



**HYPERLEDGER**

BLOCKCHAIN TECHNOLOGIES FOR BUSINESS

# What's New With Hyperledger

# What Is Hyperledger?

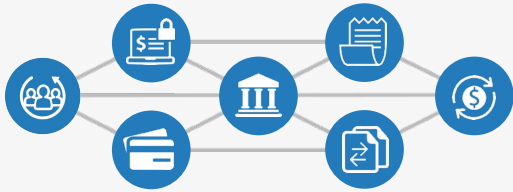
**Open source**  
collaborative effort to  
advance cross-industry  
**blockchain technologies**

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

**Global collaboration**  
spanning finance,  
banking, IoT, supply  
chains, healthcare,  
manufacturing,  
technology and more.

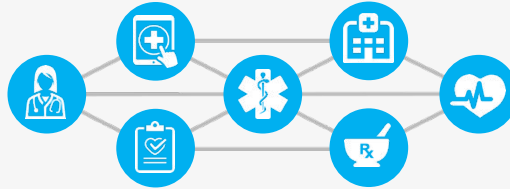
# Distributed Ledgers and Smart Contracts

Blockchain networks allow multiple different 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 and liquidity, reduce costs and improve patient experience and outcomes



## Supply Chain

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

# Hyperledger Goals

Where open source teams build diverse approaches for business blockchain technology systems



**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

# Hyperledger 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

Hyperledger  
Indy

Hyperledger  
Fabric

Hyperledger  
Iroha

Hyperledger  
Sawtooth

Hyperledger  
Burrow

## Modules

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

Hyperledger  
Composer

Hyperledger  
Explorer

Hyperledger  
Cello

# Hyperledger Business Blockchain Frameworks

- **Hyperledger Fabric:** Intended as a foundation for developing applications or solutions with a modular architecture, Hyperledger Fabric allows components, such as consensus and membership services, to be plug-and-play.
- **Hyperledger Iroha:** A business blockchain framework designed to be simple and easy to incorporate into infrastructural projects requiring distributed ledger technology.
- **Hyperledger Sawtooth:** A modular platform for building, deploying, and running distributed ledgers. Hyperledger Sawtooth includes a novel consensus algorithm, Proof of Elapsed Time (PoET), which targets large distributed validator populations with minimal resource consumption.
- **Hyperledger Burrow:** A permissionable smart contract machine. The first of its kind when released in December, 2014, Burrow provides a modular blockchain client with a permissioned smart contract interpreter built in part to the specification of the Ethereum Virtual Machine (EVM).
- **Hyperledger Indy:** Tools, libraries, and reusable components for providing digital identities rooted on blockchains or other distributed ledgers so that they are interoperable across administrative domains, applications, and any other silo.



# Core Projects Hitting Their Stride

## Hyperledger Fabric

- On a fast path to a 1.0 release this summer
- The v1 architecture and node/python/Java SDK ecosystem are winning out

## Hyperledger Sawtooth

- Moving to 1.0, graduated from the Incubator to Active status
- POET now complemented with transaction families, and new JS and Go SDKs

## Hyperledger Iroha

- Just cut a 1.0 beta, and also graduated from Incubator to Active status
- New maintainers and substantial community growth

# 3 New Projects

**Hyperledger Burrow** - announced April 10.

- Formerly “ErisDB”
- An implementation of the Ethereum VM, using Tendermint as consensus

**Hyperledger Indy** - announced May 2.

- An identity-focused blockchain platform, based on tech from Sovrin and Evernym
- Ideal for user-centric management of personally-identifiable information.

**Hyperledger Composer** - announced May 3

- A high-level graphical interface for designing “blockchain business networks”
- Supports Fabric now, but interest in porting to platforms.



# POCs

[DTCC & Digital Asset move to next phase after successful proof of concept for repo transactions using distributed ledger technology - \(2/27\)](#)

[Natixis, IBM and physical commodities trading group Trafigura launched the first blockchain solution in commodity trade finance for US crude oil transactions - \(3/29\)](#)

[TMX Selects Hyperledger For Blockchain Voting Prototype - \(4/7\)](#)

[National Bank of Cambodia, Soramitsu partner to co-develop Hyperledger Iroha blockchain project - \(4/21\)](#)

[Swift Selects Hyperledger Tech For Cross-Border Blockchain Test - \(4/25\)](#)

[Santiago Stock Exchange to Implement IBM Blockchain Tech - \(5/17\)](#)

# 79

Unique Articles Mentioning or  
Announcing a Hyperledger  
Related POC

# Project Awareness Metrics

**20+**

Conference Keynotes  
(Brian Behlendorf and Members)

**2,600+**

Original Media Articles

**30**

Blog Posts – **10** Contributed by  
Community Members

**1.2M+**

Impressions on Twitter

**38,000+**

New Twitter Followers

**25,000+**

Engagements on Twitter

# Membership Metrics

**22**

New General Members,  
Totaling **142** Members

**3**

New Premier Members  
(SAP, Change  
Healthcare, NEC)

**1st**

Healthcare IT Company  
Joined at Premier Level  
in Hyperledger's History