



BLOCKCHAIN
RESEARCH
INSTITUTE

Research Project Publication List

February 2021



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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

Bitcoin Blockchain for the Enterprise—Big Idea White Paper

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

Blockchain and the Digital Transformation of Property Insurance—Big Idea White Paper

Bob Tapscott—Information Technology Strategist; Author, Blockchain Research Institute
John Carpenter – Co-Founder, Global Blockchain Summit

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)

Introduction to Stablecoins—Big Idea White Paper

Alyze Sam—Women in Blockchain International
Koosha Azim—Africa Blockchain University
Adam Alonzi—Global Art Gallery

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 Cagnello—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

New Directions for Government in the Second Era of the Digital Age—Special Report

Don Tapscott and Anthony D. Williams, Co-Authors, Wikinomics
Kirsten Sandberg, Editor-in-Chief, Blockchain Research Institute
Foreword by Tony Scott, former Federal CIO of the United States



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 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 CFO: Triple Entry Accounting and Corporate Finances—Big Idea White Paper

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

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—Prism 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)

Blockchain Interoperability—Big Idea White Paper

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

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

The Universal Wallet—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 Miryneck—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



Upcoming Research in 2021

* Please note, all publication dates are estimates only and are subject to change without notice.
Contact Kirsten Sandberg, Director of Research, at Kirsten@tapscott.com with any questions.

Financial Services

Stablecoins: Bridging the Fiat/Crypto Worlds

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

Construction

Constructing Smart Buildings on the Blockchain/Blockchain and the Built World

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

Law and Regulation

ALASTRIA: A National, Public, Permissioned Blockchain

Alastria Research Consortium

Management

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 for the Enterprise: Cosmos & Polkadot

Kevin Rooke