OpenSquare
Network

a BlockChain Based Collaboration and Reputation Platform

Centralized System Dominated
User Data

Oligarchs formed during the development of Web 2.0, which control one or more internet platforms. Users' activities, like consumption, making friends, sending emails and collaboration, are tracked by these platforms. Though personal business supported, users' data is kept in these centralized platforms.

Oligarchs make profits by processing and selling users' data, while users benefit little from their data. Moreover, data in these centralized systems is separated, and can not be merged together to maximize the service provided to users.

In our opinion, Web3.0 should solve the above the problem in following ways:

1 Users benefit from their own data

The data generated by users has value itself, and of course users should benefit from it.

2 Open, transparent and tamper-resistant user data

Users' privacy data should be guaranteed in technical ways. Non-private data is the basis for providing personalized services to users. This part of the data should be open and transparent to any service party, and it can not be tampered by storing in blockchain.

3 Normalize users reputation model to provide accurate service

Open and credible data make it possible to build reputation, which will reduce the cost for users' collaboration.

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Dedicated to Build a Collaboration & Reputation Platform in Web3.0

OpenSquare will support users to collaborate in a new way compared to most platforms under Web2.0. Under this way, users' collaboration data will be stored openly and transparently, and the data security is guaranteed by the open blockchain network. Any organization can provide users personalized services by tracking and parsing the open collaboration data.

OpenSquare will mainly solve following problems:

Decentralized collaboration

Build a reasonable collaboration reward mechanism

Build users trusted reputation building model

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Decentralized Collaboration

In a decentralized context, users' collaboration data is maintained by multiple distributed validators, and any single system participant can not change the users collaboration history. And the user data identified by address is stored on blockchain transparently.

Blockchain makes decentralized collaboration possible. In the execution context of blockchain, users initiate collaboration, respond to collaboration messages, update collaboration progress, and settle the collaboration fund in the form of transactions.

Bounty Created > Bounty Collaboration > Reputation Grow

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Multiple Collaboration Modes

Bounties

Focusing on bounties, users' operation may include creation, review, approval, hunting, submission, etc.

Short-term Employment

Collaborators usually worry about payment issues in the process of short-term collaboration, for example, how to pay and the payment channel. On the OpenSquare platform, users can flexibly customize the payment cycle and manage the start and end of collaboration.

Payment Questions

For domain knowledge, users can post questions on the OpenSquare platform with corresponding digital currency locked for this. When an answer is adopted by the question owner, the author can get the fund.
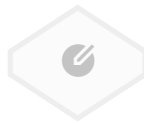
Custom Collaboration

To support users' flexible collaboration needs, OpenSquare will extract common collaboration units. Users can combine, set, and manage these units to support their customized business .

OpenSquare will explore other collaboration modes based on user needs.

Collaboration
Mining

The economic model is the soul of a blockchain system, and a healthy economic model should give participants economic incentives based on their contributions. OpenSquare mainly includes the following participants:

Collaborators
Main platform users who contribute collaboration data

Council
Handle disputes between collaborators, allocate treasury and deal with other on-chain business

Validators
Maintain network security

Whistleblower
Report cheating among collaborators

In a reward cycle, validating nodes and councils will receive a certain percentage of rewards, and the rewards of collaborators will be proportional to their mining power in this cycle. The mining power of a collaborator is generated by the influence of his collaboration. Generally speaking, the more collaboration of users, the greater the contribution of collaboration to the platform, and the greater his mining power. For whistleblowers, their mining power is directly proportional to the cheating behavior reported correctly.

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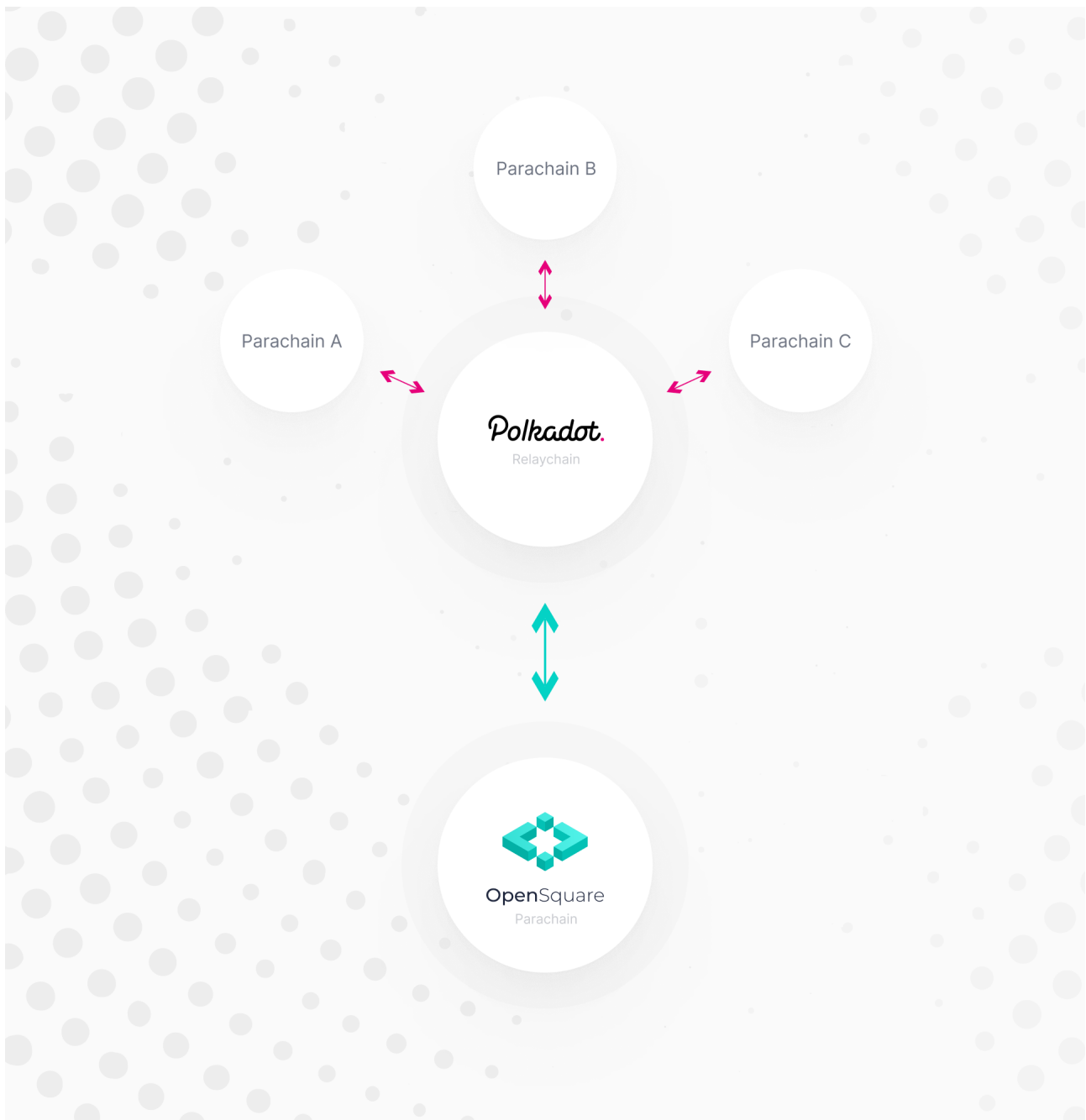# Multiple Reputation Indicators

Behavior Score

OpenSquare will extract some atomic collaboration units for different collaboration behaviors, and define the collaboration result of these units as behavior, while each behavior has corresponding reputation score. As users' collaboration behaviors grow, the behavior score grow. Behavior score has no range limitation, and the final score is related to the users' historical behavior. The more positive behaviors, the higher the behavior score, while the more negative behaviors, the lower the behavior score.

General Score

It's not very easy to judge the reputation score to check the behavior score directly. OpenSquare will introduce general score to normalize the reputation score which will result in (0, 100). General score will help users to compare reputation. For example, when funders need to choose one from many bounty hunters, they can take the general score as a referral.

Feature Score

People have diverse credit characteristics, and general score can not reflect a certain one of them. OpenSquare will divide on-chain behaviors to categories, third party service providers can combine different behaviors to customize a single aspect of the user's reputation.
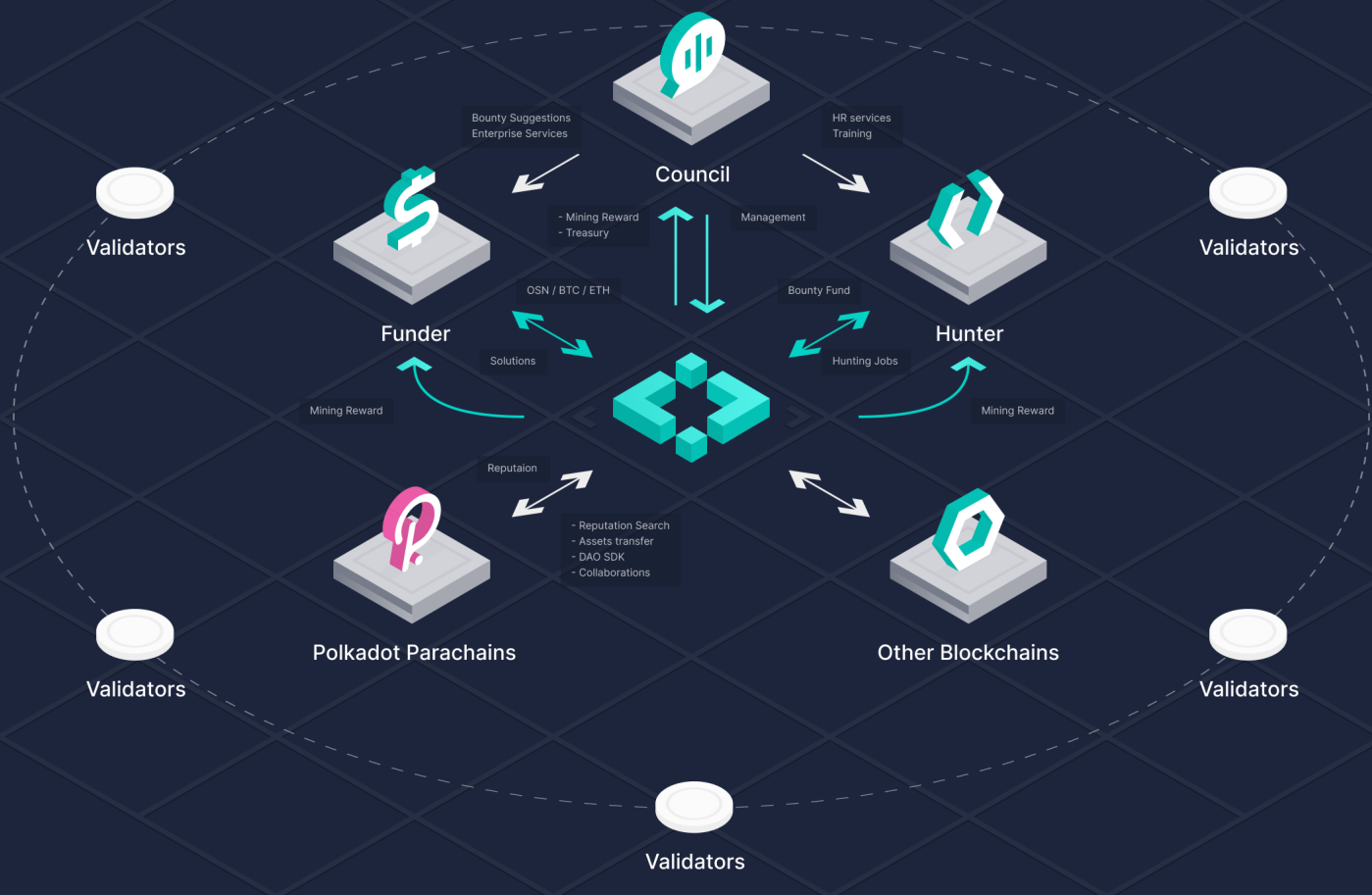
Polkadot
Ecology

- Run as a Polkadot para-chain finally.
- Assets on other parachains can be transferred to OpenSquare as collaborative settlement currency.
- Users of other parachains can collaborate on OpenSquare.
- Other parachains can query users' reputation and collaboration history from OpenSquare.

Non-Fungible Token(NFT)

With the development of the platform business and the growth of users, OpenSquare will issue NFTs with corresponding characters. The NFT types may include:

1 NFTs which represent platform rights

For example, to funders holding the corresponding NFT, their bounties may be displayed on top or front of other ones; to hunters , holding the NFT may make them highlight among the bounty applicants.

2 Platform commemorative NFT

For example, OpenSquare may issue some anniversary and user growth NFTs , holders will get additional mining power or other rewards.

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Token Economy

Participants

- Funder: Create, assign bounties
- Hunter: Hunt and resolve bounties
- Council: Review and give feedback to funders' bounty, handle disputes between funders and hunters, do governance.
- Validators: Maintain network security, mint blocks and validate transactions.

Token Mining Model

OpenSquare mining cycle will be about one month, and mined tokens will be about 1.8‰-2‰ of the total amount. The mint tokens will be allocated to participants according to their contribution to the platform:

- Collaborators: Mainly include collaboration participants, proportion of each collaborator is determined by their contribution to the platform.
- Validators: Reward by the mint blocks.
- Treasury: Will be mainly used for the development of the OpenSquare ecosystem.
- Council: Reward for handling disputes, review bounties.

Mining ratios for each role will be decided by the platform governance.

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Token Economy

Token Utility

- Governance token for OpenSquare platform
- One of the first settlement currencies for platform collaborations
- Transaction fees for OpenSquare platform
- Platform profit distribution certificate. In normal cases, more OSN tokens holded, greater the dividend ratio

Roadmap

Development

2020 Q4
- Implement bounty collaboration mode
- Implement collaboration mining logic
- Development for DApp and explorer

2021 Q1
- Explorer the protocol to communicate with other Polkadot parachains
- Development and polish users' reputation model
- Implement short-term employment collaboration mode

2021 Q2
- Implement payment question collaboration mode
- Develop businesses to collect users' profile
- Implement the users' profile mining logic
- Launch testnet

2021 Q3
- Launch mainnet

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Roadmap

Ecosystem Building

⭐ **2020 Q4**
- Interact with the Polkadot ecosystem projects and establish a preliminary cooperative relationship
- Carry out activities for bounties collaboration, and establish the collaboration community

⭐ **2021 Q1**
- Explorer cooperation with other ecosystems, and try to introduce trustee based assets bridge mechanism
- Do research about the market, and introduce more collaboration modes

⭐ **2021 Q2**
- Invite early users when testnet launched, and some reward will be given
- Do research about the HR market which will guide the development of enterprise and user service products

⭐ **2021 Q3**
- Cooperate with partners to issue bounties after the mainnet launch, and attract users to hunt the bounties
- Conduct a certain enterprise service survey to prepare for the later enterprise service business

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