



# The 2021 Hyperledger Brand Study

Linux Foundation Research In Partnership With Hyperledger





# Methodology & Segmentation

# **Survey Scope and Screening Criteria**

#### Sample

- Size: 243 (after screening filters)
- Survey fielded: May 2021
- Scope: Worldwide
- Enterprises: Technology consumers, producers, and organizations

#### **Target Respondents**

- ITDMs, LoB Leaders, Project Managers, Academia
- Director, VP, or C-Level roles
- Material involvement in technology decision making

MoE is +/- 5.2% with 90% confidence and +/- 6.2% with 95% confidence

#### **Respondents filtered out of analysis**

- Where Title (q4), Role (q5), and Industry (q6) = "Other"
- Verbatims associated with these fields primarily showed respondents outside of our target criteria





# **Demographics at a Glance**

#### Role





- 49% IT
- 19% Product Dev
- **16%** Go To Market
- 6% Project Management
- **6%** Consultants
- **4%** Finance



Title



- **29%** Technician 24% C-level **19%** Management **11%** Analyst 10% Director
- 7% Other



#### **Company Size**



**55%** 1–100 Employees **14%** 30K+ Employees **12%** 1K–10K Employees **11%** 100–1K Employees 6% 10K–30K Employees 2% Don't Know



- **29%** North America
- 29% Asia Pacific
- 23% Europe
- 13% Latin America
- **6%** Middle East/Africa



- 36% IT
- **14%** Fin Services
- **11%** Business Services
- **7%** Education
- **5%** Manufacturing
- **4%** Government
- 4% HC/LS
- **19%** Other







Demographics

### **Company Size (Employees)**

### Q2. Counting all locations where your employer operates, what is the total number of persons who work at your company? Your best estimate is fine.







#### Q3. In which region do you reside?



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### Region

- **29%** North America (US/Canada)
- **27%** Asia
- **20%** Western Europe
- **13%** Latin America (Mexico, Brazil, Argentina, etc.)
- **5%** Africa
- **3%** Eastern Europe
- **2%** Australia/Oceania
- **1%** Middle East (Turkey, Egypt, Israel, etc.)



### **Q4.** Which of the following best describes your title?

N=243, single response, percent responding



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### Title

**10%** Director

- **6%** Chief Technology Officer (CTO)
- **4%** Network architect/ administrator
- **4%** Other C-level
- **3%** Vice President
- 2% Chief Strategy Officer (CSO)







### **Q5. Which of the following best describes your role?**

N=243, single response, percent responding



- **19%** Product Development
  - **9%** IT Operations
  - **9%** IT Consultant
- **9%** Business Development

### Role



- **6%** IT Management
- **6%** Project Management
- 6% Marketing
- **6%** Management Consultant
- **4%** Finance
- **2%** IT Other
- 2% Customer Success





#### **Q6.** What is your organization's industry?







### **Approach to Computing Infrastructure**

#### Q7. What is your organization's approach to providing computing infrastructure? Choose one.

N=243, single response, percent responding

42% Provided through a combination of private data center and cloud computing resources

**28%** Provided only by one or more cloud service providers or managed service providers



**15%** Don't know or not sure

**14%** Provided only by our private data center(s)

**1%** Other (please specify)





#### **Q8.** How would you describe your enterprise's approach to providing cloud computing infrastructure?

N=243, single response, percent responding

- **27%** Our cloud computing infrastructure is provided by one or more cloud service provider
- **21%** Our cloud computing infrastructure is provided by one cloud service provider
  - **16%** Don't know or not sure

### **Approach to Cloud Computing**



- **16%** Our cloud computing infrastructure is provided by one or more cloud service provider and managed service providers
- **12%** We are not using cloud computing infrastructure
- 4% Our cloud computing infrastructure is provided by one or more managed service providers

4% Other (please specify)







# Blockchain Questions

## **Blockchain Familiarity**

#### **Q9. How would you describe your familiarity with blockchain technology?**

N=236, single response, percent responding



- **20%** Very familiar
- **5%** Not familiar at all
- **1%** Don't know or not sure



## **Hyperledger Familiarity**

#### **Q10.** How would you describe your familiarity with Hyperledger technologies?

N=236, single response, percent responding



- **26%** Some familiarity
  - 20% Very familiar 🔵



### **Blockchain Use Cases**

#### Q11. Which one statement best describes blockchain technology? Choose one.

N=236, single response, percent responding



- **41%** A component that can be used to create a distributed database that multiple companies can securely interact with
  - **28%** Groups of transactions that reference prior transactions to create an auditable history
    - **26%** A cryptographic data 🔵 structure that can be shared between multiple entities

**3%** Bitcoin

- **1%** A network that will eventually replace banks
- 1% Don't know
- 0% A tool to bypass regulations and avoid law enforcement agencies





# **Blockchain Adoption**

### Q12. Which of the following best describes your organization when it comes to business blockchain technologies?

- **33%** Already has implemented, or is currently implementing blockchain technologies
- **22%** Currently evaluating or testing blockchain technologies
- **20%** Have discussed blockchain technologies



- **12%** Blockchain technologies are not currently on our radar screen
- 8% Don't know
- **5%** Accepts cryptocurrency as a payment mechanism







### If Blockchain Not Being Considered/Used

#### Q13. If blockchain is NOT yet being considered, how likely is it that your organization will evaluate business blockchain technologies in the next two years?



28% Don't know

23% Somewhat likely

19% Very Likely 🔵

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### **Scope of Respondent Decision Making** with **Blockchain**

### Q14. Which of the following describes the extent to which you are involved in decisions around blockchain within your firm?

- **46%** I have significant influence or decision-making authority (individually or as part of a group) regarding blockchain
  - **31%** I have some influence or input into decisions (individually or as part of a group) regarding blockchain



- **14%** I am not involved in blockchain decision making
- **10%** I have little or no influence or input on decisions regarding blockchain





## **Experience in Blockchain Application Development**

#### Q15. Do you or will you have hands-on experience developing applications for blockchain technologies? (E.g. supply chain tracking, asset tracking, cryptocurrency payments)



59% Yes

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N=189, single response, percent responding

29% No

**12%** Don't know or not sure





### **Are Blockchain Applications in Development?**

#### Q16. What type of blockchain applications are being developed or might be deployed within your organization?

N=188, single response, percent responding











### **Blockchain Applications in Development**

#### Q16. What type of blockchain applications are being developed or might be deployed within your organization?

N=189, multiple response, percent responding







### **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

- **43%** Financial Services
- **39%** Supply Chain
- 33% Identity
- **26%** Education & Research
- 22% Government & Legal
- **20%** Healthcare
- **16%** Energy & Resources
- **13%** Non-profit & Social Impact
- **13%** Mobility & Transport
- **12%** Media & Entertainment
- 7% Other (please specify)





### **Words to Describe Blockchain**

#### Q18. What words would you use to describe "business blockchain technology?" There are no right or wrong answers. Simply type in the first words that come to mind when you think about business blockchain technology.







### **Blockchain Growth**

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



- **52%** Growing rapidly
- **35%** Growing moderately
  - **9%** Growing slowly

- **3%** Contracting rapidly
- 1% No change
- 1% Contracting slowly
- 0% Contracting moderately





### **Words to Describe Blockchain**

#### Q20. Please identify the first five business blockchain technology projects or brands you can think of. Name up to five brands or projects in the spaces below.





### **Business Blockchain: Brand Familiarity**

#### Q21. When it comes to business blockchain, how familiar are you with the following brands?

Algorand
ConsenSys Quorum
Corda
Digital Asset
Ethereum
Hedera
Hyperledger
Hyperledger Besu
Hyperledger Burrow
Hyperledger Fabric
Hyperledger Indy
Hyperledger Iroha
Hyperledger Sawtooth
Tangle / IOTA





### What Best Describes each Blockchain Brand

#### **Q22.** Which of the following best describes each brand?

N=159, single response per row, percent responding

Algorand ConsenSys Quorum Corda Digital Asset Ethereum Hedera Hyperledger Hyperledger Besu Hyperledger Burrow Hyperledger Fabric Hyperledger Indy Hyperledger Iroha Hyperledger Sawtooth Tangle / IOTA





### **Blockchain Brand Perceptions**

### **Q23.** What are your perceptions of each of the following brands?

N=142, single response per row, percent responding

Algorand ConsenSys Quorum Corda Digital Asset Ethereum Hedera Hyperledger Hyperledger Besu Hyperledger Burrow Hyperledger Fabric Hyperledger Indy Hyperledger Iroha Hyperledger Sawtooth Tangle / IOTA 20% 0% 40%





### **Blockchain Constructs that are** Part of Hyperledger

#### Q24. Name any blockchain technologies or projects (e.g. codebases, frameworks, platforms, tools) that are part of Hyperledger.







#### **Q26.** How effectively do the following statements describe Hyperledger?

N=142, single response per row, percent responding

Built by and for enterprises			
Open source			
Strong governance model			
Backed by many leading companies			
Long track record of success			
Has well-established use cases			
Is part of a non-profit foundation			
Is a brand that I trust			
Evolves to meet new demands			
Develops production-ready technologies Provides access to blockchain vendors and partners			
Enables the development and trading of non-fungible tokens (NFTs)			
	0%	20%	40%



				Describes completel
				Describes somewhat
				Does not describe at
%	60%	80%	100%	





### **Blockchain Maturity**

#### **Q27.** Which of the following best describes the stage of development your organization is in with regard to blockchain technology?



- **10%** Don't know or not sure
- 7% No development intention
- **5%** Field trials
- **4%** Stalled post-pilot





### **Future Blockchain Deployment Plans**

#### Q28. If your organization is not yet deploying blockchain technology, how long do you think it will be before it is ready to do so?



- 11% Don't know or not sure
- **10%** Within 9 to 12 months
- **9%** Within 6 to 9 months
- 0% Never





### **Most Likely Technologies to be Leveraged**

#### Q29. Which of these technologies are most likely to be considered, evaluated, or implemented within your organization? Check all that apply.

N=140, multiple response, percent responding



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58%	Hyperledger Fabric
53%	Ethereum
45%	Hyperledger
21%	Corda
21%	Hyperledger Indy
19%	Digital Asset
18%	Don't know or not sure
14%	ConsenSys Quorum
14%	Hyperledger Besu
11%	Hyperledger Sawtooth
8%	Algorand
6%	Tangle / IOTA
5%	Hedera
4%	Hyperledger Burrow
3%	Hyperledger Iroha



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### Hyperledger Tools Most Likely to be Implemented

#### Q30. Which Hyperledger tools are most likely to be considered, evaluated, or implemented? Check all that apply.

N=140, multiple response, percent responding



- **30%** Hyperledger Explorer
- **21%** Hyperledger Calilper
- **15%** Hyperledger Cactus
- **11%** Hyperledger Cello
- **7%** Hyperledger Avalon
- **7%** None of the above







## **Appealing Blockchain Attributes**

### Q31. Imagine a hypothetical business blockchain technology was brought to market that included the following features. To what extent, if at all, do you find these features "appealing"?

N=140, single response per row, percent responding

0%	20%	40%
	0%	0% 20%





### **Benefits of Business Blockchain**

#### Q32. What do you see as the main benefits of business blockchain technologies? Check up to 5.

N=139, multiple response, percent responding

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- **68%** Creating a single source of truth among multiple participants/elimination of reconciliation
- **60%** Auditability—creation of an append-only audit trail
- **55%** Ability to share data with a greater degree of security
- **52%** Quality assurance with traceability of goods or transactions
- **42%** Software standards to keep everyone in the shared ecosystem in sync with transparent, verifiable ledger entries
- **40%** Reducing operating costs
- **28%** Overall efficiency
- **19%** Creating new revenue sources
- 1% Don't know or not sure
- 1% Other (please specify)



## **Challenges of Business Blockchain**

#### Q33. What do you see as the most significant challenges to the adoption of business blockchain technology? Check up to five that apply.

N=139, multiple response, percent responding



- **58%** Lack of technology maturity
- **50%** Too difficult to adopt and connect to legacy systems
- **49%** Difficult to explain to senior management
- **48%** Regulatory risks (e.g. unsure where government will come out)
- **34%** Costly migration
- **32%** Absence of regulation
- **24%** Limited governing body
- **19%** Concentration of power
- **17%** Security risks, hacking
- **14%** Competitive concerns (e.g. lack of privacy)
- **10%** Lack of control
- **6%** No accountability
- **10%** Other (please specify)



### **Level of Agreement with Blockchain** Characteristics

### Q34. Please indicate the extent to which you agree or disagree with the following statements:

N=139, single response per row, percent responding









### Interest in Participating in an Open Source **Blockchain Project**

#### Q35. How interested would you be in participating in an open source project that develops business blockchain technologies?

N=139, single response, percent responding



- **46%** Extremely interested
  - **28%** Very interested
- **19%** Somewhat interested

- **5%** Not very interested
- **2%** Already participating
- **0%** Not at all interested







#### Q36. If at least somewhat interested or already participating, what do you see as the benefits of participating in an open source organization? Check all that apply.

N=138 multiple response, percent responding



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### **Benefits of Participation**

73%	Keeps me up to date with leading technologies and trends
66%	Gaining skills
64%	Builds my professional network
45%	Builds my company's partnership network
39%	Participation helps my organizati
38%	Improving my job prospects
26%	Externalizes my company's use c
26%	Facilitates upstreaming our chan to the project
20%	Recruiting developers is easier
20%	Safeguards my company's blockchain technology investmer
5%	Other (please specify)





























































### **Should Hyperledger Change its Name?**

#### Q37. Should Hyperledger change its name to Hyperledger Foundation?

N=138 single response, percent responding



45% Yes 🌑





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HYPERLEDGER

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