



BLOCKCHAIN
RESEARCH
INSTITUTE

Research Project Publication List

March 2019



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Published Research

Education

Blockchain, Student Identities, and the Next Era of 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, L03 Energy; *Fortune 100* Utility Leader; Blockchain Innovator



Financial Services

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

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—Lighthouse Case Study

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

Government

Blockchain at Our Borders: Blockchain for Customs and Border Patrol—Lighthouse Case Study

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

Business Licensing: Governance for Government Blockchains—Lighthouse Case Study

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

CIPO: A Governance Model for Copyright Registration on the Blockchain—Lighthouse Case Study



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

Matt Jackson—Research Director, Institute on Governance

Consolidating Government Ledgers on 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

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

Alastair Marke—Director-General, Blockchain Climate 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: Regulating Canada’s Food on the Blockchain—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 Decentralized Networks—Big Idea White Paper

Coalition of Automated Legal Applications (COALA)

Patents and the Blockchain: Opportunities, Limitations and Pitfalls—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)

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: Handling the World’s Most Complicated Supply Chain—Lighthouse Case Study

Nolan Bauerle—Director of Research, CoinDesk

Introducing Asset Chains: Blockchain and the 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

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

Jeremy Epstein—CEO, Never Stop Marketing

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

Hilary Carter—Managing Director, Blockchain Research Institute

Media and Telecom

Distributed Connectivity: Blockchain & the Telecom Industry—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

Real Estate

Blockchain and Real Estate: An Indian State Uses Blockchain in Land Registry—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 and 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

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

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

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)

Can Blockchain Save the Web?—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

The Convergence of Big Data and Blockchain—Big Idea White Paper

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

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

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

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



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

Belt and Road Blockchain Consortium: Trade Finance from Hong Kong to Rotterdam—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 Takes Off: Distributed Ledgers Are Transforming 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

TBD

Waste Management on the Blockchain: A Future Without Beverage Packaging Waste

TBD

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

Blockchain and Asset Management: A New Portfolio Approach to New Asset Classes

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



Blockchain: A Property Insurance Use-Case

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

Derivatives on the Blockchain: A Structured Products Case

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

Digital Exchanges, Capital Markets and the Blockchain

Chase Smith—Blockchain Developer and Consultant, Blockchain at Berkeley

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

TBD

OHIOCrypto.com: Ohio Enables Businesses to Pay Taxes with Cryptocurrency

Alastair Marke—Director-General, Blockchain Climate Institute

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

TBD

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

Trade Finance and the Blockchain

Soumak Chatterjee—Partner, Leader of Payments & Blockchain, Deloitte Canada

Transforming Commercial Banking

Jennifer Han—Public Finance Investment Banking Analyst, Piper Jaffra

Gaming

Blockchain and Lotteries: A New Model for Online Gaming

TBD



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

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: The Stradivarius Example

TBD

Patents II: A New Enterprise Landscape

Thomas M. Isaacson—Shareholder, Polsinelli PC

The Trust Trilogy, Chapter One: Trusting Bitcoin, Blockchain, and Other New Technologies

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

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

Blockchain and Project Management

Ricardo Vargas—Executive Director, Brightline Initiative

Edivandro Conforto—Head of Strategy Research, Brightline Initiative

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

Blockchain and Strategy Execution

Ricardo Vargas—Executive Director, Brightline Initiative

Edivandro Conforto—Head of Strategy Research, Brightline Initiative

Kirsten Sandberg—Editor-in-Chief, Blockchain Research Institute

Media and Telecom

KODAKone: Changing the Still Image Marketplace on the Blockchain

Rob Klein—Managing Partner, RSK Strategies Inc.

Revolutionizing Telecom with Blockchain: The 5G Bypass

Charlie Morris—Co-Founder, CMCC Global

Technology

Auditing Smart Contracts: Security, Validation and Verification

TBD

Blockchain: A Primer for Beginners



Hilary Carter—Managing Director, Blockchain Research Institute

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

TBD

Blockchain and Biosecurity

TBD

Building Effective Blockchain Industry Ecosystems: Challenges and Opportunities in Governance

TBD

Building Interoperable Blockchain Ecosystems

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

Non-Fungible Tokens: Transforming the Worlds of Fine Art, Gaming and Collectibles

Alan Majer—Founder, Good Robot

Rethinking Identity for the Blockchain World

Coalition of Automated Legal Applications (COALA)

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



Transportation

Transportation and Autonomous Vehicles on the Blockchain

Tommy Gardner, PhD, PE—CTO, HP Federal; Chair, ASME Industry Advisory Board

David Mirynych—Head of Research and Partner, MLG Blockchain Capital