



# **BigTech Battle: Assessing Enterprise Readiness of Blockchain Frameworks – Protocols of the Decentralized Ecosystem**

Digital Services

Market Report – February 2020: Complementary Abstract / Table of Contents

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# Background, scope, and methodology for assessing enterprise readiness of blockchain frameworks

- Blockchain technology is signaling enterprise readiness and the move beyond the hype phase, where it had captured the attention of visionaries, technologists, governments, and enterprises alike. Blockchain has witnessed widespread adoption across industries, with projects moving from Proof of Concepts (POCs) to deployment stages
- Enterprises are betting big on blockchain technology and are actively looking for ways to easily understand, prototype, and deploy blockchain-based solutions. In recent years, open source blockchain frameworks have exploded in popularity as enterprises, large and small, look to explore and adopt the technology. Open source frameworks have driven most of the adoption among enterprises, even as managed platforms continue to take a foothold in the market. These frameworks are the easiest gateway to developing enterprise-grade solutions and will continue to lead the adoption across industries and use cases
- This report is focused on the blockchain frameworks landscape and assesses 13 frameworks on their capabilities, enterprise readiness, and potential impact. This report intends to also demystify the blockchain framework landscape and provide an outlook of the industry

## Scope of this report



### Industry

All industries witnessing blockchain implementation have been covered in this report



### Market segment

Blockchain frameworks



### Geography

Global



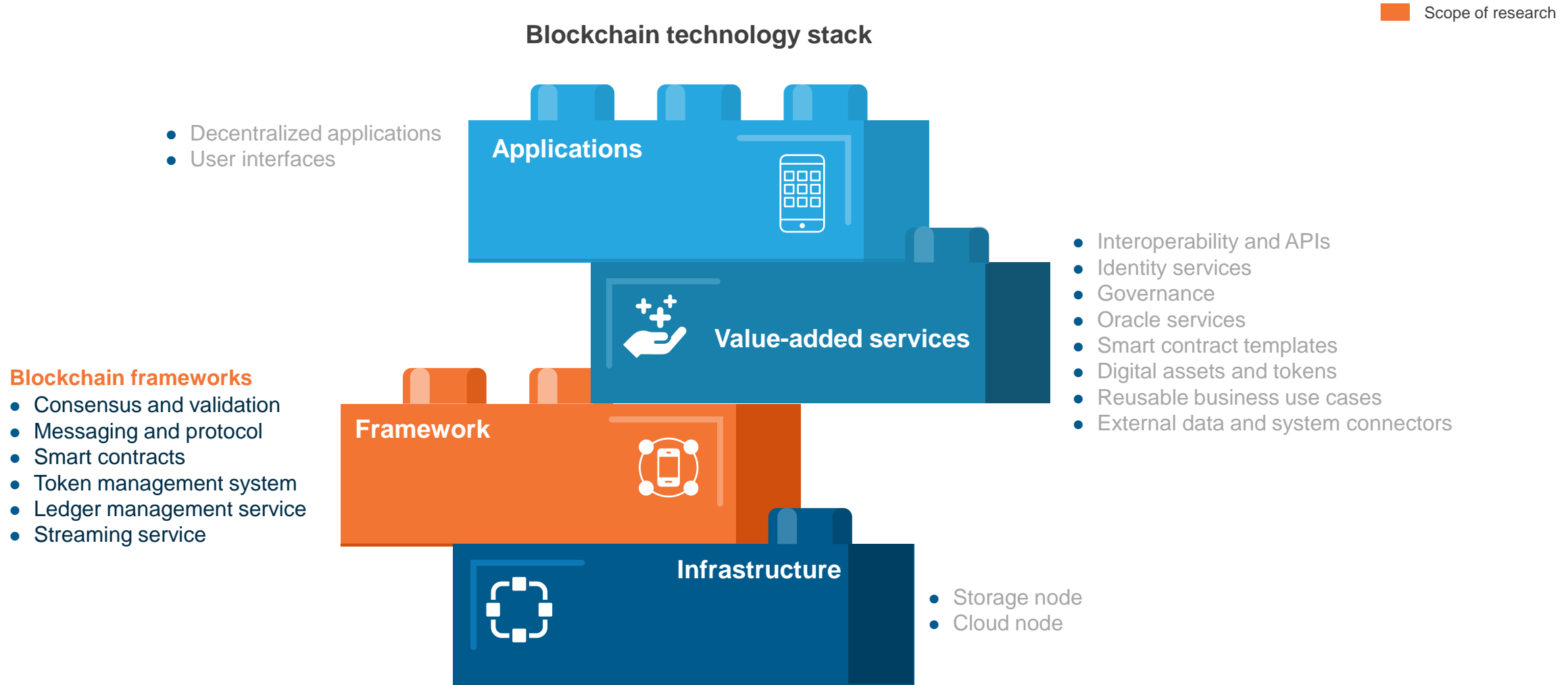
### Sources

- Operational capability of 13 blockchain platforms updated through service provider and enterprise discussions and public disclosures
- Demonstration of capabilities through briefings and discussions given by consortia leading the framework

## Service providers covered in the analysis



# Everest Group's definition of blockchain frameworks





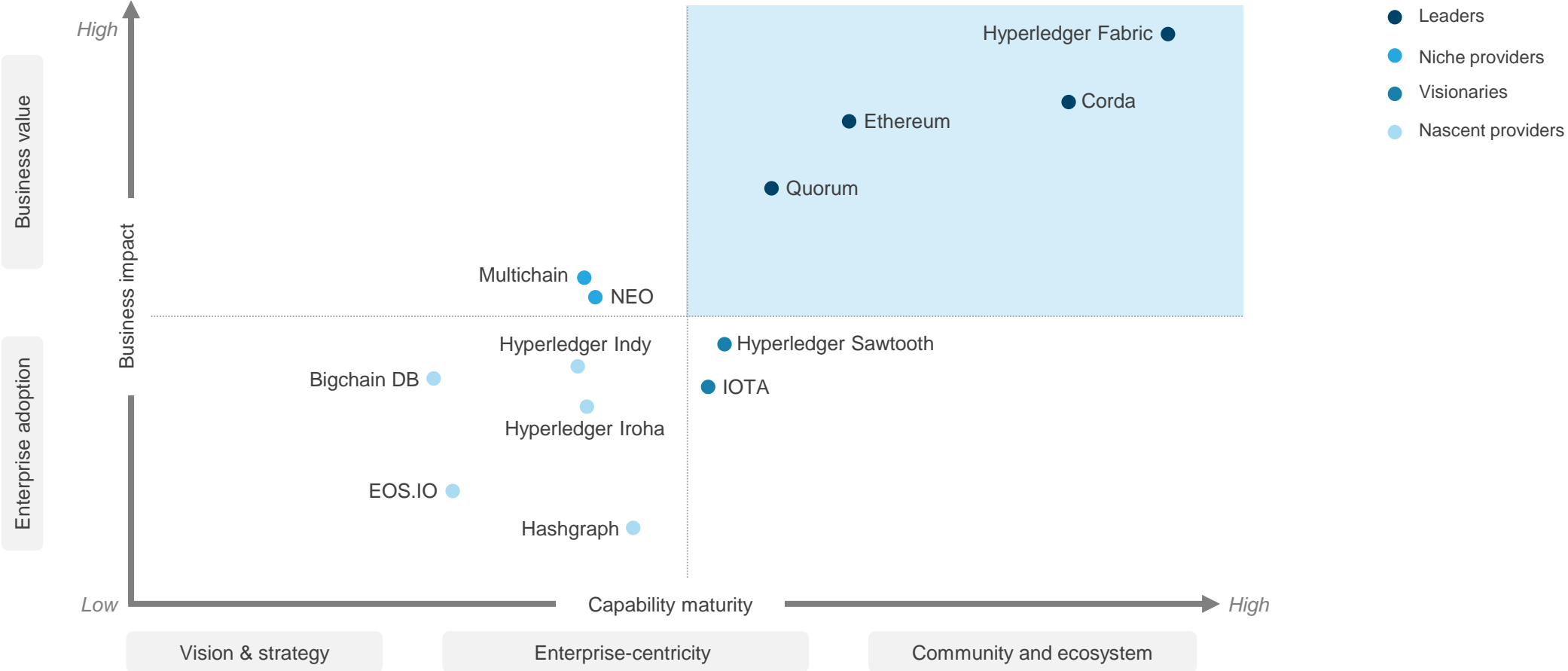
# This report assesses 13 popular blockchain frameworks

Blockchain frameworks assessed in this report

			 <p>ethereum</p>	 <p>Hedera Hashgraph</p>
				
	 <p>MultiChain</p>			

# Blockchain frameworks that offer comprehensive solutions, in addition to driving ecosystem collaboration, lead the pack

Enterprise readiness assessment of blockchain frameworks based on capability maturity and business impact

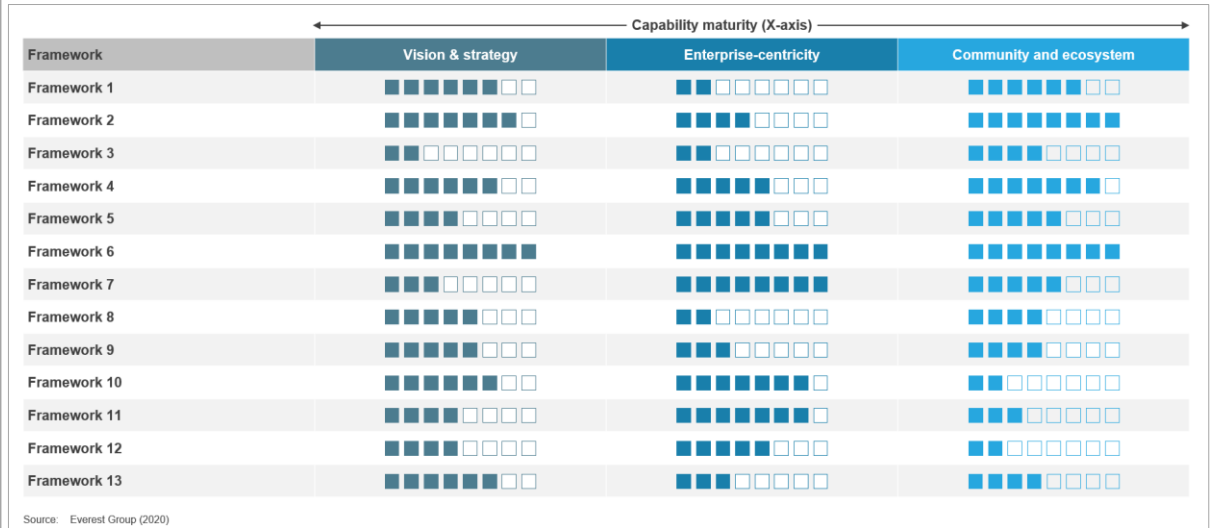


Note: Assessment for BigchainDB, EOS.IO, Ethereum, Hashgraph, NEO, and Quorum excludes platform vendor inputs, and is based on Everest Group's proprietary database, public disclosures, and interactions with enterprises and blockchain system integrators. For these companies, Everest Group's data for assessment may be less complete. Data used has been collected on or before January 2020

Source: Everest Group (2020)

# Everest Group assessed capabilities and adoption of blockchain frameworks to understand their readiness for enterprise use

## Frameworks were assessed on their readiness for enterprise use



## Profiles of assessed blockchain frameworks

### XYZ Nascent

**Strengths**

- Robust database functionalities alongside flexible permissioning of the network
- Focus on building blockchain capabilities on the NoSQL database makes it an ideal environment for clients looking to leverage blockchain data for analytics

**Areas of Improvement**

- Limited community around the framework, with few enterprises and SIs backing it
- Needs to drive adoption among developers to improve talent pool to accelerate breaking into the enterprise market

**Top 3 geographies** Europe

**Top 3 industries** Banking, HLS, Hi-tech

Smart contract languages supported	C#	Go	JavaScript	Haskell	Python	Ruby
Key features	Permissioned and permissionless		MongoDB underpinning	Tendermint consensus	Native multi-asset support	Analytics-ready
Key use cases	Licensing and verification	Digital identity	Royalty distribution	Supply chain track and trace	Know Your Customer (KYC)	Health records management

**Examples of enterprise adopters** Resonate and BenBen

**Enterprise contributors (illustrative)** Ocean Protocol, Tymlez, and ScanTrust

Partnerships	Details
Microsoft	Microsoft partnered with XYZ to make Azure compatible with the framework and support querying of blockchain data
Cognizant	Working with XYZ to design a solution for decentralized storage
Daimler	Partnered with XYZ to build solutions combining the performance of NoSQL databases with the consensus of blockchain

Recent activities	Details
Transition of governance	Governance of XYZ is being transitioned over to the IPDB Foundation
Alliance	Collaborated with Ares Tech to build a prototype for a blockchain-based gaming platform

**Number of open source contributors** 50-100

**Website** [www.xyz.com](http://www.xyz.com)

Source: Public disclosures, Everest Group (2020)



# Research calendar – Digital Services

Published
  Planned
  Current release

## Flagship Digital Services reports Release date

IoT Services PEAK Matrix™ Assessment and Market Trends 2018	December 2018
Digital Services PEAK Matrix™ Assessment and Market Trends 2019	December 2018
Digital Interactive Services PEAK Matrix™ Assessment and Market Trends 2019	August 2019
Blockchain Services PEAK Matrix™ Assessment and Market Trends 2020	December 2019
Connected Ecosystem Services PEAK Matrix™ Assessment and Market Trends 2020	Q4 2019
Digital Interactive Services PEAK Matrix Assessment	Q2 2020
AI Services PEAK Matrix Assessment	Q3 2020

## Thematic Digital Services reports

BigTech Battle: Leading Internet of Things (IoT) Platforms Assessment – A Selection Guide	October 2018
Customer Experience Trailblazers – Experience Spearheading the Digital Economy	February 2019
BigTech Battle: Digital Experience Platforms Assessment – Rise of the Digital Experience Platform	June 2019
AI Masterclass   Recalibrate Your AI Impact – Insights From 230 AI Use Cases Across Industries	October 2019
BigTech Battle: Assessing Enterprise Readiness of Managed Blockchain Platforms	December 2019
<b>BigTech Battle: Assessing Enterprise Readiness of Blockchain Frameworks</b>	<b>February 2020</b>
Big Tech Battle – Enterprise Data Platforms	Q2 2020

Note: For a list of all of our published Digital Services reports, please refer to our [website page](#)

# Additional Digital Services research references

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The following documents are recommended for additional insight into the topic covered in this report. The recommended documents either provide additional details or complementary content that may be of interest

- 1. Enterprise Blockchain Services PEAK Matrix™ Assessment 2020: Getting the Economics of Consensus Right** ([EGR-2019-33-R-3461](#)); 2019. The recent surge in blockchain adoption has created a unique market for service providers. Many leading service providers are adopting a platform approach of building proprietary industry-centric offerings. In this research, we assess the vision & capability and market impact generated by 30 service providers for enterprise blockchain services capabilities. These providers were mapped on the Everest Group PEAK Matrix™, which is a composite index of a range of distinct metrics related to each provider's vision & capability and market impact to identify Leaders, Major Contenders, and Aspirants
- 2. BigTech Battle: Assessing Managed Blockchain Platform Readiness for Enterprise Use – Gearing Up for the Adoption Wave** ([EGR-2019-33-R-3433](#)); 2019. The predominant means of adopting blockchain for many enterprises is open source blockchain frameworks, while many are considering managed blockchain platforms in search of a mature and deployment-ready solution that is easy to adopt, maintain, and manage. This report is an assessment of 12 such platforms to understand their readiness for enterprise use
- 3. Enterprise Guidebook for Blockchain Adoption: A Compilation of Insights from 320+ Blockchain Projects** ([EGR-2019-33-R-3095](#)); 2019. In this research, we analyzed 320+ blockchain case studies to understand the blockchain adoption journey for leaders across industries. We also identified more than 90 use cases across 10+ industries offering proof points of blockchain adoption. This report also provides a roadmap for blockchain adoption to enterprise executives leading blockchain initiatives, helping them to extract the maximum impact by studying the value currently being delivered and building pragmatic hypotheses on potential value

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