



BLOCKCHAIN  
RESEARCH  
INSTITUTE

## **Research Project Publication List**

**June 2020**



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## Published Research

### Education

#### **Blockchain Revolution in Education and Lifelong Learning—Big Idea White Paper**

Don Tapscott—Co-Author, *Blockchain Revolution*; Co-Founder, Blockchain Research Institute

Alex Kaplan—Global Leader, Strategic Deals, Member Executive Team, IBM Watson Education

#### **Blockchain Revolution in Higher Education—Big Idea White Paper**

Don Tapscott—Co-Author, *Blockchain Revolution*; Co-Founder, Blockchain Research Institute

### Energy and Resources

#### **Agriculture on the Blockchain—Lighthouse Case Study**

Dr. Henry Kim—Associate Professor, Schulich School of Business; Co-Director of blockchain.lab  
Marek Laskowski—Co-Director of blockchain.lab; CTO, Novera Capital

#### **Blockchain and the Future of Battery Supply Chains—Lighthouse Case Study**

Anthony Williams—Co-Author (with Don Tapscott), *Wikinomics* and *Macrowikinomics*;  
Co-Founder DEEP Center

#### **Blockchain for Planetary Stewardship: Part 1/2—Big Idea White Paper**

Tom Baumann—Co-Founder, Collaborase and Xpansiv

#### **Blockchain for Planetary Stewardship: Part 2/2—Big Idea White Paper**

Tom Baumann—Co-Founder, Collaborase and Xpansiv

#### **Blockchain for Saving Our Seas—Lighthouse Case Study**

Hilary Carter—Managing Director, Blockchain Research Institute

#### **Diamonds on the Blockchain—Lighthouse Case Study**

Anthony Williams—Co-Author (with Don Tapscott), *Wikinomics* and *Macrowikinomics*;  
Co-Founder DEEP Center



**Distributed Power: How Blockchain Will Transform Energy Markets—Big Idea White Paper**

Lawrence Orsini—Founder, LO3 Energy; *Fortune 100* Utility Leader; Blockchain Innovator

**Oil, Natural Gas and Blockchain: How PermianChain Creates Value in Resource Finance and Sustainability—Lighthouse Case Study**

Mohamed El-Masri—Founder & CEO, PermianChain

**Transforming Plastic Pollution Using Blockchain—Lighthouse Case Study**

Michael Peshkam—Executive-in-Residence, INSEAD

## Financial Services

**Blockchain and the Disruption of the Life Insurance Industry—Big Idea White Paper**

Bob Tapscott—Information Technology Strategist; Author, Blockchain Research Institute

**Blockchain, Exchanges, and Regulation: Exploring the Impact of Decentralization on Asset Management—Big Idea White Paper**

Chase Smith—Blockchain Developer and Consultant, Blockchain at Berkeley

**Blockchain in Commercial Insurance—Big Idea White Paper**

Dr. Henry Kim—Associate Professor, Schulich School of Business; Co-Director of blockchain.lab

Muhammad Izhar Mehar—Analytics and Planning Manager, Loblaw Companies Limited

**Blockchain in Global Trade—Big Idea White Paper**

Soumak Chatterjee, Louisa Bai, Vikas Singla, Kshitish Balhotra, Neha Bhasin and Cara Englebrecht—Deloitte Inc.

**The Coming Cataclysm: Blockchain and Financial Services—Big Idea White Paper**

Alex Tapscott—Co-Founder, Blockchain Research Institute

**Cryptocurrency for Ohio Tax Payments: The Buckeye State’s Bold Initiative—Lighthouse Case Study**

Alastair Marke—Director-General, Blockchain Climate Institute

**Distributed and Collaborative Marketplaces: Serving the Unbanked—Big Idea White Paper**

Rachel W. Robinson—Deputy District Attorney, Denver District Attorney's Office; Blockchain and Smart Contracts Author

**Financial Derivatives with Blockchain and Smart Contracts—Lighthouse Case Study**

Massimo Morini—Head of Interest Rate and Credit Models, Banca IMI



**Financing Open Blockchain Ecosystems—Big Idea White Paper**

Fennie Wang, Primavera De Filippi, Alexis Collomb, and Klara Sok—Coalition of Automated Legal Applications (COALA)

**Managing Blockchain Transparency: Strategies for a Private/Open World—Big Idea White Paper**

Andreas Park—Associate Professor of Finance, University of Toronto; Fintech Researcher

**Mt. Pelerin Banking on the Blockchain: The Rise of Legally Compliant Protocols—Lighthouse Case Study**

Gabriel Jaccard—University of Geneva

**Nivaura’s Blockchain-Based Securities—Lighthouse Case Study**

Anthony Williams—Co-Author (with Don Tapscott), *Wikinomics* and *Macrowikinomics*;  
Co-Founder DEEP Center

**Reinventing International Clearing and Settlement—Big Idea White Paper**

Bob Tapscott—Information Technology Strategist; Author, Blockchain Research Institute

**The Token Economy: When Money Becomes Programmable—Big Idea White Paper**

Michael Casey—Co-Author, *The Age of Cryptocurrency* and *The Truth Machine*

**Utility Settlement Coin: The Need for Digital Currencies in the Banking Industry—Lighthouse Case Study**

Massimo Morini—Head of Interest Rate and Credit Models, Banca IMI

## Government

**Belt and Road Blockchain Consortium: Building Digital Trust for Cross-Border Trade—Lighthouse Case Study**

Vineet Narula—MIT Sloan Fellow; Ride-Sharing and Healthcare Strategy Leader  
Prema Shrikrishna—IT Officer, The World Bank; Advisor, MIT Media Lab

**Blockchain at Our Borders: US Customs and Border Protection Explores Blockchain—Lighthouse Case Study**

Alan Cohn—Partner and Co-Chair, Steptoe & Johnson LLP; President, ADC/Strategy.Works, LLC

**Blockchain for Smart City Infrastructure: The Case of Dubai—Lighthouse Case Study**

Alastair Marke—Director-General, Blockchain Climate Institute

**Business Licensing: Governance for Government Blockchains—Lighthouse Case Study**

Alan Wunsche—CEO, TokenFunder; Co-Founder and Chair, Blockchain Canada



**Can Blockchain Help with Gun Registries?—Lighthouse Case Study**

Rob Klein—Managing Partner, RSK Strategies Inc.

**Certifying Copyright in Canada on the Blockchain—Lighthouse Case Study**

Davide Cargnello—Vice President, Public Governance & Research, Institute on Governance  
Matt Jackson—Research Director, Institute on Governance

**Consolidating Multiple Ledgers with Blockchain—Lighthouse Case Study**

Anthony Williams—Co-Author (with Don Tapscott), *Wikinomics* and *Macrowikinomics*;  
Co-Founder DEEP Center

**Declaration of Interdependence—Big Idea White Paper**

Don Tapscott—Co-Author, *Blockchain Revolution*; Co-Founder, Blockchain Research Institute

**Halls of Fame and Blockchain: Votem’s Blockchain Electoral Solution—Lighthouse Case Study**

Bill Gillies—Author; Principal, Gillies Communications

**How Blockchain Can Help Regulators: A Case for Piloting Government Agency Projects—Big Idea White Paper**

Alan Majer—Founder, Good Robot

**Networked Hotbeds of Blockchain: Hubs for the Internet's Second Era—Big Idea White Paper**

Don Tapscott—Co-Author, *Blockchain Revolution*; Co-Founder, Blockchain Research Institute  
Hilary Carter—Managing Director, Blockchain Research Institute  
Jill Rundle—Contributing Writer and Editor, Blockchain Research Institute

**The Nine Disruptions—Big Idea White Paper**

Don Tapscott—Co-Author, *Blockchain Revolution*; Co-Founder, Blockchain Research Institute

**Rewriting Our Social Contract—Big Idea White Paper**

Don Tapscott—Co-Author, *Blockchain Revolution*; Co-Founder, Blockchain Research Institute

## Healthcare

**Accessing Patient Health Records via Blockchain: University Health Network—Lighthouse Case Study**

David K. Carter—Principal, DK Consultancy Inc.



## Blockchain Research Institute – Research Project Publication List

### **Blockchain Solutions in Pandemics—Special Report**

Don Tapscott—Co-Author, *Blockchain Revolution*; Co-Founder, Blockchain Research Institute  
Alex Tapscott—Co-Founder, Blockchain Research Institute

### **Medical and Biopharma Research: Managing Genetic and Health Data—Lighthouse Case Study**

Michael Scott—Blockchain Technology and Digital Economy Journalist

### **Reinventing Healthcare on the Blockchain—Big Idea White Paper**

Dr. Axel Schumacher—Co-Founder and CEO, Shivom; Blockchain Researcher

### **Reclaiming Medication on the Blockchain—Lighthouse Case Study**

Anna Hermansen—Digital Projects Manager, Blockchain Research Institute

## Law and Regulation

### **2018 Blockchain Regulation Roundtable—Special Report**

Don Tapscott—Co-Author, *Blockchain Revolution*; Co-Founder, Blockchain Research Institute

### **Governance of Blockchain Systems—Big Idea White Paper**

Primavera De Filippi and Greg McMullen—Coalition of Automated Legal Applications (COALA)

### **Patents and Blockchain Innovation: Strategic Approaches to Intellectual Property—Big Idea White Paper**

Thomas M. Isaacson—Shareholder, Polsinelli PC

### **Patents II: Issued Patents on Blockchain Innovation—Big Idea White Paper**

Thomas M. Isaacson—Shareholder, Polsinelli PC

### **Regulation: The Lion, the Unicorn, and the Crown—Big Idea White Paper**

Joel Telpner—Partner and Chair Fintech, Sullivan & Worcester LLP; ICO Panel Discussion Facilitator, WEF (Jan. 2018)

### **Regulatory Framework for Token Sales—Big Idea White Paper**

Coalition of Automated Legal Applications (COALA)

## Management

### **Blockchain and the Chief Human Resources Officer—Big Idea White Paper**

Andy Spence—HR and Workforce Advisor; Founder, Glass Bead Consulting



**Blockchain and the Chief Strategy Officer—Big Idea White Paper**

Kirsten Sandberg—Editor-in-Chief, Blockchain Research Institute  
Ricardo Viana Vargas—Executive Director, Brightline Initiative  
Edivandro Carlos Conforto—Head of Strategy Research, Brightline Initiative  
Tahirou Assane Oumaro—Director of Operations, Brightline Initiative

**Blockchain and the CMO: The Next Era of Marketing—Big Idea White Paper**

Jeremy Epstein—CEO, Never Stop Marketing

**Blockchain and the Global CIO—Big Idea White Paper**

Oliver Bussmann—CEO and Founder, Bussmann Advisory AG; Research Director, Blockchain Research Institute; Named “CTO of the Year” by *The Wall Street Journal* (WSJ)

**Blockchain and the Project Management Office—Big Idea White Paper**

Anthony Williams—Co-Author (with Don Tapscott), *Wikinomics* and *Macrowikinomics*;  
Co-Founder, DEEP Center  
Ricardo Viana Vargas—Executive Director, Brightline Initiative  
Edivandro Carlos Conforto—Head of Strategy Research, Brightline Initiative  
Tahirou Assane Oumaro—Director of Operations, Brightline Initiative

**Cryptoeconomics: How Blockchain Builds on the Principles of Economic Sciences—Big Idea White Paper**

Dr. Cathy Barrera and Dr. Stephanie Hurder—Prysm Group

**Enabling Enterprise Transformation with Blockchain—Big Idea White Paper**

Anthony Williams—Co-Author (with Don Tapscott), *Wikinomics* and *Macrowikinomics*;  
Co-Founder, DEEP Center  
Ricardo Viana Vargas—Executive Director, Brightline Initiative  
Edivandro Carlos Conforto—Head of Strategy Research, Brightline Initiative  
Tahirou Assane Oumaro—Director of Operations, Brightline Initiative

**Journey to Blockchain: A Non-Technologist’s Guide to the Internet of Value—Big Idea White Paper**

Hilary Carter—Managing Director, Blockchain Research Institute

## Manufacturing

**Additive Manufacturing and Blockchain: Moog Creating Efficient Global Supply Chains—Lighthouse Case Study**

Vineet Narula—MIT Sloan Fellow; Ride-Sharing and Healthcare Strategy Leader  
Prema Shrikrishna—IT Officer, The World Bank; Advisor, MIT Media Lab





**Blockchain, the Emerging Platform for Manufacturing 4.0—Big Idea White Paper**

Dr. Stefan Hopf—Strategy & Corporate Development Electronics and Automated Driving, BMW Group

**Foxconn 4.0: How Blockchain Can Handle the World’s Most Complicated Supply Chain—Lighthouse Case Study**

Nolan Bauerle—Director of Research, CoinDesk

**Introducing Asset Chains: The Cognitive, Friction-Free, and Blockchain-Enabled Future of Supply Chains—Big Idea White Paper**

Tom Serres—Co-Founder and Managing Partner, Animal Ventures; Host “Tech on Politics”  
Bettina Warburg—Co-Founder and Managing Partner, Animal Ventures; Executive Producer “Tech on Politics”

## Media and Telecom

**Distributed Connectivity: The Blockchain-Enabled Future of Telecommunications—Big Idea White Paper**

Christian Keil—Founder and CEO, d.rect; Member, Blockchain at Berkeley

**How Blockchain Is Transforming the Creative Industries—Big Idea White Paper**

Marcus O’Dair—Associate Dean, Knowledge Exchange and Enterprise, University of the Arts London

**KODAKOne: Changing the Still Image Marketplace on the Blockchain—Lighthouse Case Study**

Rob Klein—Managing Partner, RSK Strategies Inc.

**Social Media on the Blockchain: The AKASHA Project—Lighthouse Case Study**

Hilary Carter—Managing Director, Blockchain Research Institute

**Using Blockchain to Power the 5G Bypass: The Disruptive Potential of Mesh Networks—Lighthouse Case Study**

Charlie Morris & Dieter Fishbein—CMCC Global

## Real Estate

**India’s Land Registry on the Blockchain—Lighthouse Case Study**

Anthony Williams—Co-Author (with Don Tapscott), *Wikinomics* and *Macrowikinomics*;  
Co-Founder, DEEP Center



## Retail

**Food Traceability on Blockchain: Walmart’s Pilots with IBM—[Lighthouse Case Study](#)**

Reshma Kamath—Juris Doctor, Northwestern Pritzker School of Law

**The Future of Retail Payments: How Merchants Are Adapting to Crypto—[Lighthouse Case Study](#)**

Abhishek Punia—Investor, Draper Associates; Blockchain Advisor, OPEN Platform

## Technology

**Blockchain Identity Services—[Big Idea White Paper](#)**

Greg McMullen, Primavera De Filippi, and Constance Choi—Coalition of Automated Legal Applications (COALA)

**Building a Framework for Blockchain Adoption: What CEOs Should Know—[Big Idea White Paper](#)**

Irving Wladawsky-Berger—Research Affiliate, MIT Sloan School of Management; Guest Columnist, *CIO Journal*, *WSJ*; Adjunct Professor, Imperial College Business School

**The Convergence of Big Data and Blockchain—[Big Idea White Paper](#)**

Mark van Rijmenam—Founder, Dataflog; Author, Researcher, and Speaker

**Distributed Artificial Intelligence: Blockchain as an Operating Platform for AI—[Big Idea White Paper](#)**

Don Tapscott—Co-Author, *Blockchain Revolution*; Co-Founder, Blockchain Research Institute  
Anjan Vinod—Consultant, Blockchain at Berkeley; Strategy & Operations at OPEN Platform

**Industry Ecosystems and Blockchain—[Big Idea White Paper](#)**

Anthony Williams—Co-Author (with Don Tapscott), *Wikinomics* and *Macrowikinomics*;  
Co-Founder DEEP Center

**The Ledger of Every Thing: Blockchain Technology and the IoT—[Big Idea White Paper](#)**

Dominique Guinard—Co-Founder and CTO, EVERYTHING; Founder, Web of Things

**Non-Fungible Tokens—[Big Idea White Paper](#)**

Alan Majer—Founder, Good Robot

**Patterns from the Past: How and Why We (Dis)trust Technology—[Big Idea White Paper](#)**

Christian Keil—Founder and CEO, d.rect; Member, Blockchain at Berkeley



**Quantum-Proofing the Blockchain—Big Idea White Paper**

Michele Mosca—Co-Founder, President, and CEO, evolution Q Inc; Co-Founder and Professor, Institute for Quantum Computing, University of Waterloo  
Vlad Gheorghiu—Postdoctoral fellow, Institute for Quantum Computing, University of Waterloo  
Sergey Gorbunov—Assistant Professor, Department of Computer Science, University of Waterloo  
Bill Munson—Director of Research and Policy Analysis, Quantum-Safe Canada, University of Waterloo

**Saving the Web: How Blockchain Can Secure the Future of the Digital Age—Big Idea White Paper**

Don Tapscott—Co-Author, *Blockchain Revolution*; Co-Founder, Blockchain Research Institute  
Christian Keil—Founder and CEO, d.rect; Member, Blockchain at Berkeley

**Slock.it: Enabling IoT and the Universal Sharing Network—Lighthouse Case Study**

Alan Majer—Founder, Good Robot

**Standardized and Decentralized: Rethinking the Blockchain Stack—Big Idea White Paper**

Christian Keil—Founder and CEO, d.rect; Member, Blockchain at Berkeley

**The Token Taxonomy: The Need for Open Source Standards around Digital Assets—Big Idea White Paper**

Don Tapscott—Co-Author, *Blockchain Revolution*; Co-Founder, Blockchain Research Institute

**Trust(less): How Blockchain Will Help Us Navigate the Post-Trust World—Big Idea White Paper**

Christian Keil—Founder and CEO, d.rect; Member, Blockchain at Berkeley

**Winning Strategies for Smart Contracts—Big Idea White Paper**

Nick Szabo—Blockchain, Cryptocurrency, and Smart Contracts Pioneer

## Transportation

**Autonomous Vehicles and Blockchain—Big Idea White Paper**

Tommy Gardner, PhD, PE—CTO, HP Federal; Chair, ASME Industry Advisory Board  
David Mirynych—Head of Research and Partner, MLG Blockchain Capital

**Blockchain Takes Off: How Distributed Ledger Technology Will Transform Airlines—Big Idea White Paper**

Chami Akmeemana—CEO Blockscale Solutions Inc; Advisor, Blockchain Learning Group Inc.



**The Future of Travel: How Winding Tree Is Transforming Its Business—Lighthouse Case Study**

Mayank Singhal—Fintech & Blockchain co-author at WEF; MBA Candidate at London Business School

**Ride-Sharing on the Blockchain: Eva Leverages Cooperative Model—Lighthouse Case Study**

Vineet Narula—MIT Sloan Fellow; Ride-Sharing and Healthcare Strategy Leader

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## Upcoming Research in 2020

\* Please note, all publication dates are estimates only and are subject to change without notice.  
Contact Hilary Carter, Managing Director, at [Hilary@tapscott.com](mailto:Hilary@tapscott.com) with any questions.

### Construction

**Constructing Smart Buildings on the Blockchain: Briq**

TBA

### Energy and Resources

**Blockchain and the Gold Industry**

Chloe Desmonet—Head of Sales and Marketing, MKS

**Gold-Backed Cryptocurrency (or other topic)**

Chloe Desmonet—Head of Sales and Marketing, MKS

### Financial Services

**Bitcoin Blockchain for the Enterprise**

René Vergé, Macieg Cepnik, Gustavo Flores Echaiz, Tristan Borges Solari, Veriphi Inc.

**Blockchain: A Property Insurance Use-Case**

Bob Tapscott—Information Technology Strategist; Author, Blockchain Research Institute



**Stablecoins: Bridging the Fiat/Crypto Worlds**

Joel Telpner—Partner and Chair Fintech, Sullivan & Worcester LLP; ICO Panel Discussion Facilitator, WEF (Jan. 2018)

**State-Backed Digital Currencies**

Alex Tapscott—Co-Founder, Blockchain Research Institute

**Transforming Commercial Banking**

Deepa Chatterjee—Researcher, Blockchain Research Institute  
Jennifer Han—Public Finance Investment Banking Analyst, Piper Jaffray

## Government

**Reinventing Government: Reducing Costs, Improving Services, Stewarding Assets**

Don Tapscott—Co-Author, *Blockchain Revolution*; Co-Founder, Blockchain Research Institute  
Tony Scott—Senior Data Privacy and Cybersecurity Advisor, Squire Patton Boggs; former Federal CIO, United States Federal Government

## Law and Regulation

**ALASTRIA: A National, Public, Permissioned Blockchain**

Alastria Research Consortium

**Listing a Blockchain Company**

Usman Sheikh—Partner and National Lead of Blockchain/Smart Contracts: Securities, Compliance and Investigations, Gowling WLG

## Management

**Blockchain and the CFO: Triple Entry Accounting and Corporate Finances**

Iliana Oris-Valiente—Managing Director, Accenture; Founder, ColliderX

**Blockchain and the CLO: Chief Legal Officer and Chief Legal Counsel**

Usman Sheikh—Partner and National Lead of Blockchain/Smart Contracts: Securities, Compliance and Investigations, Gowling WLG



## Technology

### **Auditing Crypto Assets**

Louis Roy—President, Catallaxy; Audit Partner, Raymond Chabot Grant Thornton

### **Blockchain: An Accountability Framework**

Soumak Chatterjee, Bruce Chin, Louisa Bai, Janine Moir, Louisa Reyes, and Neha Bhasin—  
Deloitte Inc.

### **Can Hashgraphs Take On Blockchain? Exploring an Alternative Transaction Settlement Protocol**

TBD

### **Hybrid Blockchains**

Dr. Henry Kim—Associate Professor, Schulich School of Business; Co-Director of blockchain.lab

### **Interoperable Blockchains: The Next Frontier**

Marek Laskowski—Co-Director of blockchain.lab; CTO, Novera Capital

### **The Universal Wallet**

Don Tapscott—Co-Author, *Blockchain Revolution*; Co-Founder, Blockchain Research Institute