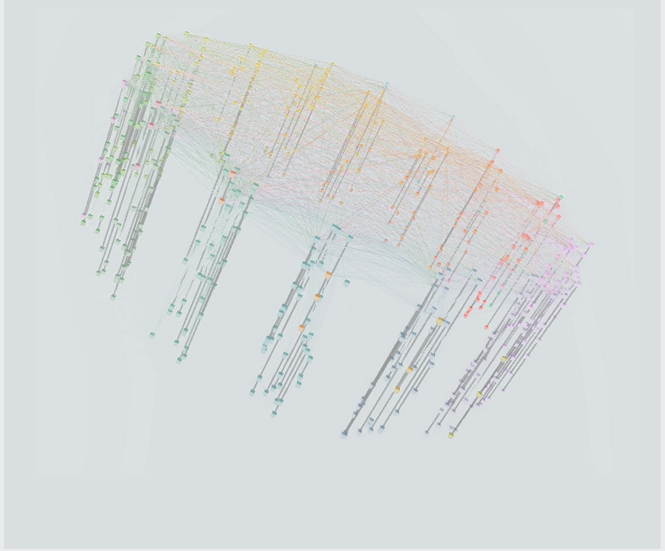
alephium

We are building the first scalable blockchain platform
that supports cross-shard transactions natively

INTRODUCTION

We are building the first scalable blockchain platform that supports cross-shard transactions natively. In addition, we have a practical solution for developers to buidl large-scale dapps using our token/data protocol and smart contract protocol.

The founder of Alephium proposed the first linear-time asynchronous Byzantine algorithm in 2015. Inspired by this work, he proposed another novel algorithm BlockFlow in 2017 to attack the scalability problem.



CONTACT

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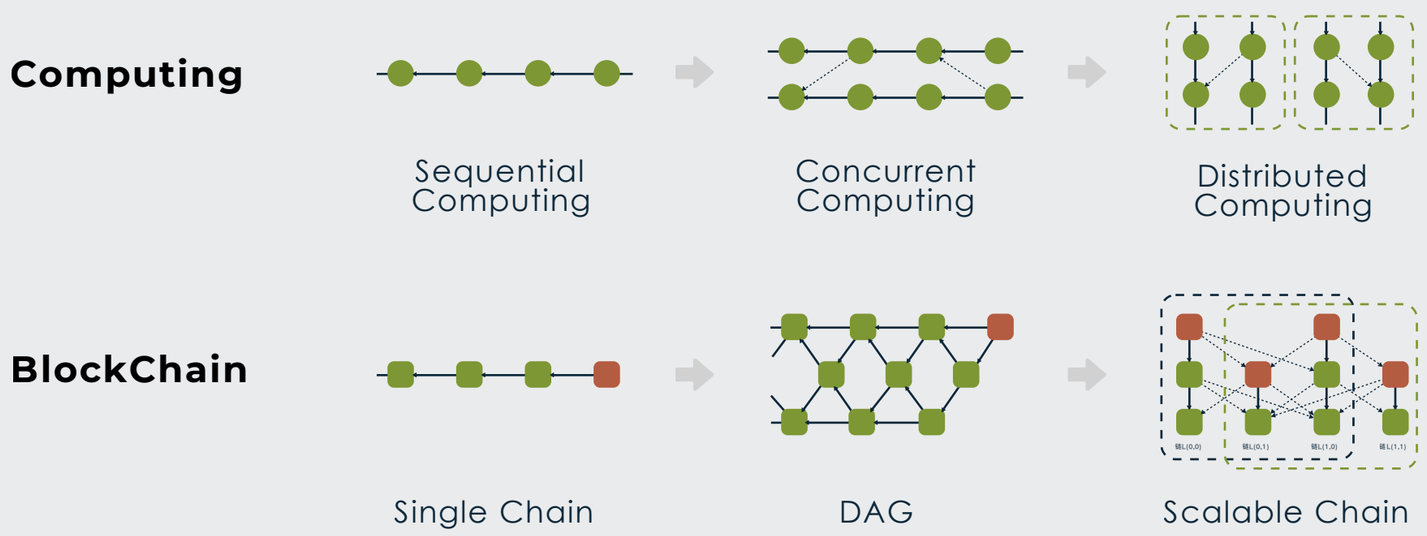
FROM BLOCKCHAIN TO BLOCKFLOW



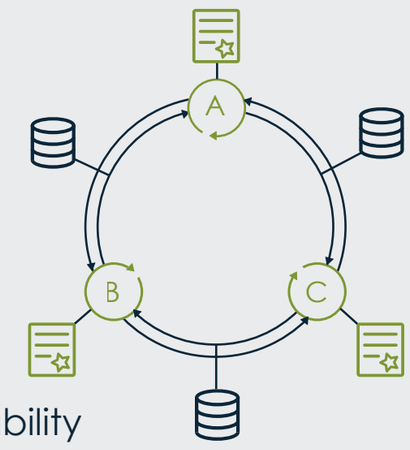
SCALING SMART CONTRACTS

Design Philosophy

- Scale the most useful functionality: e.g. token
- Less scalable solutions for other functionality

How we design it

- Decompose contract into token + data
- Support smart contracts in specific chains
- Smart contracts + scalable token/data for better scalability



SUMMARY

Efficiency

Innovative sharding approach supports native cross-shard transactions

Decentralization

Innovative consensus algorithm only vulnerable to 51% attack

Pragmatism

Alpha version has been tested in AWS achieving >10,000 TPS