



Guidebook for Blockchain Adoption in Healthcare and Life Sciences: A Compilation of Insights from 40+ Blockchain Projects

ITS | Life Sciences

Annual Report – March 2019: Complimentary Abstract / Table of Contents

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Custom research capabilities

- Benchmarking | Pricing, delivery model, skill portfolio
- Peer analysis | Scope, sourcing models, locations
- Locations | Cost, skills, sustainability, portfolio – plus a tracking tool
- Tracking services | Service providers, locations, risk
- Other | Market intelligence, service provider capabilities, technologies, contract assessment

Table of contents

Topic	Page no.
Background and scope	4
Summary of key messages	6
Everest Group "BINGO" framework for blockchain adoption	8
• B: Business value articulation	10
• I: Invest in the right use case	16
• N: Network effect for scaling blockchain	23
• G: Guide to technology investments	31
• O: Overcome challenges	36
Blockchain use case compendium	40
Appendix	50
• Glossary of terms	51
• Research calendar	52
• References	54

Background and scope of the research

Everest Group's Healthcare and life sciences IT services research team tracking the enterprise blockchain adoption journey brings a guidebook for enterprise executives leading blockchain initiatives in healthcare and life sciences to:

1. Build a fact-based business case for blockchain investments by presenting an analysis of 40+ blockchain case studies
2. Guide investments to extract the maximum value by studying current value delivered and building pragmatic hypothesis on potential value
3. Demystify the blockchain technology landscape and identify the right set of partners for your business use case
4. Identify challenges that enterprises face on their blockchain journey to guide the blockchain adoption strategy
5. Identify data and network participants to support scaling of blockchain ecosystems to gain from the network effect



In this report, we studied 40+ blockchain case studies to identify the blockchain adoption journey for lead steers in the industry and build a guidebook for adoption



BINGO framework for blockchain adoption



The 4Ts of blockchain benefits



Build competitive advantage via blockchain initiatives

Scope of this report



Industry

- Healthcare (payers, providers, Pharmacy Benefit Managers (PBMs), and pharmaceutical distributors)
- Life sciences (pharmaceuticals and biotechnology & medical devices)



Companies

Market activity and investments by 200+ global enterprises



Geography

Global



Use cases

15+ distinct blockchain use cases

A summary of findings from the blockchain adoption story so far in the healthcare and life sciences industry



The blockchain hype is dying and the real business use cases are gaining steam

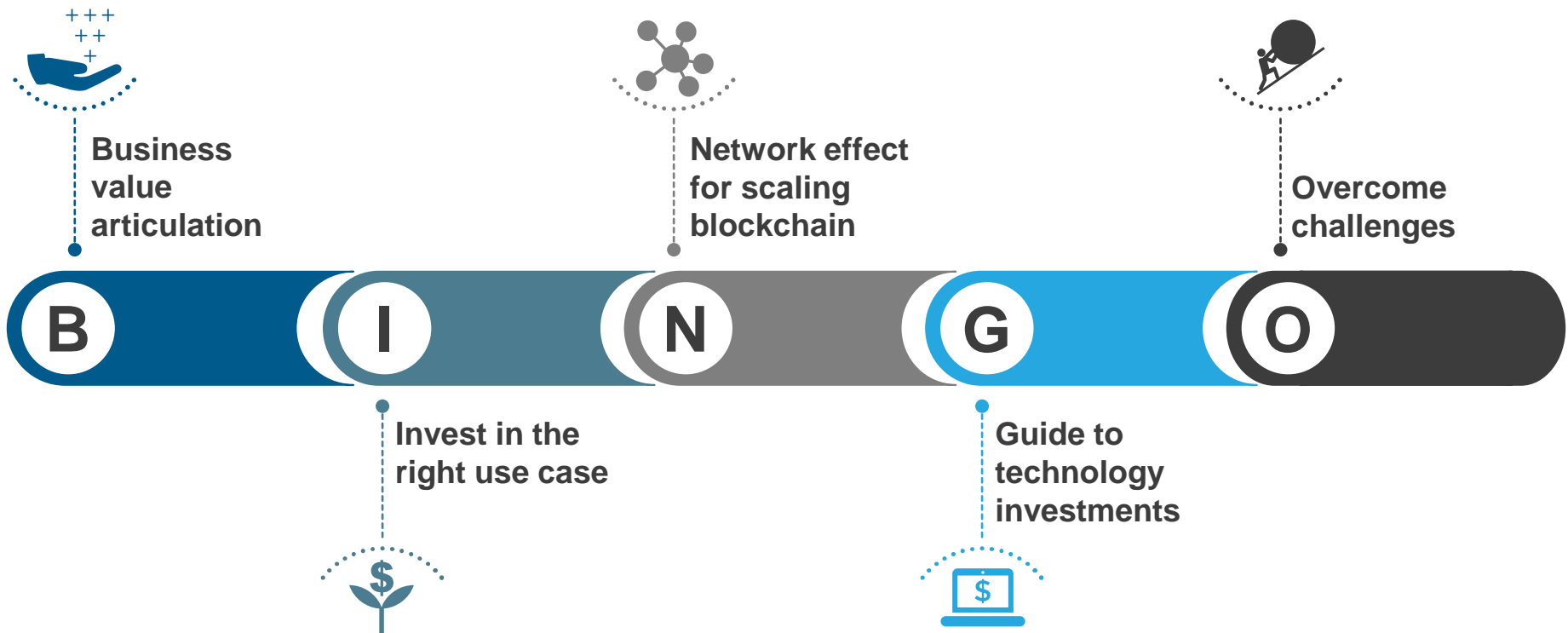
Study of 42 projects indicates that pharmaceuticals is witnessing the maximum adoption

HLS firms will need to partner with blockchain ecosystems to scale beyond POCs

Identifying data and network participants to reimagine processes leads to higher ROI

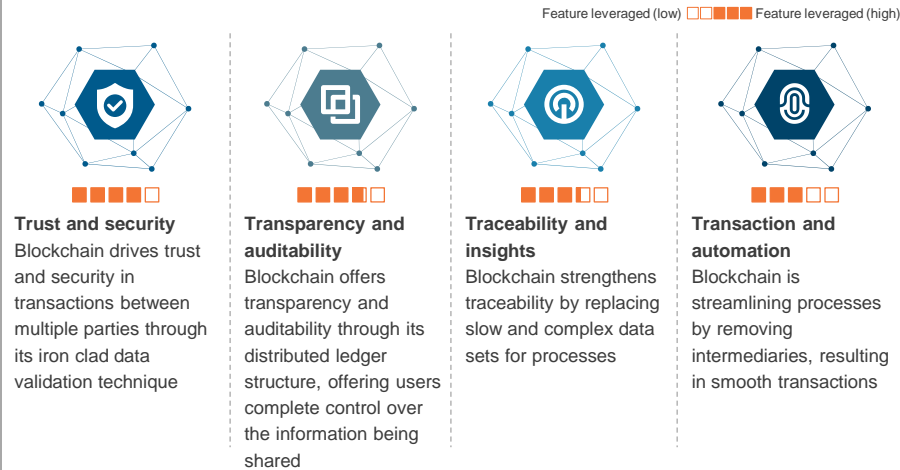
Hyperledger Fabric, Ethereum, and Quorum are the key blockchain technology platforms

Everest Group has identified a five-step structured framework to guide enterprise blockchain adoption journey

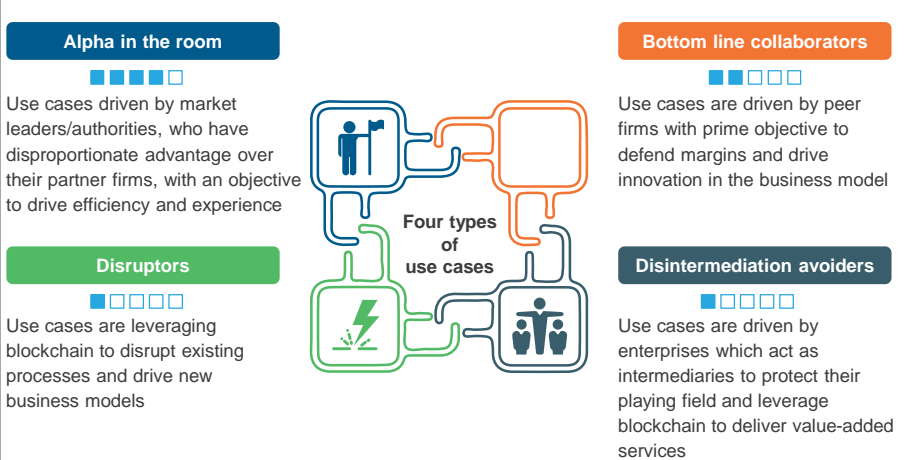


This study offers a deep dive into key features of blockchain technology, types of blockchain use cases being adopted, types of blockchain ecosystems, and business benefits witnessed

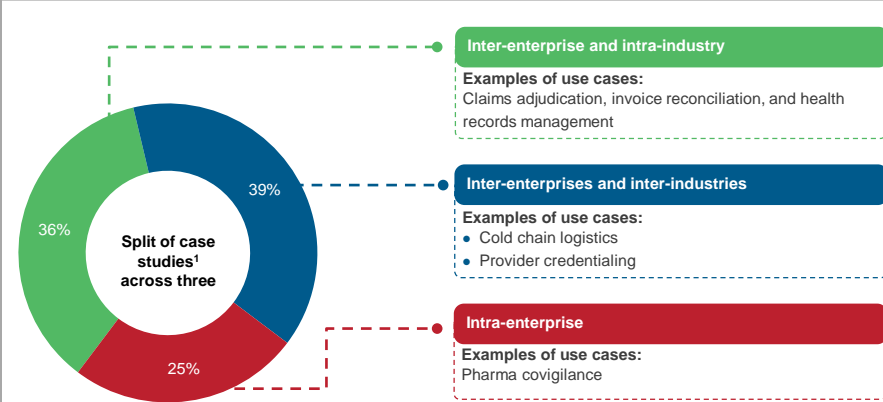
Blockchain's 4T feature



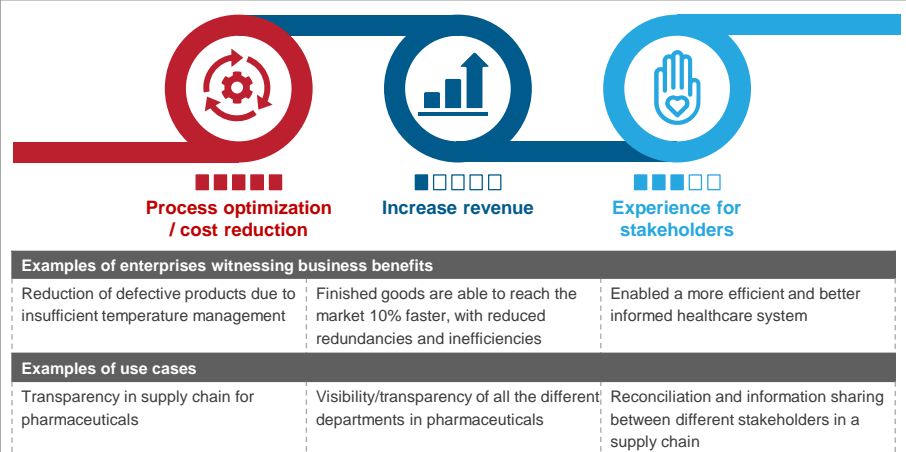
Types of use cases being adopted by industry



Types of blockchain ecosystems



Examples of business benefits derived from blockchain projects



In this section we list down 15 use cases across HLS industries to bring out proof points of blockchain adoption

Guide to read this section

High activity

Moderate activity








Limited activity

Defines the meaning of color coding of icons mentioned below. For example, transparency & auditability has moderate activity, while increasing revenue has limited activity in the use case

Health records management

Blockchain-enabled Longitudinal Health Record (LHR) that illustrates claim data posted by disparate payers applications

Defines the name of blockchain use case along with a short description

Driver: Alpha in the room <i>Defines the dominant driver for the use case (refer to page 28 for definition)</i>				Ecosystem: Inter-enterprise (across industry) <i>Defines the dominant type of ecosystem for the use case</i>		Production readiness: 63% <i>Provides a comparative score measuring the extent of projects moving toward production readiness or already live</i>	
Blockchain properties leveraged				Business benefits			
 Trust & security	 Transparency & auditability	 Traceability & insights	 Transactions & automation	 Process optimization / cost reduction	 Increase revenue	 Experience for stakeholders	
Color of the icon defines the level of activity of the feature in this use case				Color of the icon defines level of the business benefit in this use case			
Top platforms		Hyperledger Fabric <i>Defines the top three platforms leveraged for this use case</i>					

Research calendar – Life Sciences ITS

■ Published ■ Planned ▨ Current release

Flagship Life Sciences IT Services reports

Release date

Life Sciences IT Application Services – Service Provider Landscape with PEAK Matrix™ Assessment 2017	May 2017
Life Sciences Clinical and R&D IT Services – Service Provider Landscape with PEAK Matrix™ Assessment 2017	July 2017
Life Sciences Clinical Trials – PEAK Matrix™ Assessment for Products 2017	September 2017
Life Sciences Report Card 2017 – Enterprise Initiatives and Service Provider Performance	March 2018
Life Sciences Annual Report 2018: Pharma's DevOps Factor for Digital Transformation	March 2018
Life Sciences Digital in North America – Service Provider Landscape with Services PEAK Matrix™ Assessment 2018	June 2018
Life Sciences Digital in Europe – Service Provider Landscape with Services PEAK Matrix™ Assessment 2018	August 2018
Life Sciences Report Card 2018 – Enterprise Initiatives and Service Provider Performance	March 2019

Thematic Life Sciences IT Services reports

Release date

Regulatory Stress: Life Sciences Market Under the GDPR Regime	March 2018
Closing the Gap : The Future of IT Skills in the United States	April 2018
Atos Acquires Syntel: Can Atos Win in the North American Battleground?	July 2018
The Dissatisfaction Conundrum: What Clients Are Not Telling Service Providers?	January 2019
Assuring Trust in a Converging Life Sciences Ecosystem: The Emerging Role of Quality Assurance	February 2019
Guidebook for Blockchain Adoption in Healthcare and Life Sciences: A Compilation of Insights from 40+ Blockchain Projects	March 2019
The Future of Clinical Trials	Q2 2019

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Research calendar – Healthcare ITS

Published
 Planned
 Current release

Flagship Healthcare IT Services reports

Release date

Healthcare Provider IT Services – Service Provider Landscape with Services PEAK Matrix™ Assessment 2017.....	November 2017
Healthcare Consulting – Service Provider Landscape with Services PEAK Matrix™ Assessment 2017.....	November 2017
Healthcare Report Card 2017 – Enterprise Initiatives and Service Provider Performance.....	March 2018
Healthcare Payer Annual Report 2018: Payers Look at Digital to Reinvent in a Turbulent Healthcare Market.....	March 2018
Dr. Robot Will See You Now: Unpacking the State of Artificial Intelligence in Healthcare – 2019.....	October 2018
Healthcare Payer Digital Services – Service Provider Landscape with Services PEAK Matrix™ Assessment 2019.....	December 2018
Healthcare Provider Digital Services – Service Provider Landscape with Services PEAK Matrix™ Assessment 2019.....	December 2018
Healthcare Report Card 2018 – Enterprise Initiatives and Service Provider Performance.....	March 2019

Thematic Healthcare IT Services reports

Release date

The Curious Case of Infosys and Vishal Sikka.....	August 2017
Healthcare IT Security Services – Market Trends.....	September 2017
The Rise of Medicare Advantage.....	October 2017
Closing the Gap : The Future of IT Skills in the United States.....	April 2018
Atos Acquires Syntel: Can Atos Win in the North American Battleground?.....	July 2018
Guidebook for Blockchain Adoption in Healthcare and Life Sciences: A Compilation of Insights from 40+ Blockchain Projects.....	March 2019
Big Tech in Healthcare – What does it mean for CIOs?.....	Q2 2019

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Additional research references

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

1. **Blockchain Services PEAK Matrix™ Assessment 2019: Race to Make Enterprise Blockchain Real** ([EGR-2018-31-R-2836](#)); 2019. In this research, we assess the vision & capability and market impact generated by 27 service providers for 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. **Blockchain: Is It the Silver Bullet?** ([EGR-2018-27-V-2567](#)); 2018. Analyzes high-potential use cases for blockchain – the major ones in banking and financial services include trade finance, KYC, syndicated loans, and corporate action
3. **Unblocking Blockchain Adoption – A Prioritization Framework for Business Processes** ([EGR-2017-3-V-2418](#)); 2017. In this research, we lay out a prioritization framework that is intended to assist enterprises as they navigate the tricky terrain of blockchain in business processes

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About Everest Group

Everest Group is a consulting and research firm focused on strategic IT, business services, and sourcing. We are trusted advisors to senior executives of leading enterprises, providers, and investors. Our firm helps clients improve operational and financial performance through a hands-on process that supports them in making well-informed decisions that deliver high-impact results and achieve sustained value. Our insight and guidance empower clients to improve organizational efficiency, effectiveness, agility, and responsiveness. What sets Everest Group apart is the integration of deep sourcing knowledge, problem-solving skills and original research. Details and in-depth content are available at www.everestgrp.com.

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