2019
Hyperledger Annual Report
Hyperledger is an open source collaborative effort created to advance cross-industry blockchain technologies hosted by the Linux Foundation.

It is a global collaboration including leaders in finance, banking, healthcare, supply chains, manufacturing and technology. We are a community of many enterprise blockchain technology projects including distributed ledger frameworks, smart contract engines, client libraries, graphical interfaces, utility libraries and sample applications. Hyperledger was first launched in December 2015.

Hyperledger Overall Growth

- **121,178** Hyperledger Project Contributions to Date
- **65,750** Hyperledger Meetup Members
- **196,592** Registrations for Hyperledger blockchain courses at EdX

- **55+** New Members Added in the Last 12 Months
- **62,800+** Twitter Followers
- **1.7M+** Web Pages Viewed in 2019
- **165,000+** Views on the Hyperledger Blog in 2019
Hyperledger Fabric is now available on all major clouds:

Google Cloud
Alibaba Cloud
Microsoft Azure
IBM Cloud
SAP
amazon web services
Baidu
HUawei
Tencent
ORACLE
salesforce

New Premier Member Snapshot

CONSENSYS

New General Member Snapshot

Microsoft
salesforce
Cargill
splunk

60+ Associate Members Including Academia

University of Nicosia was the very first University to offer a degree in Hyperledger.

The Enterprise Ethereum Alliance joined as an associate member and is a true example of Hyperledger building a bridge with the Ethereum community. With hundreds of member companies combined, the EEA and Hyperledger communities represent a wide variety of business sectors from every region of the world.
Walmart implemented blockchain technology to help decentralize the food supply ecosystem. In fact, it has recently announced that it will start requiring all of its suppliers of fresh leafy greens (like salad and spinach) to trace their products using the system.

**Key Results:**
- Walmart can now trace the origin of over 25 products from 5 different suppliers using a system powered by Hyperledger Fabric.

Honeywell created an Amazon-type marketplace for used aircraft parts using Hyperledger Fabric.

**Key Results:**
- $4 million in sales in less than a year
- More than 50 vendors with storefronts in the new marketplace
- Purchase time reduced from days to minutes
- Future boost to anti-counterfeit measures

The government of British Columbia wanted to create an open software stack that helped business people establish trusted and enduring digital relationships to help governments cut red tape.

**Key results:**
- First demonstration project, Orgbook BC, announced January 2019
- Includes digital IDs for 529,000 companies and 1.4 million credentials
- Similar services coming soon from other jurisdictions

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**Companies Actively Building Products and Services Powered by Hyperledger**
Hyperledger Conferences & Events

- 737 Attendees from 57 countries
- 492 companies represented with 145 members
- 332 CFP submissions
- 12 Diversity scholarships provided
- Attendance – 83% male, 15% female
- Diversity Happy Hour with 200 attendees

- Tokyo, Japan
- 162 attendees from 94 member companies
Hyperledger announced its Certified Service Provider (HCSP) program in November 2019 to support the work of organizations that are helping enterprises adopt Hyperledger. The HCSP program offers service providers from around the world training and professional certification that ensures each member has the mastery to install, configure, operate, manage and troubleshoot networks built on Hyperledger distributed ledger technologies (DLTs).

HCSPs for Hyperledger Fabric include:

- Launched Certified Hyperledger Fabric Administrator (CHFA) exams & Launched Certified Hyperledger Sawtooth Administrator (CHSA)
- Certified Hyperledger Fabric Developer (CHFD) exam

**540+ Registrations**

**2020 Coming in Q1**

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**edX Course Enrollment**

- **Introduction to Hyperledger Blockchain Technologies (LFS171x)**: 141,962 Enrollments (launched October 2017)
- **Blockchain: Understanding Its Uses and Implications (LFS170x)**: 54,630 Enrollments (launched August 2018)
4 New eLearning Courses Launched in 2019

- Hyperledger Fabric Administration (LFS272)
- Hyperledger Sawtooth Administration (LFS273)
- Hyperledger Sawtooth for Application Developers (LFS174x)
- Identity in Hyperledger: Indy, Aries and Ursa (LFS172x)

Coming Up

- Becoming an Indy and Aries Developer (LFS173x)
  Coming early 2020
- Hyperledger Fabric for Developers (LFD272)
  Paid elearning course coming January 2020

Training Partners

- ALTOROS
- B9lab
- BLOCKCHAIN TRAINING ALLIANCE
- CONSENSYS
- FORFIRM CONSULTING
- KBA
- LIAM GLOBAL TECHNOLOGY
- PeerSafe
- REGOV TECHNOLOGIES
Hyperledger Project Updates & Milestones

At a Glance

- **15** Projects
- **1,623** Contributors to Date
- **121,178** Contributions to Hyperledger Projects to Date

Milestones

- **Hyperledger Fabric**
  - V1.4 LTS
- **Hyperledger Sawtooth**
  - 1.2
- **Hyperledger Quilt**
  - 1.0
- **Hyperledger Indy**
  - Production Ready
- **Hyperledger Iroha**
  - Production Ready

New Projects

- **Hyperledger Aries**
- **Hyperledger Avalon**
- **Hyperledger Besu**
- **Hyperledger Grid**
- **Hyperledger Transact**
- **Hyperledger Ursa**
Hyperledger Labs Data

- **25** Labs proposed
- **20** Labs accepted
- **1** Labs graduated to project

Community Events

- **170+** Meetup Groups
- **78** Countries
- **348** Meetup Events in 2019
- **64,412** Meetup Members

Speaker Bureau Highlights

- **64** Active Hyperledger Member Speakers

Hyperledger’s speaker bureau program has more than doubled in size since 2018. Community speakers spoke at more than 15 events, including Consensus, Blockchain Expo Global, Open Source Summit Europe, The Next Web Hard Fork and Blockchain Revolution Global.
The Hyperledger Mentee/Mentor Program provides a structured path to raise awareness of Hyperledger at academia, onboard young diverse developers, and it offers the mentorship opportunity to those in the community who desire to teach and guide new developers.

A Hyperledger Special Interest Group (SIG) is a community focused on a particular industry sector or activity with a shared interest in advancing a common understanding of how blockchain technology in general, and Hyperledger technology in particular, may be applicable. SIGs differ from Hyperledger Working Groups (WG) in that WGs are focused on the development of the Hyperledger software projects and are not tied to a specific sector.
4 New SIGs Launched
Capital Markets  Telecom  Supply Chain  Education Architecture

2 New WGs Launched
Smart Contracts  Diversity, Civility, and Inclusion

Blockchain Industry By the Numbers

Based on the 2019 Deloitte’s global blockchain survey, nearly 1 in 5 companies are currently using blockchain.

IDC predicts blockchain spending in 2019 is forecast to be $2.7 billion, an increase of 80% over 2018. Further, the analyst firm forecasts blockchain solutions will hit $15.9 billion market in 2023.
APAC & International Growth

APAC Premier Member Snapshot

HITACHI
Inspire the Next

Fujitsu

NEC

APAC General Member Snapshot

Tech Decision Makers
8%

Developers & Architects
58%

Technical Participants
66%

130+ Participants from 12 Geographies

Events

1st Ever Hyperledger Bootcamp in Hong Kong

19+ session leaders:
Maintainers & Contributors of Hyperledger Caliper, Cello, Fabric, Indy, Iroha, Sawtooth, Ursa

Hosted first-ever meetup with ConsenSys in China

Hyperledger Executive Director, Brian Behlendorf spoke at Innovation Summit ASIA Economist event in Hong Kong
Certification/Training

Alibaba Ant Financial became the 1st HCSP in APAC and the 2nd in the world
Hyperledger announced its 1st training partner in South-East Asia

Meetups

2 new International Meetups launched: India & Brazil

The India chapter has already ran a National India Meetup over the summer and are planning a second one for November 2019. This is a coordinated regional virtual meeting that ties together local meetup groups around the country to share and learn together.

PR and Media Highlights

24,362 Articles mentioning Hyperledger

Hyperledger tech powers 50% of the Forbes Blockchain 50

General member, Elemental Labs, based in India, received recognition for its Hyperledger blockchain based product, on Forbes Top 30 under 30 Asia
Big Member News

Salesforce Rolls Out Blockchain Builder for Noncoders
Software Giants Microsoft and Salesforce Flock To Hyperledger Blockchain Consortium

Powering Cutting Edge Use Cases

NASA Publishes Proposal for Air Traffic Management Blockchain Based on Hyperledger
Visa looks to speed up cross-border payments with new network launch
Volkswagen Group joins responsible sourcing network
Blockchain startup processes $1 billion in trade finance

Ford and IBM pilot blockchain platform for minerals supply chains
Lamborghini Now Uses Salesforce Blockchain to Certify Heritage Cars
Education orgs, IBM launch blockchain credentials to close skills gap
Hyperledger Projects in the News

Hyperledger unveils supply chain blockchain project Grid

Hyperledger Aries, a Toolkit for Blockchain-Based Identity Management

Linux Foundation Readies Hyperledger Fabric for Enterprise-Class Blockchain Apps

Google, Hyperledger launch online identity management tools

Hyperledger Besu brings public blockchain to enterprise

Blockchain Consortium Hyperledger Releases Hyperledger Iroha 1.0

Hyperledger Transact simplifies distributed ledger development

Improving Blockchain Performance Off-Chain, Hyperledger Announces Avalon

Hyperledger Indy, graduated to 'production ready' active status, and we have seen an outpouring of digital identity business solutions come to market.

The professionalization of blockchain matured further at Hyperledger through the expansion and growth of professional certification programs. Hyperledger launched the certification program for administrators for Hyperledger Fabric and Sawtooth and kicked off the Hyperledger Certified Service Provider Program. Several new Working Groups and Special Interest Groups were also formed to help foster deeper discussions and collaboration within the community. Hyperledger technologies are now available as managed blockchain-as-a-service offerings across all major cloud providers – offering technologists a variety of options in how they build, scale and manage their blockchain networks. Salesforce and Microsoft became general members of Hyperledger, proving their investment in the technology and commitment to open source.

We also made great strides on interoperability, driven in part by ConsenSys' contribution of Hyperledger Besu, the first blockchain project submitted to Hyperledger that can operate on a public blockchain. Besu represents the growing interest of enterprises to build both permissioned and public network use cases for their applications. The launch of Facebook's Libra also resurfaced many questions around cryptocurrencies and their potential in fixing the current internet payment infrastructure. We see interoperability between Hyperledger projects only growing stronger over the next year and beyond.

In 2020, we will most likely move beyond the early adopters and see many large, credible enterprises setting up networks or joining consortiums in order to keep doing business with their clients. In fact, by the end of this year, Walmart is requiring all of their leafy green vegetables suppliers to be on the Food Trust blockchain network, which is powered by Hyperledger Fabric. Finally, discussions around governance, scaling and managing these networks is far from over, and neither is the conversation about which platform or set of technologies is ideal for a particular use case.