PROBLEM STATEMENT

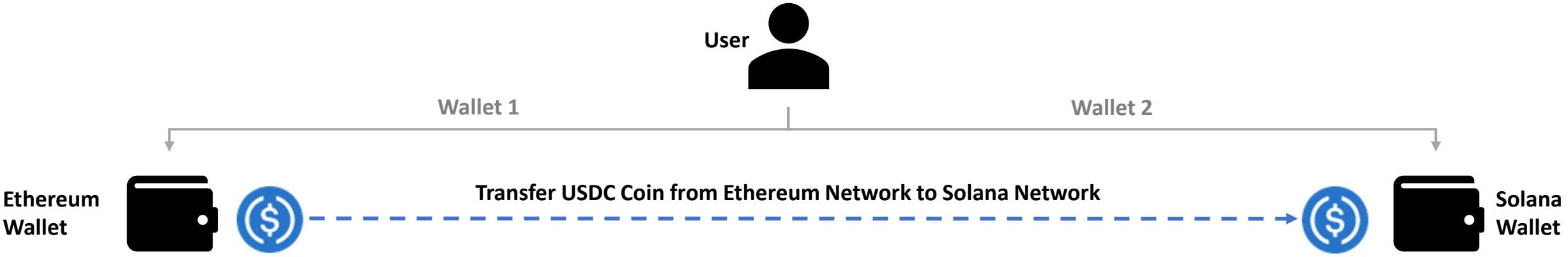
Sophisticated investors who transfer tokens between multiple chains have a difficult time identifying and reporting those transactions to the tax authority at the end of the year among hundreds of other transactions.

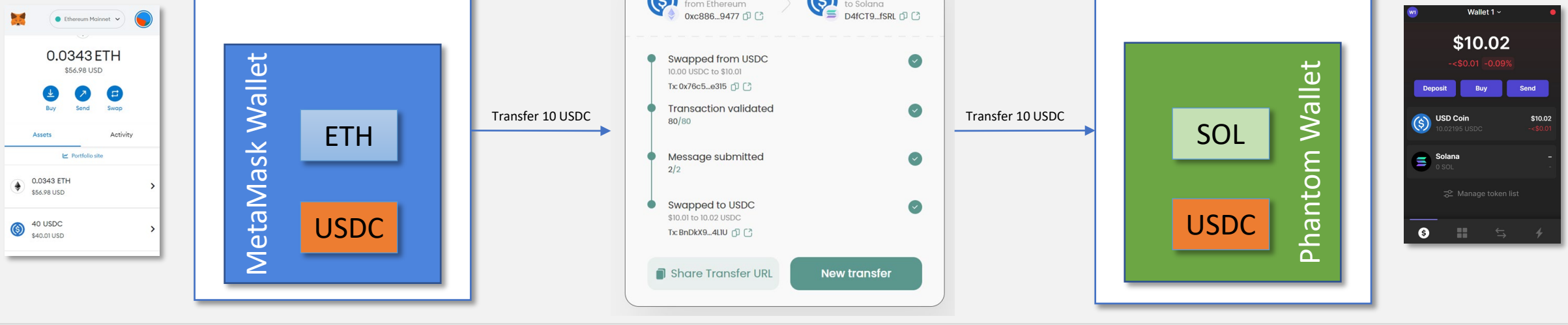
SOLUTION

Picks orphan transactions from the user's portfolio and matches an inbound transaction to each outbound transaction.

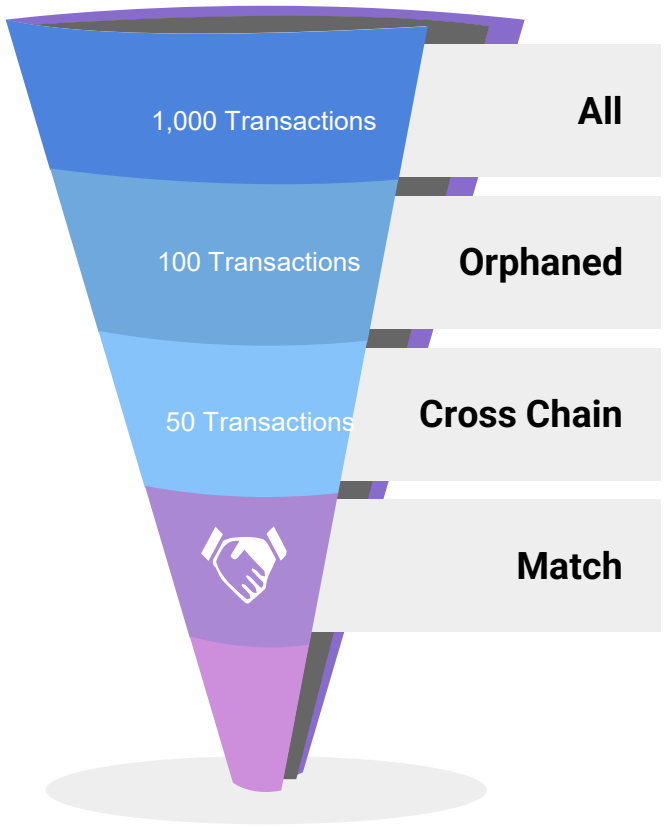
This helps the user to settle transactions as a transfer between two chains rather than a withdrawal and a deposit.

SCENARIO


User
Wallet 1
Wallet 2
Ethereum Wallet
Transfer USDC Coin from Ethereum Network to Solana Network
Solana Wallet


Ethereum Mainnet
0.0343 ETH
$56.98 USD
Buy
Send
Swap
Assets
Activity
Portfolio site
0.0343 ETH
$56.98 USD
40 USDC
$40.01 USD
Network: ETH
MetaMask Wallet
ETH
USDC
Transfer 10 USDC
Bridge
Success
10.00 USDC
from Ethereum
0xc886...9477
10.02 USDC
to Solana
D4fCT9...fSRL
Swapped from USDC
10.00 USDC to $10.01
Tx: 0x76c5...e315
Transaction validated
80/80
Message submitted
2/2
Swapped to USDC
$10.01 to 10.02 USDC
Tx: BnDkX9...4LIU
Share Transfer URL
New transfer
Transfer 10 USDC
Network: SOL
SOL
USDC
Phantom Wallet
Wallet 1
$10.02
-<$0.01 -0.09%
Deposit
Buy
Send
USD Coin
10.02195 USDC
$10.02
-<$0.01
Solana
0 SOL
Manage token list

Cross-Chain Transaction Matching Algorithm



The total number of transactions in the user portfolio for the last 12 months.

In certain circumstances, users may be unable to locate their deposit/withdraw or cross-chain transactions between wallets, which are listed as orphaned transactions.

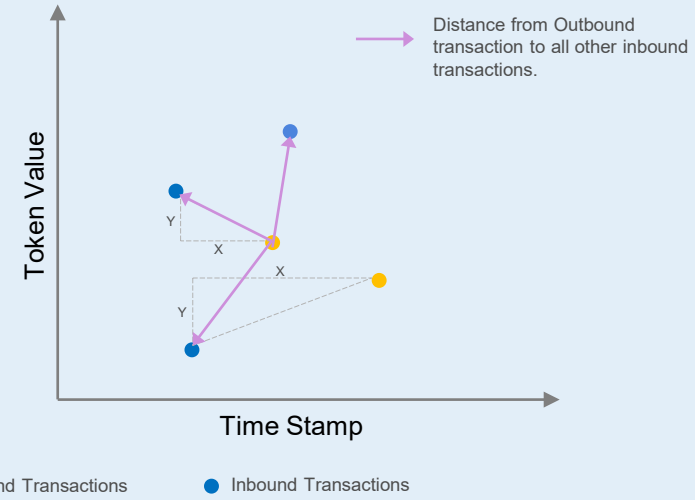
Our algorithm identifies & filters possible cross-chain transactions.

Map any incoming transactions with potential outbound cross-chain transactions.

Euclidean Distance

Euclidean distance is a mathematical concept that measures the length of a line segment between two points in Euclidean space.

We are leveraging Euclidean distance for the matching function to find the closest matching transactions.



Next Steps

To improve the efficacy of our portfolio management solution, we are planning to integrate the Cross-Chain Transaction Matching Algorithm.

Demo