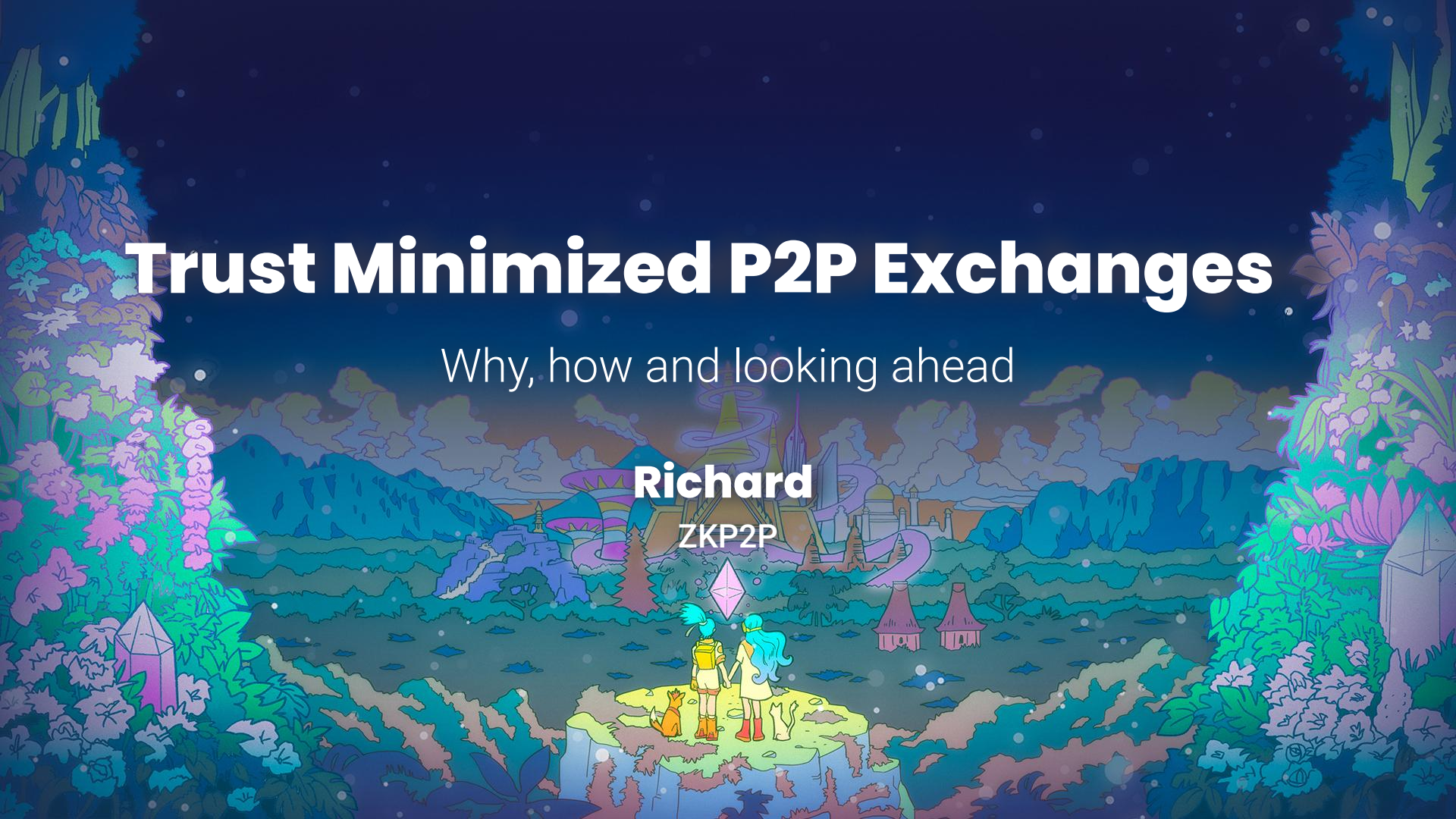


Trust Minimized P2P Exchanges

Why, how and looking ahead

Richard
ZKP2P





Why are we here?

Web 2 <

Fiat currencies

Social graph

Concert tickets

Domains

Centralized data silos

- High switching costs
- Extractive to users, monopolistic
- Closed APIs

Web 2



Web 3

Fiat currencies

Social graph

Concert tickets

Domains

Centralized data silos

- High switching costs
- Extractive to users, monopolistic
- Closed APIs

Social graph

Stablecoins

DeFi instruments

ETH

Our permissionless database

- Parallel system from the real world
- Most of DeFi is self-referential
- “let me give you tokens to stake for more tokens”



Solution: bring the Real World to Ethereum



How?

Breaking walled gardens with cryptography

(and

TEEs)

Fiat currencies



Social graph

Social graph



Stablecoins

Concert tickets

DeFi instruments

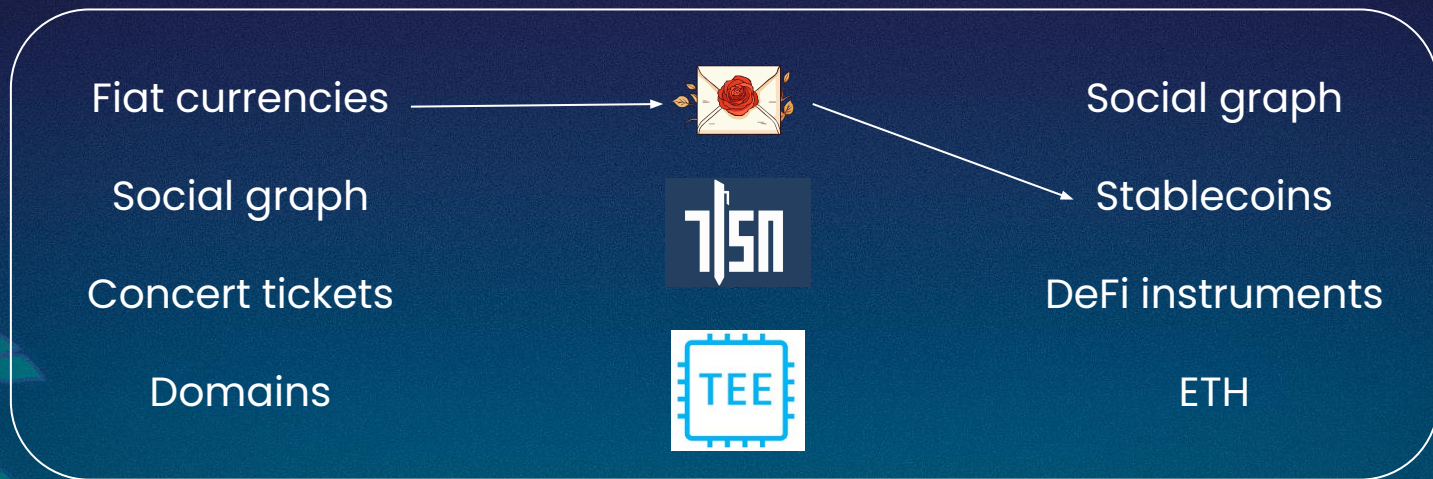
Domains



ETH

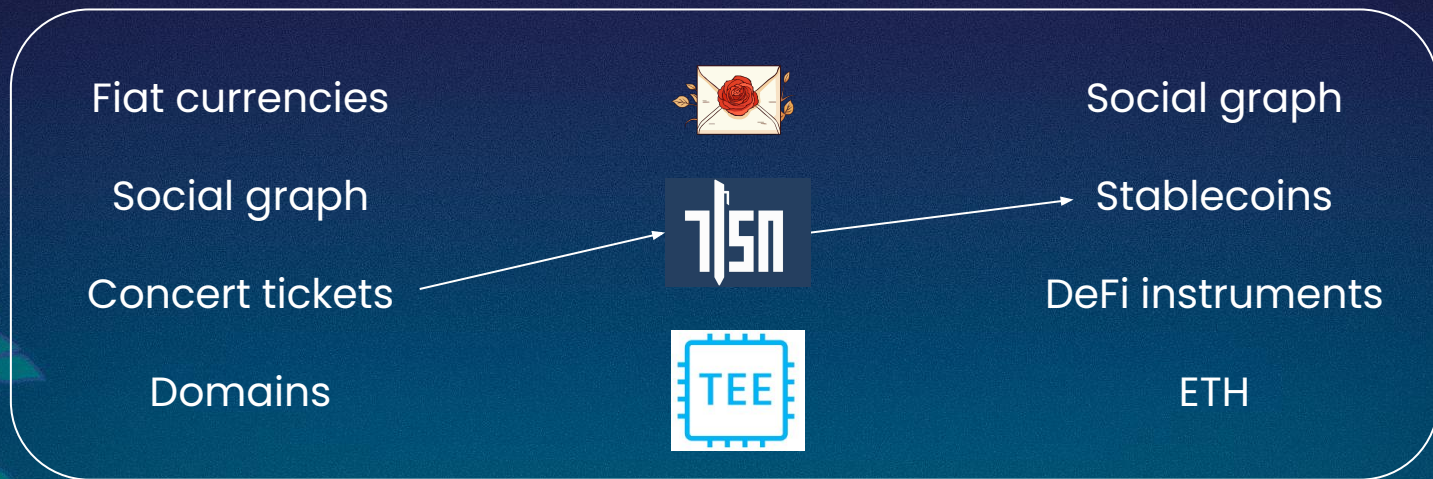
- Advancements to cryptography (ZK, MPC) allow us to **permissionlessly** export data from existing data silos
- Techniques such as ZKEmail and TLSNotary allow redacting sensitive data prior to export

Web2 <> Web3 Integration



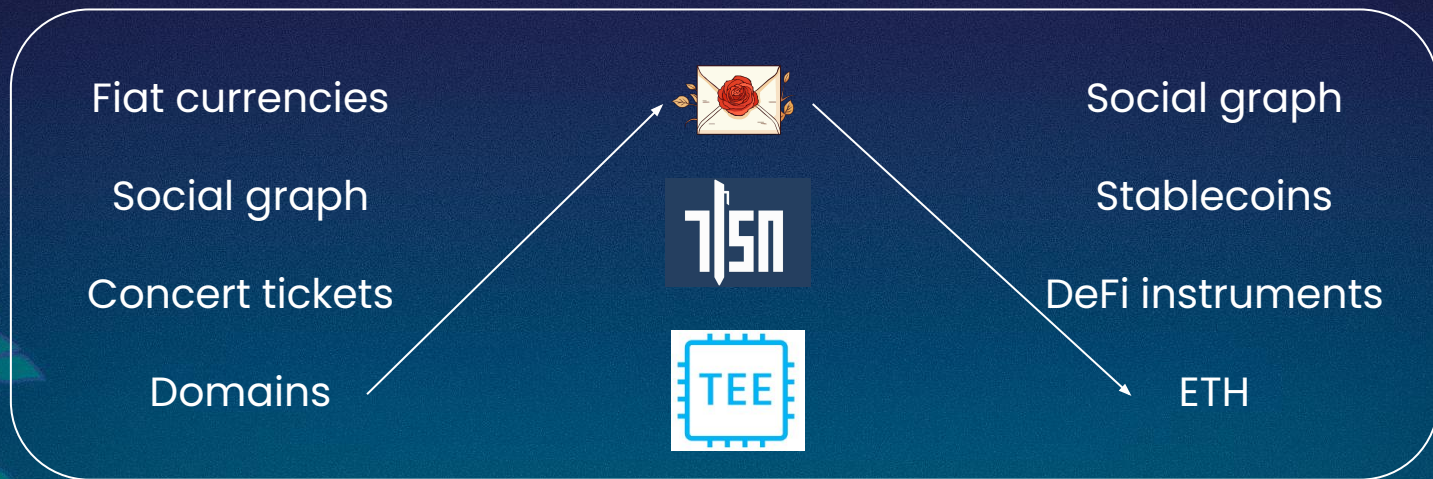
- With cryptography (and TEEs), now you can compose web2 actions with web3 actions

Web2 <> Web3 Integration



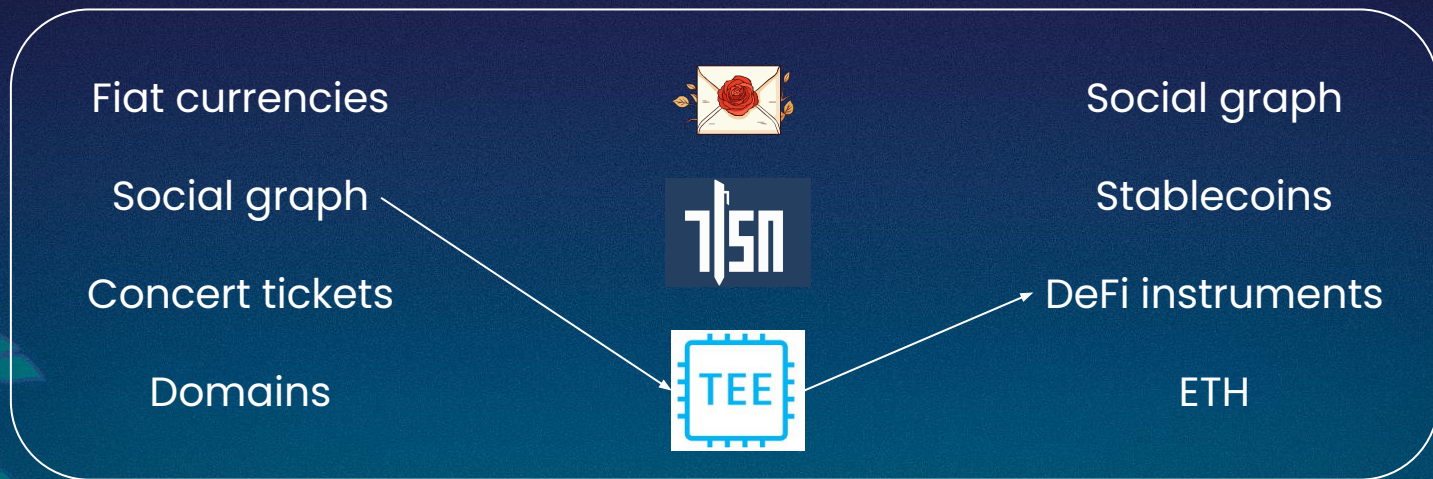
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Web2 <> Web3 Integration



- With cryptography (and TEEs), now you can compose web2 actions with web3 actions

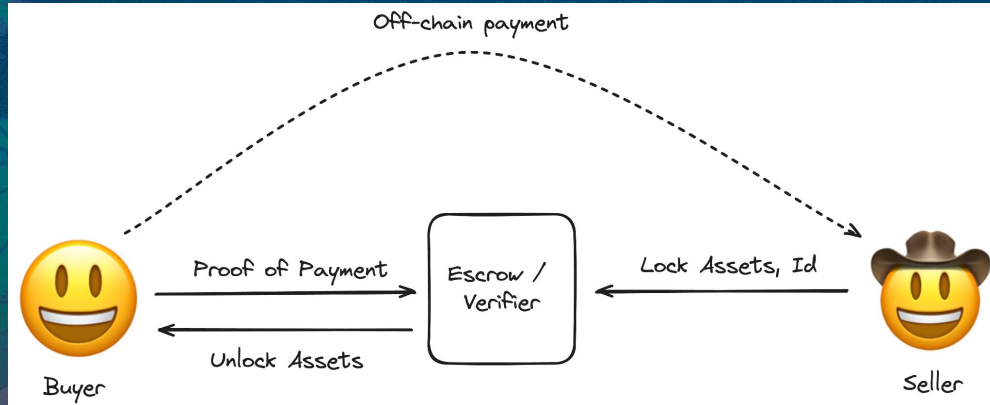
Web2 <> Web3 Integration



- With cryptography (and TEEs), now you can compose web2 actions with web3 actions

Example: P2P Onramp / Forex

- ZKP2P - trust minimized P2P marketplace for fiat <> stablecoins
 - Problem: ~6% fees all-in for existing solutions
- CEX (Binance) → escrow smart contract
- Manual unlock of escrow → instant unlock upon satisfying predicate using ZKEmail and TLSNotary proofs

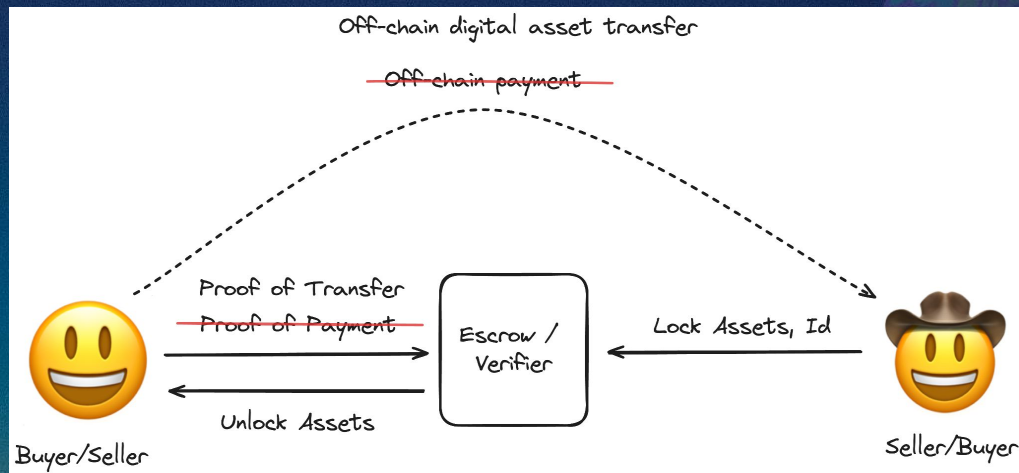


The screenshot shows a "Swap" interface with the following elements:

- Swap** title with a settings gear icon.
- Platform** dropdown menu showing "Venmo".
- Currency** dropdown menu showing "USD" with a US flag icon.
- Requesting** field showing "10".
- Balance** field showing "0 Max USDC".
- You send** field showing "10.24".
- Best available rate** field showing "1.023 USD".
- A red button labeled **Complete Registration**.
- An **Instructions** dropdown menu at the bottom.

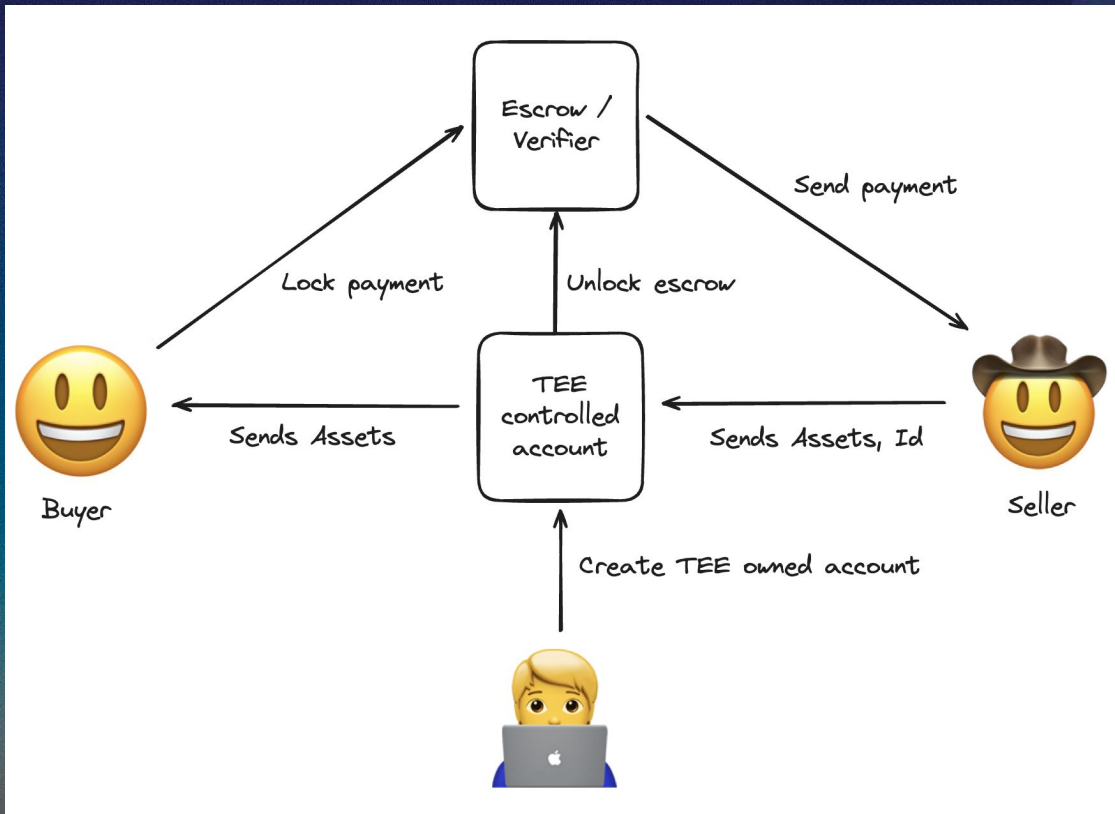
Beyond fiat P2P marketplaces

- P2P trading tickets ✓
- P2P trading domains ✓
- P2P trading social media handles
- P2P trading CS Go skins
- P2P trading gift coupons etc
- P2P trading of ZK proofs (identities)



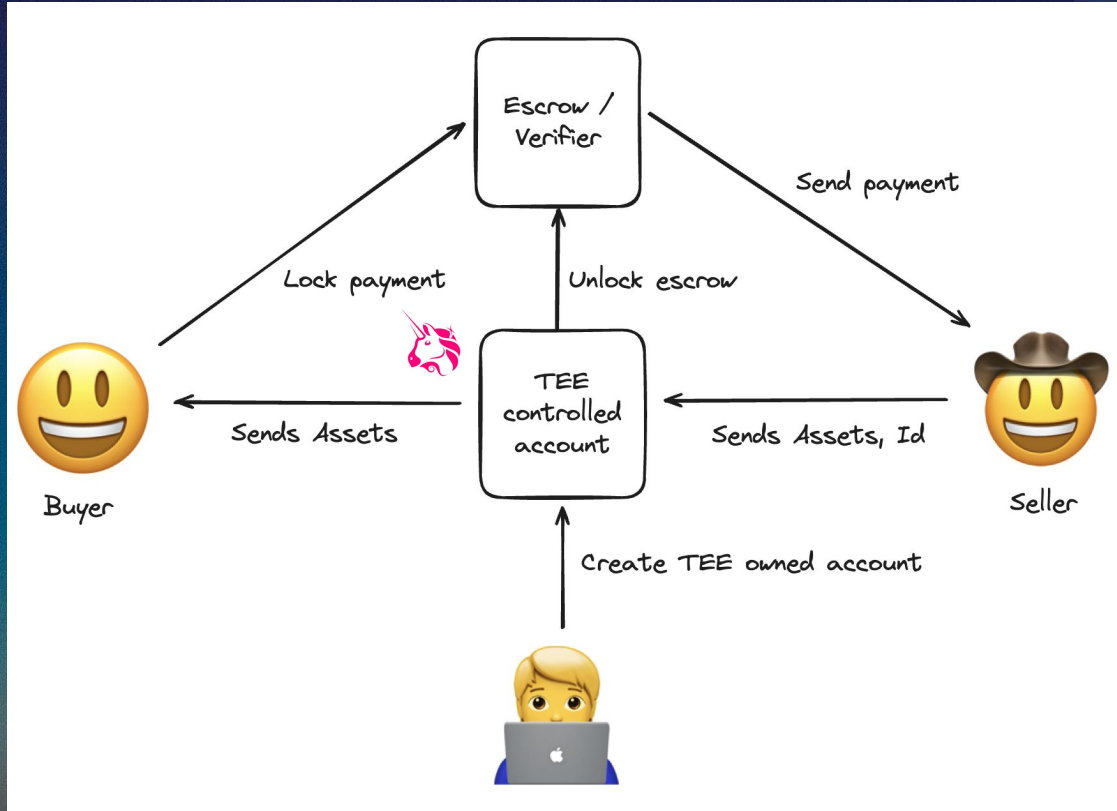
Beyond P2P (TEEs)

- Put web2 account in a TEE
- Trusted third party



Beyond P2P (TEEs)

- Now the web2 account is programmable. I.e. TEE AMM
- Unlock escrow and send off-chain asset in 1 transaction



Time to build!

- The design space is huge for trust minimized marketplaces
- The tech is ready
 - zkEmail
 - TLSNotary
 - Proxy TLS (Reclaim)
 - TEEs
- Time to bring the real world onto Ethereum!

Thank you!

Richard

ZKP2P

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