



BLOCKCHAIN  
RESEARCH  
INSTITUTE

# Research Project Publication List

February 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, LO3 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

**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 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, EVRYTHNG; 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





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## 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](mailto: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

**CIPO: A Governance Model for Copyright Registration on the Blockchain**

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



**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**

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

Anjan Vinod—Consultant, Blockchain at Berkeley; Strategy & Operations at OPEN Platform



**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 Miryneck—Head of Research and Partner, MLG Blockchain Capital