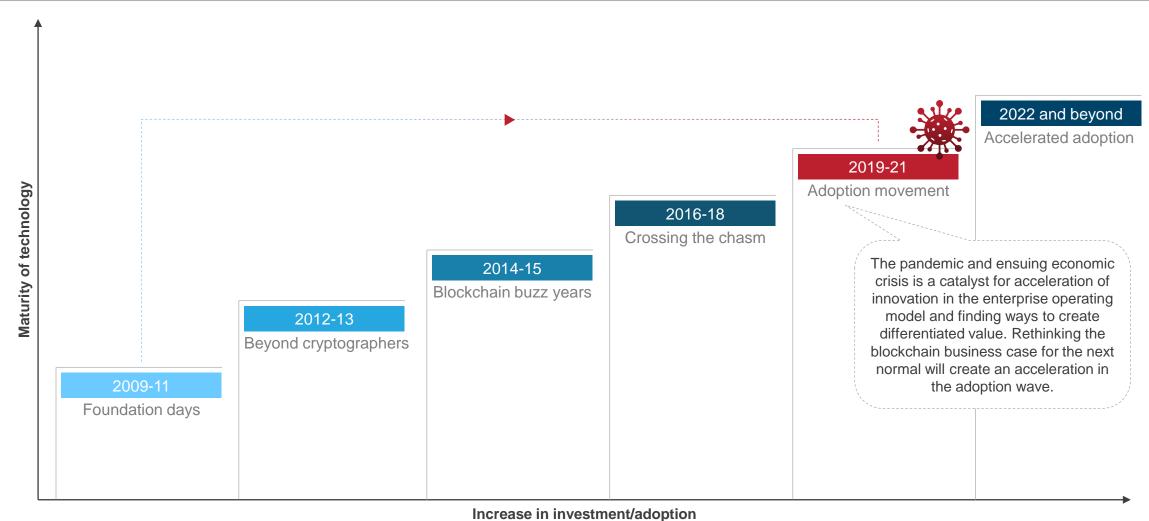




# The Power of Blockchain in the Time of Uncertainty

August 2020

# Rise of enterprise-grade blockchains has prepared industry participants for the adoption movement



Source: Everest Group (2020)



# Coronavirus pandemic will cause enterprises to build resilient and risk-optimized operating models, this will accelerate adoption of blockchain to support innovation in operations

# Operations cycle Innovation Delivery of services/products Operations cycle • Technology stability • Rigorous repeatability • Stakeholder experience



**Innovation cycle** 

Exploration and feasibility

Competitiveness and growth

Potential to handle disruption

### COVID-19 impact on blockchain

### **Short term**

- Innovation activities halted due to disruptions in cashflow
- Enterprises focus on core operations to better manage cash-flow

#### **Medium term**

**Research and development** 

- Enterprises realize the importance of radical digital adoption
- Rapid interest in readying blockchain use cases for operational use

#### Long term

Workflows

- Enterprises look for new avenues to build resilience, grow revenue, and optimize processes
- Innovative technologies such as blockchain will form the foundation of the "New" enterprise



# Network Resource Planner will be the next evolution of blockchain ecosystem encompassing the scope of blockchain solutions to be the next-generation of ERP

### **Evolution of the blockchain ecosystem**







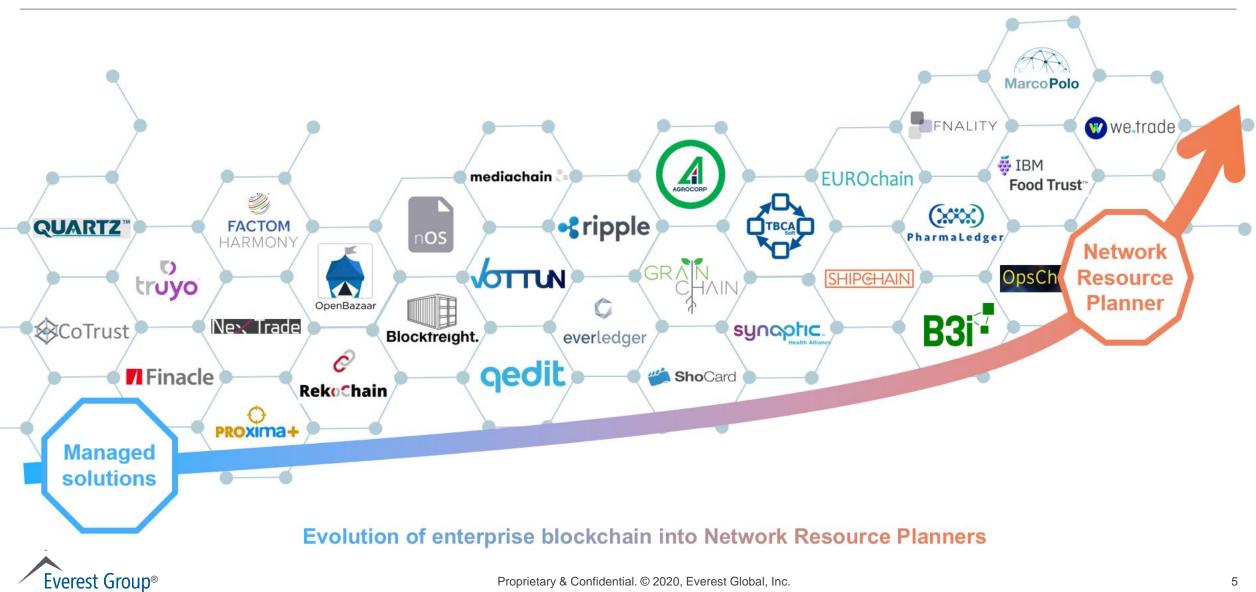
System integration	Solution orchestration	Network Resource Planner (NRP)
<ul> <li>Integrating blockchain with existing platforms</li> <li>Realize benefits of blockchain without extensive changes to architecture and applications</li> </ul>	<ul> <li>Solution built using blockchain as the underlying technology</li> <li>Use case-specific solutions that augment existing platforms</li> </ul>	<ul> <li>Blockchain completely replaces parts of enterprise platforms</li> <li>Industry-wide networks that are used by varied stakeholders</li> </ul>

Blockchain providers are evolving to deliver better digital experiences in a productized manner. It is becoming increasingly apparent that building a strong network-based operating model will drive business outcomes. As a consequence, commercial models are also evolving to become more flexible.

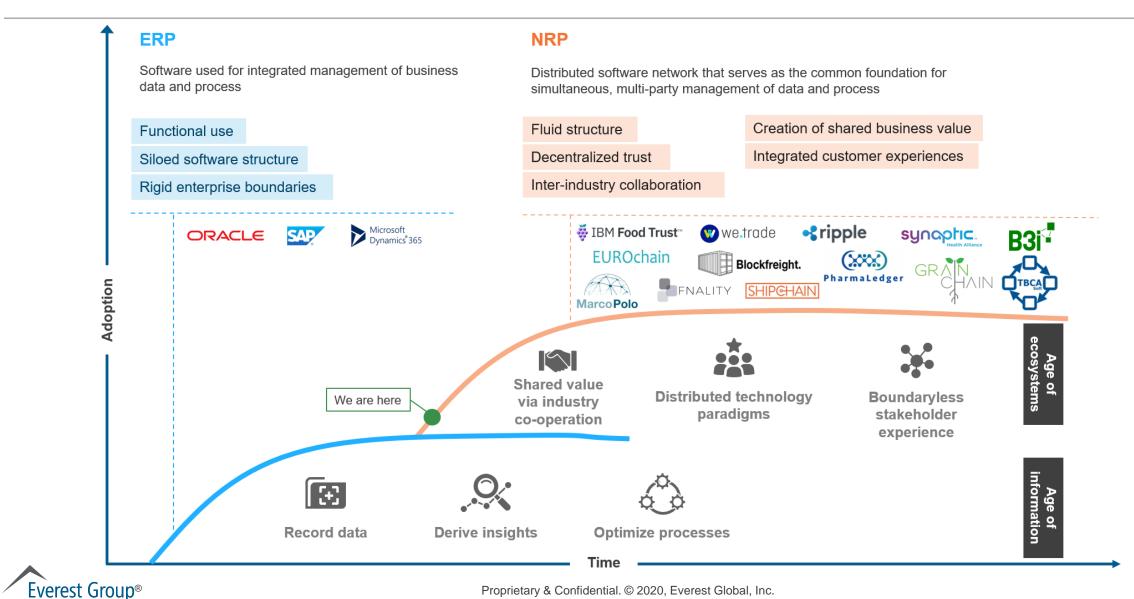
Value propositions			
Talent and engineering	Digital enablement/experience	New business/operating model	
Incremental innovation – blockchain integrating with existing systems	Modern ERP solutions powered by blockchain	Connecting multiple participants on a common system	
Evolving commercial models			
SI-funded POCs or innovation funds	Beginnings of product pivot	Extract value from business outcomes	
Time and material pricing	Member- /node -based pricing	Pay-as-you-go / transaction-based pricing	



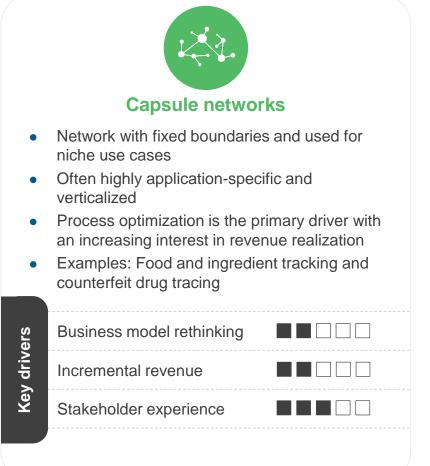
# Managed solutions wave is making way for a breed of narrow-use case NRP



# NRP can become the natural progression of ERP applications as the scope of current blockchain networks continue to grow



# Interconnected super networks will rise to enable better co-operation, transparency, and new revenue realization avenues







# Super networks

- Networks that cater to a broad set of industries and use cases
- Multiple networks available on the market that do similar things – can all be tethered to each other
- Such networks are extremely horizontal
- Examples: Public services and citizen services

Key drivers

Business model rethinking

Incremental revenue

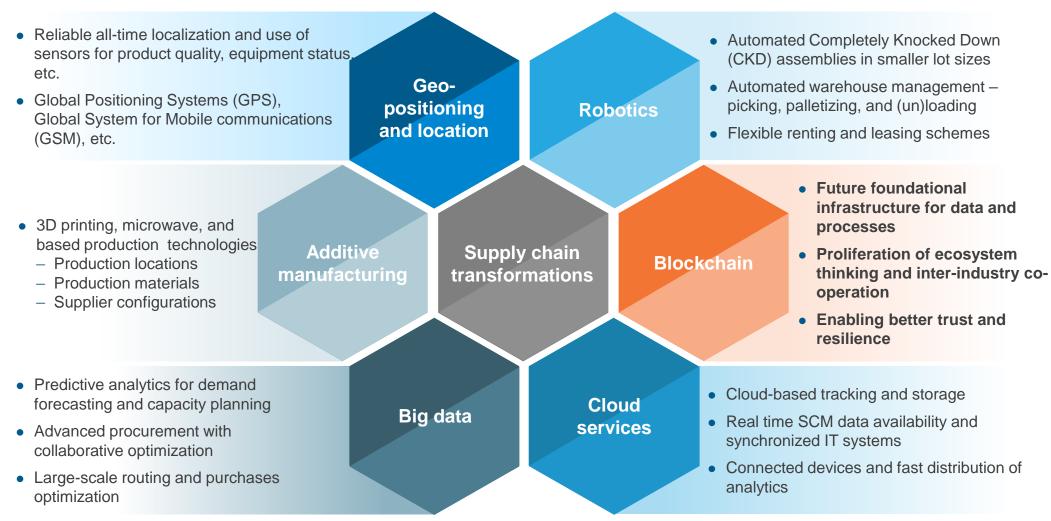
Stakeholder experience



Source: Everest Group (2020)



# Supply chain management has been influenced by a convergence of digital technologies; blockchain forms the foundation of this transformation





# Industry networks powered by blockchain (page 1 of 2)

High Moderate Limited

# **Agro-commodities network**

A track-and-trace network that informs users of the product's supply chain lineage, while also serving as a quality control mechanism against tampering, contamination, or counterfeiting.

Encompassed use cases	Quality compliance, origin tracing, and tamper detection	Notable networks	IBM Food Trust, Farmer Connect, GrainChain, and Agrocorp
Federal tailwinds	Regulatory barriers Standardizations	Competitive intensity	Financial distress due to pandemic Recessionary impact

# Inventory/component tracking network

A supply chain track-and-trace network that can be used to validate the quality and authenticity of a component or material. Primarily targeted at manufacturing and maintenance sectors, these networks allow for maintaining supplier performance, regulatory compliance, and customer satisfaction.

Encompassed use cases	Part assembly and inventory management		Notable networks	IBM Responsible Sourcing Blockchain Network, and SITA's MRO blockchain alliance	
Federal tailwinds	Regulatory barriers	Standardizations	Competitive intensity	Financial distress due to pandemic	Recessionary impact



# Industry networks powered by blockchain (page 2 of 2)

High Moderate Limited

#### Life sciences network

Life sciences networks majorly encompass supply chain tracking, clinical trials management, and health data management. These networks enable better consumer experience, safety, data privacy, and regulatory compliance.

Encompassed use cases	Clinical trials and data management, pharmacovigilance, and pharmaceuticals tracing		Notable networks	Pharmaledger and Pharma Util	ity Network (IBM and Meck)
Federal tailwinds	Regulatory barriers	Standardizations	Competitive intensity	Financial distress due to pandemic	Recessionary impact

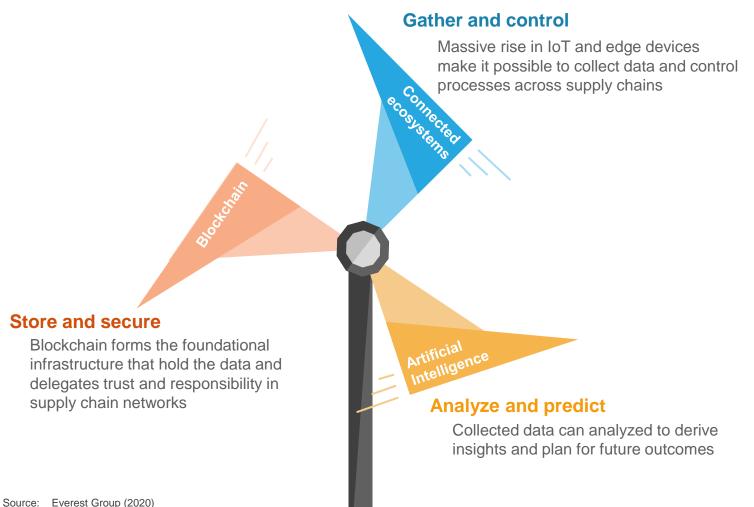
#### **Trade finance network**

Blockchain networks can help effectively execute trade transactions by making Letters of Credit more accessible. Such a network would improve stakeholder experience through faster settlements, robust pre-defined contracts, and better compliance for both the lender and the creditor.

Encompassed use cases	Cross-boarder payments, settlement, and credit data management		Notable networks	We Trade and TradeLens	
Federal tailwinds	Regulatory barriers	Standardizations	Competitive intensity	Financial distress due to pandemic	Recessionary impact



# Business benefits of supply chain management initiatives will be amplified by the synergistic application of other digital technologies



100% = 44

57% case studies using blockchain in conjunction with connected ecosystems

43% case studies using blockchain in conjunction with AI and analytics

Everest Group®

# Target business executives and improve the ease of adoption to accelerate movement of POC to production

Pilot to production conversion has remained low. This low penetration signals untapped demand and/or failed POCs



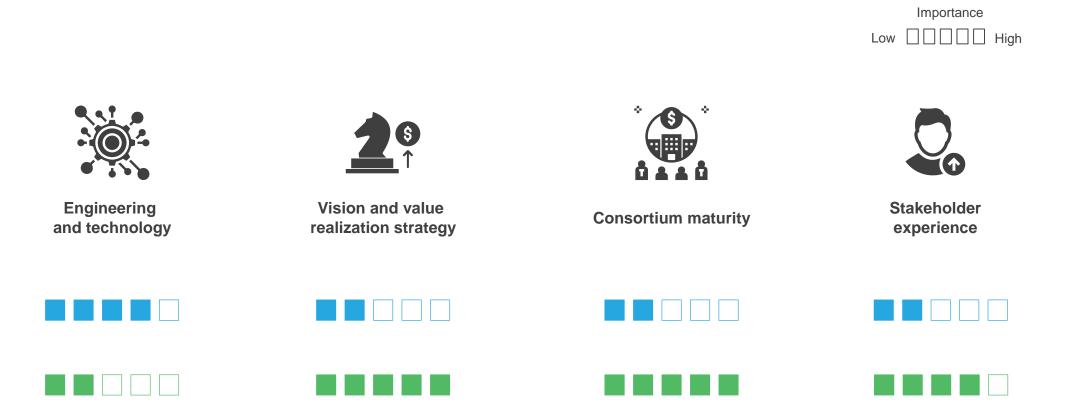
**Chasm of adoption** 

Lack of business buy-in

Limited ease of adoption



# Key learnings from 80+ enterprise conversations on their services vendor selection rationale point to differences in priorities for business and technology executives





Network

considerations

Technology executives

Business executives

# Business executives are looking at enterprise-grade technology that is easy to build and easy to buy – thus making scaling blockchain possible by making it invisible



# Easy to build

- Driven by increasing focus on customer experience
- Minimal effort to set up, customize, integrate, and deploy; and decrease in implementation costs
- Technology complexities abstracted to functional level for ease of use
- Encourages scaled adoption

We couldn't use open frameworks because privacy of data was key. Managed platform made it easier for use to deploy to a cloud of our choice"

CTO, large media and advertising services firm

Time-to-market and scaling were important to us.

We were looking for partners with co-development ability and flexibility in kinds of solutions that could be built"

Senior Director, communications platform and services firm



# Easy to buy

- Innovative pricing models that cater to swift scalability during peak demand
- Flexible pay-as-you-use models will become prevalent as solution providers look to scale adoption

Market hasn't found appropriate pricing. Currently in POCs, cost for network is only increasing slightly with each node addition. However, the cost difference will be substantial in the production phase"

Lead innovation manager, large Asian stock exchange

There are examples of use cases where DLT is adding costs instead of increasing productivity. Most productions are low volume cause of the nascency, but issue of cost and commercials will need addressing, going forward"

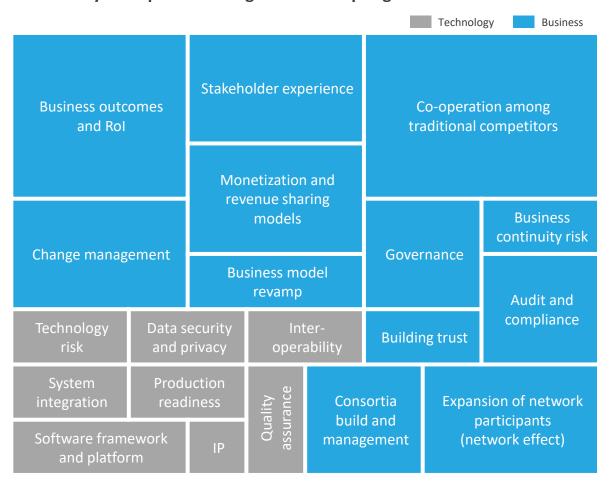
Managing Director, large post-trade services firm

Source: Everest Group (2020)



# Building a network is only a 10% technology problem; enterprises will encounter greater struggles in building and managing the business model for the network

### Scale of key enterprise challenges when adopting blockchain networks



### **Key business challenges**

- Creating cohesion among competitors in a collaborative environment to ensure consensus and fairness
- Governance, monetization, and optimization of ROI will be key to encouraging broader adoption
- Network lock-in risk may deter participants from fully committing to the network. Addressing these concerns through standardization will be key to creating viable networks
- Managing change brought on by blockchain adoption will be complicated by discord with existing processes and limited understanding of technology among talent/users
- Business continuity will be a key talking point in the aftermath of COVID-19, as enterprises ensure that committing to a network does not increase the risk of operations disruption

# A 4-step approach to mitigating these business challenges

- Crystalize foundational approaches and identify key stakeholders
- 2 Build minimum viable ecosystem to demonstrate potential
- 3 Define a governance structure and incentive model for network scaling
- ▲ Grow the ecosystem across industries by activating network effects







# Stay connected

#### Website

everestgrp.com

#### Social Media

- @EverestGroup
- in @Everest Group
- @Everest Group
- ▶ @Everest Group

# Blog

everestgrp.com/blog

### **Podcast** DigitalRealITy







# **Dallas (Headquarters)**

info@everestgrp.com +1-214-451-3000

### Bangalore

india@everestgrp.com +91-80-61463500

#### Delhi

india@everestgrp.com +91-124-496-1000

#### London

unitedkingdom@everestgrp.com +44-207-129-1318

# **New York**

info@everestgrp.com +1-646-805-4000

#### **Toronto**

canada@everestgrp.com +1-416-388-6765