 USDT_ETH

0.00 USDT_ETH



Actions ▾

Record

Function: `transferFrom(address _from, address _to, uint256 _value)`

MethodID: 0x23b872dd

[illegible][illegible][illegible]



60+ scammer addresses reported

~\$83M reported stolen
from October 2021 to October 2022

Identified off-chain coordination, including use of the same
domains and a focus on mobile users

Created Dune Analytics dashboard to make reported
information publicly available

Reported Scammer Addresses



● DuneAnalytics

Identifying Patterns

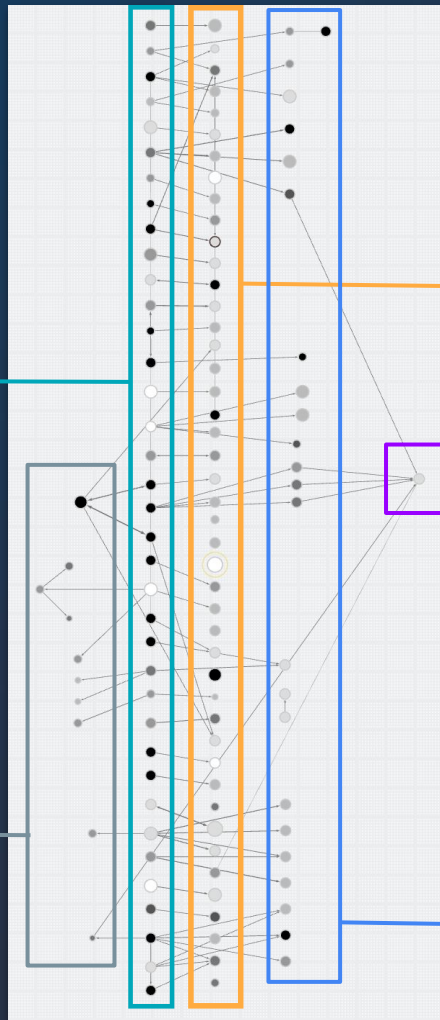
Initial gas funding

Observed phishing script testing pattern

Reported scam addresses granted approval to move victim tokens

Consolidation point

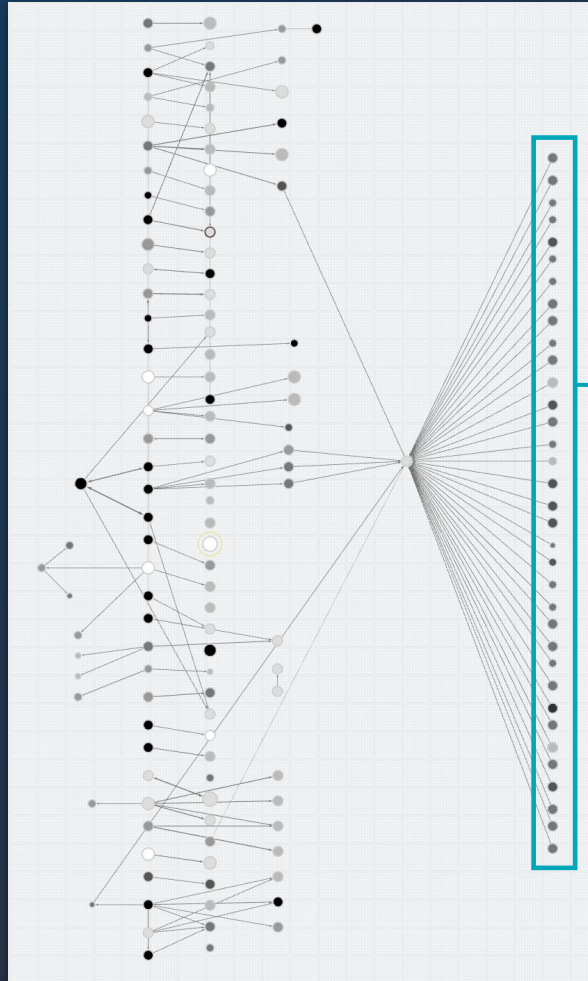
Additional addresses receiving victim approvals



Mapping The Scam Network

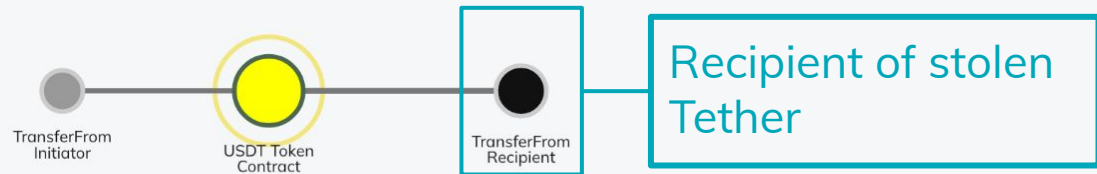
Identified addresses

- **91** addresses phishing for approvals from victims
- **879** addresses receiving likely victim funds via transferFrom
- **>11,000** new potential victim addresses



Newly identified addresses receiving token approvals from victims

Recipient of Stolen Tether

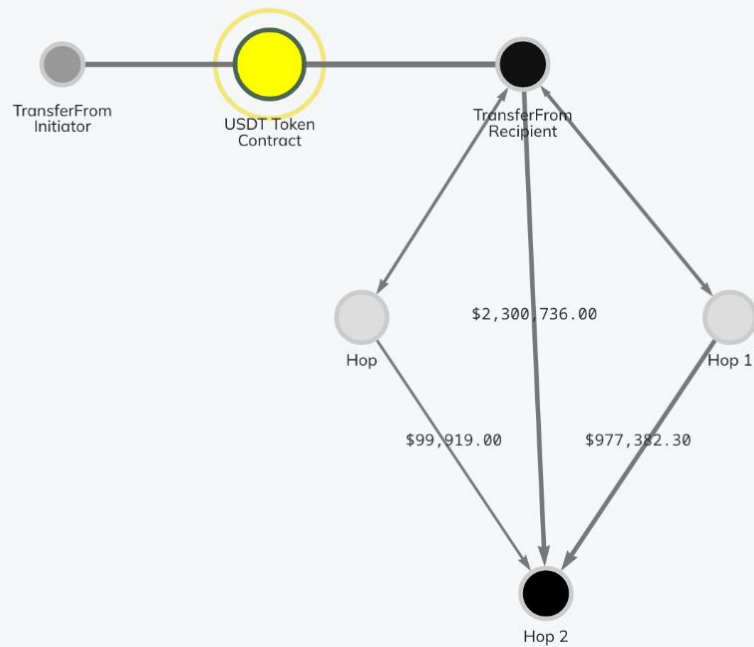


USDT Mining Scam (Dev)

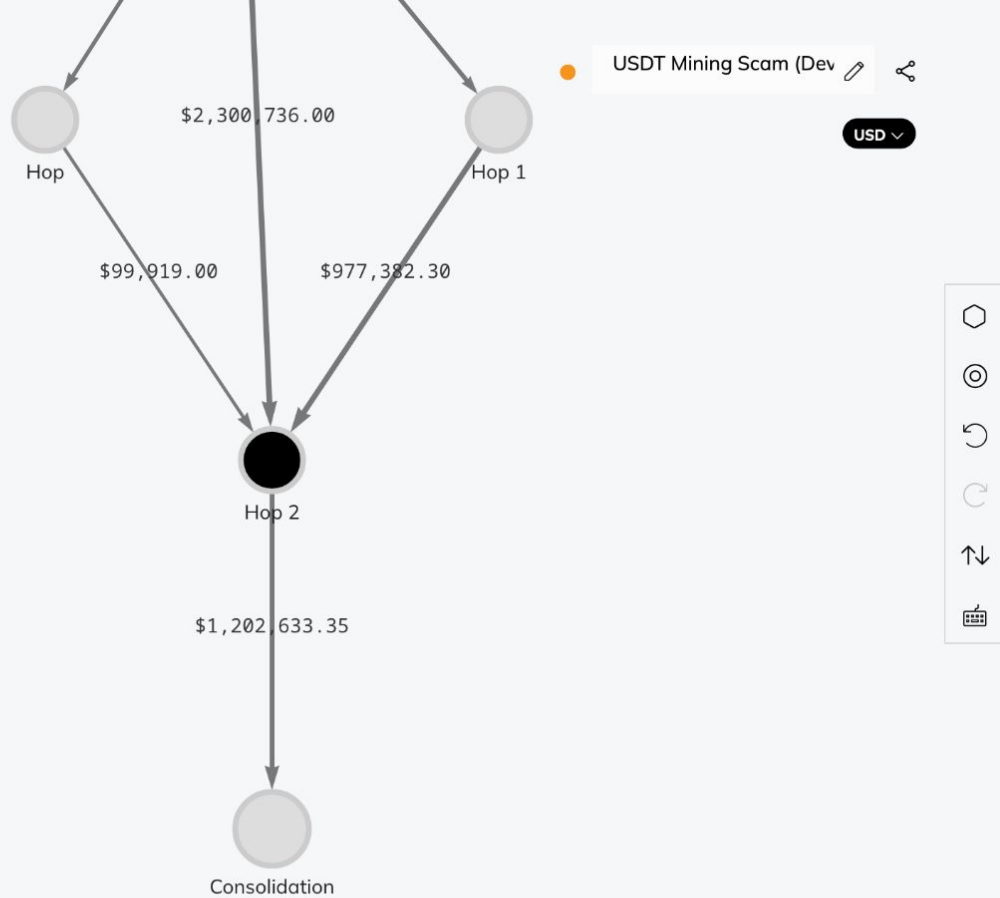
USD



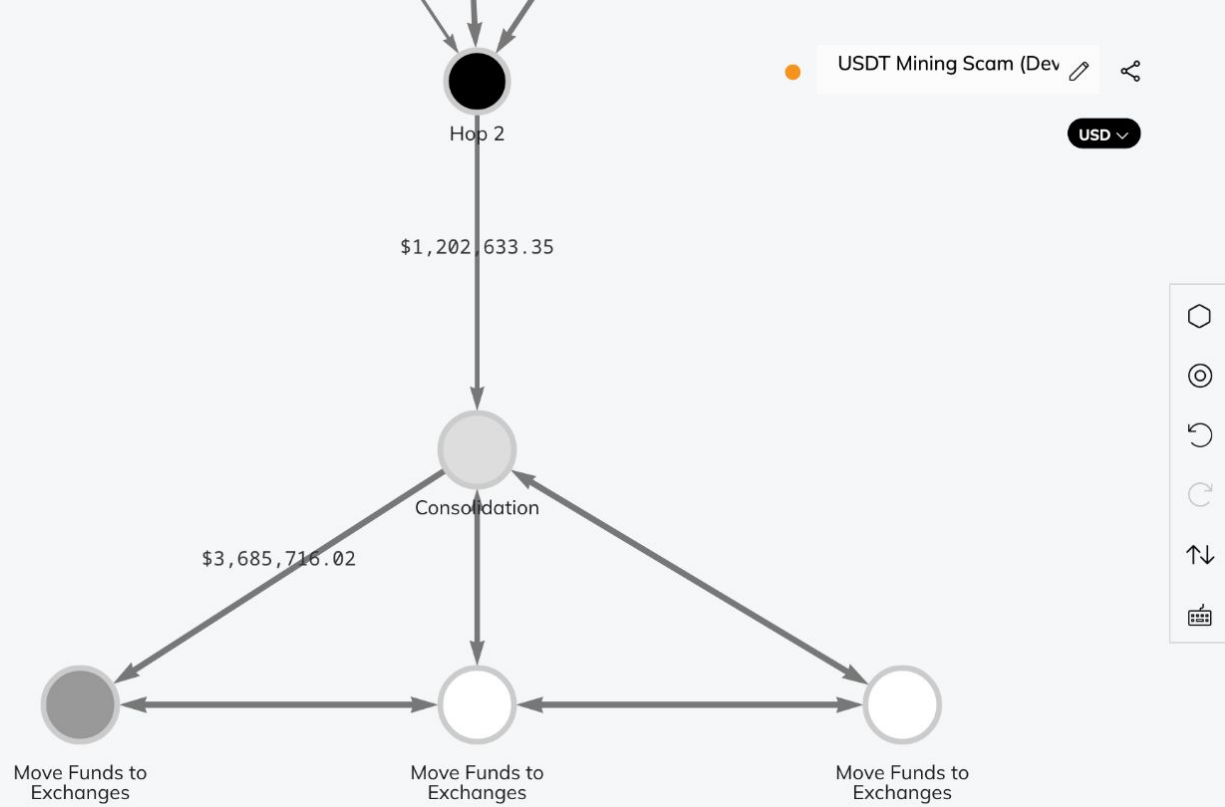
Initial Movements



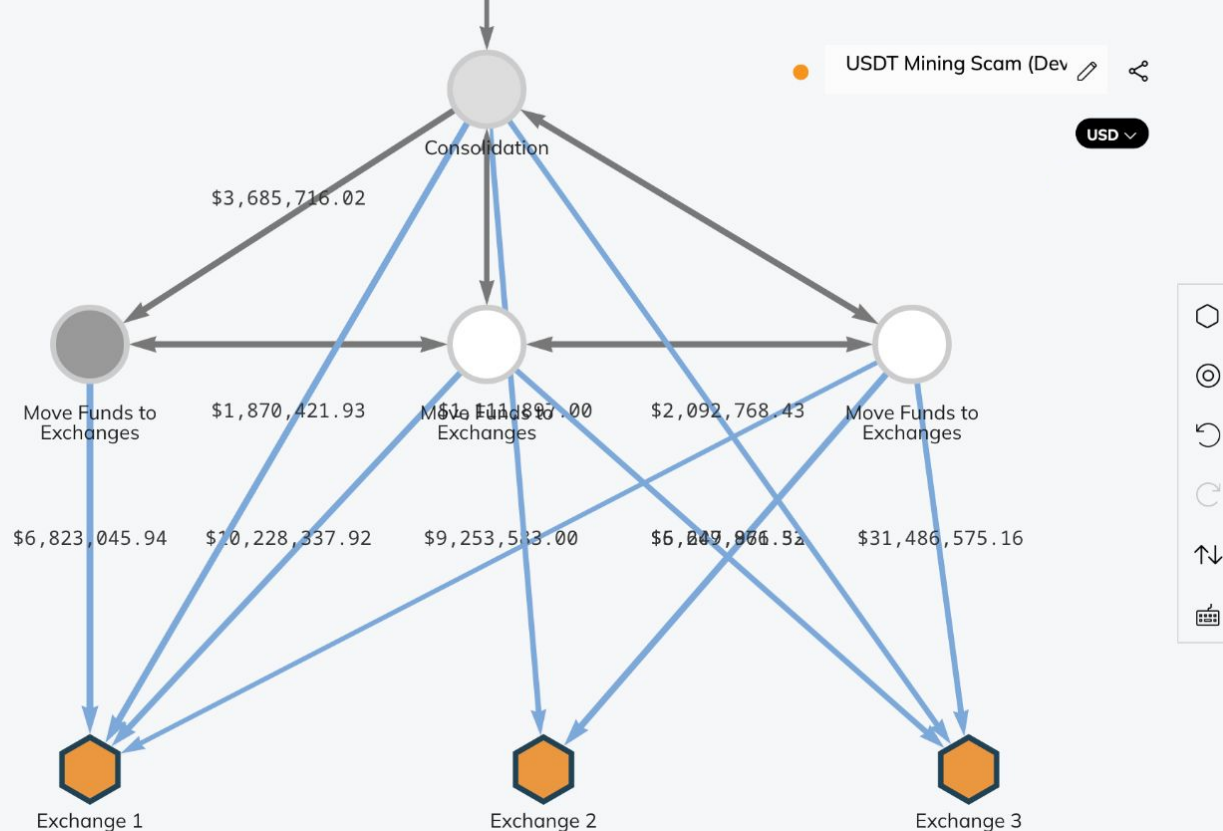
Consolidation



Movement to Exchanges



Deposits to Exchanges





\$143M additional stolen value identified
((\$227M in total))

\$1.2B

Value sent to cash-out points at exchanges

Identified repeated recipient addresses across scam approvers
that indicate coordinated efforts

375 additional potential scam approvers

How can we raise costs for bad actors?





Thank you!

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@Hart_Adam_