



**HYPERLEDGER**  
INDIA CHAPTER



# On Your 3 Year Anniversary!



**HYPERLEDGER**  
FOUNDATION

## HYPERLEDGER INDIA CHAPTER

URNS

**3** YEARS

Join us for the **Inauguration of Blockchain Stories 2021**  
Let us celebrate, have some fun and learn a lot.

### SPEAKERS



**DANIELA BARBOSA**  
Executive Director,  
Hyperledger Foundation



**JULIAN GORDAN**  
VP, Asia Pacific,  
Hyperledger and LF Public Health

13th November 2021

**10.30 AM**

To know more and register

Visit <https://wiki.hyperledger.org/display/HIRC/Blockchain+Stories+2021>

<https://wiki.hyperledger.org/>



Media & Entertainment

Public Sector

Supply Chain

Climate Action

Telecom

Education

Healthcare

Digital Identity

Capital Markets

Energy

Finance

Insurance

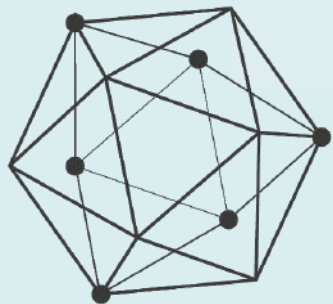
# Diverse Ecosystem of Enterprise Technology & Use Cases

Graduated Hyperledger Projects (6)

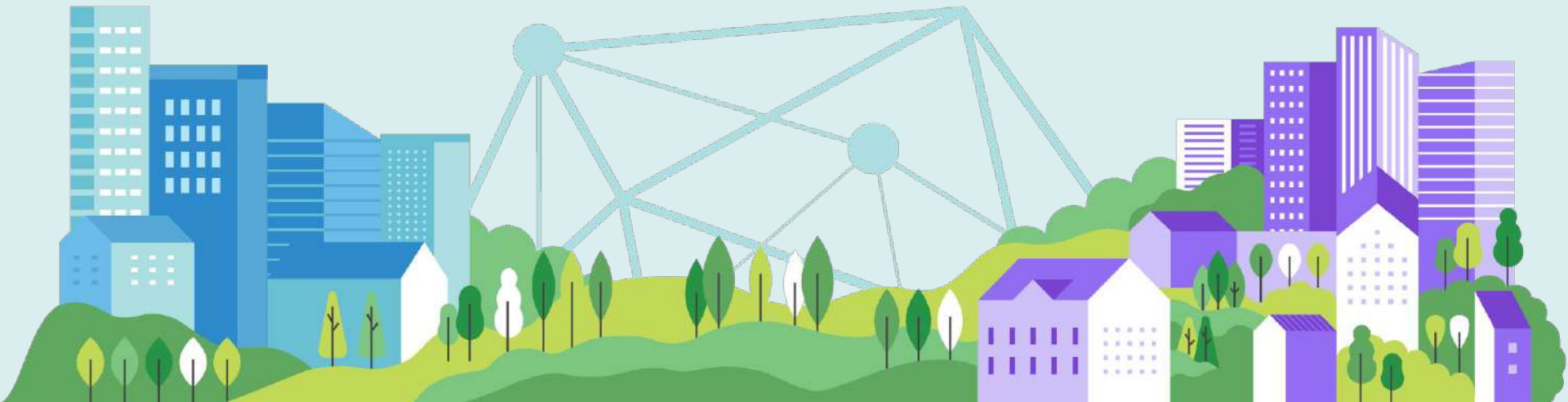
 <b>HYPERLEDGER ARIES</b> Hyperledger Aries ★ 1,343 Hyperledger	 <b>HYPERLEDGER BESU</b> Hyperledger Besu ★ 575 Hyperledger	 <b>HYPERLEDGER FABRIC</b> Hyperledger Fabric ★ 18,161 Hyperledger	 <b>HYPERLEDGER INDY</b> Hyperledger Indy ★ 1,428 Hyperledger	 <b>HYPERLEDGER IROHA</b> Hyperledger Iroha ★ 573 Hyperledger	 <b>HYPERLEDGER SAWTOOTH</b> Hyperledger Sawtooth ★ 1,814 Hyperledger
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Incubating Hyperledger Projects (11)

 <b>HYPERLEDGER AVALON</b> Hyperledger Avalon ★ 158 Hyperledger	 <b>HYPERLEDGER BURROW</b> Hyperledger Burrow ★ 939 Hyperledger	 <b>HYPERLEDGER CACTUS</b> Hyperledger Cactus ★ 192 Hyperledger	 <b>HYPERLEDGER CALIPER</b> Hyperledger Caliper ★ 542 Hyperledger	 <b>HYPERLEDGER CELLO</b> Hyperledger Cello ★ 762 Hyperledger	 <b>HYPERLEDGER EXPLORER</b> Hyperledger Explorer ★ 1,099 Hyperledger
 <b>HYPERLEDGER FIREFLY</b> Hyperledger Firefly ★ 146 Hyperledger	 <b>HYPERLEDGER GRID</b> Hyperledger Grid ★ 189 Hyperledger	 <b>HYPERLEDGER QUILT</b> Hyperledger Quilt ★ 272 Hyperledger	 <b>HYPERLEDGER TRANSACT</b> Hyperledger Transact ★ 46 Hyperledger	 <b>HYPERLEDGER URSA</b> Hyperledger Ursa ★ 273 Hyperledger	



# **HYPERLEDGER** FOUNDATION



# Highlights of the Hyperledger Foundation paper :

- Audience both business and technical
- Defines why the Hyperledger Foundation exists and what it does
- Why enterprise blockchain
- Outline of Hyperledger technologies
- Shows Hyperledger in Action and the Road to Widespread Adoption



[www.hyperledger.org/about](http://www.hyperledger.org/about)



## An Overview of Hyperledger Foundation

### Purpose of This Paper

This paper provides a high-level overview of Hyperledger as an organization, including why it exists, what it does and who is involved. It also covers Hyperledger technologies and their impact, including use cases, markets and business models powered by blockchain and related technologies in general and Hyperledger projects in particular. Finally, the paper looks at the roadmap to widespread adoption of Hyperledger platforms, tools and libraries to power a new generation of multi-party systems. This is not intended as a deep technical white paper, but an introduction to Hyperledger for a general business reader.

### Intended Audience

We expect this paper will be read by people from different backgrounds, including entrepreneurs, executives, IT managers, and software developers. Since Hyperledger is a worldwide project, we expect this paper will be read by people around the world, many of whom do not have English as their first language, so we have tried to make this paper as clear and readable as possible.

### ABOUT HYPERLEDGER

Hyperledger is an open source collaborative effort created to advance cross-industry blockchain technologies. It is a global collaboration including leaders in banking, finance, Internet of Things, manufacturing, supply chains, and technology. The Linux Foundation hosts

Hyperledger under the foundation. To learn more, visit [hyperledger.org](http://hyperledger.org). Hyperledger does not promote a single blockchain codebase or a single blockchain project. Rather, it enables a worldwide developer community to work together and share ideas, infrastructure, and code.

# The mission of the Hyperledger Foundation is to:

- ***Foster and coordinate the premier community*** of software developers building enterprise grade open source software, in the form of platforms, libraries, tools and solutions, ***for multiparty systems using blockchain, distributed ledger, and related technologies.***
- Host the technical infrastructure for the Foundation, ***establishing a neutral home for community infrastructure***, meetings, events, and collaborative discussions.
- ***Drive broad adoption of the technology*** by building a substantial and diverse ecosystem of solution providers delivering production solutions and networks, and organizing industry end-users.
- ***Advocate for the use and adoption of enterprise multiparty systems technologies*** through marketing, education and outreach; and work with other aligned organizations to accelerate implementation and public acceptance.



# Hyperledger Momentum



~6

Years since launch



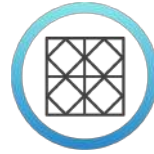
4

Libraries



6

Tools



6

Distributed  
Ledgers



6

Graduated Projects



Global

~200 Members



16

Active Community  
Working Groups &  
Special Interest Groups



180+

Meetups  
Worldwide  
(81 + countries)



79K+

Meetup  
Participants



11,000+

Subscribers to our mailing lists

# Project Landscape

## Graduated Hyperledger Projects (6)



## Incubating Hyperledger Projects (11)



Yet to be Named (BAF)





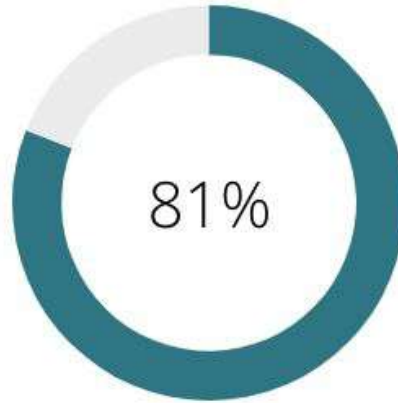
# Adoption and Use Cases



# Deloitte's 2021 Global Blockchain Survey

## THE CASE FOR NEW FUNDAMENTALS

Percentage of respondents who agree that blockchain technology is broadly scalable, and has achieved mainstream adoption



\*survey of 1,280 senior executives and practitioners

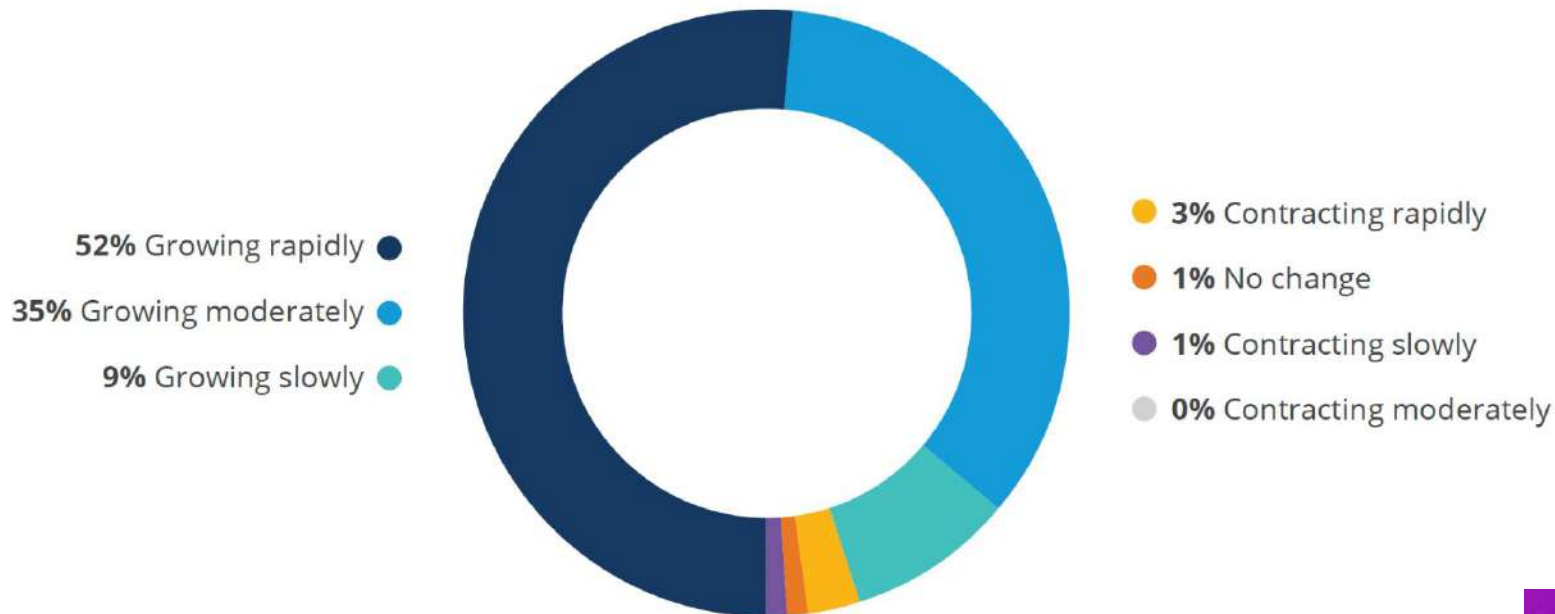


**Deloitte.**

# Blockchain Growth

Q19. Where do you see business blockchain technology going over the next 2 years?

N=159, single response, percent responding



**87%** Growing rapidly or moderately

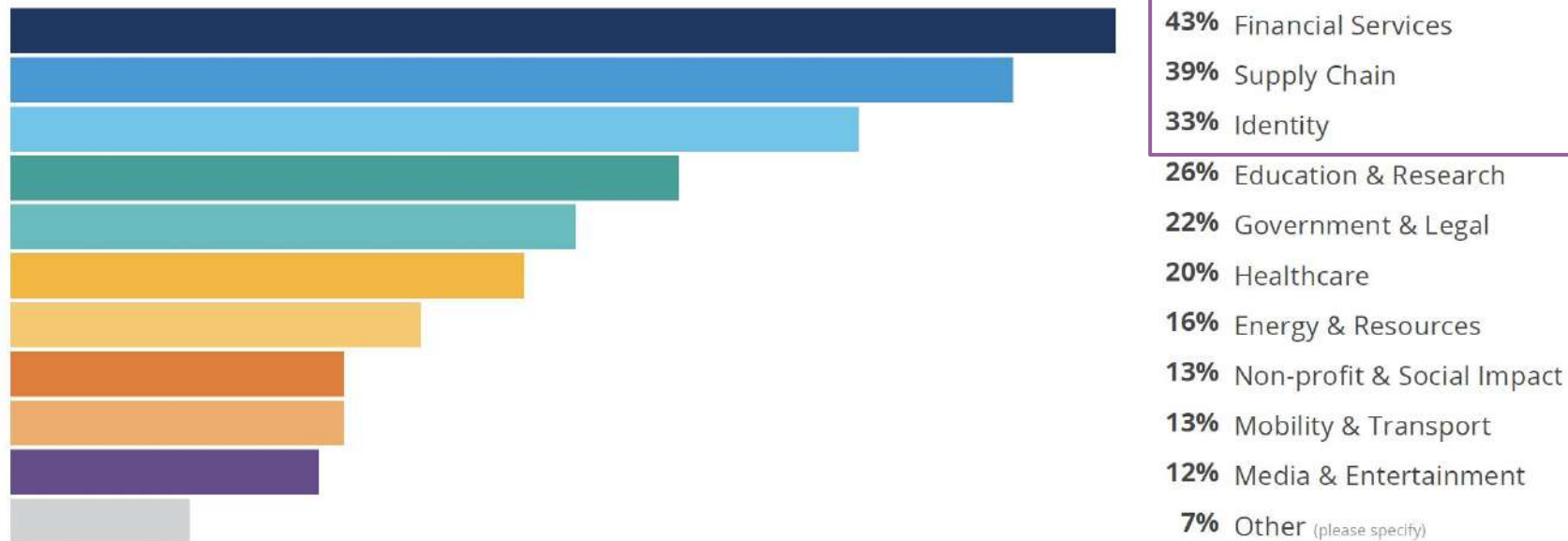


Survey respondents  
View “open source” as  
the most appealing  
enterprise blockchain  
attribute

# Blockchain Application Categories

Q17. Which of the following best categorize the blockchain application(s) being developed or deployed within your organization? Check all that apply.

N=189, multiple response, percent responding





# Key Areas of Growth where Hyperledger technology is Active

## PAYMENTS & TRADE FINANCE

- Re-structuring the plumbing of the global financial system
- Opportunity for new instruments (Stablecoins, CBDCs)
- 86% of Central Banks exploring CBDC, 60% have pilots (BIS)
- Greater efficiency, fraud prevention, inclusion



**Bank of Cambodia's Project Bakong** is an interbank payment system officially launched in October 2020: currently **links 11 domestic commercial banks and payment processors**. Recorded 1.4 million transactions, amounting to a value of about \$500 million, in the first half of 2021. Built on Hyperledger Iroha with **Soramitsu**



**Eastern Caribbean Central Bank** launched its **live CBDC called DCash** which is built on Hyperledger Fabric.

The **Bank of Thailand's** Project Inthanon-Lion Rock is using **Hyperledger Besu for its pilot CBDC network**.



**Global Shipping Business Network (GSBN)** is covering 1 in 3 containers in WW maritime shipping and being leveraged by 300 organizations built on **Hyperledger Fabric using Oracle Blockchain Platform** and AliBaba Cloud Fabric nodes.



**TradeLens** ecosystem has more than 300 orgs– extending to more than 10 ocean carriers and encompassing data from more than 600 ports and terminals. Already it has tracked over 42 million container shipments, close to 2.2 billion events and roughly 20 million published documents using **Hyperledger Fabric**



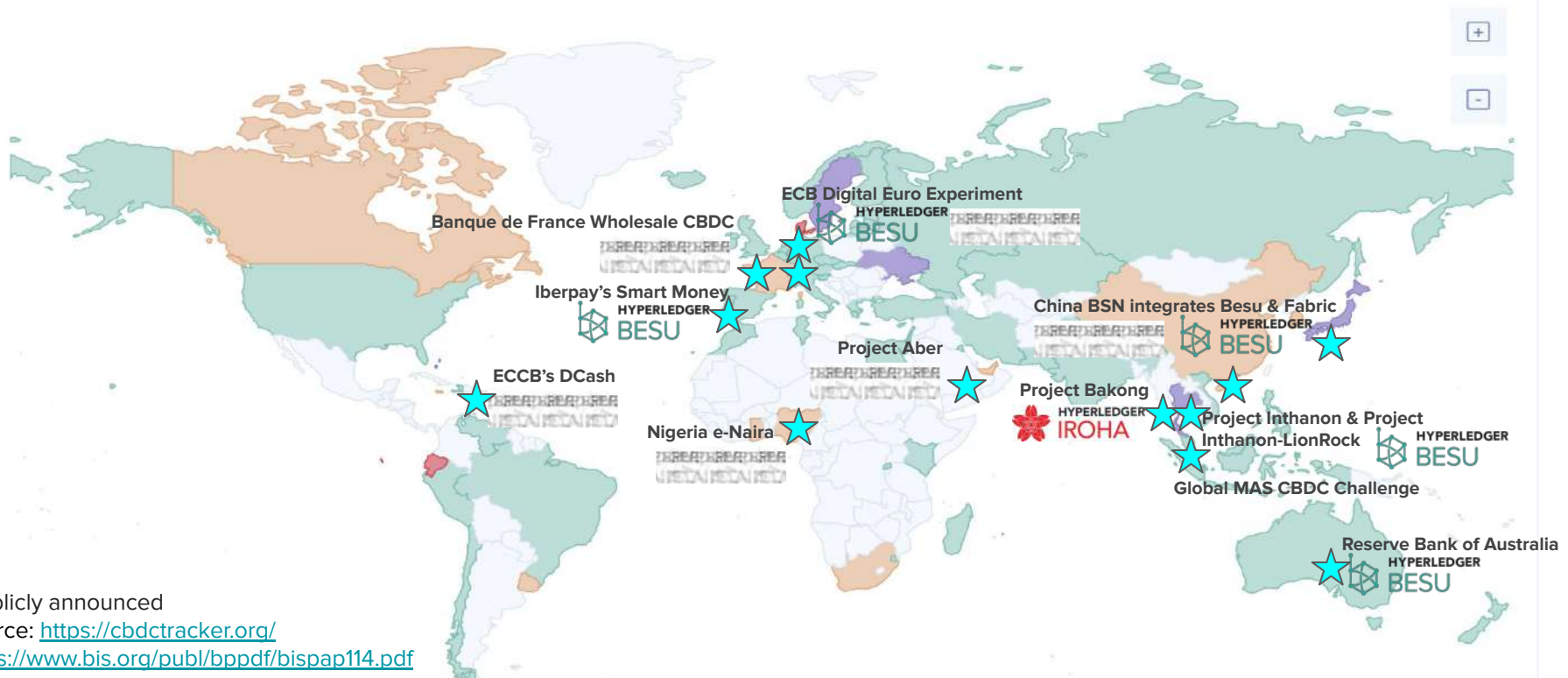
**we.trade** operates as a SaaS model and has already onboarded 16 banks across 15 countries onto the **Hyperledger Fabric** platform which prioritizes privacy.

# CBDC projects and experimentations with Hyperledger around the world\*

## Today's Central Bank Digital Currencies Status

Database update: September 2021 • News update: Sep, 28 21

Cancelled Research Proof of concept Pilot Launched Show all



\*publicly announced

Source: <https://cbdctracker.org/>  
<https://www.bis.org/publ/bppdf/bispap114.pdf>

# Key Areas of Growth where Hyperledger technology is Active

## PROVENANCE & SUPPLY CHAIN

- Potential boost to global GDP by 2030 US\$962bn
- Verify and track the source of goods
- Prevent fraud and counterfeit of goods
- Customer loyalty through transparency
- Touches all industries



Blockchain-based Traceability-as-a-Service to **verify responsible sourcing, underpin effective recycling and improve efficiency.** Notable customers include **Volvo Cars, Polestar, Vulcan Energy Resources** and **BHP.**



Walmart and retailers and food companies such as Unilever, Nestlé and Dole, have created a **shared ledger accessible to each party in the supply chain, all food processing steps can be recorded and stored on the blockchain.**



Tencent  
Cloud

The supply chain financial system is empowered by **Tencent TBaaS** platform and **Hyperledger Fabric**, and integrates smart warehouse and IoT technologies. Through cooperation with various financial institutions, the system provides decentralized, trusted and efficient supply chain financial services. **Reporting 50% reduction** in warehousing document workload. Inventory check reduced from **10 people a day to 4 people a half day.**



**Zuellig Pharma's eZTracker** is a blockchain based solution that provides pharmaceutical manufacturers visibility and traceability over their product's movements throughout the supply chain transforming patients' mobile devices into an instant verification tool, using Hyperledger Fabric.

# Key Areas of Growth where Hyperledger technology is Active

## IDENTITY

- Potential boost to global GDP by 2030 US\$224bn
- Safeguard valuable credentials
- Unlocks potential efficiencies and new capabilities in any industry
- Streamline onboarding, records exchange, prevent fraud
- 29% in Deloitte survey say digital identity will have the most impact in financial transactions

**bonifii**<sup>TM</sup>



**MemberPass** is the **first global digital identity ecosystem for credit unions and their members**. Provides consumer identity while protecting personal information. Adopted by more than 7 credit unions and counting, 20,000+ credentials issued. Built on Hyperledger Indy.

**The International Air Transport Association IATA Travel Pass** is a mobile app that helps travelers to store and manage their verified certifications for COVID-19 tests or vaccines. It was built with Evernym using **Hyperledger Indy** and **Hyperledger Aries**.

**Aruba Secure Health Card**, a pilot for sharing health information in a privacy-preserving way using DLT that **SITA**, the world's leading specialist in air transport communications built with Indicio using **Hyperledger Indy** and **Aries**.

**iD**union

**IDUnion** has 39 cross-sector partners building **production-level infrastructure for verification of identity data in finance, manufacturing, public sector and healthcare**. Addressing demand for migrating centralized identity systems towards decentralized self-sovereign management of digital identities for people, organizations and machines. IDUnion has launched an **Hyperledger Indy** test network, built components for allocation, verification and management of digital identities and more.

# Hyperledger Member Case Studies

On track to  
published 10 in  
2021!



## Case Studies

Browse various use cases powered by Hyperledger technologies



### Featured

**How Tech Mahindra Deployed Hyperledger Fabric for the Digital Transformation of Abu Dhabi's Land Registry**

**Industry:** Government  
**Topics:** Land Registries, Blockchain  
**Projects:** Hyperledger Fabric

[READ IT NOW](#)



**How we.trade Helps Businesses Grow With Digital Smart Contracts Powered by Hyperledger Fabric**

**Industry:** Finance  
**Topics:** Smart contracts, FinTech, Consortium blockchains  
**Projects:** Hyperledger Fabric



**RTI Blockchain & Ledger Leopard make tracking returnable transport items as easy as online banking with Hyperledger Besu**

**Industry:** Load Carrier Management  
**Topics:** Supply chain, Online banking  
**Projects:** Hyperledger Besu



**Thales and DigiCert team up to increase cybersecurity for Hyperledger Fabric**

**Industry:** Cybersecurity  
**Topics:** Public Key Infrastructure  
**Projects:** Fabric



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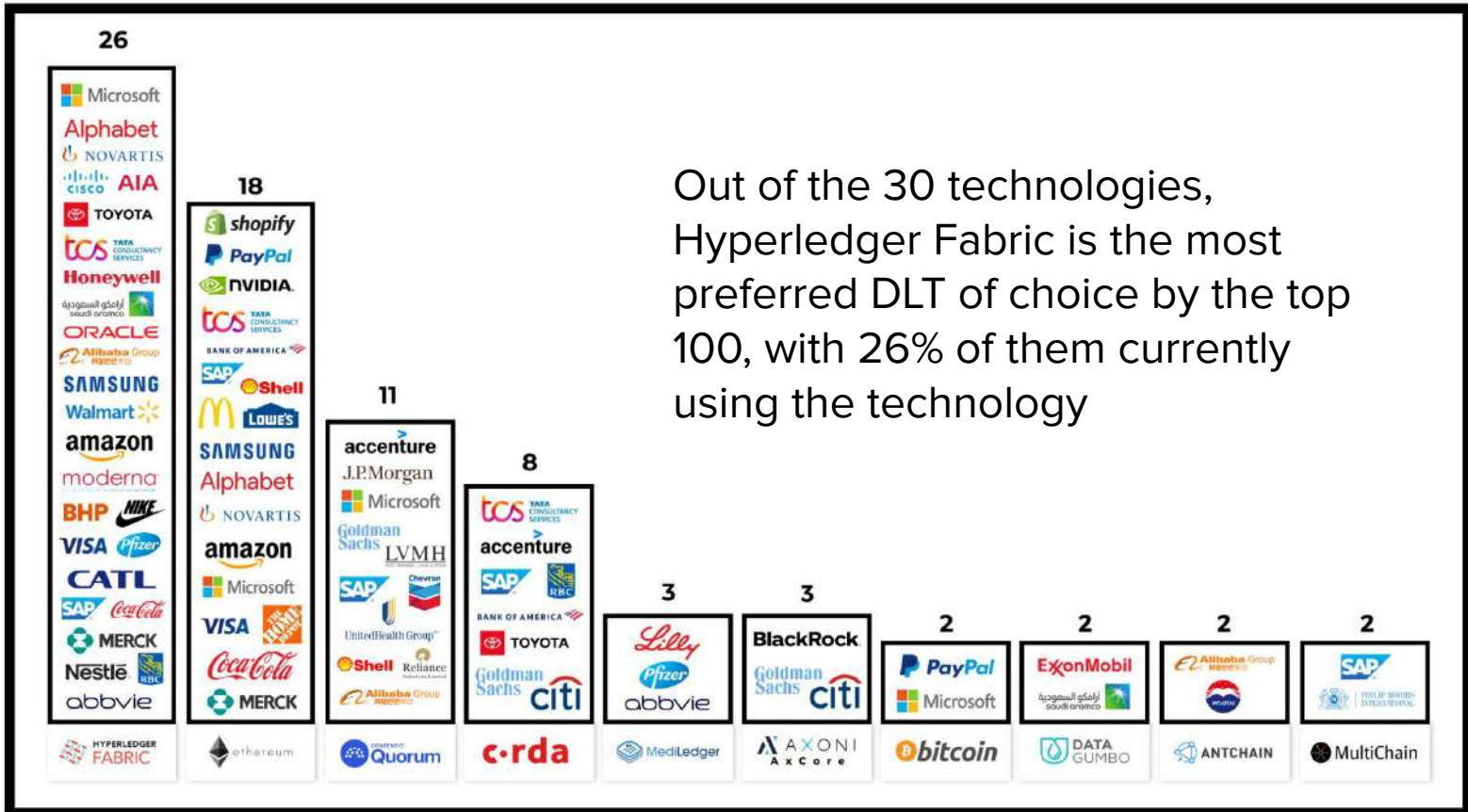
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# Blockchain Showcase

100+ showcase listings across many projects and use cases!







# Community Growth



# Growing Global Meetup Community



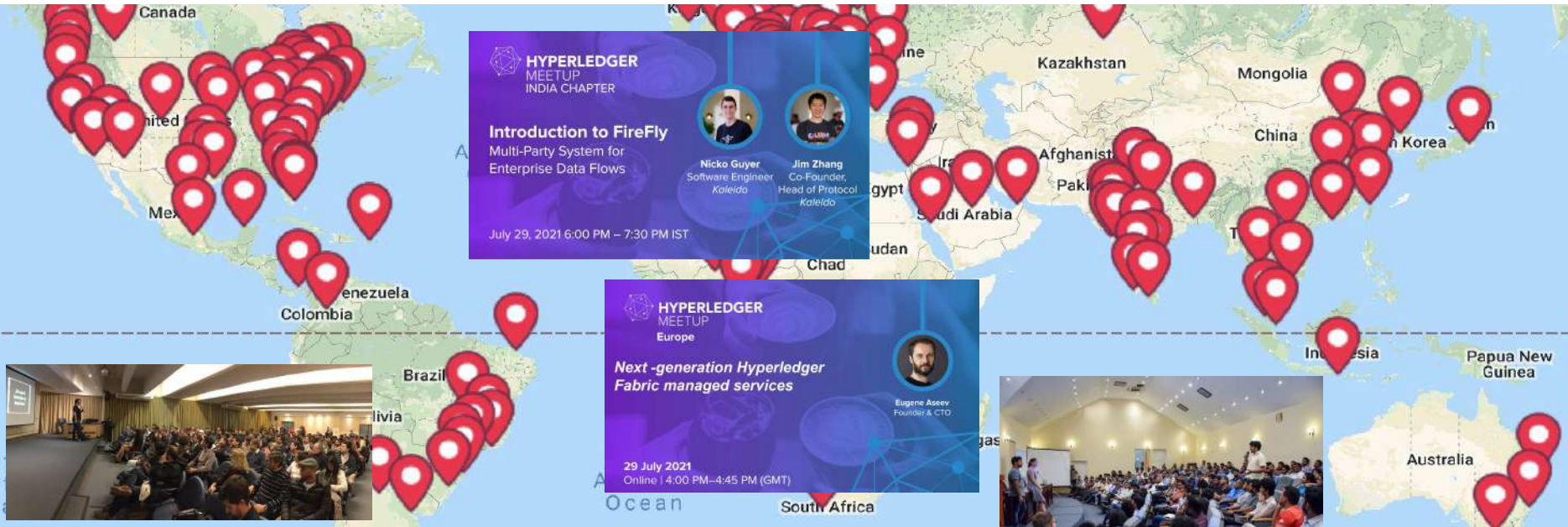
77,000+ Members



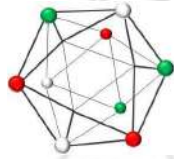
180 Groups



80+ Countries



# Hyperledger Regional Chapters



**HYPERLEDGER**  
ITALIAN CHAPTER



**HYPERLEDGER**  
JAPAN CHAPTER



**HYPERLEDGER**  
LATINOAMÉRICA



**HYPERLEDGER**  
INDIA CHAPTER



**HYPERLEDGER**  
BLOCKCHAIN TECHNOLOGIES FOR BUSINESS

# Hyperledger in Multiple Languages



13

Languages Used to Host Meetups

(Chinese, English, French, German, Italian, Japanese, Korean, Malayalam, Polish, Portuguese, Serbian, Spanish, Urdu)

8

Translation Projects for Fabric Documentation

(Chinese, Portuguese, Japanese, Malayalam, Spanish, Russian, Tamil and French)

6

Translations to Hyperledger Home Page

(Chinese, French, Japanese, Malayalam, Portuguese, Spanish)

11

Sessions of a Free Online Spanish Language Fabric Training Course

created by the Hyperledger Latinoamerica Chapter

Just launched! Hyperledger Fabric for Developersは日本語でも受講できます

# Training and Certifications

Technical training courses and professional certifications to get everyone on your team up-to-speed on Hyperledger.

## Professional Certifications

- **Certified Hyperledger Fabric Administrator (CHFA)**
- **Certified Hyperledger Fabric Developer (CHFD)**



## Online Self Paced Training:



- Blockchain: Understanding Its Uses and Implications
- Introduction to Hyperledger Technologies
- Introduction to Hyperledger Sovereign Identity Blockchain Solutions: Indy, Aries & Ursa
- Hyperledger Fabric Fundamentals



**HYPERLEDGER**  
TRAINING PARTNER

Visit: <https://www.hyperledger.org/resources/training>



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# Don't go it Alone - a Rich Commercial Ecosystem

Find your next partner via the **Hyperledger Vendor Directory** and **Hyperledger Certified Service Provider** ecosystem, a global network of technology partners, system integrators, consulting firms and solution vendors from a variety of industries working with Hyperledger technologies.

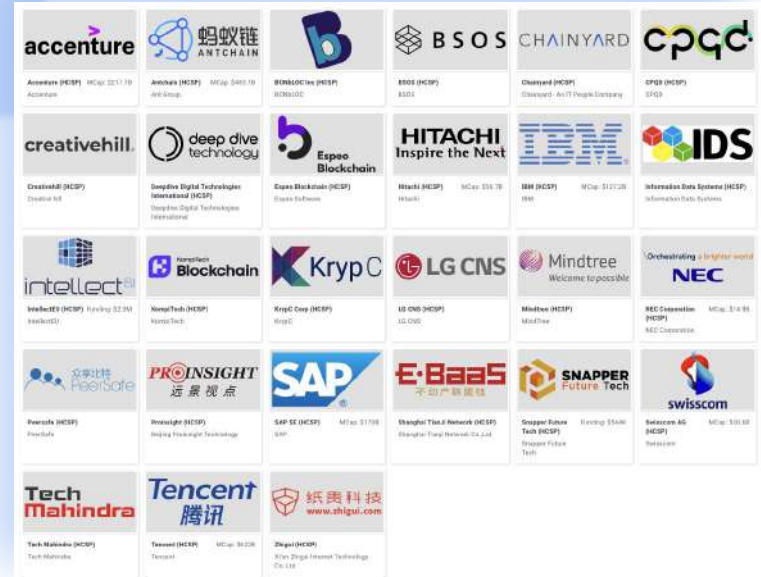


27+

Global HCSPs

80+

Vendors



# Join Us. Contribute. Share



Join a  
Community Call

Monday, October 26	
12:00pm	Hyperledger Labs Blockchain Automation Framework Contributors Blockchain Automation Framework
2:00pm	Hyperledger Healthcare SIG Hyperledger Healthcare Interoperability Subgroup
3:00pm	Hyperledger Cactus Cactus Maintainers [1] - Planning Session
3:00pm	Hyperledger Healthcare SIG Hyperledger Healthcare SIG (HC-SIG) Patient Subgroup Meeting
4:00pm	Hyperledger Climate SIG Peer Programming Session for Carbon Accounting and Certification Working Group
5:00pm	Hyperledger Learning Materials Development WPO LACONS Mentoring Contributor Calls
8:30pm	Hyperledger Community Brazil Chapter Hyperledger Brazil Chapter Meeting
Tuesday, October 27	
7:30am	Hyperledger Trade Finance SIG Trade Finance SIG
9:00am	Hyperledger Social Impact SIG Hyperledger Social Impact SIG
3:00pm	Hyperledger Arise Arise BRK4 User Group Meeting
3:00pm	Hyperledger Besu Besu Contributor Call ENEA/ARMER
3:00pm	Hyperledger Climate SIG CASIG Standards WPO call
3:00pm	Hyperledger Fabric Private Chainscode Lab
3:00pm	Hyperledger Indy Indy Contributors Call



Contribute to a  
Project or Lab

Grab a good first issue based on your level of experience/technical area(s) of expertise or interests:

- All Good First Issues
- Climate Action SIG Specific Good First Issues
- Level 100 - Introductory Good First Issues
- Level 200 - Intermediate Good First Issues
- Level 300 - Advanced Good First Issues
- Level 400 - Expert Good First Issues



Write a Blog or  
Developer  
Showcase




Blog

Developer Showcase

**Developer showcase series: Anitha Radhakrishnan, KrypC Technologies**

Back to our Developer Showcase Series to learn what developers in the real world are...

Hyperledger  
September 2, 2021



## /dev/weekly


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 announcements

 code & projects

Hyperledger Fabric

- [Node SDK v2.2.10 LTS Release.](#)

 noteworthy pull requests

Hyperledger Fabric

- [Possible way of adding external chainscode builders](#)
- [Enable smart retry on Gateway endorsement logic](#)

Hyperledger Grid


- [Add alternate id support to PO state](#)

Hyperledger Aries

- [Wait for done in case of Verifiable Credentials present proof](#)

Hyperledger Labs

- [Weaver DLT Interoperability: Added support for TokenSDK based application in Corda HTLC](#)
- [Fabric Smart Client: Fabric: support private chainscode innovation](#)

 articles, training & tutorials

Congratulations to our Technical Steering Committee Members from our India Regional Chapter!



**Arun S M**

Staff Software Engineer, Walmart Global Tech India



**Kamlesh Nagware**

Chief Technology Officer, Snapper Future Tech



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To know more and register

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THANK YOU !  
[www.hyperledger.org](http://www.hyperledger.org)

