SOME BACKGROUND
REFLECTING ON THE LAST 25 YEARS OF THE DIGITAL ECONOMY
TECHNOLOGIES
OF THE SECOND ERA OF THE DIGITAL AGE

Machine Learning
Animating the Physical World
Autonomous Vehicles
Distributed Energy
Technology in Our Bodies
Virtual Reality
Drones & Robotics
THE INTERNET OF INFORMATION

- Web Sites
- Photos
- Word Docs
- PDFs
- PPT Slides
- Voice
THE INTERNET OF VALUE

- Identity
- Money
- Intellectual Property
- Assets
- Contracts
- Other Financial Assets
- Art
- Energy
- Votes
- Social Capital
- Attestations
- Reputation
- Music
- Film
- Visual Art
- Carbon Credits
- Stock
- Bonds
- Swaps
- Futures
- IOUs
- Receivables
- Loyalty Points
- Coupons
- Deeds
- Licences
- Lottery Tickets
- Premiums
- Other Financial Assets
THE MIDDLEMAN
WEB3, The Internet of Value
HYPERLEDGER
SMART CONTRACTS

PARTY A

<CONTRACT>

PARTY B

Signature 1: 
Signature 2: 

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IMPORTANT NEW PLATFORMS

- Cosmos
- Solana
- Polygon
- Polkadot
- Cardano
- Cosmos
THE TRIVERGENCE

Artificial Intelligence

Internet of Things

Blockchain
UNDERSTANDING THE INTERNET OF VALUE
INDUSTRY TRANSFORMATIONS

1. Financial Services
2. Supply Chains
3. Healthcare
4. Energy & Climate
5. Property Rights
6. Identity
7. Government

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1. FINANCIAL SERVICES

DIGITAL CURRENCIES

Self-organizing

Corporate

Central Bank
RETHINKING THE FINANCIAL SERVICES INDUSTRY
1. Storing value
2. Moving value
3. Lending value
4. Funding and investing
5. Exchanging value
6. Insuring value and managing risk
7. Analyzing value
8. Accounting for and auditing value
9. Authenticating identity
THE TOKENIZATION OF ASSETS

1. Cryptocurrencies (Digital Money)
2. Protocol Tokens
3. Governance Tokens
4. Non-Fungible Tokens (NFTs)
5. Exchange Tokens
6. Securities Tokens
7. Stablecoins
8. Natural Asset Tokens
9. Central Bank Digital Currencies (CBDCs)
THE GROWTH OF DEFI

Source: defillama.com/home
2. SUPPLY CHAINS
2. Supply Chains

Morpheus Network
morpheus.network

IBM Food Trust
ibm.com/blockchain/solutions/food-trust

Fishcoin Project
fishcoin.co
3. HEALTH CARE

Manufacturers

Wholesalers

Pharmacies

Medical Facilities

Insurance Companies

"Inspecting a Drug Manufacturer (FDA034)" by The U.S. Food and Drug Administration, used under CC0 license via Wikimedia Commons

"Mediq Sverige Kungsbacka warehouse" by Gwan Kho, used under CC-BY-SA license via Flickr Commons

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"Clinic 1807543" by Sasin Tipchai, used under Freepik license (CC-BY)

"Top View Health Insurance" by osaba, used under Freepik license (CC-BY)
3. HEALTH CARE

UNIVERSITY HEALTH NETWORK
uhn.ca

BURSTIQ LIFEGRAF
www.burstiq.com

MEDICALCHAIN
medicalchain.com
4. ENERGY & CLIMATE
4. ENERGY & CLIMATE

WIEN ENERGIE
wienenergie.at

WE POWER
wepower.com

SUN EXCHANGE
thesunexchange.com
CARBON OFFSET TOKENS

- Universal Carbon Token (UPC02)
- Terrapass Coin (TPSC)
- Moss Carbon Token (MCO2)
5. PROPERTY RIGHTS

TECH
MAHINDRA
BCRMS
techmahindra.com

RAIR
rair.tech

HARYANA
LAND
REGISTRY
6. IDENTITY

OLD: DIGITAL FEUDALISM

- GOVERNMENT
- BANKING
- RETAIL
- HEALTH
- EDUCATION
- SOCIAL
- LOCATION
- OTHER

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OUR DIGITAL IDENTITIES: WHO OWNS OUR DATA?

THE "DIGITAL CONGLOMERATES"*
NEW: CITIZEN-OWNED DYNAMIC IDENTITY
7. GOVERNMENT

- Better, cheaper government (finally)
- Strengthening our democratic institutions
- Reinventing central banks
TRANSFORMING GOVERNMENT OPERATIONS
A CRISIS OF **LEGITIMACY**
A CRISIS OF LEGITIMACY

Legitimacy is: The capacity of a political system to engender and maintain the belief that existing political institutions are the most appropriate and proper ones for the society.

Seymour Martin Lipset
A SECOND WAVE OF DEMOCRACY

If the first wave of democracy established elected institutions of governance, but with opacity, a weak public mandate, an inert citizenry and representatives beholden to powerful interests…

…the second wave will be characterized by transparency, a culture of public deliberation built on active citizenship and representatives accountable to citizens.
BLOCKCHAIN AND DEMOCRACY

1. E-Voting
2. Transparency
3. Accountability to citizens through smart contracts
4. New platforms for citizen engagement
PLATFORM REVOLUTION

How BLOCKCHAIN TECHNOLOGY Is Transforming the INTERNET OF VALUE

Edited with a foreword by DON TAPSCOTT
Co-Founder, Blockchain Research Institute
CHALLENGES

in Realizing the Potential of the Second Era

1. THE SECOND ERA ENABLES PROFOUND CHANGES
2. TECHNOLOGY: SCALABILITY AND INTEROPERABILITY
3. BLOCKCHAIN HAS AN IMAGE PROBLEM
4. THE CHALLENGE OF INDUSTRY-WIDE GOVERNANCE
GLOBAL CRYPTOCURRENCY ADOPTION

ECONOMIC IMPLICATIONS FOR CANADA
CREATING SILICON VALLEY FOR THE SECOND ERA:
ECONOMIC IMPLICATIONS FOR CANADA
BUILDING AN INNOVATION ECONOMY

THIS IS NOT JUST A SECTOR. IT’S THE FOUNDATION OF ALL SECTORS.
LEADERSHIP FOR TRANSFORMATION

Paradigm shifts involve **dislocation, conflict, confusion, uncertainty**.

New paradigms are nearly always received with **coolness, even mockery** or hostility. Those with vested interests **fight the change**. The shift demands such a **different view** of things that **established leaders are often last to be won over, if at all**.
EXTENDING THE REACH OF RESEARCH

Shipping May 30: Digital Asset Revolution
Now available for orders: Amazon.ca/Digital-Asset-Revolution
Our New Book

Shipping: 30 May 2022
Publication date: 6 July 2022
Now available for orders on Amazon:
CA: Amazon.ca/Digital-Asset-Revolution
US: Amazon.com/Digital-Asset-Revolution-Blockchain
Blockchain’s Potential

Actual Deployment
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"Sky 49520" by Ashish Bogawat; used under CC0 license via Pixabay
"Lightning Bolt 768801" by Free-Photos; used under CC0 license via Pixabay
REALIZING THE NEW PROMISE OF THE DIGITAL ECONOMY

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