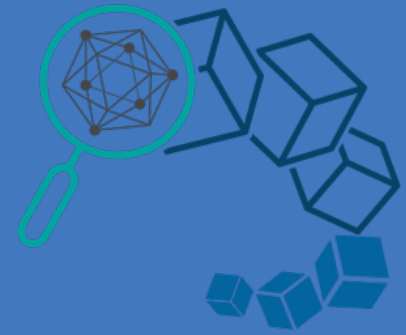




HYPERLEDGER
BLOCKCHAIN TECHNOLOGIES FOR BUSINESS



Hyperledger Projects

Baohua Yang
June, 2017

About Me

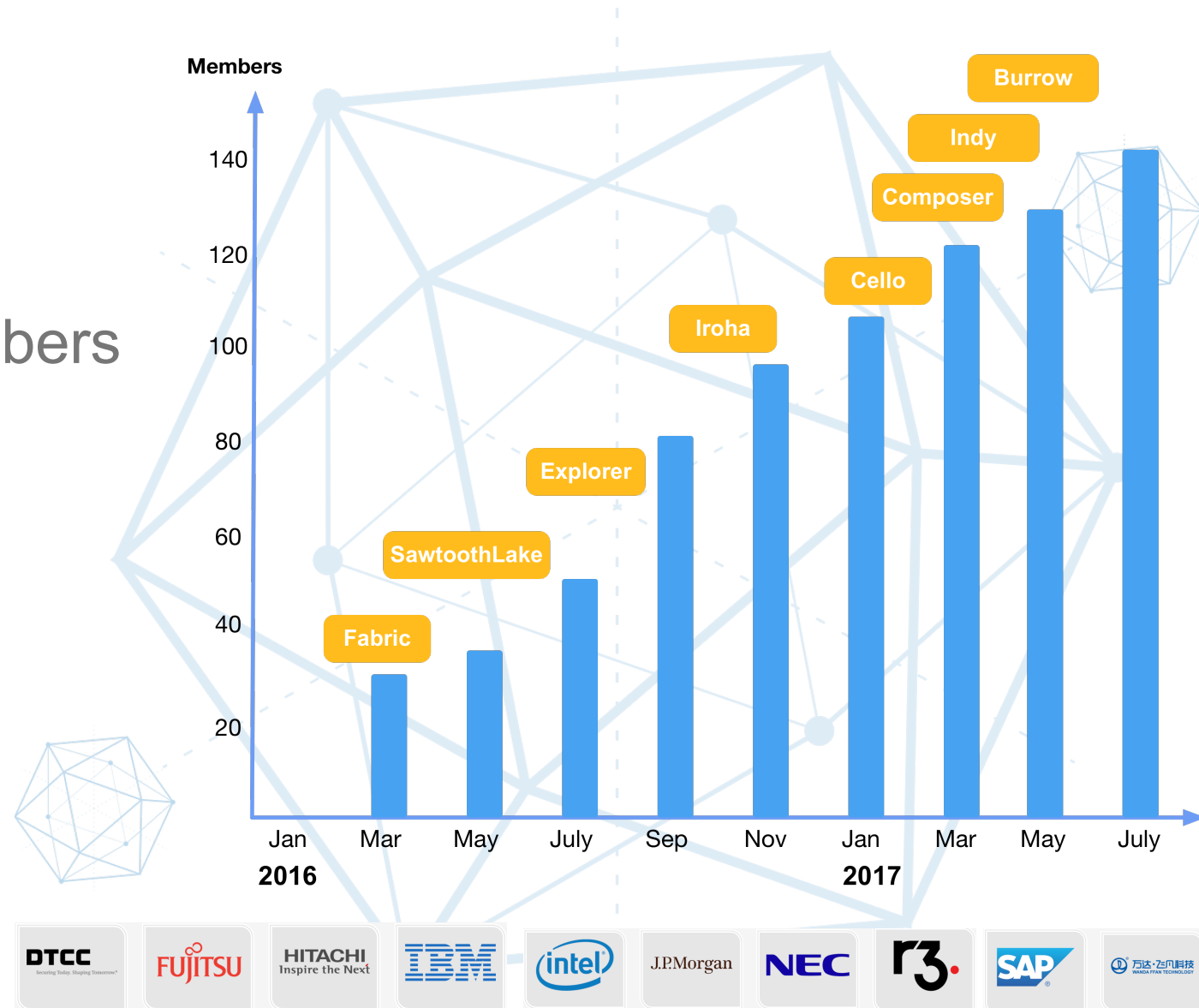
- **Senior Researcher in IBM**
 - Fintech, Cloud and Analytics
- **Open-Source Contributor**
 - [Hyperledger](#), [OpenStack](#), [OpenDaylight](#), etc.
- **Hyperledger Developer**
 - Core designer & committer of [Fabric](#), [Cello](#), [sdk](#) etc.
 - PTL of [Cello](#) project and [fabric-sdk-py](#) project
 - Chair of [Hyperledger Technical Working Group China](#)



Hyperledger Projects

- Since Dec 17, 2015
- [Apache v2 License](#)
- 30 Founding Members
- 18/36/142 Premier/China/Members
- 8 Top Projects
- 200+ Contributors
- 10000+ Commits

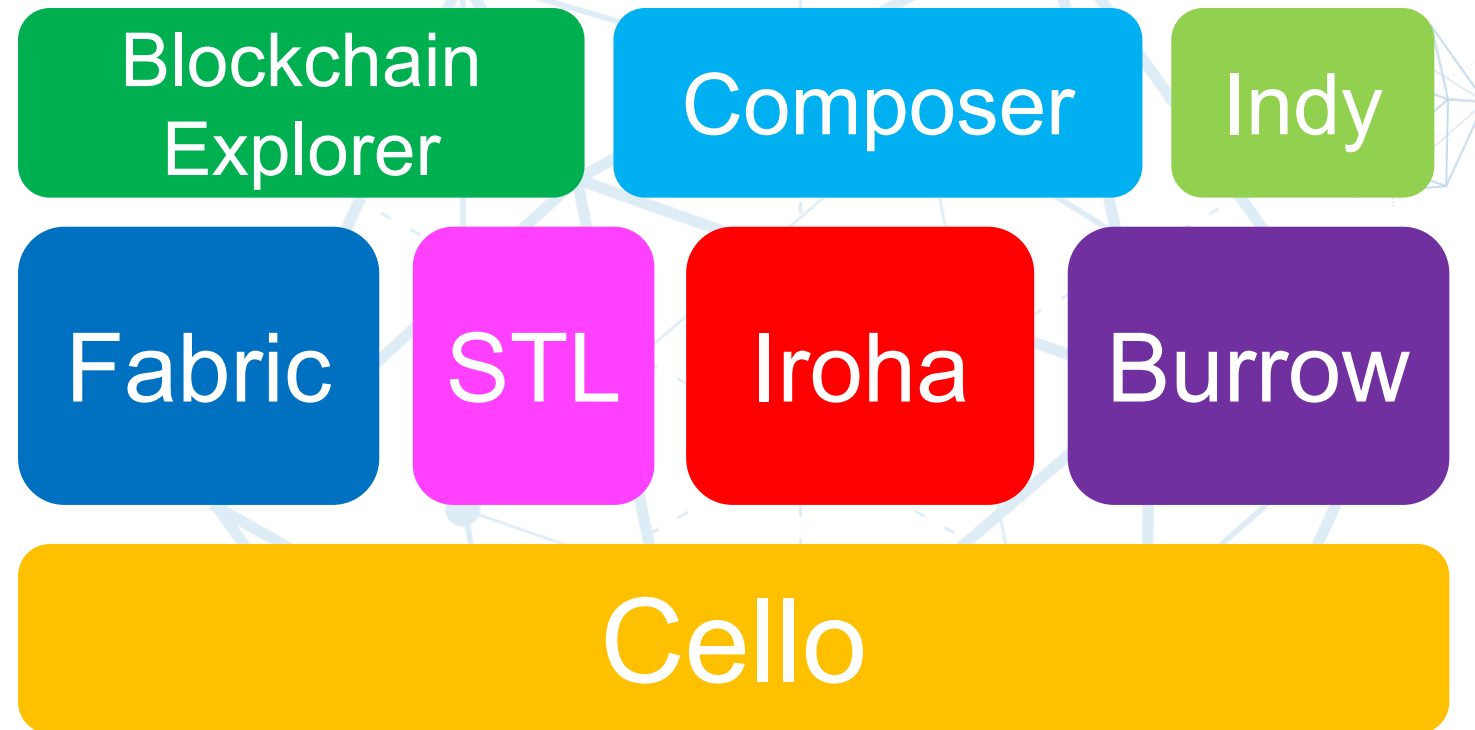
Enterprise grade, open source
distributed ledger framework!



Hyperledger Projects

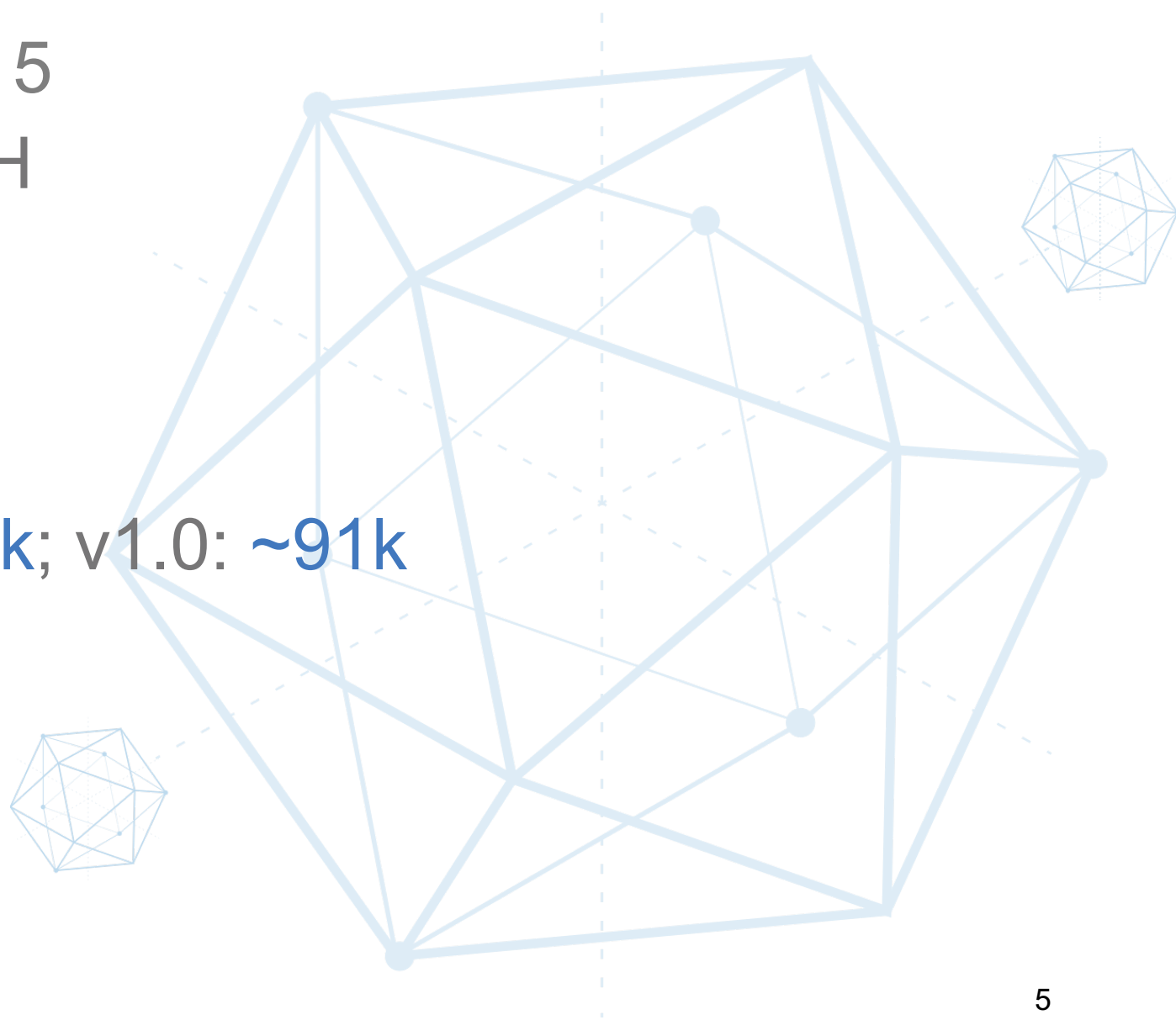
- 8 Top Projects

- Fabric
- SawtoothLake
- Iroha
- Cello
- Blockchain Explorer
- Composer
- Burrow
- Indy



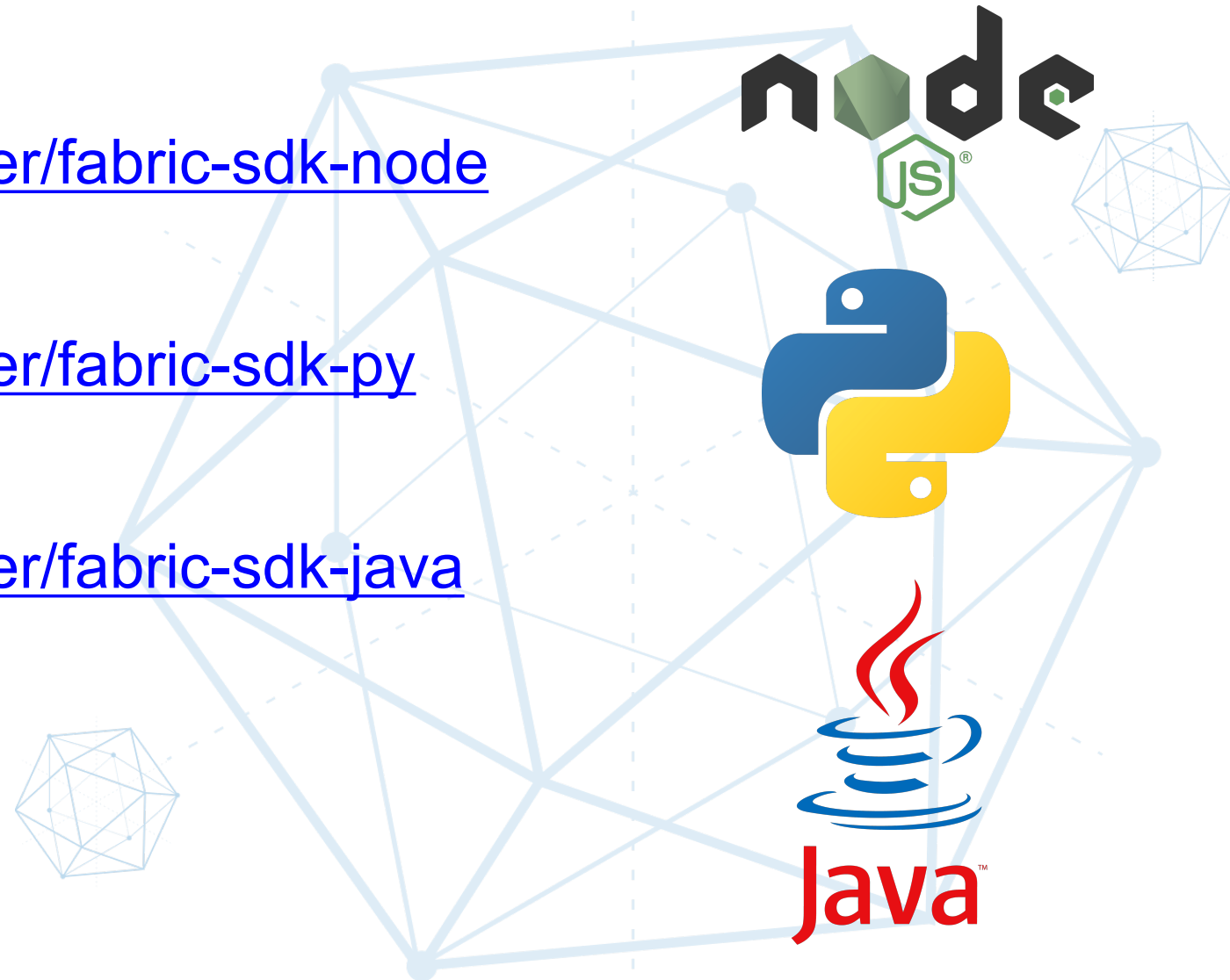
Hyperledger Fabric

- Open-sourced at Dec, 2015
- Proposed by IBM and DASH
- Written in Golang
- 90+ contributors
- 5000+ commits
- Core code (loc): v0.6: ~49k; v1.0: ~91k
- Active now, in 1.0 rc1



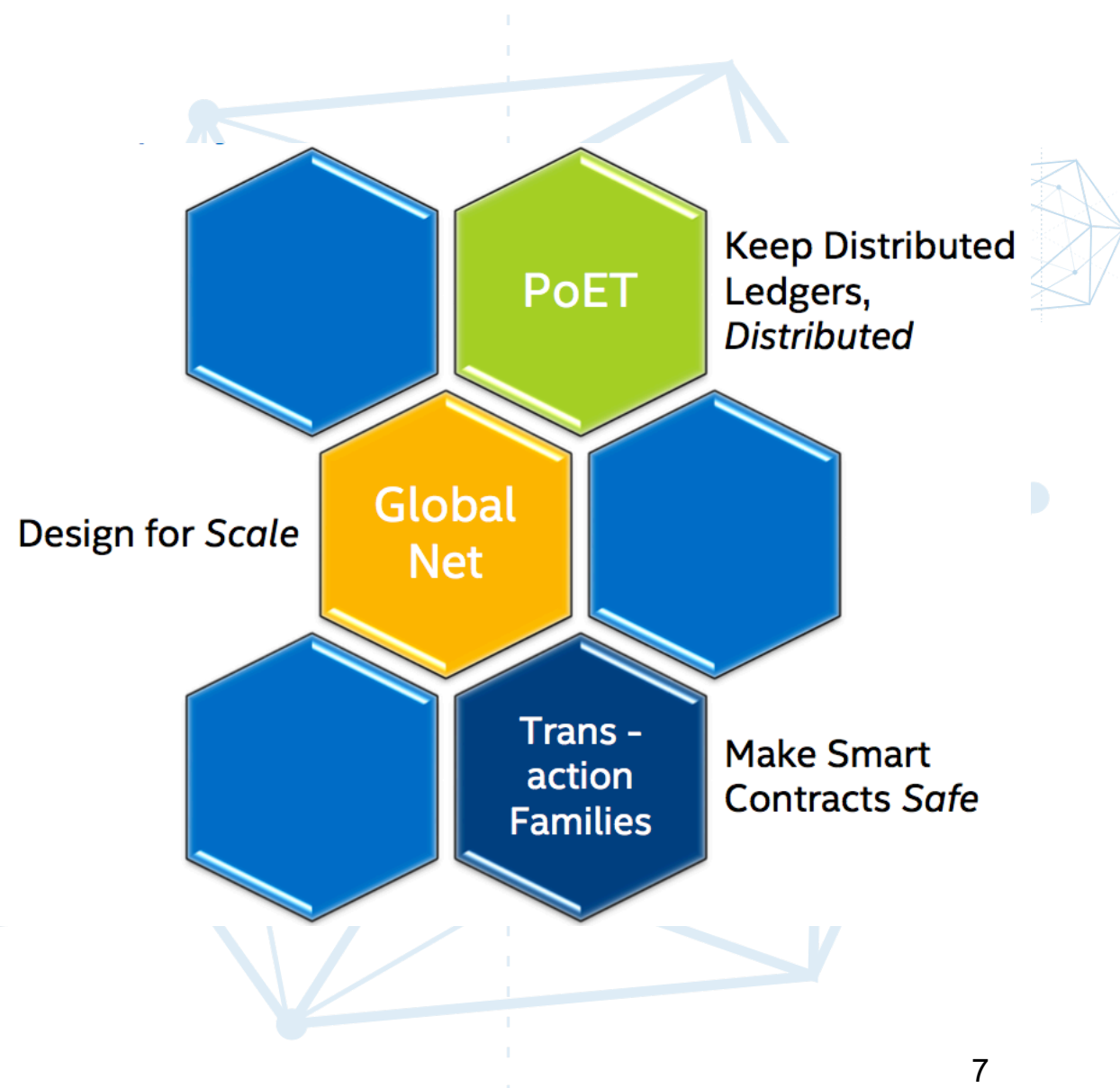
Hyperledger Fabric SDK

- Node.Js
 - <https://github.com/hyperledger/fabric-sdk-node>
- Python
 - <https://github.com/hyperledger/fabric-sdk-py>
- Java
 - <https://github.com/hyperledger/fabric-sdk-java>



Hyperledger SawtoothLake

- Open-sourced at April, 2016
- Proposed by Intel
- Python
- 40+ contributors
- 4000+ commits
- Key features
 - PoET consensus
 - Transaction Families
 - Scalability



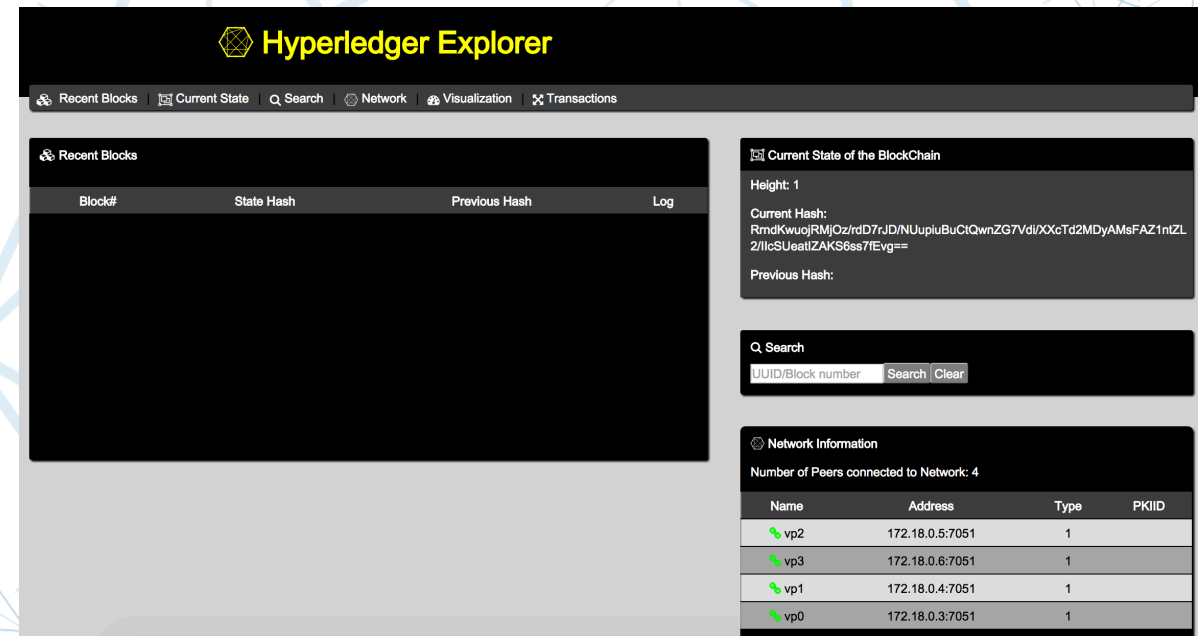
Hyperledger Iroha

- [Open-sourced](#) at Oct, 2016
- Proposed by [Soramitsu](#)
- C++
- 20+ contributors
- 2000+ commits
- Key features
 - C++ environment
 - Mobile and Web application Support
 - Sumeragi consensus



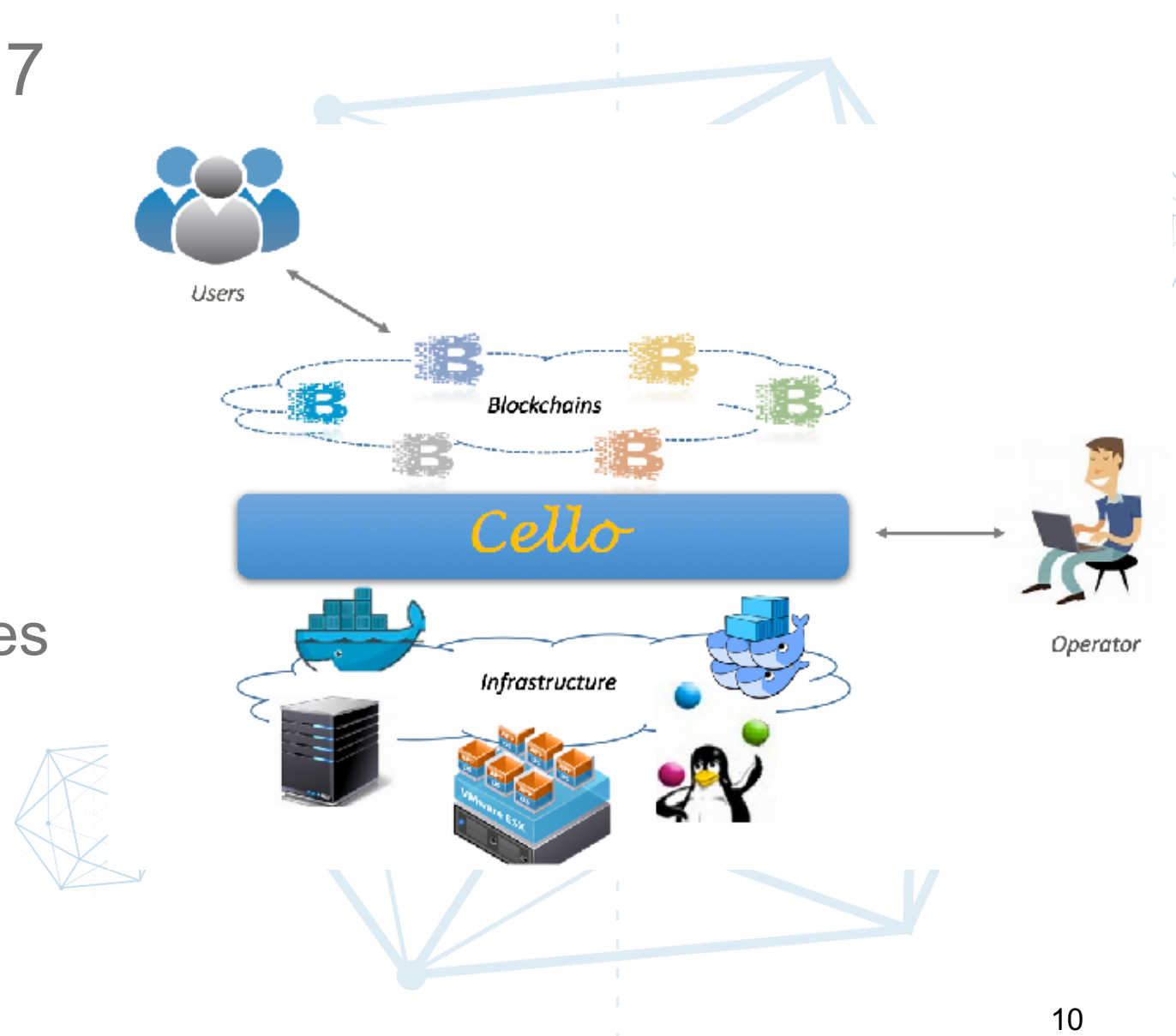
Hyperledger Blockchain Explorer

- Open-sourced at Aug, 2016
- Proposed by Intel, DTCC, IBM
- UI to interact with ledger
- Node.js
- Under-development
- Key features
 - Web UI to explorer a blockchain
 - Single-Page Application



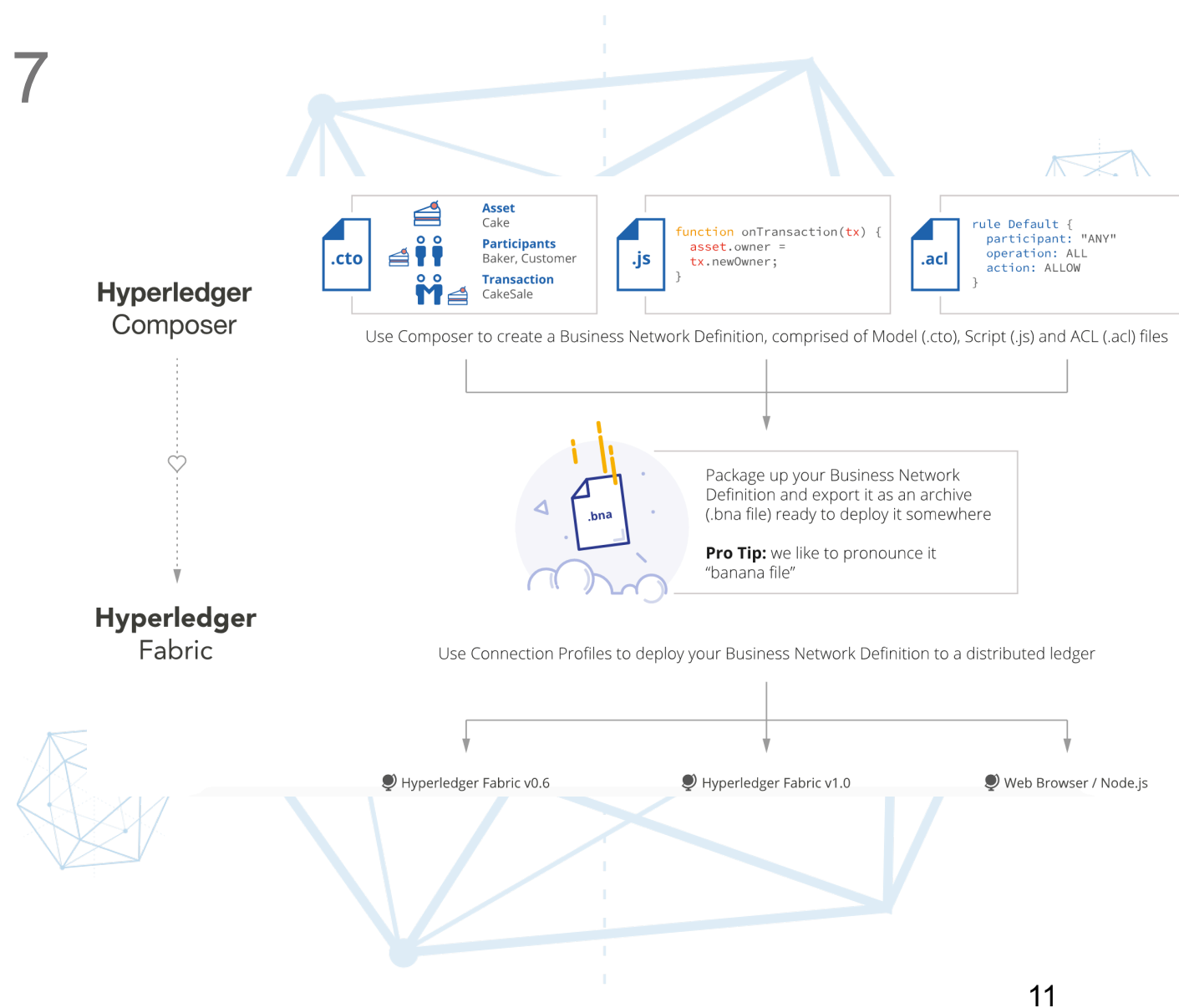
Hyperledger Cello

- Open-sourced at Jan, 2017
- Proposed by IBM
- Python, JavaScript
- 400+ commits
- Key features
 - Blockchain as a Service
 - Support various infrastructures
 - High-performance
 - Scalability
 - Pluggability



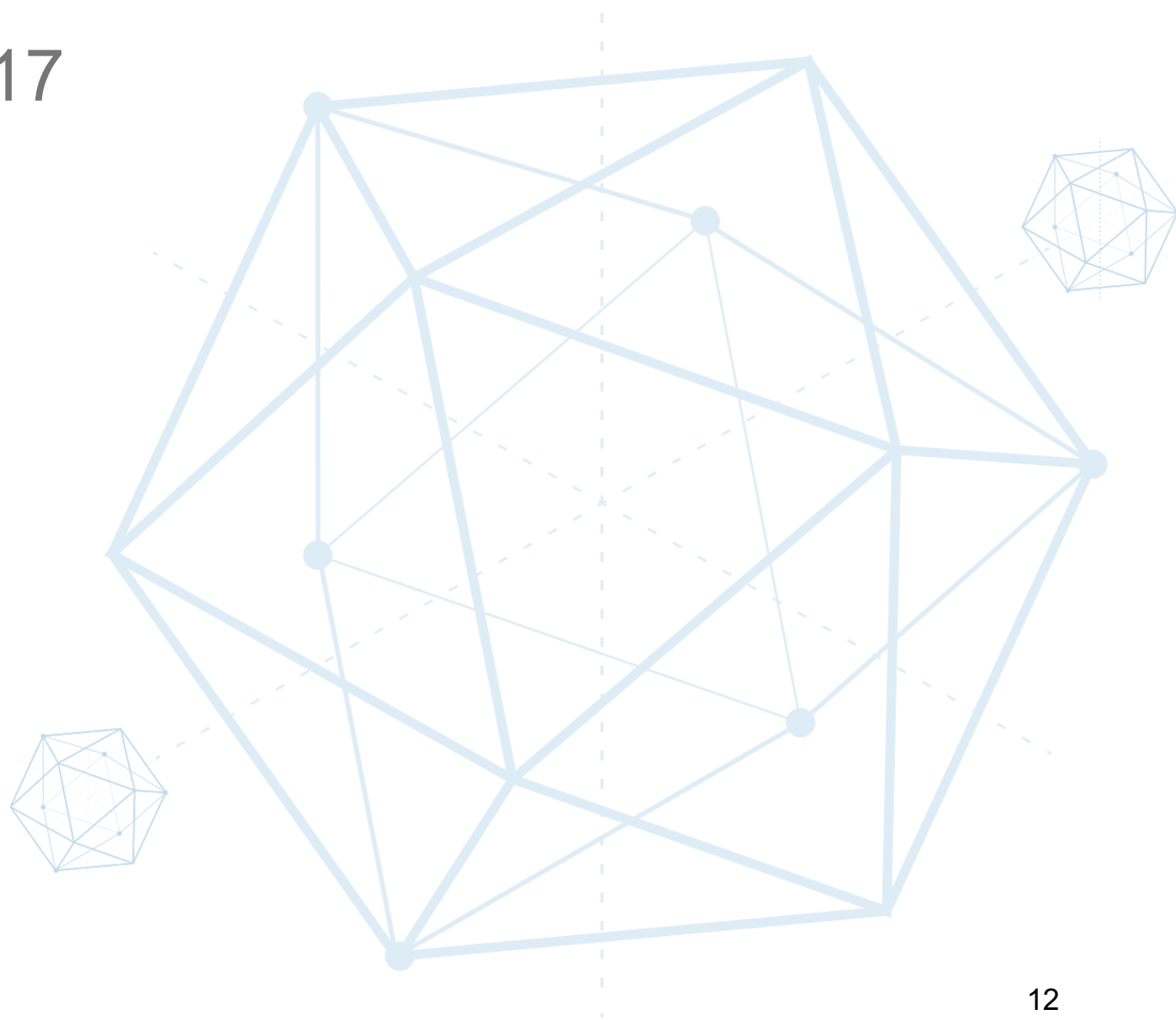
Hyperledger Composer

- Open-sourced at Mar, 2017
- Proposed by IBM
- JavaScript
- 4000+ commits
- Key features
 - For fabric
 - Simplify application creation



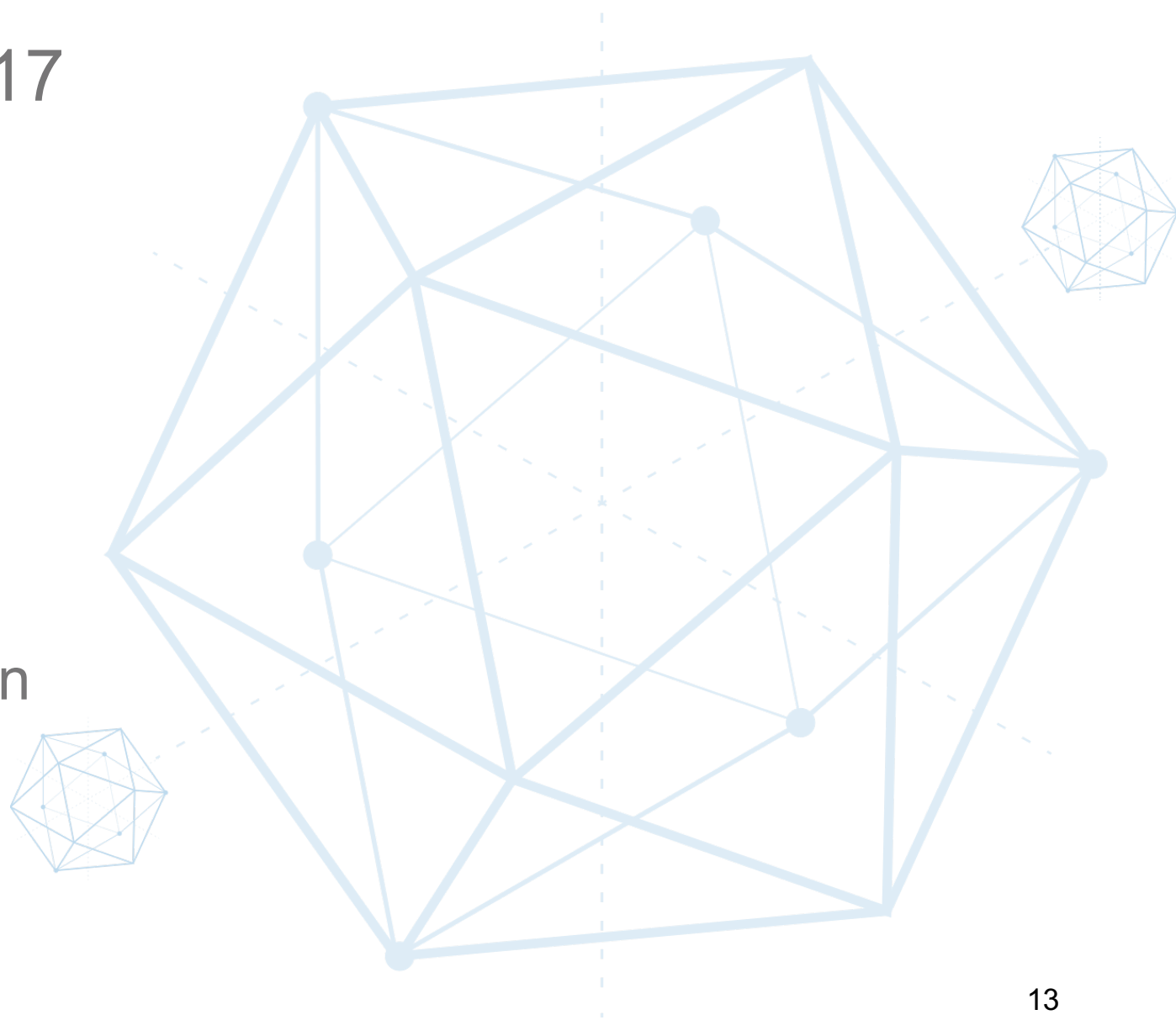
Hyperledger Burrow

- [Open-sourced](#) at April, 2017
- Proposed by Monax, Intel
- Go
- 1000+ commits
- Key features
 - From eris-db
 - Ethereum vm support
 - Proof-of-Stake

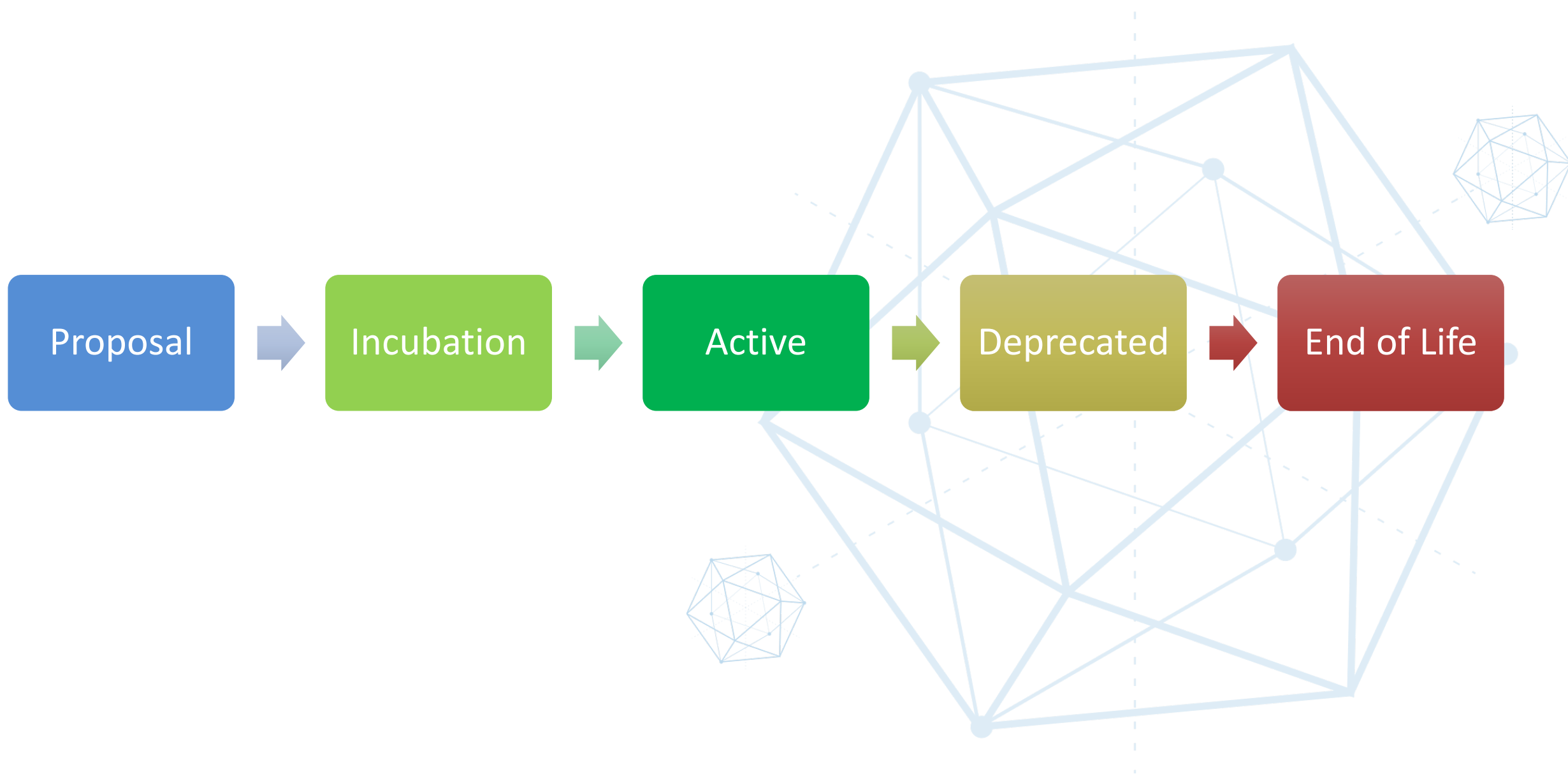


Hyperledger Indy

- Open-sourced at April, 2017
- Proposed by Sovrin
- Python
- **1000+** commits
- Key features
 - Digital ID management
 - Cross-chain, cross-application

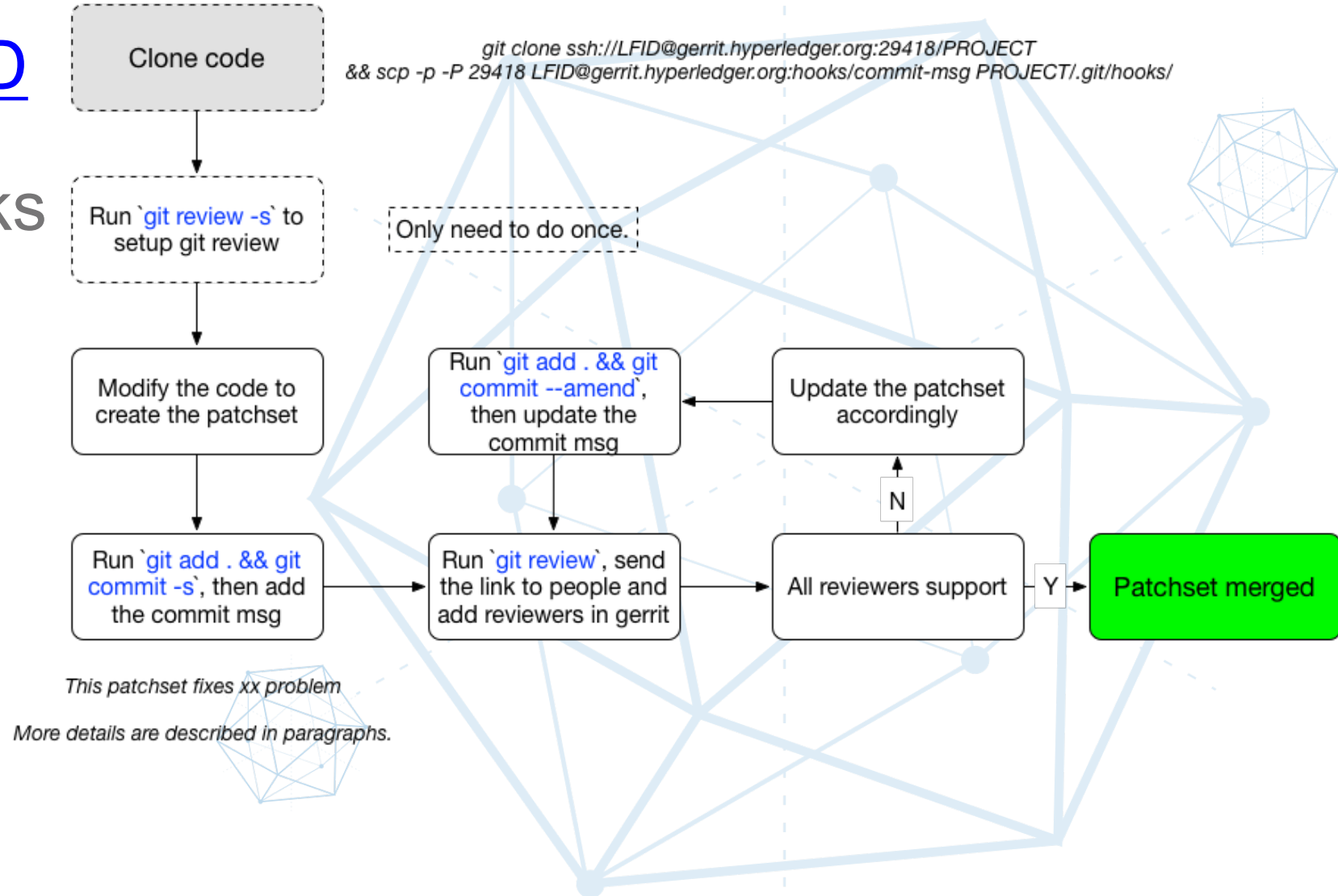


Hyperledger Projects Lifecycle



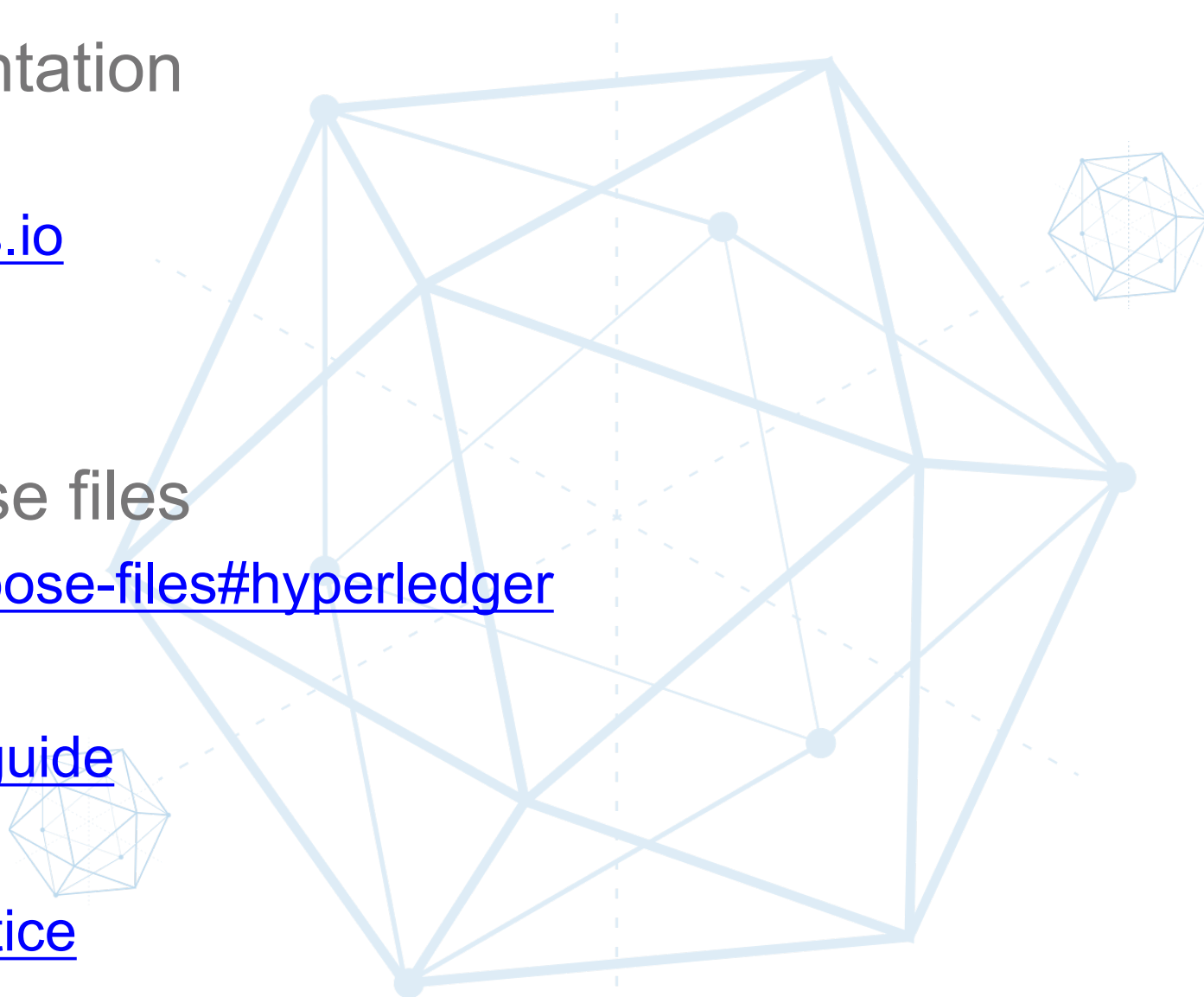
How to Contribute

- [Linux Foundation ID](#)
- [Jira](#) to manage tasks
- [Gerrit](#) to host code
- [RocketChat](#)



Reference

- Hyperledger Wiki&Documentation
 - wiki.hyperledger.org
 - hyperledger-fabric.readthedocs.io
- IBM 区块链
 - ibm.com/ibm/cn/blockchain/
- Hyperledger Fabric Compose files
 - github.com/yeasy/docker-compose-files#hyperledger
- 《区块链技术指南》
 - github.com/yeasy/blockchain_guide
- 《Docker 从入门到实践》
 - github.com/yeasy/docker_practice





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Questions?

Thank You!
@baohua

Slides available at github.com/yeasy/seminar-talk#hyperledger