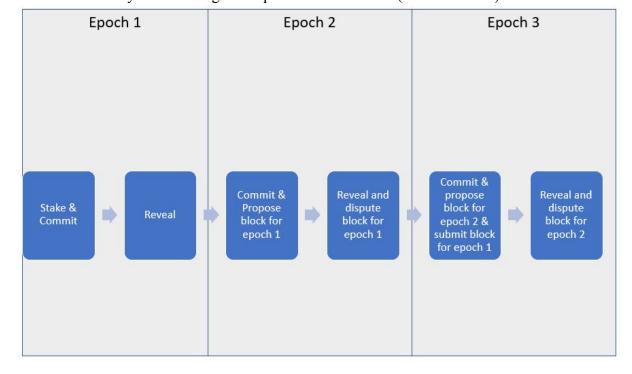
What is it?

Razor network is a general purpose oracle platform. Later multiple applications can be developed e.g. platform for creating delta one instruments.

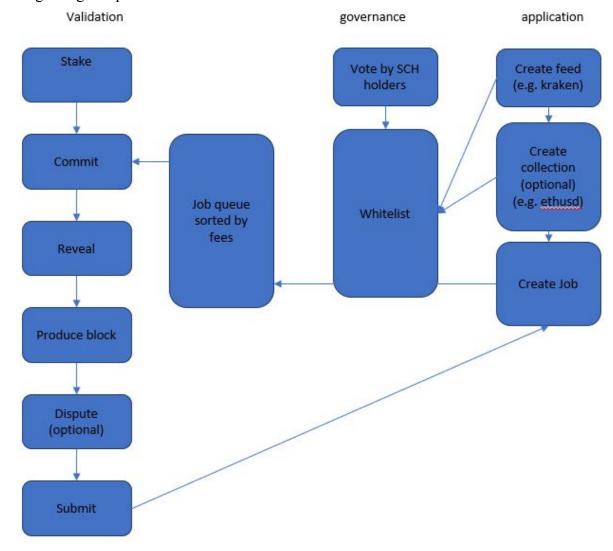
Oracle platform

- 1. Validators stake their schelling coins (SCH)
- 2. Each epoch consists of 50 blocks (12.5 minutes) (subject to change)
- 3. First 25 blocks are commit periods and next 25 are reveal period.
- 4. To stake, F schells must be burned. And minimum of Smin schells must be staked.
- 5. Influence: 1 influence per schell when you stake. E.g. if you stake 100 schells, your initial influence = 100
- 6. If withdrawn, influence becomes 0.
- 7. During commit period, following actions can be performed: stake, commit vote, unstake, withdraw, propose block for epoch (N-1), submit block for epoch (N-2)
- 8. During reveal period, following actions can be performed: reveal vote, dispute block proposed in epoch (N-1)
- 9. Incentives (schells): get block reward (e.g. 5 schells)
- 10. Penalties (schells) producing incorrect block: 100%, revealing secret in commit period: 100%.
- 11. Incentives and Penalties (influence): 100% for voting 0*M or 2*M+. In between a quadratic curve will be used. For +/-1% for weighted median, no penalty & will be awarded reputation cut from those not in consensus.
- 12. Median is a weighted median of votes. Weight = influence
- 13. Probability of becoming block producer =influence/(total influence)



Governance platform

- 1. Governance platform is necessary because malicious jobs can be created to hurt validators. E.g. creating a job for a url which gives random values. Since there would be no consensus, lot of validators will be penalized.
- 2. To use oracle, the URL must be whitelisted through governance process.
- 3. A vote will be taken using schell tokens to whitelist or blacklist a URL.
- 4. SCH holders should whitelist a URL if it is: reputed, consistent, can handle high load, if it is exchange, it is not having withdraw/deposit/trading/regulatory issues, response is not too big, is free, not hidden in darknet, not geo-restricted, etc.
- 5. Another feature of this platform will be to use collections. E.g. ethusd collection can contain 5 exchange feed URLs. if any of those exchanges are compromised or become defunct, governance process can remove the URLs from the collection and add new ones.
- 6. Decentralized assets can be minted using this collective feed and they don't have to rely on a specific feed.
- 7. In beginning this process will be centralized and will be decentralized over time.



Delta one platform

- 1. This platform will use above two layers to create synthetic assets. Any collections on the governance platform can be used to mint assets.
- 2. Users can provide collateral to mint new assets according to price-feed values. Collateral can be sch, eth and sUSD (schelling usd). Schelling usd stablecoin will be a preferred collateral (except for ETHUSD) since it will likely be least volatile compared to all assets.
- 3. Users can burn assets anytime according to price-feed values to get back their collateral.
- 4. When assets are requested to be minted/burned the next future available price-point will be taken as reference.
 - 1. E.g. if I request to mint TSLA 10am, the last traded price at the beginning of next epoch will be used as reference.
 - 5. When a position is under collateralized, anyone can liquidate a position by creating an update job for the oracle.
 - 6. To long, buy a synthetic asset off the market. To short, mint it and sell it on market.

