

ZK BadgesLeverage your self-sovereign data

Hadrien Charlanes dhadrien, Sismo





SISMO



Why Sismo?

Privacy and Decentralization in Identity Systems to Protect Human Sovereignty



Sismo Mission

Build primitives to empower **Self Sovereign Identities**



ZK BadgesLeverage your sovereign data

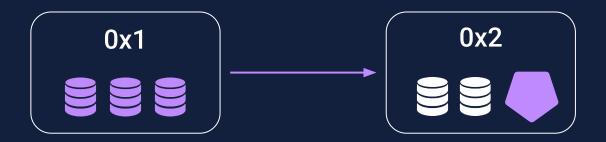


Non Transferrable Attestation Token (ERC1155) a.k.a <u>Soulbound Token</u>



ZK Badges

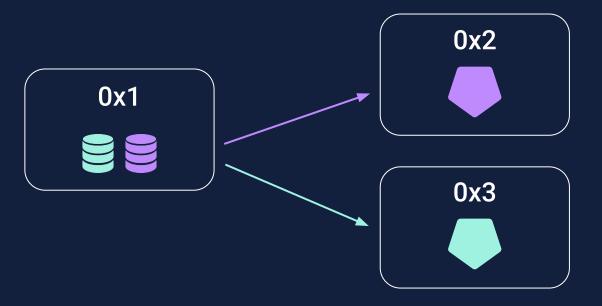
1. Import reputation with privacy





ZK Badges

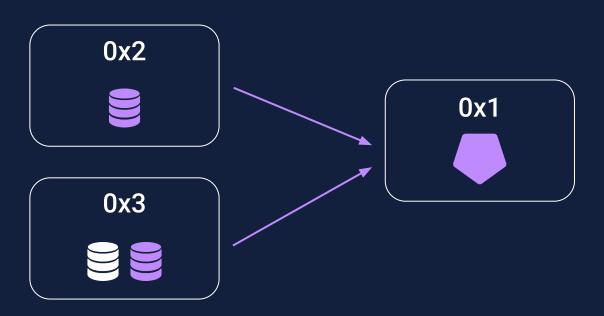
2. Granularly reveal personal data





ZK Badges

3. Aggregate personal data, privacy preserving



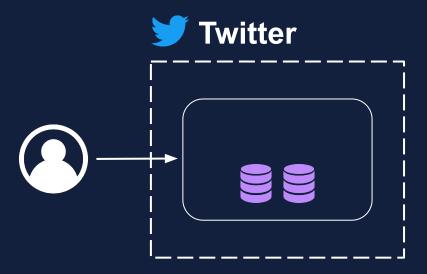


Section 1

SELF-SOVEREIGN IDENTITIES

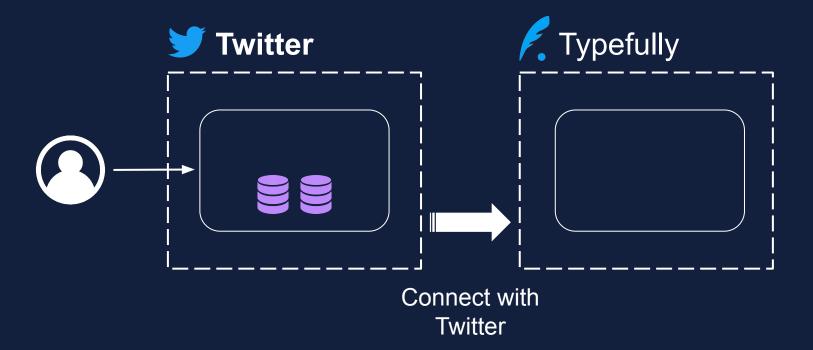


Web2 Identity



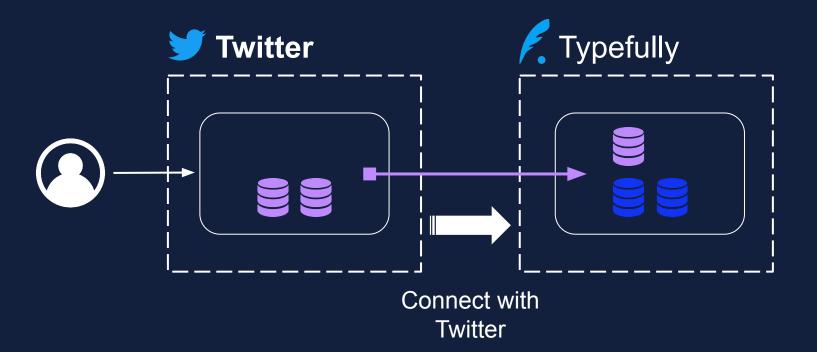


Web2 Identity



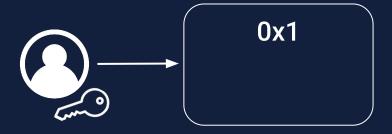


Web2 Identity





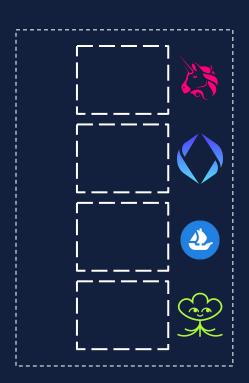
Self-Sovereign Account - Web3





Self-Sovereign Account - Web3

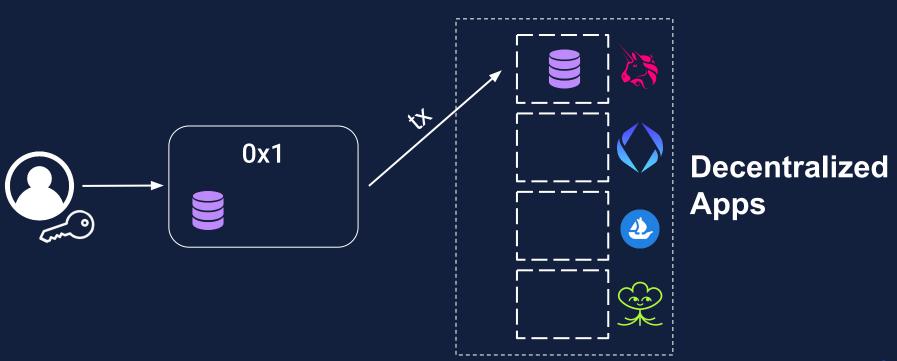




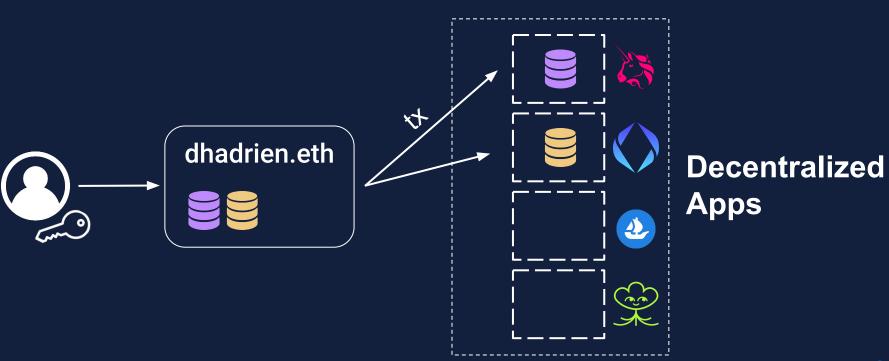
Decentralized Apps



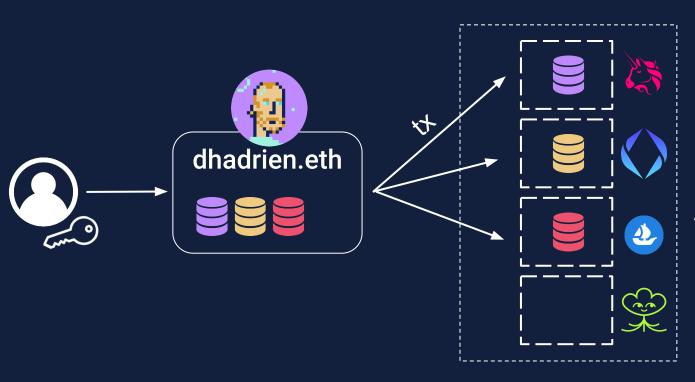
Self-Sovereign Account - Web3





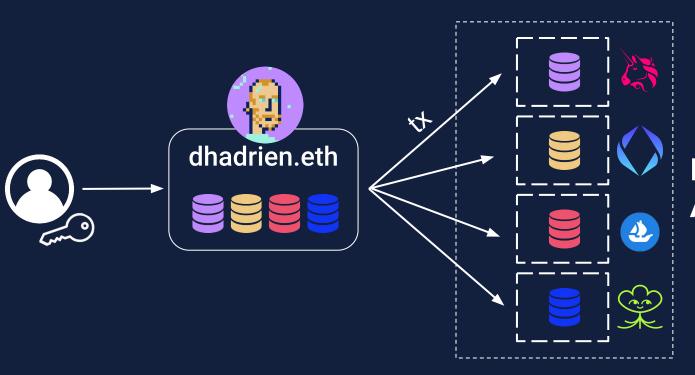






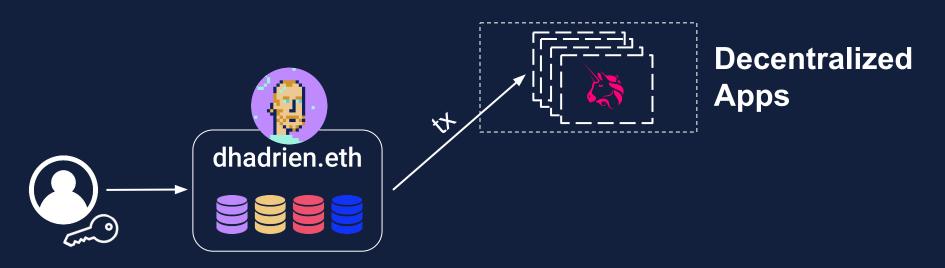
Decentralized Apps



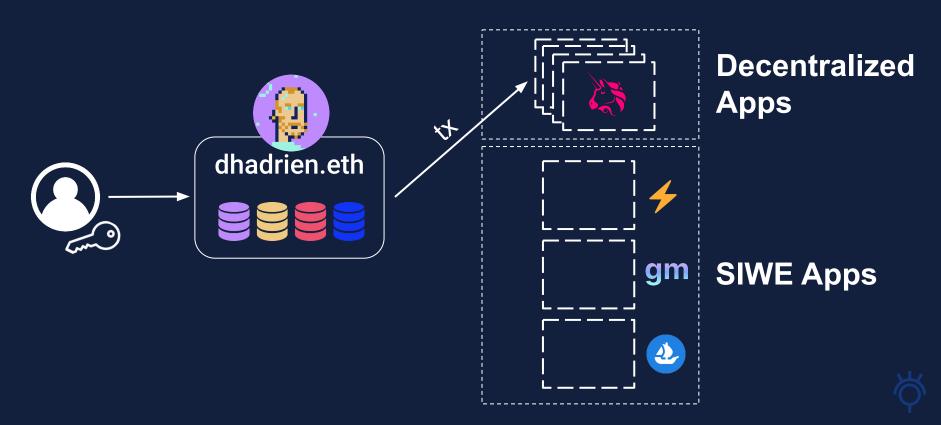


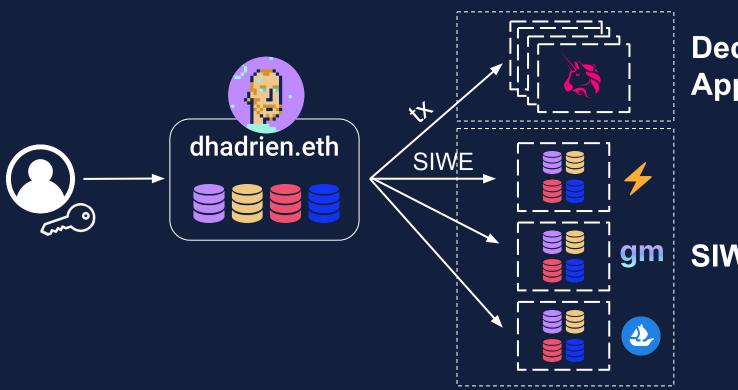
Decentralized Apps







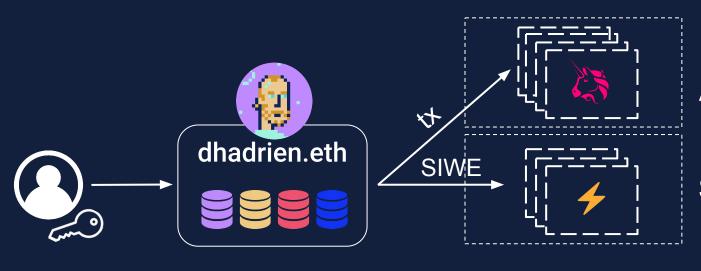




Decentralized Apps

SIWE Apps

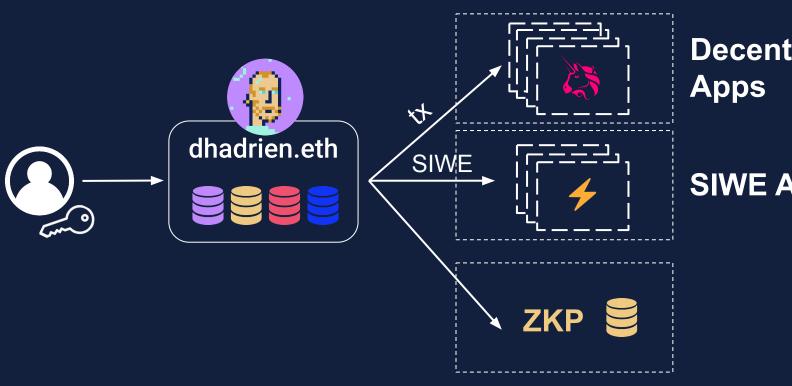




Decentralized Apps

SIWE Apps





Decentralized

SIWE Apps



Section 2

ZK BADGES



What is a ZK Badge?



- Tokenized Attestation
- SBT (NT-ERC1155)
- Minted by a ZK Attester
- On EVM chains



ZK Badge minting process

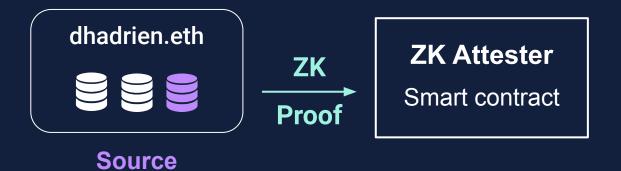




Source



ZK Badge minting process





ZK Badge minting process







Identities



0xanon.eth



ENS name



1200 tx



100 ETH



900 Aave



CryptoPunk





ENS name



Gitcoin Donations



PoH Verification



NFT from Charlscharls



POAPs



Import Reputation

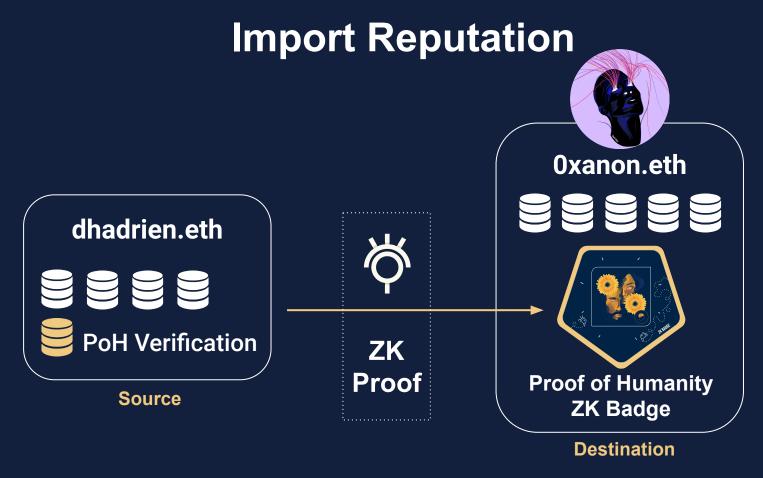
dhadrien.eth

Description

Bource











HYDRA S1 ZK ATTESTER

Group of eligible accounts

Verified

0x1a4f...3ea2: 1

0x2e7a...8cd4: 1

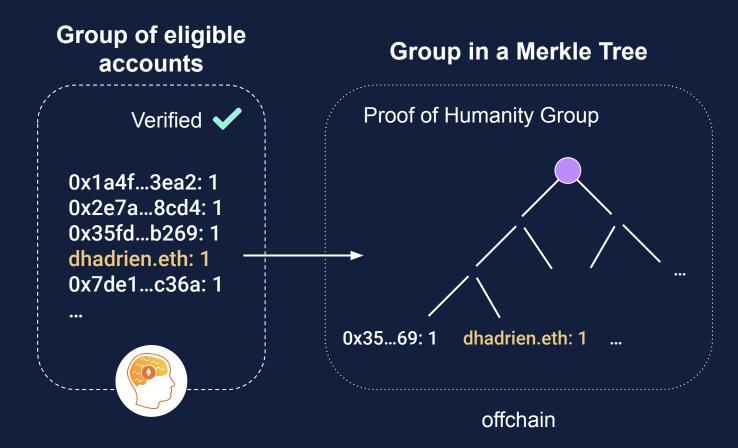
0x35fd...b269: 1

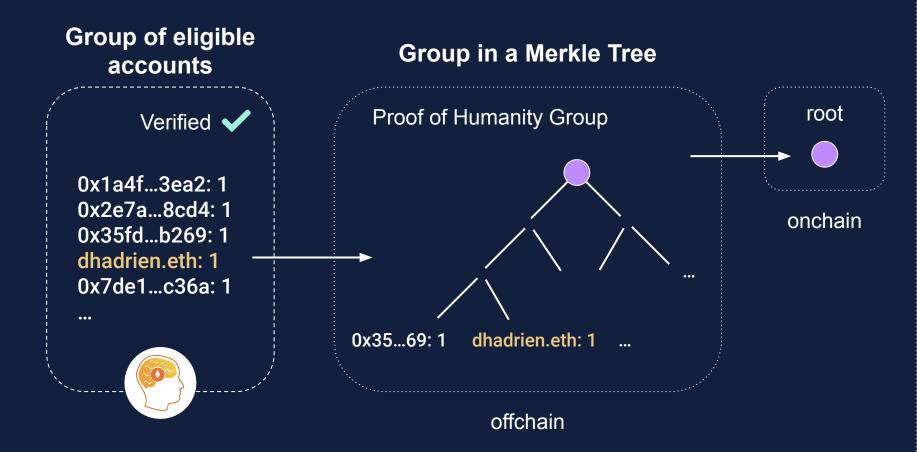
dhadrien.eth: 1

0x7de1...c36a: 1

•••







Sismo Front-end

Destination



Create your Hydra-S1 ZK Badge

Developers: ZK Badge for your users in 15 minutes

https://zkbadge-tutorial.sismo.io/

Everyone: No-code tool, 5 minutes!

https://factory.sismo.io



SISMO ATTESTATIONS PROTOCOL



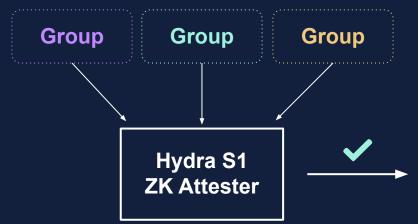
// Sismo Attestations Protocol



	ERC1155 Badges	\
1		
2		
3		
1M		
•••		
10M		



// Sismo Attestations Protocol



ERC1155 Badges

- 1 POAP ZK badge
- 2 Eth User ZK badge
- PoH ZK badge

...

1M

•••

10M



// Sismo Attestations Protocol



ERC1155 Badges







•••



••••

10M

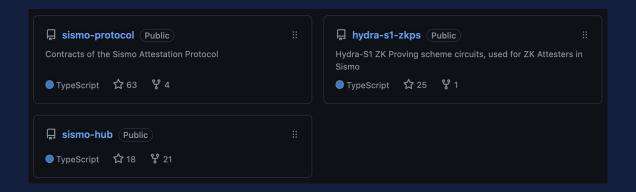


Build on Sismo

All is open-source

docs.sismo.io

github.com/sismo-core

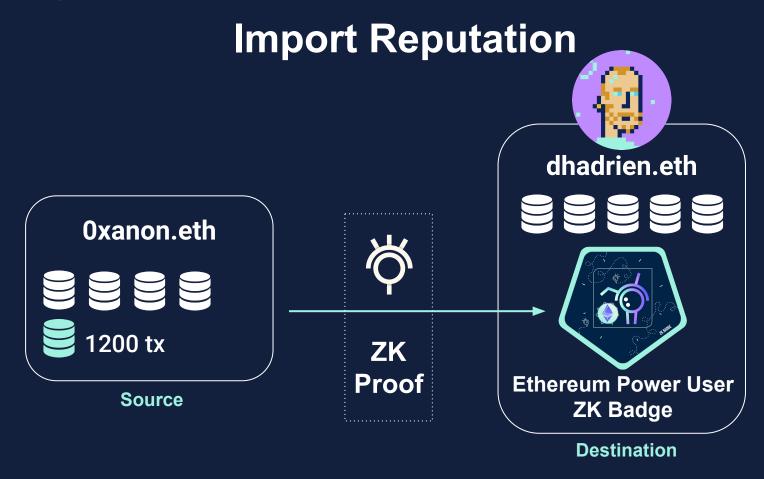


Import Reputation













Granularly reveal data

dhadrien.eth



ENS name



Gitcoin Donations



EthCC POAP



NFT from Charlscharls



PoH Verification





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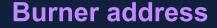
EthCC POAP



NFT from Charlscharls



PoH Verification





Proof of Attendance ZK Badge





Granularly reveal data

dhadrien.eth



ENS name



Gitcoin Donations



EthCC POAP



NFT from Charlscharls



PoH Verification

Burner address



Private Merch

Proof of Attendance ZK Badge

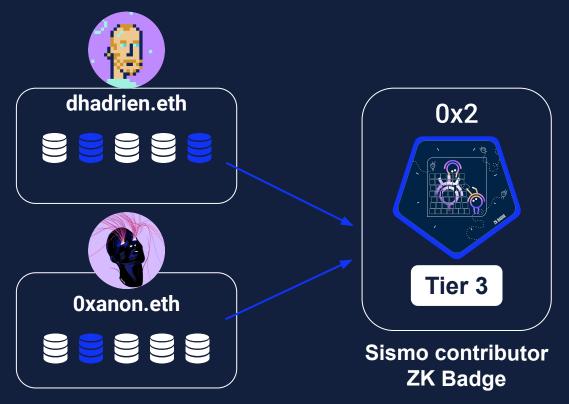


Aggregate Reputation





Aggregate Reputation





Aggregate Reputation





SISMO VISION



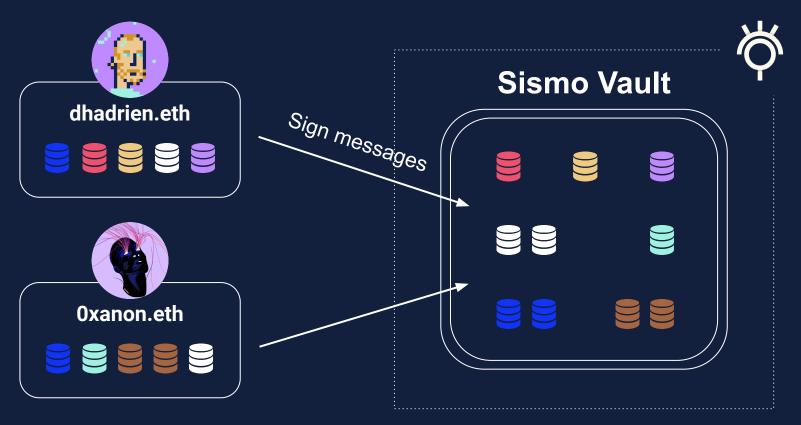
Aggregated Data view







Aggregated Data view







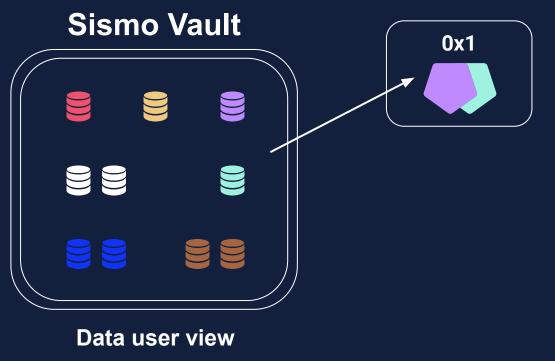
Sismo Vault



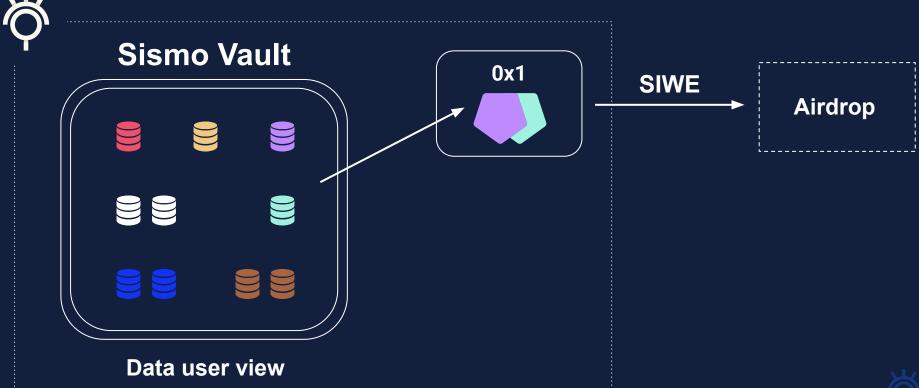
Data user view



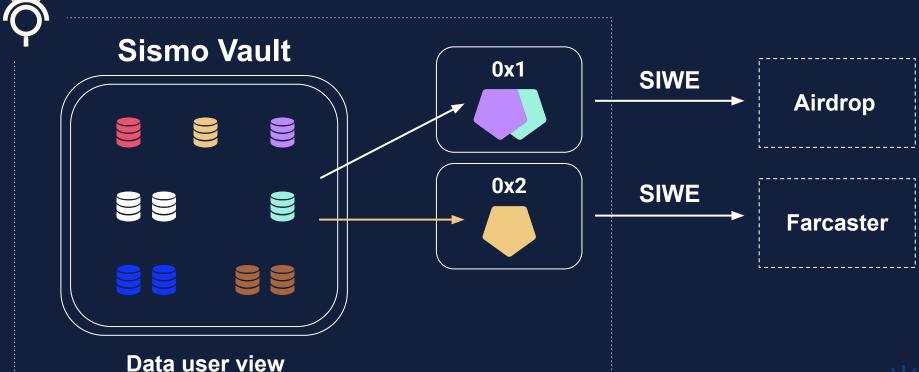




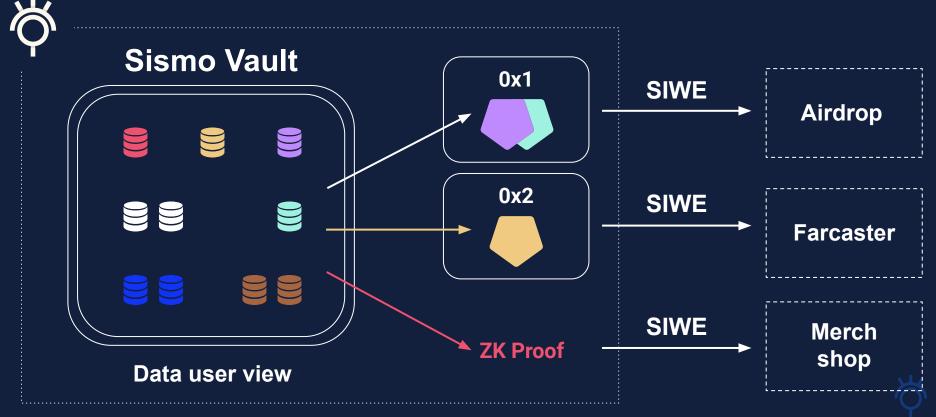














Feel free to reach out



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Thank you 🗡







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