



OPEN SOURCE
LEADERSHIP SUMMIT
FEBRUARY 14-16, 2017 | LAKE TAHOE, CA

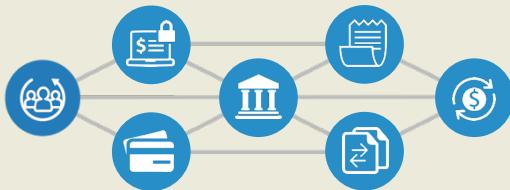
State of Blockchain at LF

Christopher Ferris, CTO Open Technology, IBM



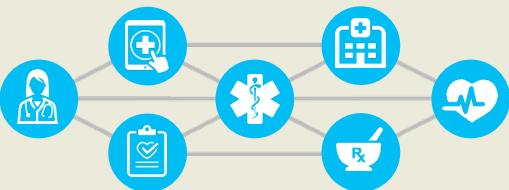
Blockchain and Distributed Ledgers

Blockchain allows multiple competing parties to securely interact with the same universal source of truth



Finance

Streamlined settlement, improved liquidity, increased transparency and new products/markets



Healthcare

Unite disparate processes, increase data flow, reduce costs and improve patient outcomes



Supply Chain

Track parts and service provenance, ensure authenticity of goods, block counterfeits, reduce conflicts



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Pre-existing Blockchain Technologies

Limited
Throughput

Slow
Transaction
Confirmations

Designed for
Cryptocurrency

Poor
Governance

No Privacy

Anonymous
Processors

No Settlement
Finality





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Perfect for open source

New, potentially revolutionary technology

Requiring multiple specialist skills to develop

Used by multiple parties

Controlled and monetized by no one

Strong governance model





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Hyperledger

Open source collaborative effort
to advance cross-industry
blockchain technologies

Hosted by
The Linux Foundation, fastest-
growing project in LF history

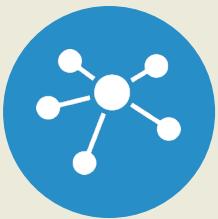
Global collaboration spanning
finance, banking, IoT, supply
chains, manufacturing and
technology



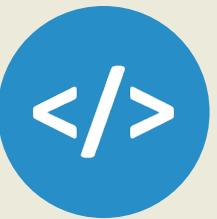


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Hyperledger Goals



Create enterprise grade, open source, distributed ledger frameworks & code bases
to support business transactions



Provide neutral, open, & community-driven infrastructures
supported by technical and business governance



Build technical communities
to develop blockchain and shared ledger POCs, use cases, field trials and deployments



Educate the public
about the market opportunity for blockchain technology



Promote our community of communities
taking a toolkit approach with many platforms and frameworks



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Modular Umbrella Approach

Infrastructure

Technical, Legal,
Marketing, Organizational

Ecosystems that accelerate
open development and
commercial adoption

CloudFoundry

Node.js



Hyperledger

Open Container
Initiative

Frameworks

Meaningfully differentiated approaches to business
blockchain frameworks developed by a growing
community of communities from the entire industry

Fabric

Iroha

Sawtooth

Modules

Typically built for one framework, and through
common license and community of communities
approach, ported to other frameworks

Chaintool

Explorer

Cello

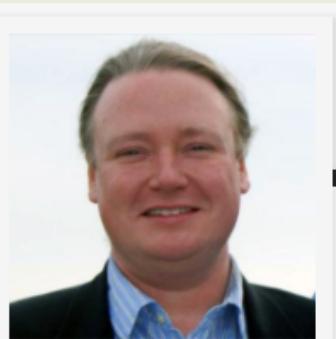




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Hyperledger Leadership



Brian Behlendorf
Exec Director



Blythe Masters
Digital Assets
Board Chair



Chris Ferris
IBM
TSC Chair



Dan O'Prey
Digital Assets
Mktg Cte Chair



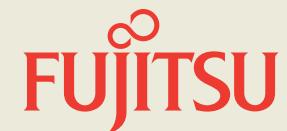
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Premier Members



Securing Today. Shaping Tomorrow.®



J.P.Morgan





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General Members





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General Members (con't)



LedgerDomain



Milligan Partners



STATE STREET.



THOMSON REUTERS





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Investrata
Foundation



NXT FOUNDATION





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Hyperledger Effect

THE WALL STREET JOURNAL.

[How Blockchain
Will Save Your Life](#)

600+

Average month-over-month Global Press Articles Covering Hyperledger in 2016



CoinDesk

[Hyperledger's Next Act:
A Blockchain Bridge to China](#)

MIT Technology Review

[Web Pioneer Tries to Incubate
a Second Digital Revolution](#)

3

Major Code Bases

149

Active Contributors

110+

Members (20+ in China)

THE NEW STACK

[Blockchain Hyperledger Project Generates Interest in the Enterprise](#)

"Hyperledger's focus has always been on the development of core blockchain technologies such as Hyperledger Fabric and other products built by the community."





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+270% membership growth



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5 top-level projects



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149 contributors



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Diverse Technical Leadership





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6553 commits



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5,400 Slackers



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5,400 ~~subscribers~~
RocketChat





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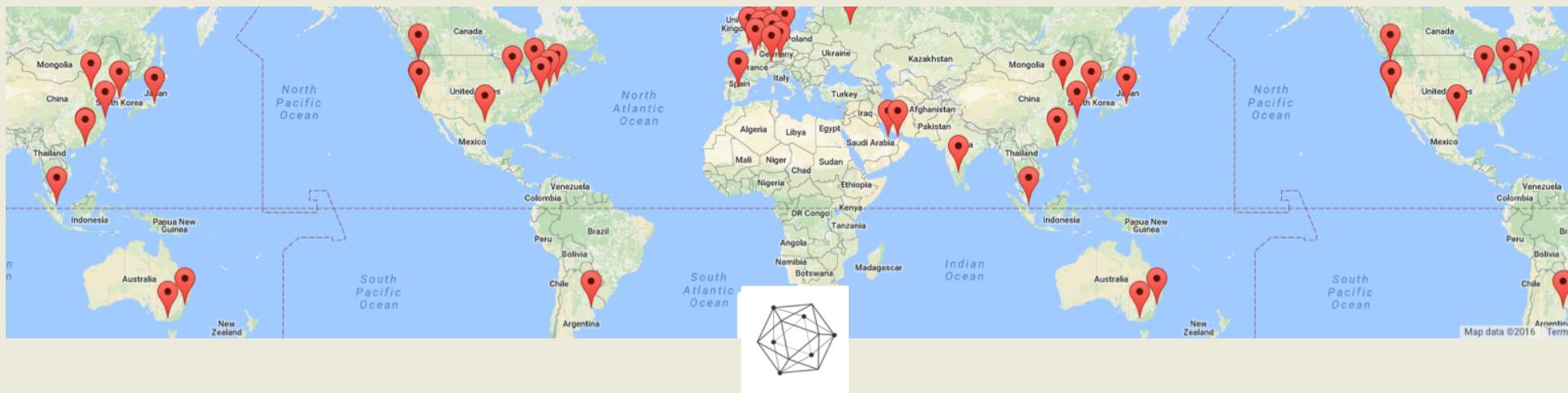
9 Working Groups



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Global Meetup Community



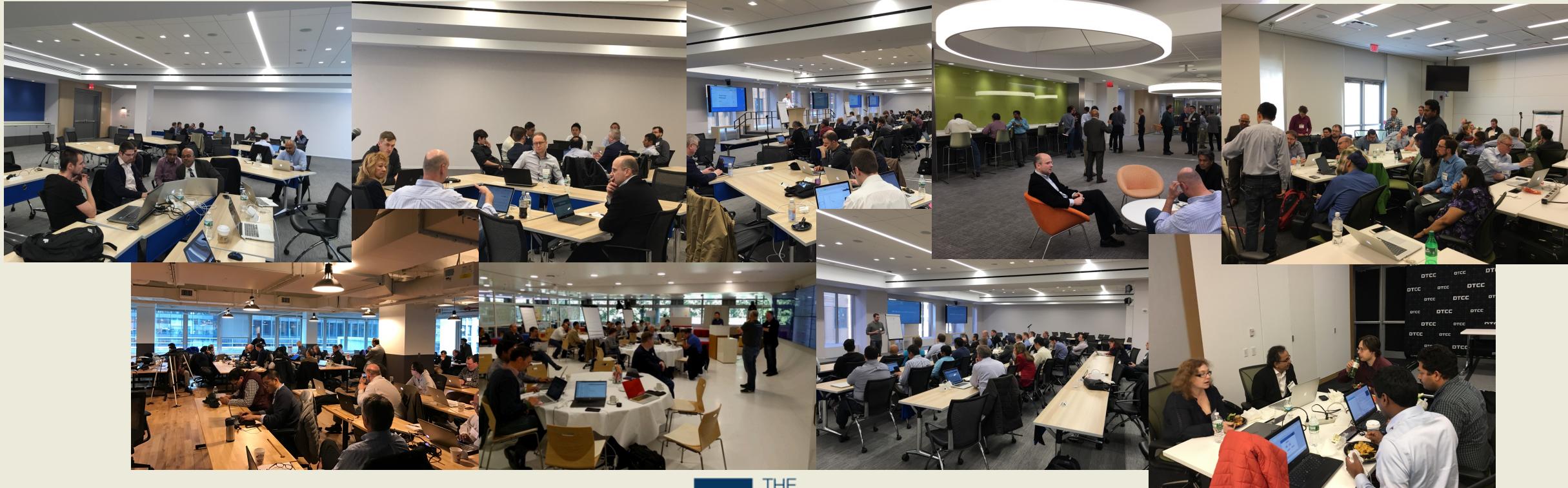
We are **8,600+ members** across **38 Meetups**





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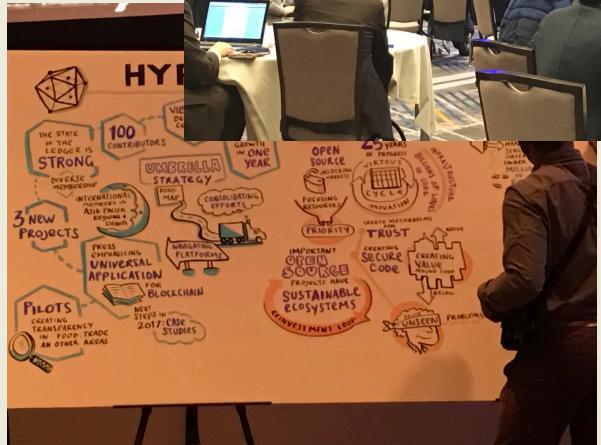
8 Bi-monthly F2Fs





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Member Summit



THE
LINUX
FOUNDATION



Five top-level projects

- Sawtooth Lake – DLT written in Python with potential from IoT to Financials. Support for both permissioned and permissionless deployments. PoET consensus
- Iroha – a simple, decentralized ledger with mobile clients
- Fabric – a foundation for blockchain applications with a modular architecture that allows components, such as consensus, messaging, identity, and encryption services to be plug-and-play.
- Cello – orchestration for delivering blockchain as a service
- Blockchain Explorer – a UI for exploring the state of the ledger



Sawtooth Lake Highlights

- Published a stable release in January
- Adding new Transaction Families
- Enriched Proof of Elapsed Time (PoET) to help realize a spectrum of public to private policies.
- Working on enhanced performance (e.g. from different threading techniques) and multi-language support for smart contracts.



Iroha Highlights

- Improving the set up experience by using Docker Swarm.
- Improving network stability and also replace our method of data storage to improve performance and simplify the codebase.
- Aligning APIs with the Hyperledger Fabric project to enable greater interoperability.



Fabric Highlights

- Published stable v0.6 release
 - Stable set of features for POCs and pilots
 - Enable developers to be up and running in minutes
- Feedback from pilots across multiple domains driving v1.0 architecture
- Increasing contribution diversity
- Production deployment – IBM Global Finance
- Driving towards v1.0 release (real soon now)



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Consolidation begins?

- A number of cross-project collaborations are beginning
- PoET integration with Fabric
- Iroha collaboration with Fabric
- Blockchain Explorer taking on additional back-ends
- Cello support for multiple platforms



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Join Us!

Ensure the strength and longevity of a core technology to your business.

Publicly proclaim your leadership in the blockchain space.

Work with other blockchain leaders to develop and promote Hyperledger.

Visit hyperledger.org/about/join
or email info@hyperledger.org.





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