



BLOCKCHAIN
RESEARCH
INSTITUTE

Research Project Publication List

August 2019



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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 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

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

Transforming Plastic Pollution Using Blockchain—Lighthouse Case Study

Michael Peshkam, Executive-in-Residence, INSEAD



Financial Services

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 Global Trade—Big Idea White Paper

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

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

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

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

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

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

Law and Regulation

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

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”

Marketing

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

Hilary Carter—Managing Director, Blockchain Research Institute

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.

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

The Ledger of Every Thing: Blockchain Technology and the IoT—Big Idea White Paper

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

Non-Fungible Tokens: Transforming the Worlds of Assets, Gaming, and Collectibles—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 Mosca—Assistant Professor, Department of Computer Science, University of Waterloo
Bill Muson—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

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 Mirynech—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 2019

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

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

How Blockchain Enables Ethically-Sourced Cobalt

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

Financial Services

Blockchain: A Life Insurance Use-Case

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

The Blockchain Actuary: New Models of Commercial Insurance

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

Financial Services: A New Portfolio Approach to New Asset Classes

Alex Tapscott—Co-Founder, Blockchain Research Institute

Blockchain: A Property Insurance Use-Case

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

Cryptoeconomics: How Blockchain Builds on the Principles of Economic Sciences

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



Derivatives on the Blockchain: A Structured Products Case

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

A New Kind of Bank: Mt. Pelerin Aims to Be the World’s First Full Reserve Bank on a Blockchain

TBD

Securities on the Blockchain: How Compliant Security Tokens Are Transforming UK’s Financial Services Sector

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

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

TBD

Transforming Commercial Banking

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

Blockchain and Firearms: A New Model for Gun Control

TBD

Healthcare

Medicinal Cannabis: Using Blockchain to Certify Plant-Based Pharmaceuticals

TBD

Patient Data on the Blockchain: University Health Network

TBD



Law and Regulation

ALASTRIA: Industry Consortia and Cross-Border Blockchain Ecosystems

TBD

Listing a Blockchain Company

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

Mattereum Creates a Framework for Enforceable Smart Contracts for Real-World Assets: The Collectibles Example

TBD

The Trust Trilogy, Chapter Two

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

The Trust Trilogy, Chapter Three

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

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 Smart Contracts: Security, Validation and Verification

TBD

Journey to Blockchain: A Non-Technologist’s Guide

Hilary Carter—Managing Director, Blockchain Research Institute

Blockchain and AI-Enabled Smart Contract Tools, Tokens, and Incentive Structures

TBD



Building Effective Blockchain Industry Ecosystems: Challenges and Opportunities in Governance

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

Interoperable Blockchains: The Next Frontier

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

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

TBD

Constructing Smart Buildings on the Blockchain: Brickschain

TBD

Investigating the Cost of Consensus: Energy Consumption Myths and Realities

TBD

Sweetbridge: A New Trade Finance and Supply Chain Infrastructure

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

Scaling a Blockchain Solution: From POC to Commercialization

TBD

The Universal Wallet

TBD