Loopring

Decentralized Token Exchange Protocol

Loopring Foundation
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v1.0

2006 Google
Tech-Lead

2010 yunyun.com
Cofounder &VP

2012 JD.com
Senior Engineering Director

2014 Coinport Exchange
Founder &CEO

2015 Hygene Online
Cofounder &VP

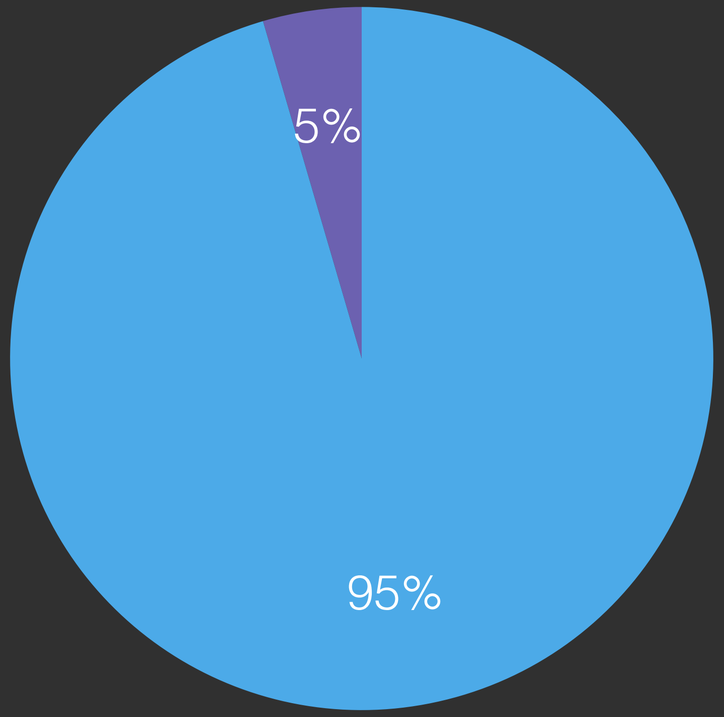
2016 Zhongan Insurance
Senior Director &
Blockchain Researcher

Loopring

Problems → **Solutions** → **Ecosystem**

v1.0

Loopring **Problems**



$135B

$6.5B

https://coinmarketcap.com

Loopring **Problems**

Problem#1: Lack of Security

Problem#2: Lack of Transparency

Problem#3: Lack of Liqudity

Loopring **Problems**

Loopring

Decentralized Token Exchange Protocol

Problem#1: Lack of Security

Problem#2: Lack of Transparency

Problem#3: Lack of Liqudity

Loopring **Solutions**

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1. No Custody

No asset deposit or withdrawal. Asset is always held by wallet in owner's own address. Asset not locked by orders and can be spent after orders are placed.

2. Settle on Chain

Orders are created and broadcasted off-chain; but settlement are performed on chain using smart-contract. No insider's trading.

3. Order Sharing & Ring-Mining

Orders are shared among all ring-miners to form a global virtual order-book with maximum liquidity and minimum spread. Matching is done in a competitive way for near real-time fulfillment.

Problem#1: Lack of Security

Problem#2: Lack of Transparency

Problem#3: Lack of Liqudity

Mining Example

Mining Example

order#1

originator: address_X
selling: 10000 token_A
purchasing: 10 token_B

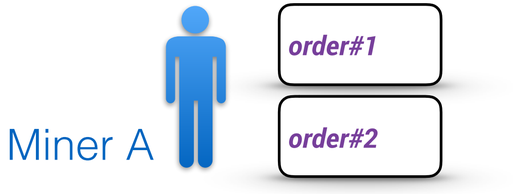
order#2

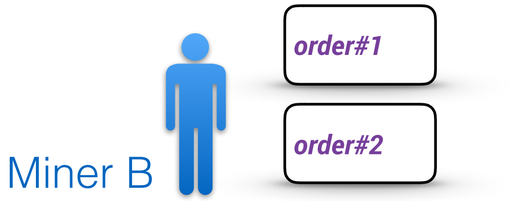
originator: address_Y
selling: 5 token_B
purchasing: 4500 token_A

Mining Example

order#1

originator: address_X
selling: 10000 token_A
purchasing: 10 token_B





order#2

originator: address_Y
selling: 5 token_B
purchasing: 4500 token_A

Mining Example

order#1

originator: address_X
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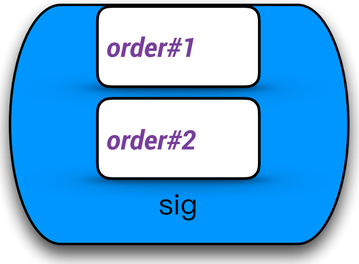

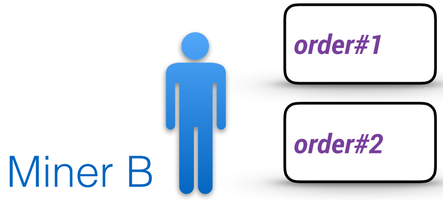

order#2

originator: address_Y
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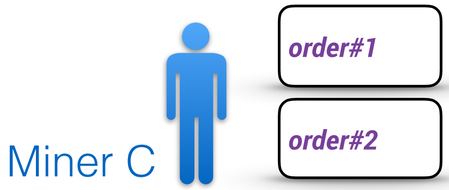
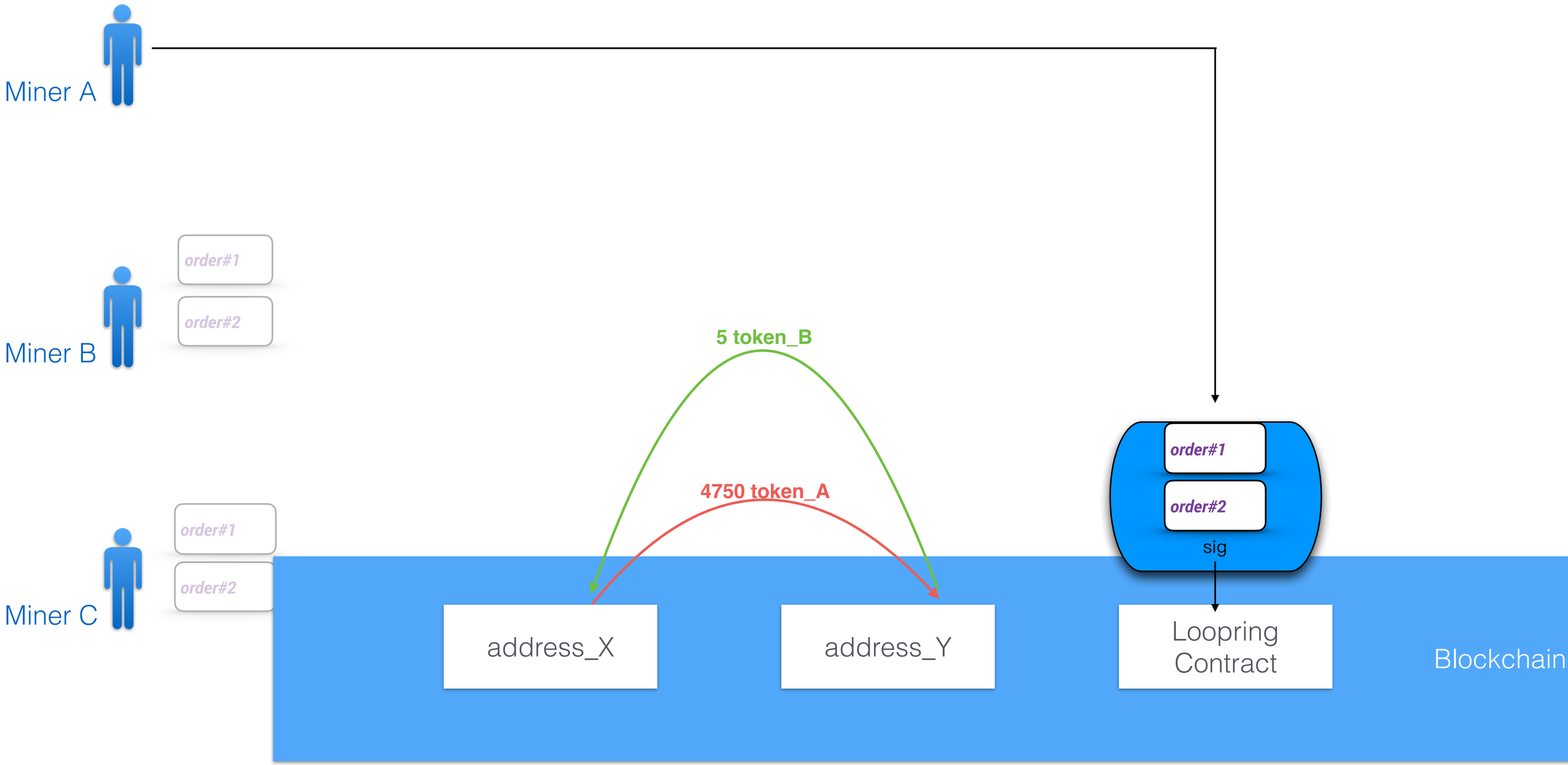


Mining Example


Miner A
Miner B
order#1
order#2
Miner C
order#1
order#2
5 token_B
4750 token_A
order#1
order#2
sig
address_X
address_Y
Loopring
Contract
Blockchain

Order-Ring Example

order#1

originator: address_X
selling: 10000 token_A
purchasing: 10 token_B

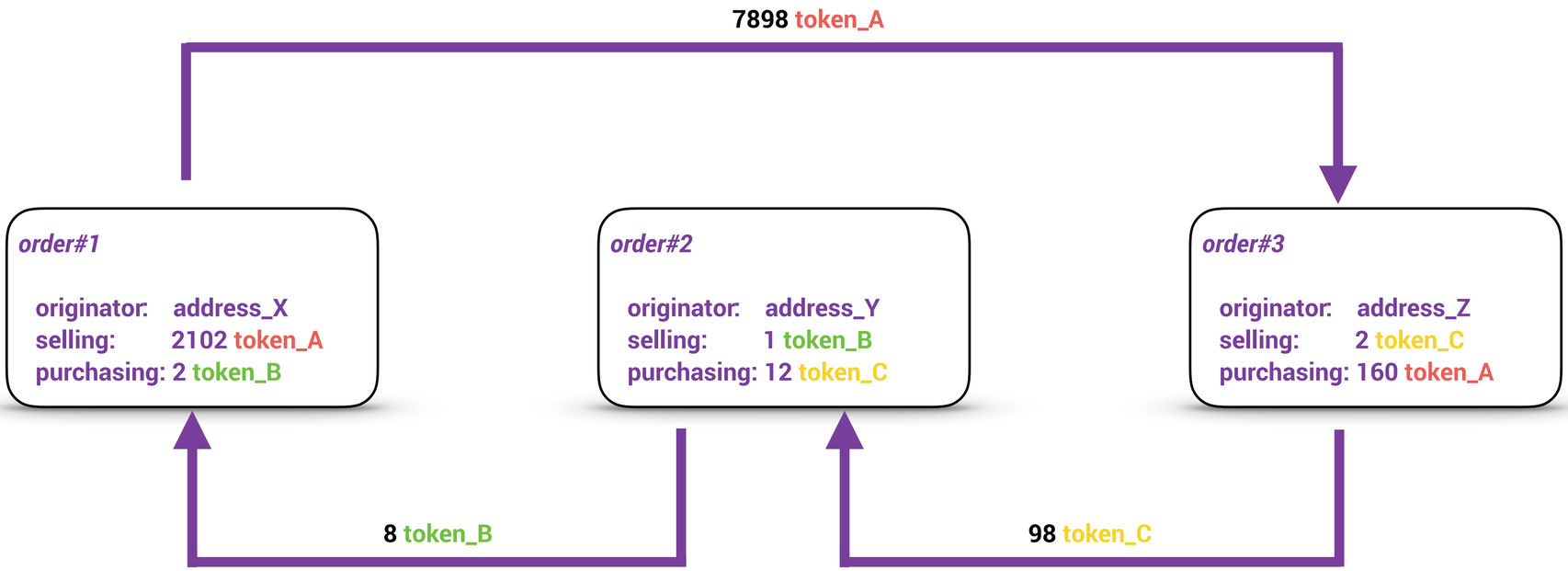
order#2

originator: address_Y
selling: 9 token_B
purchasing: 110 token_C

order#3

originator: address_Z
selling: 100 token_C
purchasing: 8000 token_A

Order-Ring Example



Order-Ring Example

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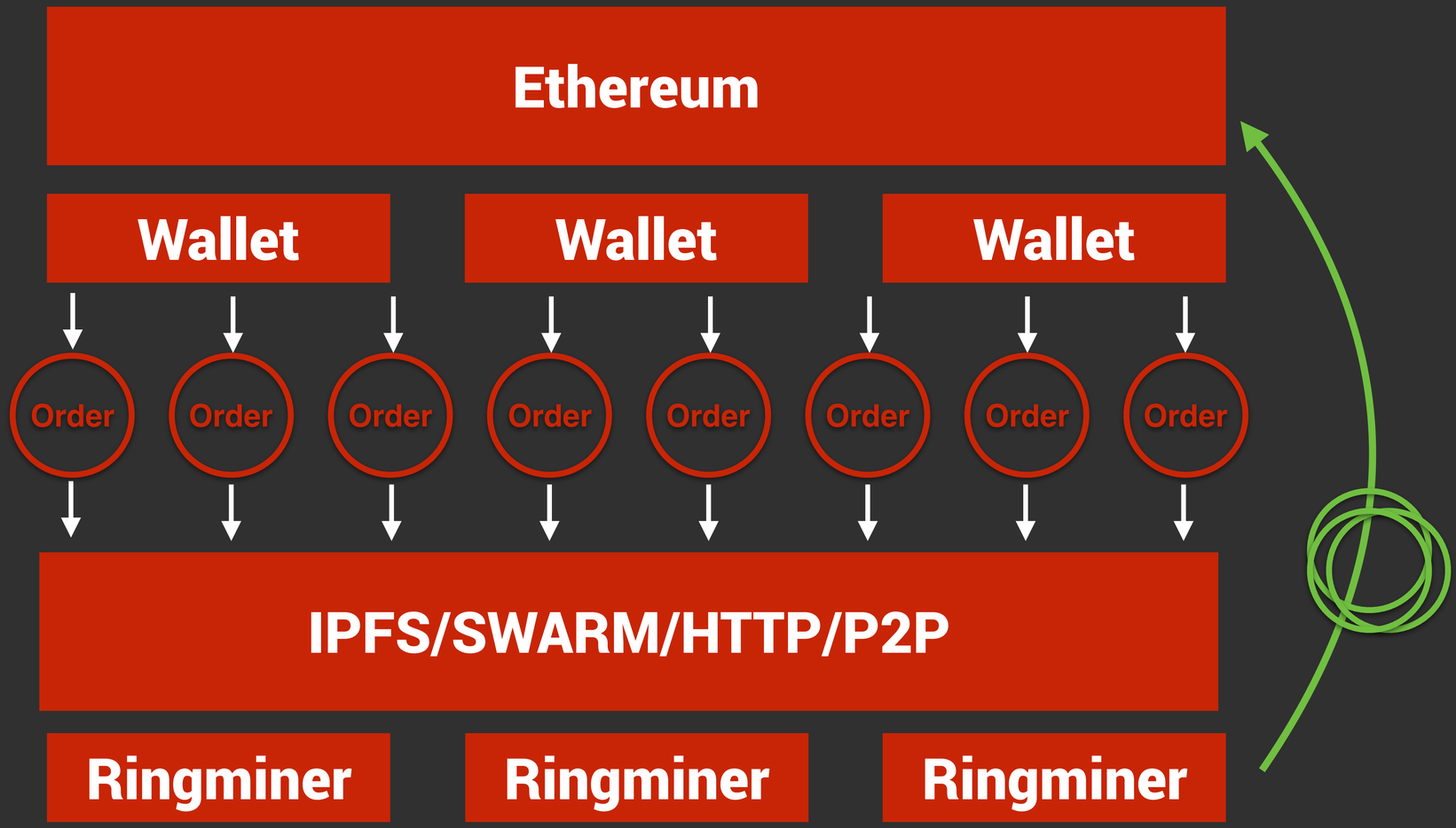
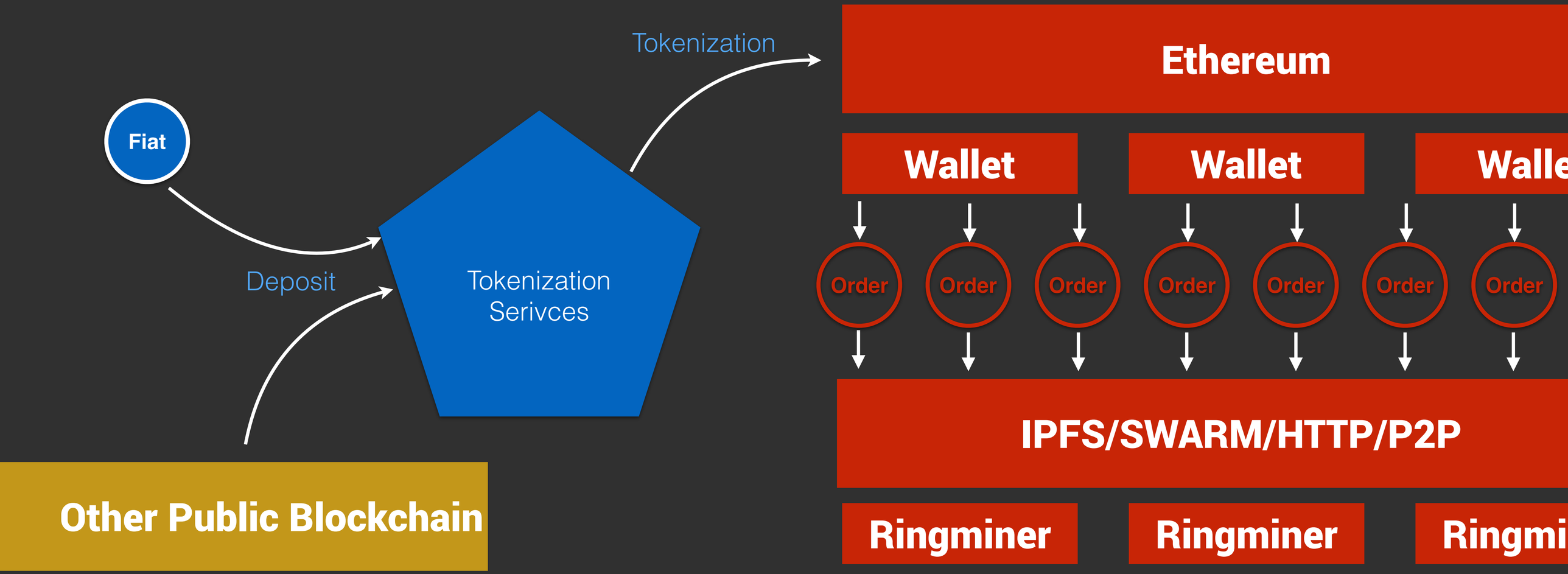
Problems → **Solutions** → **Ecosystem**

v1.0

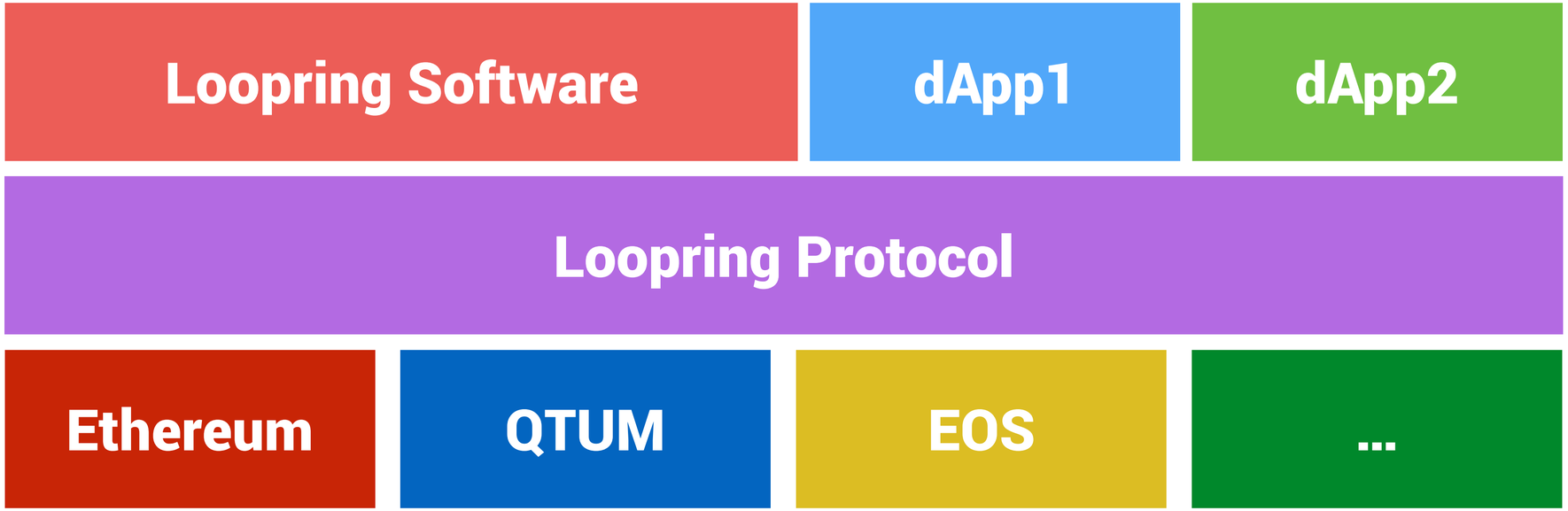
Loopring **Ecosystem**



Loopring **Ecosystem**



Loopring **Ecosystem**



Loopring can be deployed to blockchains that support smart-contract and ERC20 standard

Loopring **Ecosystem**

Loopring

Decentralized anonymous and secure

Offchain orders/onchain settlement boosted performance

Ring-mining higher liquidity

Order Sharing smaller spread with high liqudity

Multi-chains Applicable to multiple blockchains

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