An Update on Hyperledger & Open Source Blockchain

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A Network of Ledgers

Financial Services

Supply Chain
Provenance tracking. Trade Finance. Cutting bureaucracy at ports and customs. IoT to detect poor shipping conditions. Title tracking for high value goods.

Healthcare
Similar to The Linux Foundation, Hyperledger also has a modular approach to hosting projects. Think of Hyperledger as a greenhouse growing and sustaining business blockchain projects from seed to fruition. The Linux Foundation and Hyperledger provide the infrastructure for open development to occur among a diverse and thriving community.
The Hyperledger Greenhouse Architecture
Hyperledger Momentum

- 3 Years since launch
- 126K+ Commits
- 6 Tools
- 6 Frameworks
- 2 1.0+ Production Releases
- 260+ Members (50+ in AsiaPac)
- 11 Active Community Working Groups & Special Interest Groups
- 160+ Meetups Worldwide (66 countries)
- 44K+ Meetup Participants
- 2,000+ Media Clips Per Month

Hyperledger BLOCKCHAIN TECHNOLOGIES FOR BUSINESS
Training and Certifications

Technical training courses and professional certifications to get your whole company up-to-speed on Hyperledger with the highest quality training from The Linux Foundation and Hyperledger Training Partners.

Visit: https://www.hyperledger.org/resources/training
Now Across All Major Clouds
Growing Global Meetup Community

56K+ Members

160+ Groups

65+ Countries
Blockchain Showcase

Cross-industry projects built with Hyperledger frameworks and tools
Real World Case Studies

Cross-industry projects built with Hyperledger frameworks and tools
Ethical mining of tantalum and other conflict minerals

- Tantalum sold out of Rwanda has a history of being smuggled into the supply chain from the nearby Congo, where it was mined by children or forced labor enslaved by warlords. This led to tantalum being classed as a "conflict material" by the OECD, China, and the U.S. through the Dodd-Frank regulations.
- Circulor has created a blockchain-based supply chain tracing system to ensure that all tantalum is mined, transported, and processed under OECD-approved conditions.
- Powered by a private blockchain built on Hyperledger Fabric, the Circulor system uses QR codes attached to bags of ore to provide a world first: complete mine-to-manufacturer traceability of this valuable resource.
dltledgers global trade platform in production

- dltledgers platform is a production grade global trade platform running 100+ traders in production.
- Network all parties in a digital trade - real time, paperless and enable seamless payments.
- DBS bank enhance LC issuance, Trade financing, Digital BL, Payments are integrated to major banks.
- API integration to most major trade document transaction tools.
- You can start blockchain your trade at https://dlt.sg/dlt-for-traders/

124 Traders and growing
2,457 Global trades
3,200,658 transactions
$750M trade completed
4,500 + Farmers
China Minsheng Bank, China CITIC Bank, Bank of China and Suning Bank
- Letter of Credit System

● Jointly developed an open, standard and regulatory compliant domestic L/C transmission blockchain-based Letter of Credit System using Hyperledger Fabric.

● On the first day of production, over RMB100 million of L/Cs was processed and now this production system is supporting business worth billions of RMB daily.
Digital Trade Chain

The Challenge
Today, banks live in a competitive world. Small and mid-sized businesses generated 85% of employment growth in Europe in recent years, but only ~50% of them have access to formal credit. The Digital Trade Chain exemplifies how blockchain can bring the required trust and transparency to a new business network and associated business model.

The Collaboration
A consortium of major world banks including: Deutsche Bank, HSBC, KBC, Natixis, Rabobank, Société Générale, Santander, UniCredit and Nordea

The Technology
we.trade is a blockchain-based international trading system that enables accurate trading posture information, order to settlement control, risk coverage, track and trace options.
Using Hyperledger Fabric, a blockchain framework implementation hosted by Change Healthcare
Other Notable Production Deployments
Building a Commercial Ecosystem

85+

Global Vendors across multiple service types, products and industries
Our Member Community
Cross-Industry Member Participation

Members by Industry

- Training: 1.5%
- Technology: 24.1%
- Software: 0.4%
- Services: 11.9%
- Academic: 6.1%
- Aerospace: 0.4%
- Association: 2.7%
- Consortium: 1.9%
- Finance: 3.8%
- Financial Services: 15.7%
- Foundation: 0.8%
- Govt: 3.1%
- Healthcare: 3.4%
- Legal: 4.6%
- Non-Profit: 1.1%

260+
Global member community

37+ countries

US: 101
China: 48
UK: 16
Canada: 14
South Korea: 11
Germany: 8
Switzerland: 6
Some of our newest Members

Alibaba Cloud
BLOCKDAO
Citi
Telekom Innovation Laboratories
pts
Flying Pard
KEB Hana Bank
healthverity
MediConCen
TECHROCK
we.trade
SPB

HYPERLEDGER
BLOCKCHAIN TECHNOLOGIES FOR BUSINESS
In Practice

accenture
Wholesale Bank Payments Infrastructure

Sopnendu Mohanty, Chief FinTech Officer, MAS
“A key outcome of the consortium’s effort is the ability to perform netting while protecting the privacy of transactions. This helps to open up opportunity for a wider adoption of DLT-based settlement systems. We are sharing our learnings and knowledge from Project Ubin to encourage greater experimentation amongst central banks and financial institutions. We look forward to working with other central banks on the use of DLT for cross-border applications.”
Ittai Ben-Zeev, TASE’s CEO: “The Tel Aviv Stock exchange is pleased to present this first of a kind project. A safe, cutting-edge, state of the art platform, that was created thanks to a great collaboration among The Floor, Intel and Accenture. The Blockchain technology will present a new level of safety for securities lending and will support growth for transactions based on this new platform. Without a doubt, TASE is now, more than ever before, a global financial innovation leader.”
HEALTHCARE
Claims Management

PHARMA
Supply Chain
Blockchain IoT

PRESCRIPTIONS
Medicines
Traceability

IDENTITY
User Controlled
Identity

POSTAL
Inter-system
settlement
A coffee farmer and a coffee drinker. Directly tipping farmers who use sustainable practices.
Secure
Sustainable
Transparent
Reliable
and verified by blockchain
“CoinMarketCap” for Permissioned Ledgers?

Unbounded.network is tracking:

- 135 Fabric networks
- 169 Ethereum dapps/networks (including Cryptokitties)
- 62 Corda networks
- 14 Sawtooth networks
- 7 Stellar corp users
- 10 Quorum networks

In our own community:

- 85 Companies in the Vendor Directory
- 5 Training Partners
- 60 Entries in our Blockchain Showcase
- We need more!
2019: The Weird Go Pro

Self-Sovereign Identity systems (like HL Indy) will see finally be in production.
Certified cloud providers - to ensure interop on enterprise networks.
Certified developers and solutions providers.
More production networks, with real metrics for comparison.
More componentization and sharing across projects (e.g. HL Ursa).
More collaboration between permissioned and public chain communities.
More settlement tokens: JPM Coin, but also central bank digital currencies.