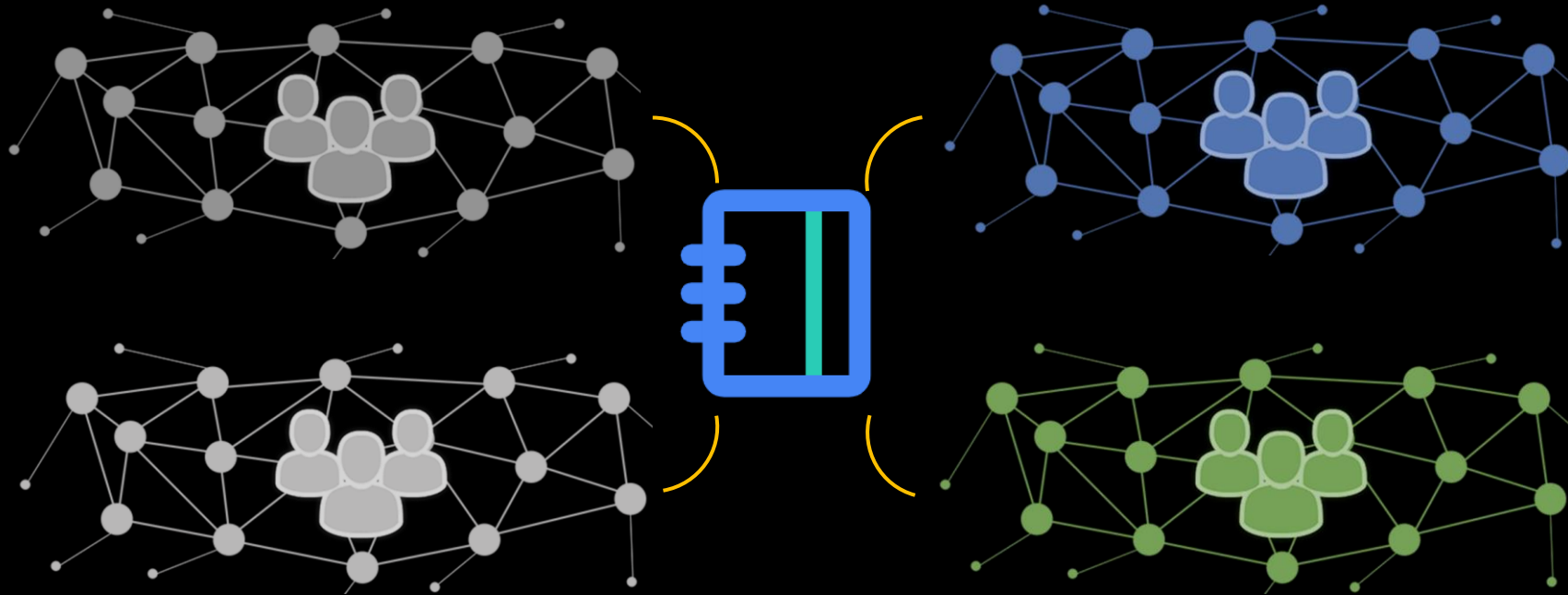


Omniverse Protocol stack

A decentralized general ledger of all chains

Omniverse Labs

We are Building



A decentralized general ledger of all chains——

- ❑ An DLT protocol stack built on diverse existing L1 chains, including Substrate , EVM, WASM.
- ❑ Enabling omnichain Integrated operations for Token, such as transfer, receive, and exchange.

Token is the impetus of Web3

Extrinsic Properties

- ❑ Asset
- ❑ Currency
- ❑ Security
- ❑ Vote
- ❑ ID
- ❑ PFP

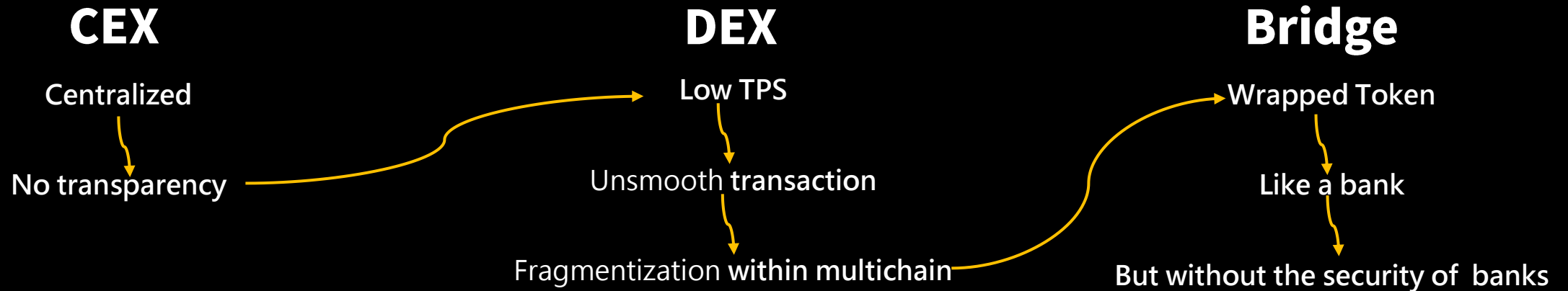
Vary with Projects

Intrinsic Properties

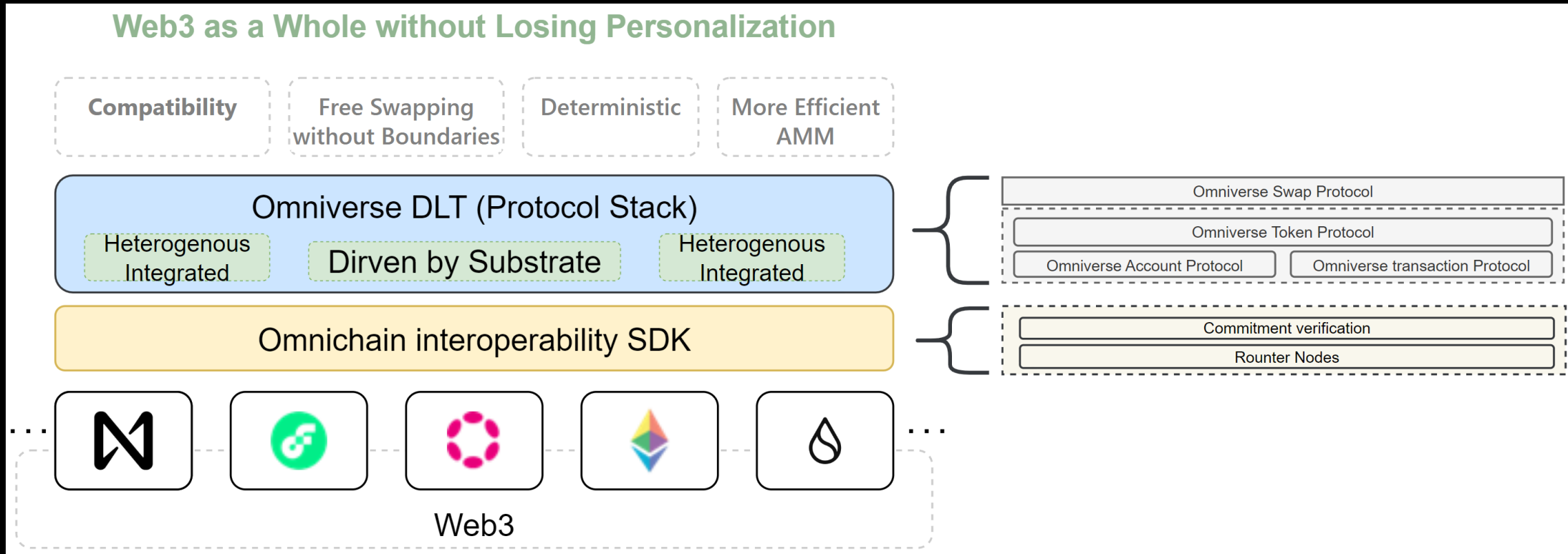
- ❑ Transfer
- ❑ Receive
- ❑ Exchange

Depend on Protocol

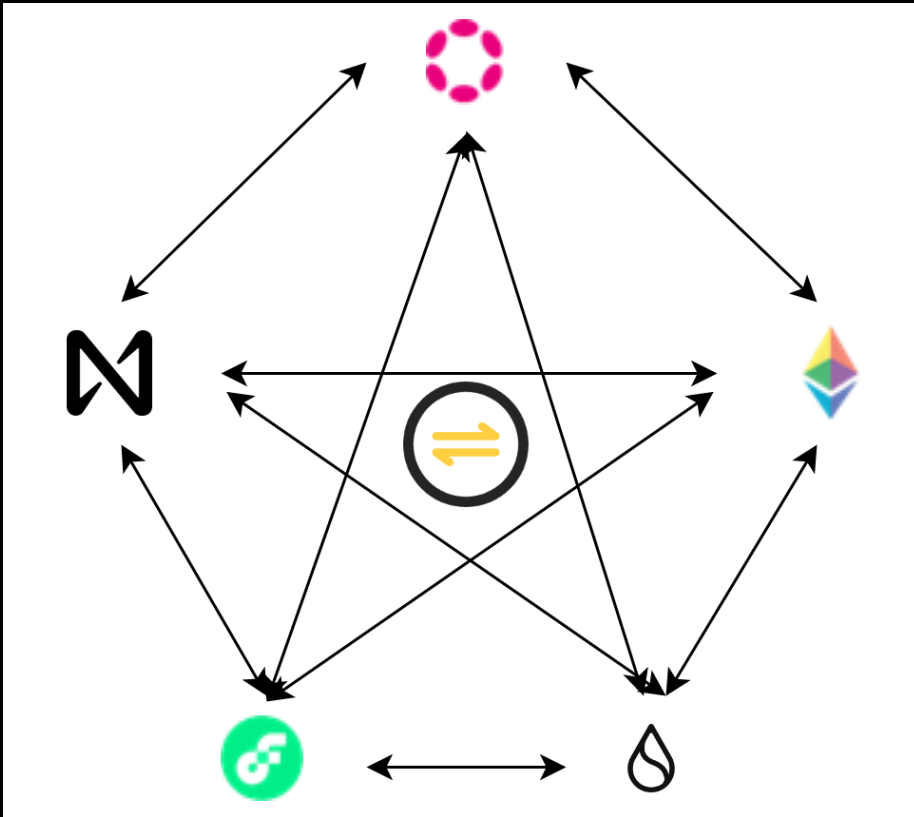
Problem of token processing



Omniverse Protocol Stack



Carrier of Protocol Stack



We present the concept and functions in

- ❑ A DEX in form of Parachain
- ❑ Can also run independently
- ❑ Build with Substrate
- ❑ Using the AMM method
- ❑ Tokens of different chains can be swapped directly

The output available for all



Token standard Proposal

- ❑ An omnichain account can be checked and controlled through one SK on any chain supported
- ❑ An omnichain token can be transferred and received through one SK on any chain supported



Parachain pallet

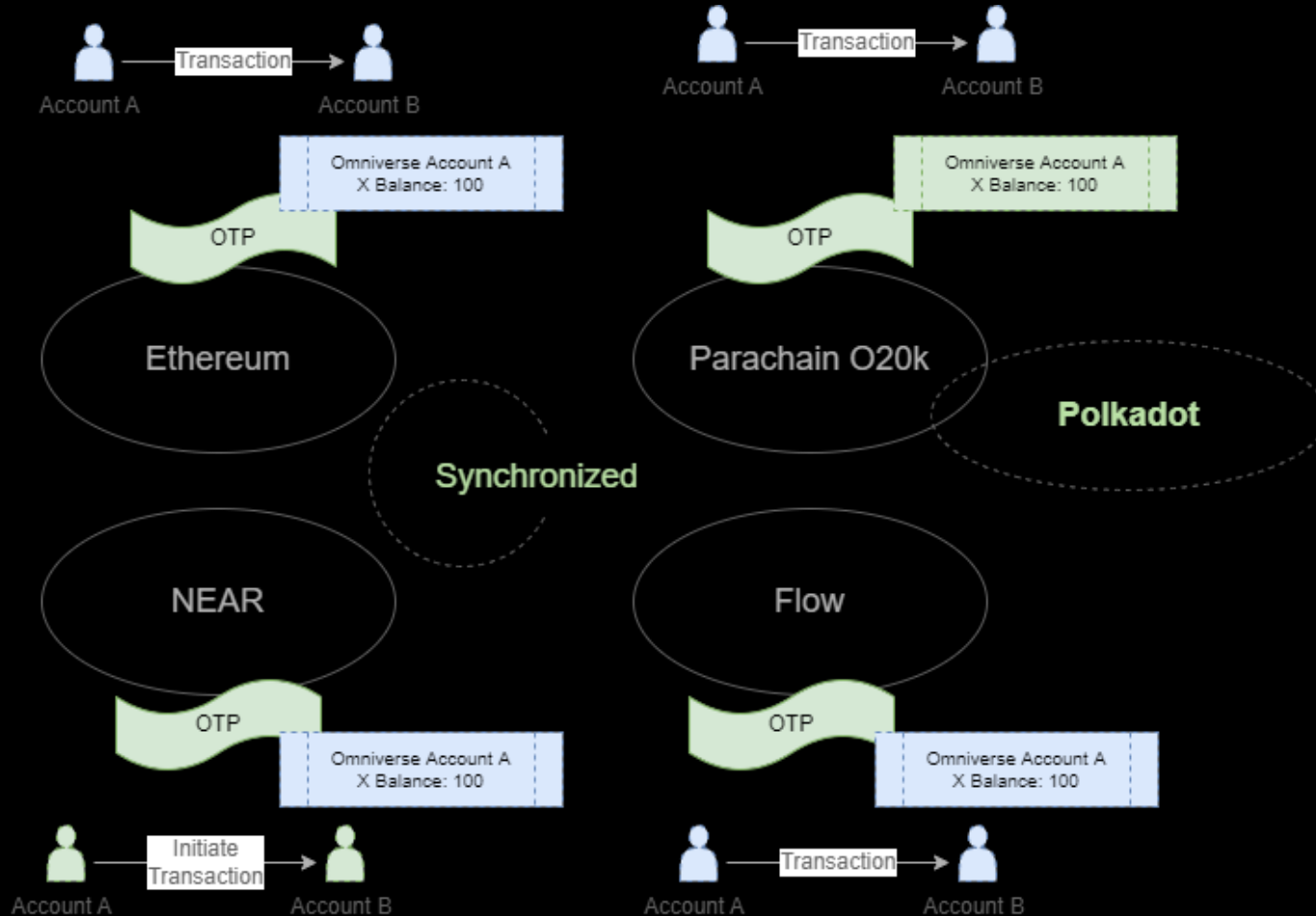
- ❑ A blockchain built with Substrate for decentralized exchange, can run independently or as a parachain
- ❑ Omniverse tokens can be swapped with each other directly, efficiently and smoothly among different chains



Mathematical model

- ❑ An AMM model that has the trait to balance smoothness and price sensitivity at the same time
- ❑ The parameter can be calculated by one validator nodes and can be verified easily by the others

Token standard proposal



Omniverse Account

- ❑ Based on a common elliptic curve
- ❑ Global Signature and verification mechanism

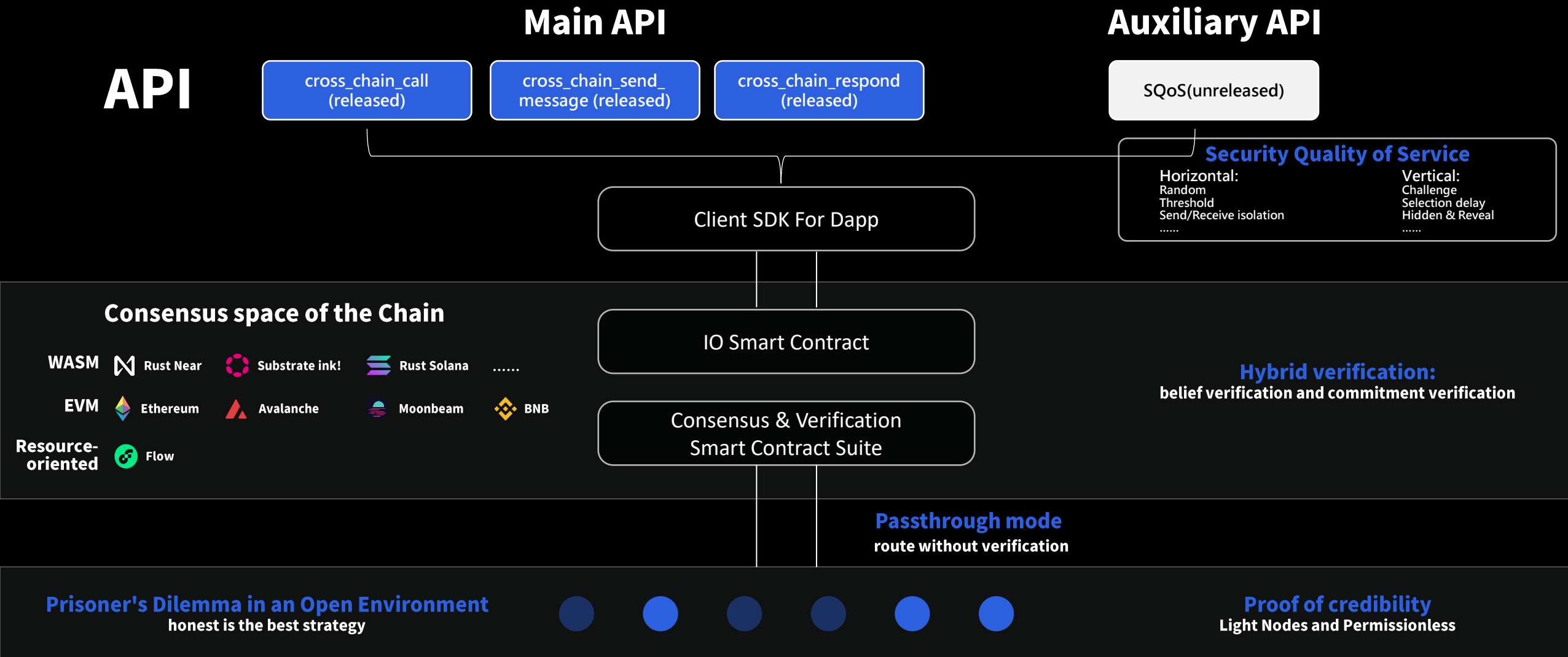
Omniverse Transaction

- ❑ Global nonce

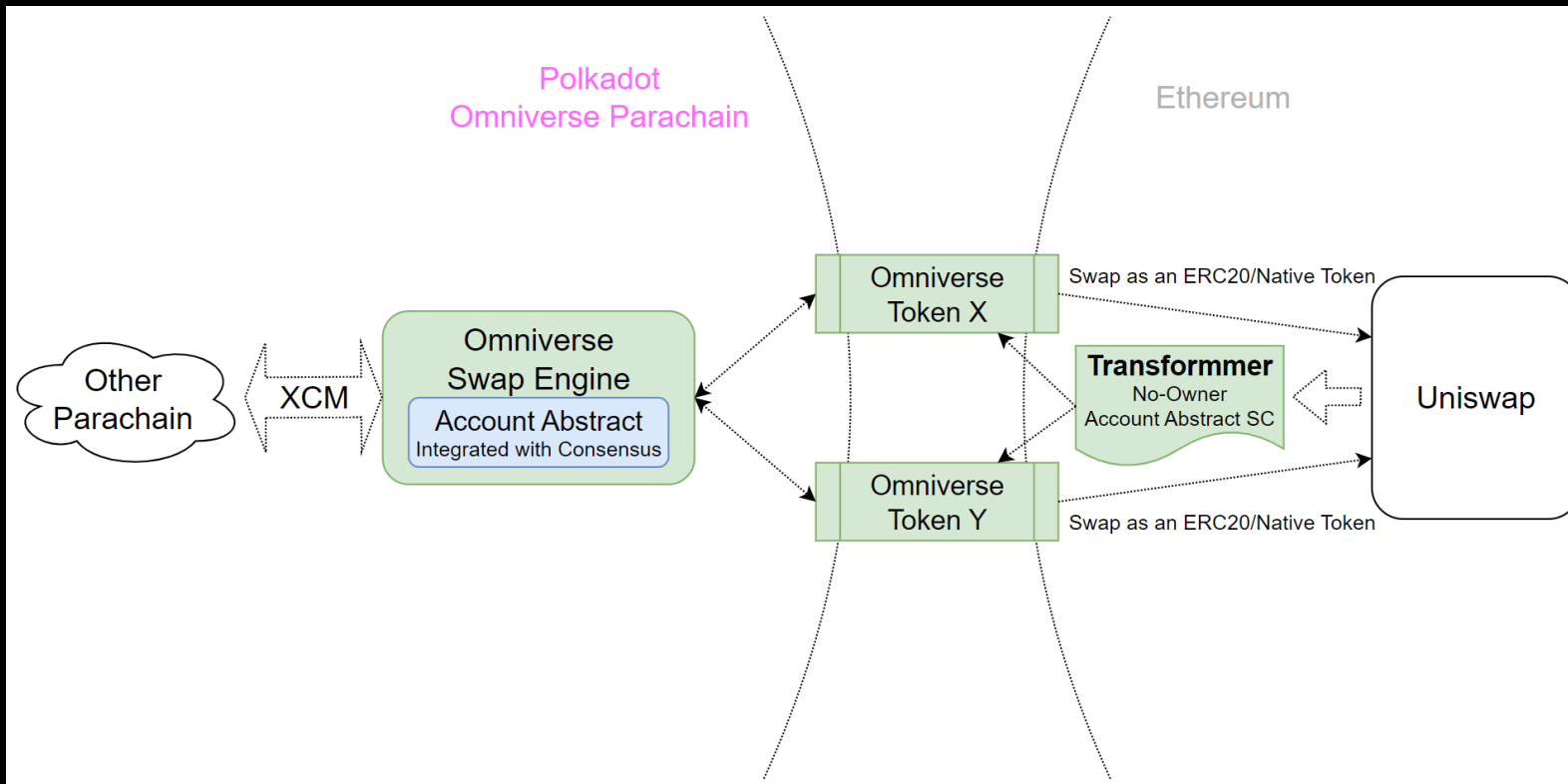
Omniverse Token

- ❑ Global status
- ❑ Downward compatibility

P.S: Dante Network



How to use Omniverse Token



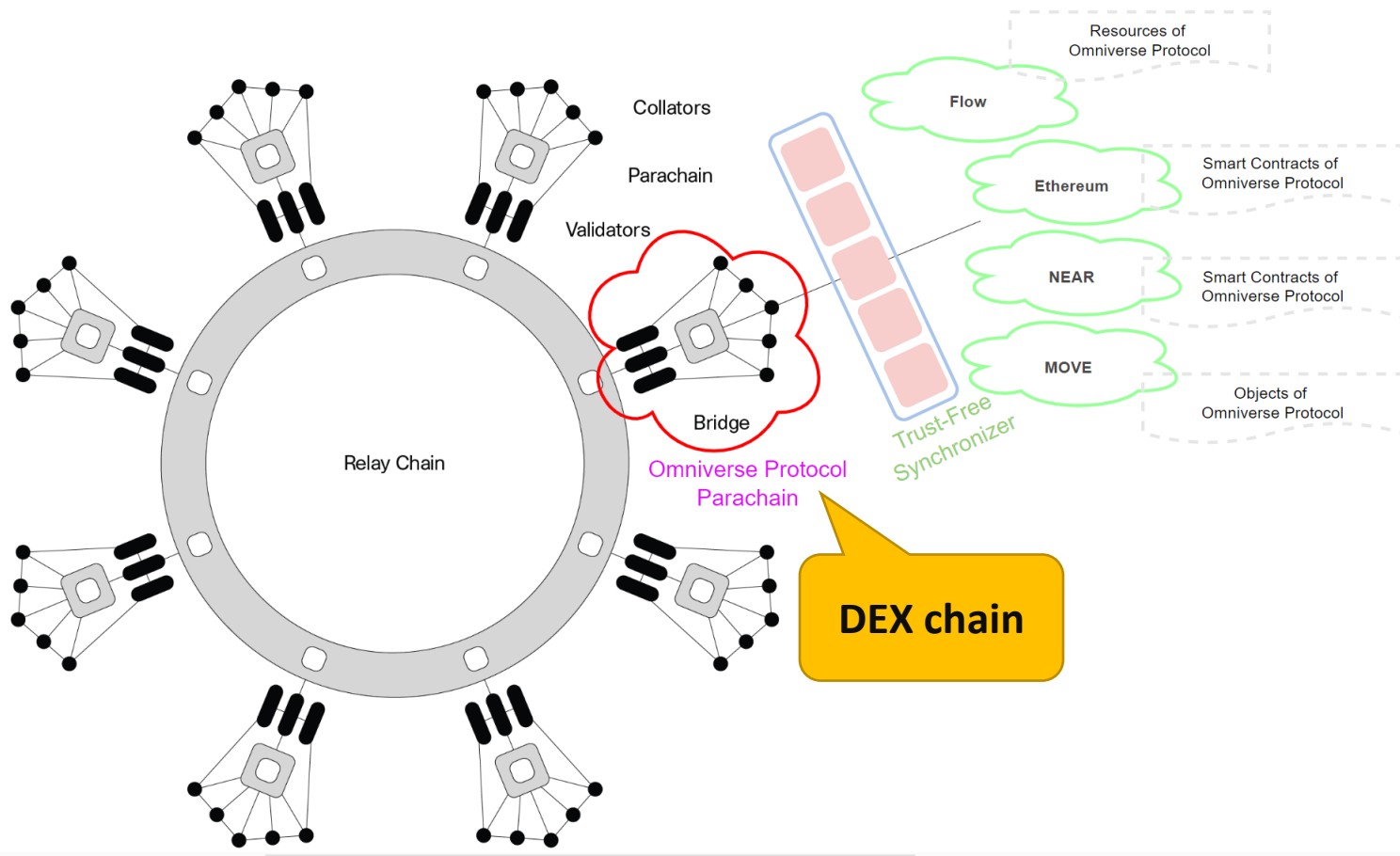
New Omni token

- ❑ Can be use within different chains
- ❑ Can be used as native token (like ERC20)

Existed native token

- ❑ Transform by an AA SC
- ❑ No owner, no super authority
- ❑ follow the open-source code logic

Application chain for DEX



Consensus Mechanism

- NPoS

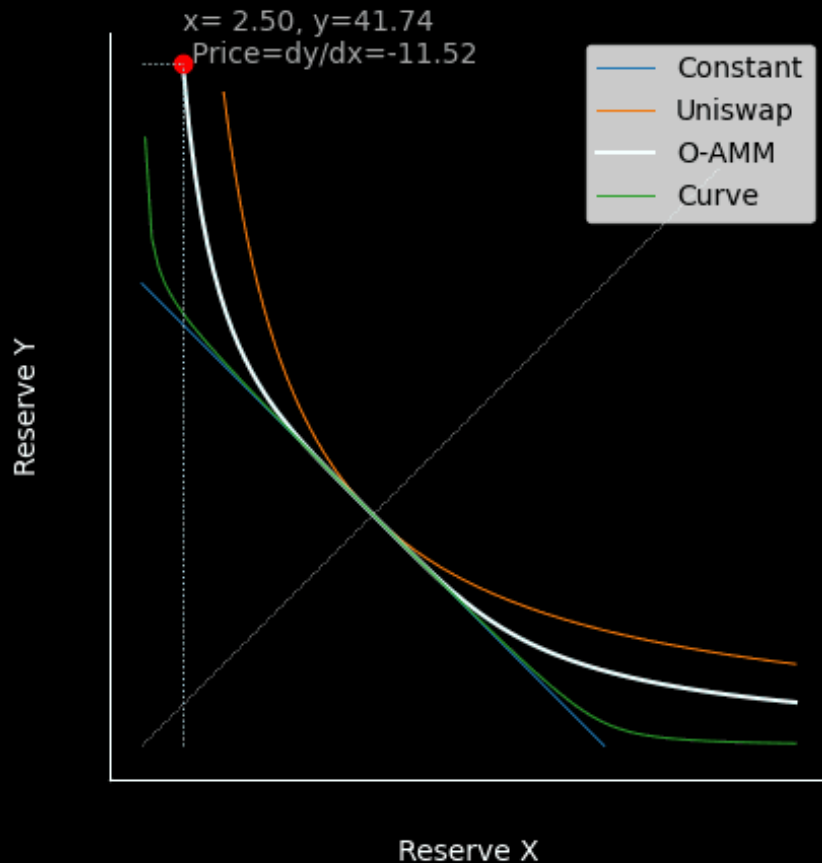
Consensus Content

- Generate the parameter of the AMM
- Calculate Y according to X
- Verify if X and Y is correct
- Execute the exchanges if it's legitimate

Block Data

- The record of exchanges happened
- Parameter of the MPC account

The AMM model



$$\alpha(-(x^2 + y^2) + bx + by) + 2(1 - \alpha)C = 2xy$$

$$\alpha = xy / \left(\frac{x+y}{2}\right)^2$$

$$C = x_{init} * y_{init}$$

$$b = 2\sqrt{C}$$

- ❑ Smoothness and price sensitivity
- ❑ Calculation has limited complexity
- ❑ Verification is very simple and quick
- ❑ Calculated off chain and verified on chain

DEMO

<https://o20k.s3.us-west-2.amazonaws.com/omniverse-swap.mp4>

Highlight Features

Boundless

Token can be used in diverse chains just like used in single chain

Deterministic

Based on cryptographic signature instead of trust guarantee

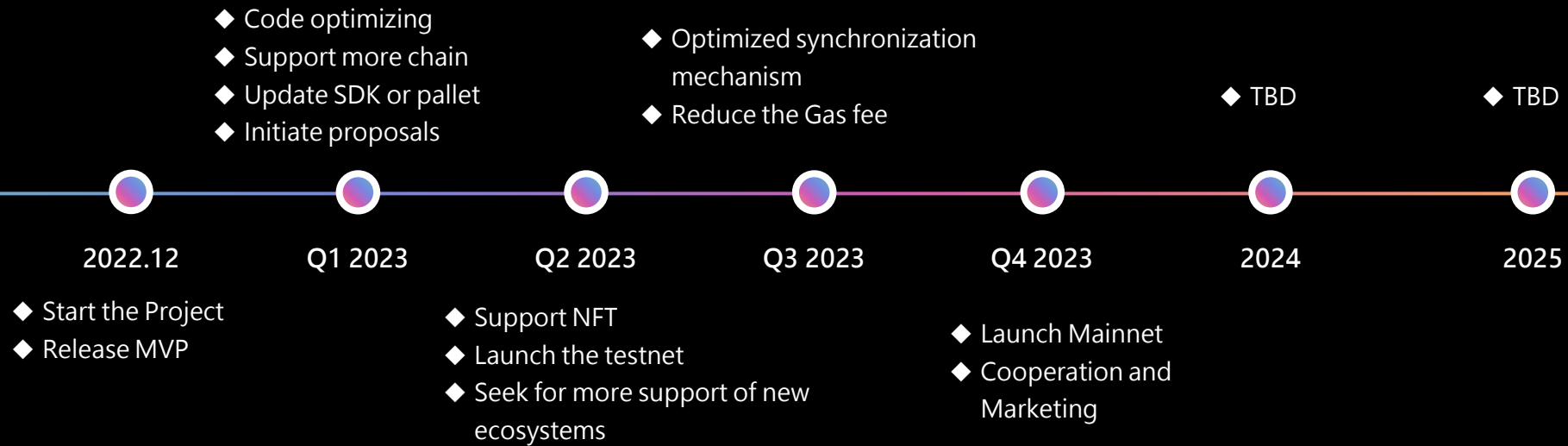
Efficient

Combining liquidity, trading smoothness and price sensitivity

Compatibility

Compatible with existing protocol standards like ERC20

Milestone



Team

Web3 OG focusing on infrastructure

Grants



NEAR Grants



Flow Grants



Web3 Foundation Grants

Field

Staking service tool

Decentralized storage

Privacy contract

Cross chain

Thanks