



# THE BLOCKCHAIN UNIVERSITY?

A Discussion of Woolf University's Proposal to  
Build the World's First Blockchain University

**BLENDED LEARNING  
GONE TO FAR?**

**OR**

**INGENIOUS DIGITAL  
EDUCATION MACHINE**



**ORU** | ORAL  
ROBERTS  
UNIVERSITY

Michael L Mathews, VP of  
Technology and Innovation, ORU

*Sam Alford*  
Presiding Officer of the Senate

OFFICE OF THE GOVERNOR

Received by the Office of the Governor this 17<sup>th</sup>

day of April, 20 19, at 4:17 o'clock p. M.

By: Sumulung

Approved by the Governor of the State of Oklahoma this 22

day of April, 20 19, at 8:01 o'clock p. M.

*Kan St*  
Governor of the State of Oklahoma

OFFICE OF THE SECRETARY OF STATE

Received by the Office of the Secretary of State this 22<sup>nd</sup>

day of April, 20 19, at 2:56 o'clock p. M.

By: Michael Byers

# Trusted Global Commerce

# Oklahoma Virtually Everywhere Act



**MICHAEL L. MATHEWS**  
VP OF TECHNOLOGY  
INNOVATION



# Blockchain defined in one paragraph

“Blockchain should be viewed as the next generation of the Internet that designs trust, personalization, security, and integration to all worldwide data. It has the sophistication to blend the best of Artificial Intelligence, Mixed Realities, Machine Learning, Deep Learning, fluidity, and the Internet of things for full personification of intelligence.” ~Michael L. Mathews



# Time, Invention, and Innovation



The guy who invented the first wheel was an idiot.  
The guy who invented the other three, he was a  
genius.

(Sid Caesar)

izquotes.com

# Blockchain defined in one paragraph

“Blockchain is a GeoVision for what the Internet was intended to be – the Internet of freedom, the internet of dignity, the Internet of light, the Internet of people – not the Internet of Things.”

*~ Michael L. Mathews, United Nations, April 2016*

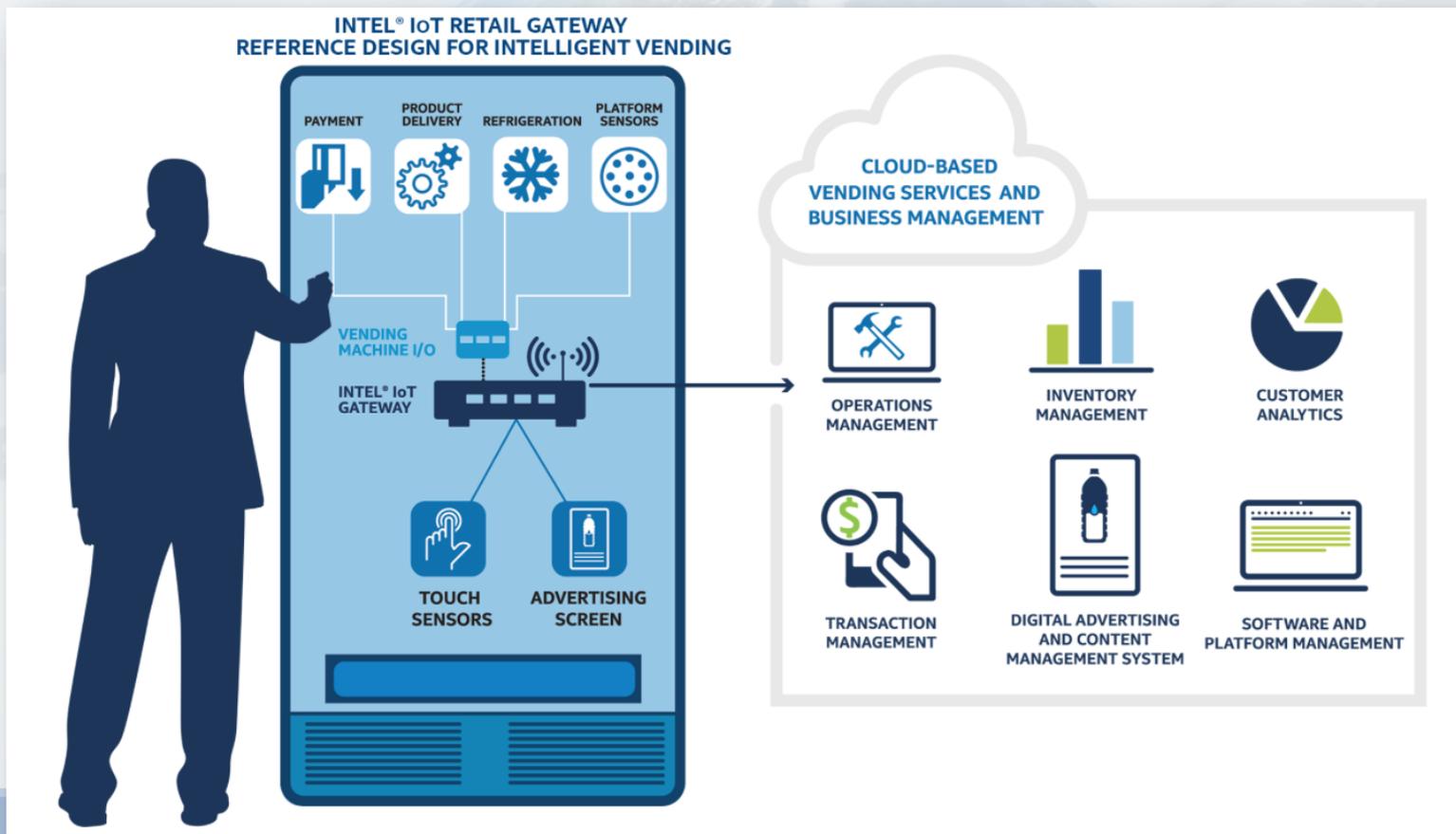
“No army can stop an idea that has come its time.”

*~Victor Hugo*



# Blockchain is like a digital vending machine

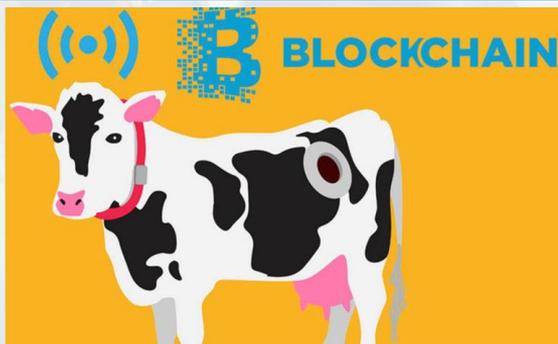
That allows you to buy all cloud-based services on your phone without a middle-person



# It's about the 'Chain'



FedEx's Smith Sees Blockchain as 'Next Frontier' for Logistics



Blockchain for better food systems



Coca-Cola, U.S. State Dept to use Blockchain to combat forced labor



Bermuda's deeds registry to go on blockchain

## UNITEDHEALTH GROUP\*

Humana, MultiPlan, Optum, Quest Diagnostics and United Healthcare Launch Blockchain-Driven Effort to Tackle Care Provider Data Issues

## Sony Partners With IBM to Use Blockchain in Student Data Management



# The chain has become personal

Home → [Blockchain news](#) → Walmart Makes Blockchain a 'Business Requirement' for Produce Suppliers

## Walmart Makes Blockchain a 'Business Requirement' for Produce Suppliers

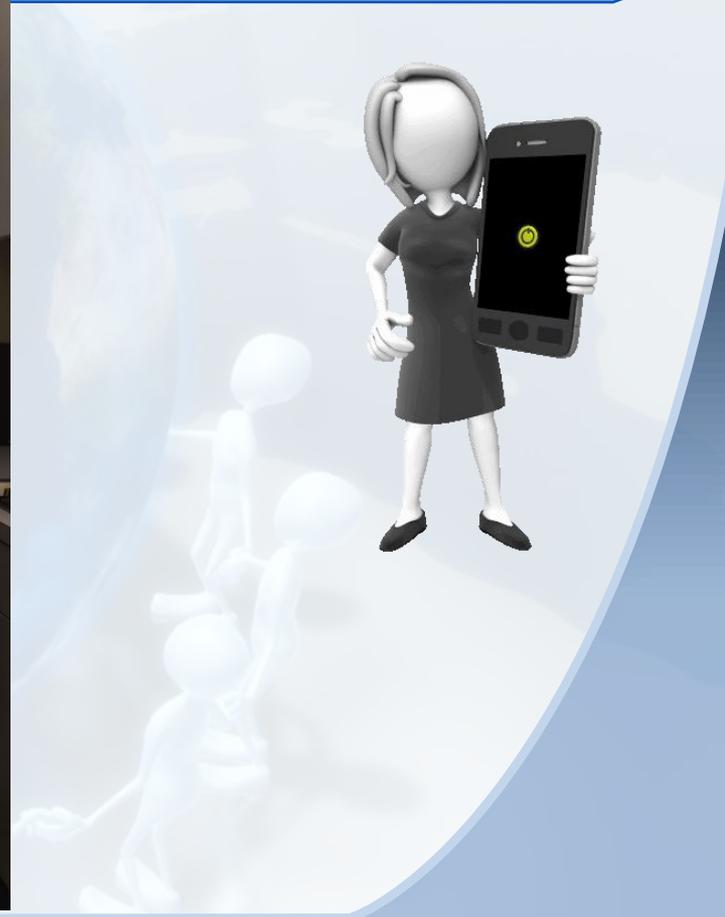


According to a new [press release](#), the world's largest retailer Walmart and subsidiary Sam's Club – a membership-only warehouse club - will be forcing suppliers of green leafy vegetables like lettuce and spinach to use blockchain for better transparency and traceability.

# What is that idea that has come its time?



A vertical advertisement for a service. The top part has the text "Instantaneous Trust" in white on a dark blue background. Below this is an illustration of a large laptop with a white keyboard. Several small 3D figures are interacting with the laptop: one is climbing a ladder to reach a cloud on the screen, another is standing on the cloud, and others are standing around the laptop. There are also floating icons like a speech bubble and a document. The bottom part of the ad has the text "Global Digital Access" in white. To the right of the main illustration is a vertical column of icons representing various services: a set of keys, a power button, a Wi-Fi symbol, a printer, a scanner, and a globe. At the bottom of the ad is a "PUSH" button.



# What is that idea that has come its time?



Options with digital decision  
making support through  
machine learning

*Audio and AI Driven Interaction*

*>60-second approvals*

*Visually stimulating*



*Educational Degrees*

*Trusted News*

*Retail Loyalty Points*

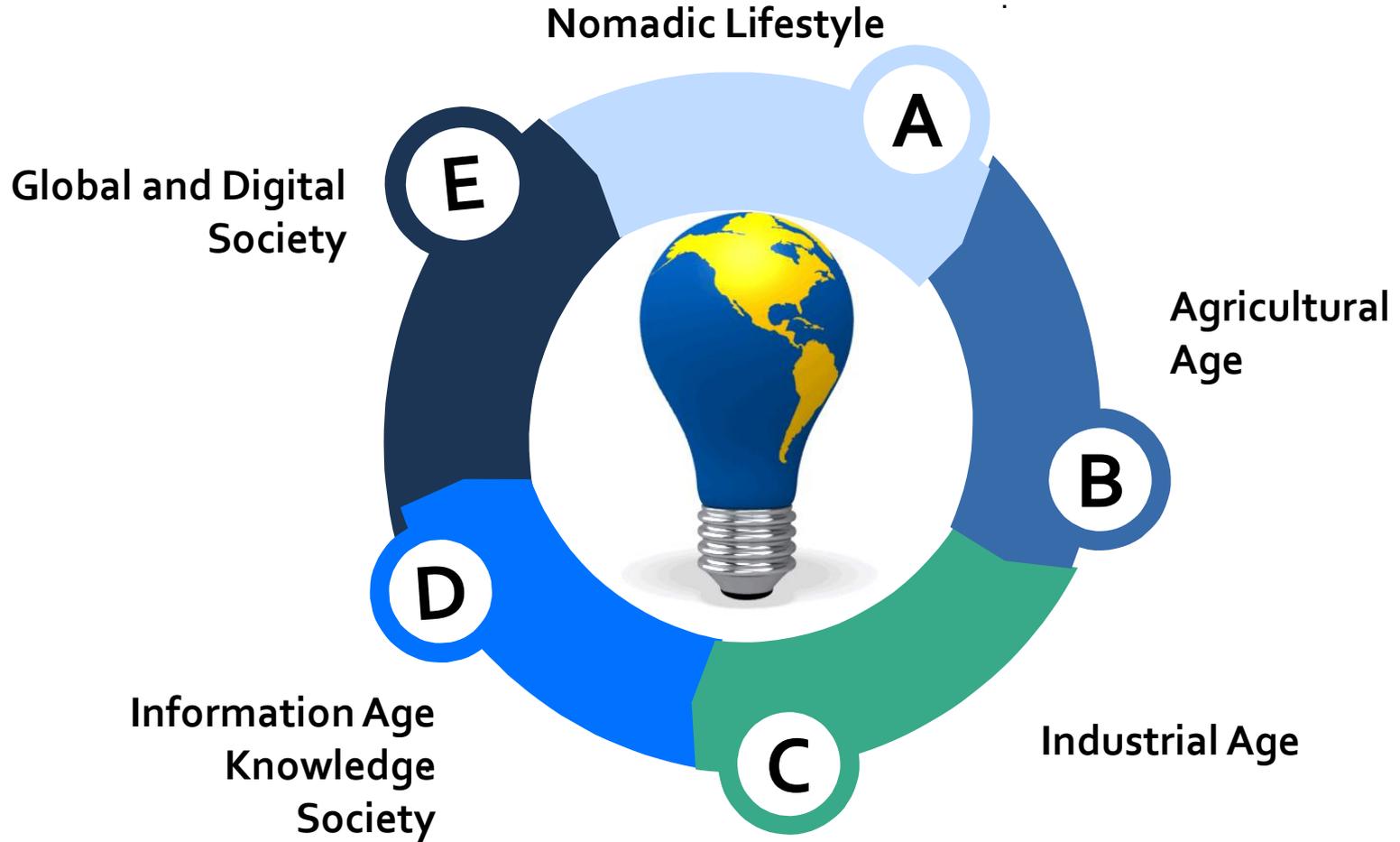
*Personal Health Records*

*Sports Contracts*

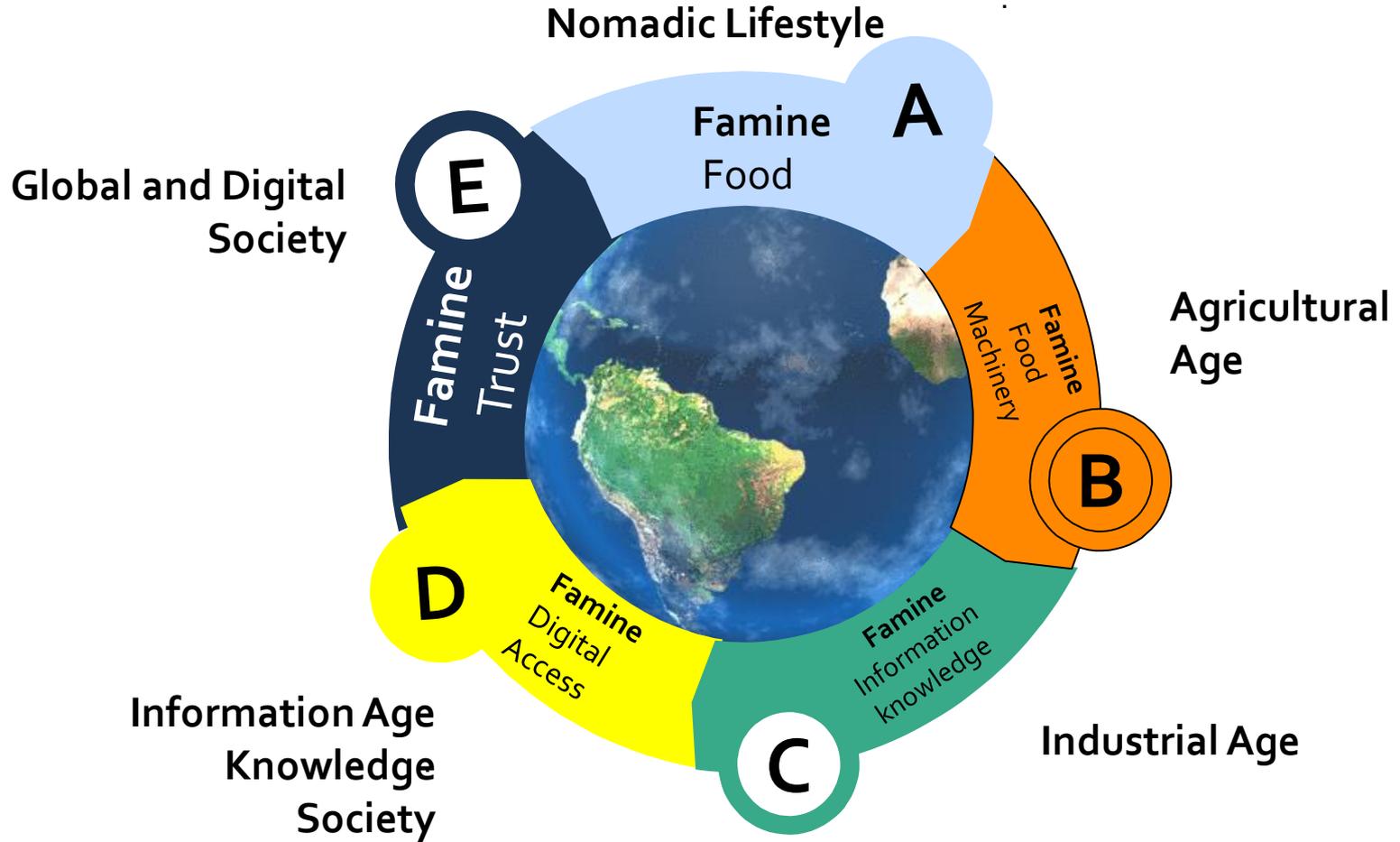
*Biometric and retina security*

*Digital Badges*





Each Age Develops the Next Type of Famine



10/21/2019

### Trust Famine

How does \$18B in credit card fraud happen annually, 43% of adults have their personal records hacked, and 47% of companies hacked?

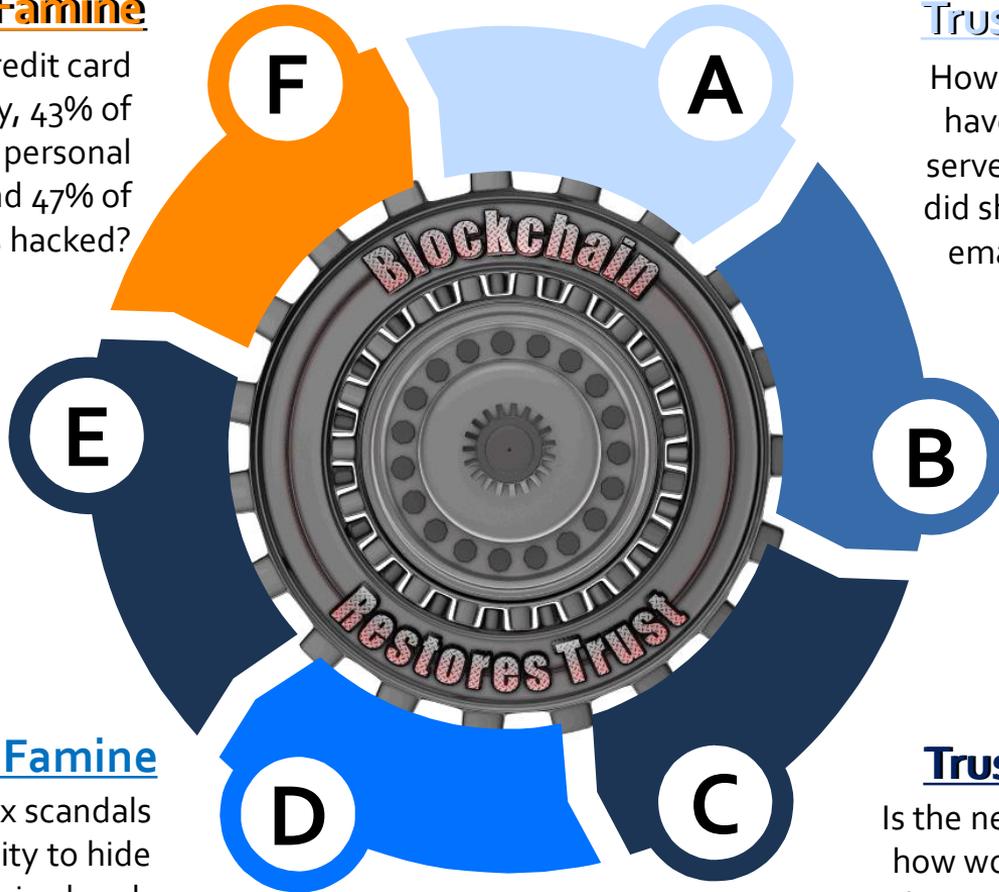
### Trust Famine

How did the best accounting practice of a 'double ledger' become the means for corporate corruption.

### Trust Famine

How did major sex scandals exist with the ability to hide predators in church databases?

10/21/2019



### Trust Famine

How did Hillary Clinton have access to a data server with email -- and did she really delete the emails with no back-up?

### Trust Famine

Did Russia plant data, take data, both or did nothing.

### Trust Famine

Is the news 'Fake' and how would we know the source of true or fake news sources.

Passed the Senate the 16th day of April, 2019.

*Angela Amodei*  
Presiding Officer of the Senate

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By: *Michael Rogers*

# Trusted Global Commerce



## Oklahoma Virtually Everywhere Act

# What is Blockchain

- A framework with technology that allows a globalized and central and 'trusted' system across all lesser 'untrusted' databases.
- A universal and central database that distributes all data across all the systems to date. Could be thought of as a global meta-level database.
- A reality that has come its time due to the global success and dependence on the Internet.



Trusted  
Global  
Commerce

# Metaphoric Description

- Bitcoin is to Blockchain what Mosaic was to the Internet.
  - Mosaic and Netscape disappeared, but the Internet lived-on.
  - Bitcoin will disappear, but Blockchain will live on.
- Cryptocurrency is to Blockchain what DarpaNet, HTML or Cyber Security is to the Internet.
  - DARPA-Net, HTML, and cybersecurity is a methodology of using the Internet and changes regularly. Cryptocurrency is merely playing off the stock market – and will constantly change.
- Blockchain is to the world of digital data what the U.S. Library of Congress is to all books, journals, periodicals. One central system run by ISBN numbers tracks and secures the legacy of all written content.

# What Blockchain is not

- It is not cryptocurrency!
- It is not bitcoin!
- Bitcoin will disappear over time.
- The product Bitcoin uses Blockchain technology to transfer between systems.
- Cryptocurrency will continue on with newer versions that all operate on Blockchain. There are about six versions of cryptocurrency.
- Cryptocurrency makes up about 10% of what Blockchain is used for – but receives 99% of the attention.



Trusted  
Global  
Commerce

# Blockchain is the Center of the Future

- All digital works will leverage the Blockchain infrastructure
  - Contracts
  - Health records
  - Legislative bylaws and laws
  - Information that leads to legislative laws
  - Archives
  - Banking records
  - Shopping and retail documents and receipts
  - Educational transcripts
  - News records
  - Voter registration
  - Oklahoma Virtually Everywhere Act

# The chain has become personal

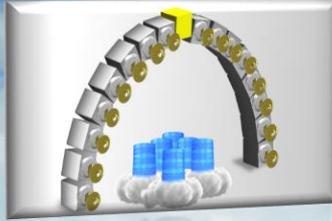
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## Walmart Makes Blockchain a 'Business Requirement' for Produce Suppliers



According to a new [press release](#), the world's largest retailer Walmart and subsidiary Sam's Club – a membership-only warehouse club - will be forcing suppliers of green leafy vegetables like lettuce and spinach to use blockchain for better transparency and traceability.

# The chain has become personal and social

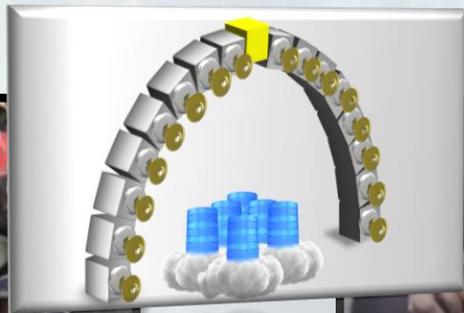


BLOCKCHAIN

## Oxfam to Empower Cambodian Rice Farmers With Blockchain

RICARDO ESTEVES | AUGUST 28, 2018 | 7:15 AM

# The chain has become personal, social, just



## Preventing Human Trafficking

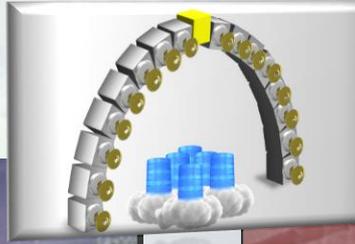
**1.5 billion** people in the world  
have **no formal ID**



## Preventing Human Trafficking

This makes them almost **invisible**  
to society and susceptible  
to **human trafficking**

# The chain has become personal, social, just



## Tracking blood diamonds

**Everledger**, is already using blockchain to **certify and track** diamonds

## Tracking blood diamonds

This could **prevent diamonds from conflict zones** from entering the market

# 50+ BLOCKCHAIN REAL WORLD USE CASES

**GOVERNMENT**

Essentia develops world's first blockchain solution to manage international logistics hub together with Traffic Labs and the Finnish Government

**essentia.one**

**IDENTIFICATION**

Voter registration is being facilitated via a blockchain project in Switzerland spearheaded by Uport.

**uport**

**MOBILE PAYMENTS**

The blockchain ledger that Ripple uses has been latched onto by a group of Japanese banks, who will be using it for quick mobile payments.

**ripple**

**INSURANCE**

A smart contract-based blockchain is being used by Insurer American International Group Inc as a means of saving costs and increasing transparency.

**AIG**

**ENDANGERED SPECIES PROTECTION**

The protection of endangered species is being facilitated via a blockchain project that records the activities of these rare animals.

**CARBON OFFSETS**

IBM is using the Hyperledger Fabric blockchain in China to monitor carbon offset trading.

**IBM HYPERLEDGER**

**ENTERPRISE**

Ethereum's blockchain can be accessed as a cloud-based service courtesy of Microsoft Azure.

**Microsoft Azure**

**BORDER CONTROL**

Essentia has devised a border control system that would use blockchain to store passenger data in the Netherlands.

**essentia.one**

**SUPPLY CHAINS**

IBM and Walmart have partnered in China to create a blockchain project that will monitor food safety.

**IBM Walmart**

**HEALTHCARE**

A number of healthcare systems that store data on the blockchain have been pioneered including MedRec.

**MEDREC**

**SHIPPING**

Shipping is a natural fit for blockchain, and Maersk have been trialling a blockchainbased project within the maritime logistics industry.

**MÆRSK**

**REAL ESTATE**

Blockchain is now being used to complete real estate deals, the first of which was conducted in Kiev by Propy.

**PROPY**

**ENERGY**

Essentia is developing a test project that will help energy suppliers track the distribution of their resources in real time, whilst maintaining data confidentiality.

**essentia.one**

**LAND REGISTRY**

Land registry titles are now being stored on the blockchain in Georgia in a project developed by the National Agency of Public Registry.

**NATIONAL AGENCY OF PUBLIC REGISTRY**

**COMPUTATION**

Digital Currency Group are helping Amazon Web Services examine ways in which the distributed ledger technology can help improve database security.

**DIGITAL CURRENCY GROUP**

**ADVERTISING**

New York Interactive Advertising Exchange has been experimenting with blockchain as a means of providing an ads marketplace for publishers.

**NYIAX**

**BORDER CONTROL**

Essentia is developing a blockchain project for border control that will allow customs agents to record passenger data from an array of inputs and safely store it.

**essentia.one**

**JOURNALISM**

Decentralized journalism, as enabled by blockchain technology, has the potential to prevent censorship and increase transparency, as Civil has shown.

**CIVIL**

**WASTE MANAGEMENT**

Waltonchain is using RFID technology to store waste management data on the blockchain in China.

**ENERGY**

Food importation is another industry where blockchain is proving its worth, with Louis Dreyfus Co trialling a soybean importation operation using this technology.

**LDC**

**DIAMONDS**

The De Beers Group is using blockchain to track the importation and sale of diamonds.

**DE BEERS**

**FINE ART**

By storing certificates of authenticity on the blockchain, it's possible to dramatically reduce art forgeries, as one blockchain project is proving.

**NATIONAL SECURITY**

For the past two years, the US Department of Homeland Security has been using blockchain to record and safely store data captured from its security cameras.

**TOURISM**

In a bid to boost its tourism economy, Hawaii is examining ways in which blockchain-based cryptocurrencies can be adopted throughout the US state.

**TAXATION**

In China, a tax-based initiative is using blockchain to store tax records and electronic invoices led by Miacai Network.

**ENERGY**

Chile's National Energy Commission has started using blockchain technology as a way of certifying data pertaining to the country's energy usage as it seeks to update its electrical infrastructure.

**CNE COMISION NACIONAL DE ENERGIA**

**RAILWAYS**

Russian rail operator Novotrans is storing inventory data on a blockchain pertaining to repair requests and rolling stock.

**HOBOTPAK**

**ENTERPRISE**

Google is building its own blockchain which will be integrated into its cloud-based services, enabling businesses to store data on it, and to request their own white label version developed by Alphabet Inc.

**Google Alphabet**

**MUSIC**

Arbit is a blockchain-based project led by former Guns N' Roses drummer Matt Sorum seeking a fairer way to reward musicians for their creative efforts.

**arbit**

**FISHING**

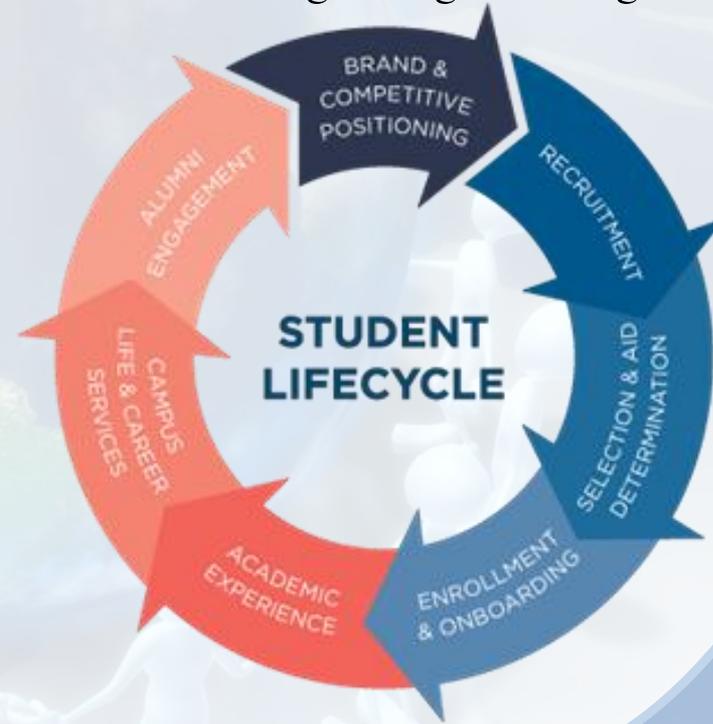
Blockchain technology has been used to provide a transparent record of where fish was caught, as a means of ensuring it was legally landed.

# Companies Collaborate Around the Supply Chain

Real World Value – Supply Chain

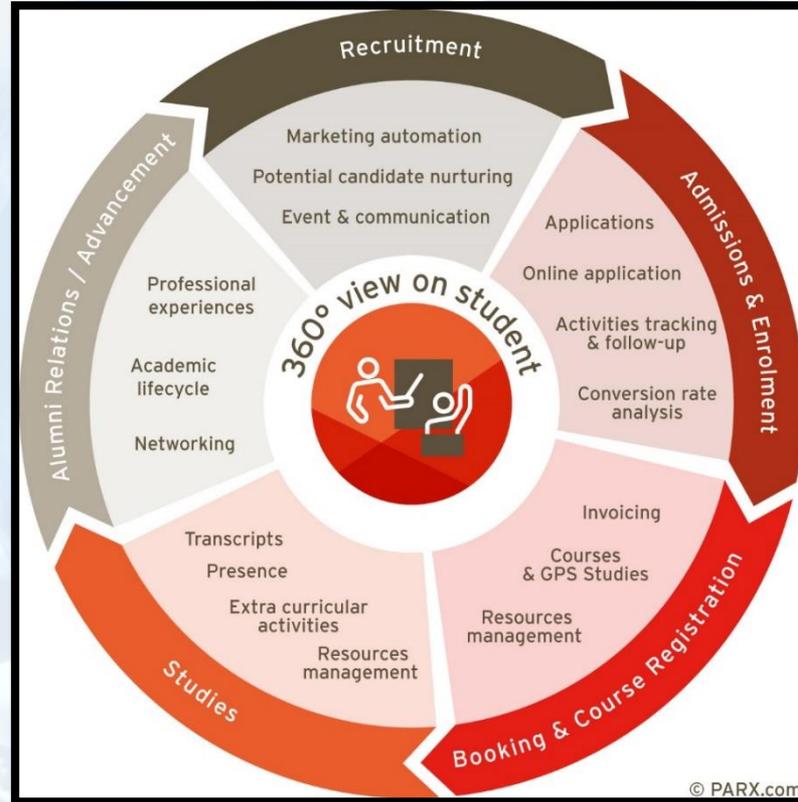


An inclusive design of recruiting, training, retaining, and graduating students



# Student cycle geared toward single unit

In the past education student information systems were designed and sold to allow college and universities to be independent and inward focus.



The 'value' of designing a 'student cycle' was in the students staying and succeeding within the education system.



# Everything has now changed

What makes this possible?

1. Digitized courses
2. Internet of Things
3. Blockchain
4. Smart Contracts on the chain
5. Career Postings on the chain
6. Transcripts on the chain



## Education Vending Machine

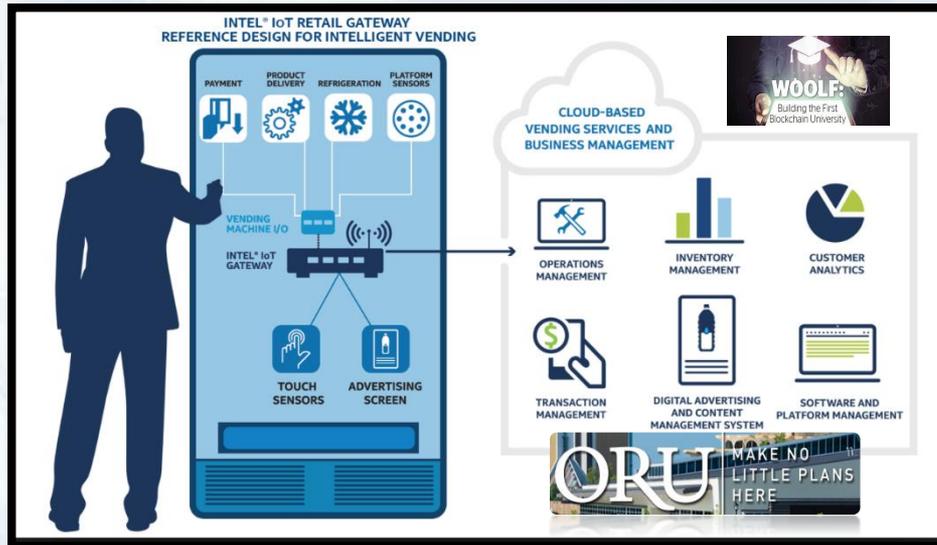
1. Enter your ID for Blockchain transcripts and assessment and evaluation transfer.
2. Choose career objective
3. Choose Job Salary requirements
4. Check your email to verify security code.
5. Enter your credit card
6. Select University or College
7. Select first course and your degree plan will be emailed to your credit care email.
8. Don't forget to use our online mobile app for ordering your next degree planned course.

# Everything has now changed

What makes this possible?

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## EVM – Education Vending Machine



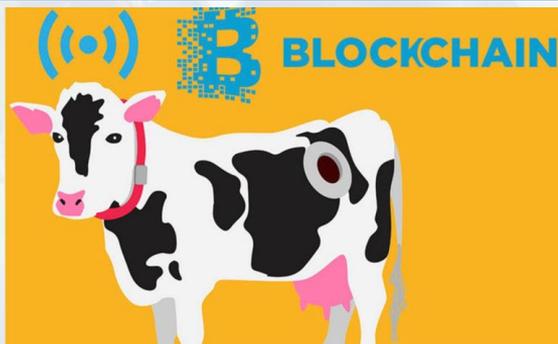
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# It's about the 'Chain'



FedEx's Smith Sees Blockchain as 'Next Frontier' for Logistics



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# The Global Education Value Chain

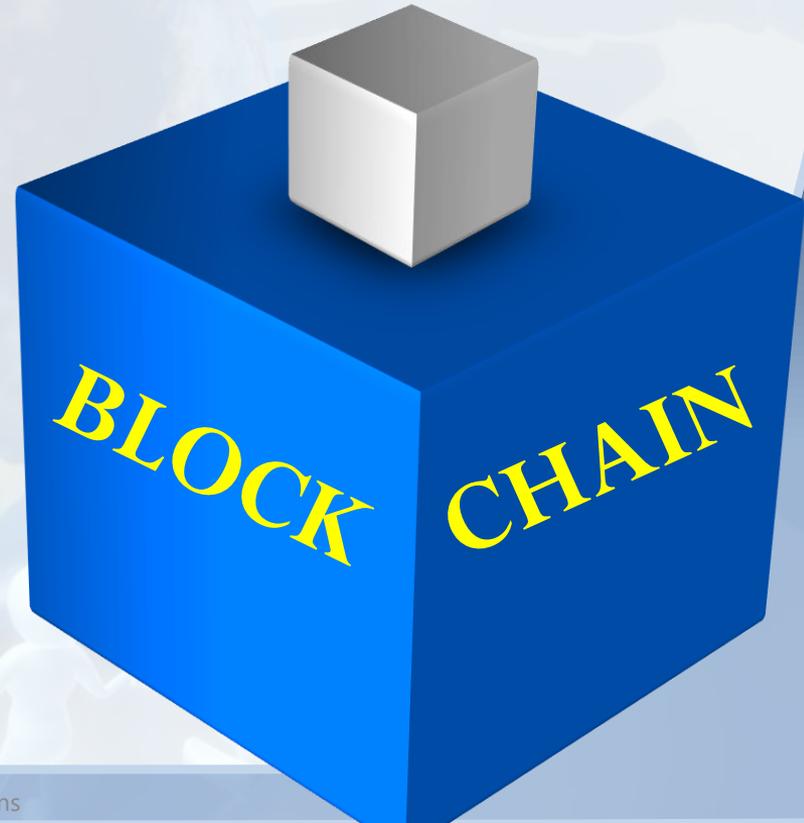


# Accessible and Neutral for all Peoples - Trusted

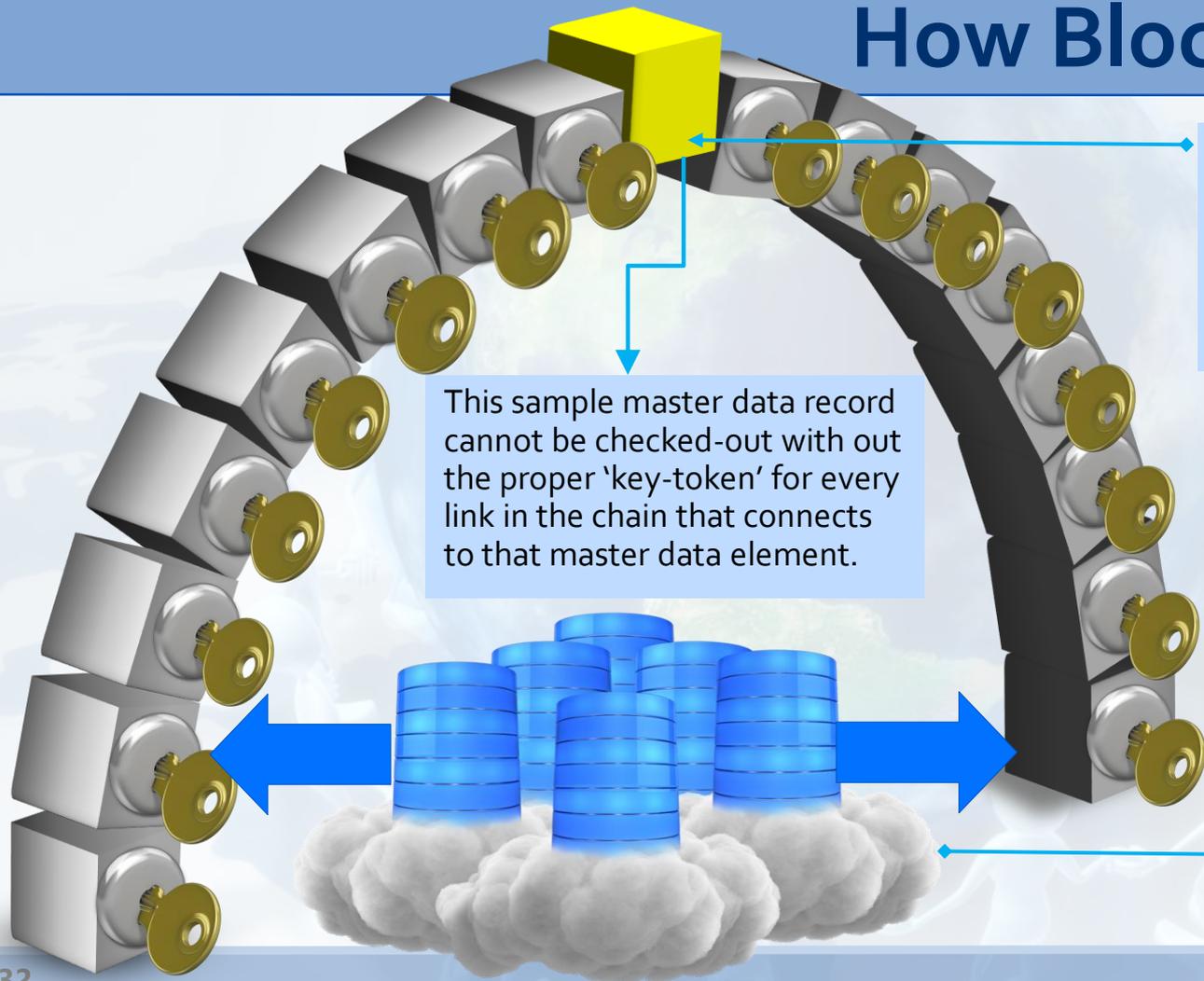
## U.S. Library of Congress, The Internet, and now Blockchain

Each entity is non-threatening, neutral, and accessible – and thus the meta-layer of data above all untrusted entry points makes it all extremely useful and heads toward ‘trusted’ by checking ‘data in and all’.

Blockchain is the neutral framework that acts like U.S. Library of Congress for all data, records, and documents – whereby people need to check-in-and check-out the documents as there is only one master in the future.



# How Blockchain works



If this data record is modified by the owner, it cannot be checked back into the same location, as that location is no longer the master record location – and there can only be one master.

This sample master data record cannot be checked-out without the proper 'key-token' for every link in the chain that connects to that master data element.

Blockchain technology is able to use the Internet to chain all data able to chain all worldwide web data into a meta-database that makes all data be chained together.

# Education Meta-data Schema – Proposal

"The White House Office of Science and Technology and Department of Education continues to challenge the public to get creative to solve some of the most difficult decisions in education. We appreciate the creative submission on meta-data schemas by thought leaders like Michael Mathews at the national level. It will be thought leaders like this that continue to help solve the future student success issues for future generation." ~2015



Nick Sinai  
United States Deputy Chief Technology  
Officer at the White House

# UT – Austin using Blockchain

CHAINSCRIPT

## Transcript + Blockchain = ChainScript

- **Immutable.**
- **Verifiable.**
- **Secure.**
- **Distributed.**
- **Ownership.**
- **Shareable.**

Credentials for a mobile world, where learning increasingly occurs when and where the opportunity presents itself.



# Trust and verify.

Securely share, validate, and verify accomplishments.



Enter your code

d498c8d3-e21b-43c2-bd14-2dc7b56a3310

Validate

Source: Phil Komarny

Chainscript Sort

1 Accomplishment Added

Twelve-Week Certificate

-  **AI Certificate**  
TWELVE-WEEK CERTIFICATE
-  **Deep Learning Certificate**  
TWELVE-WEEK CERTIFICATE

Micro Certificate

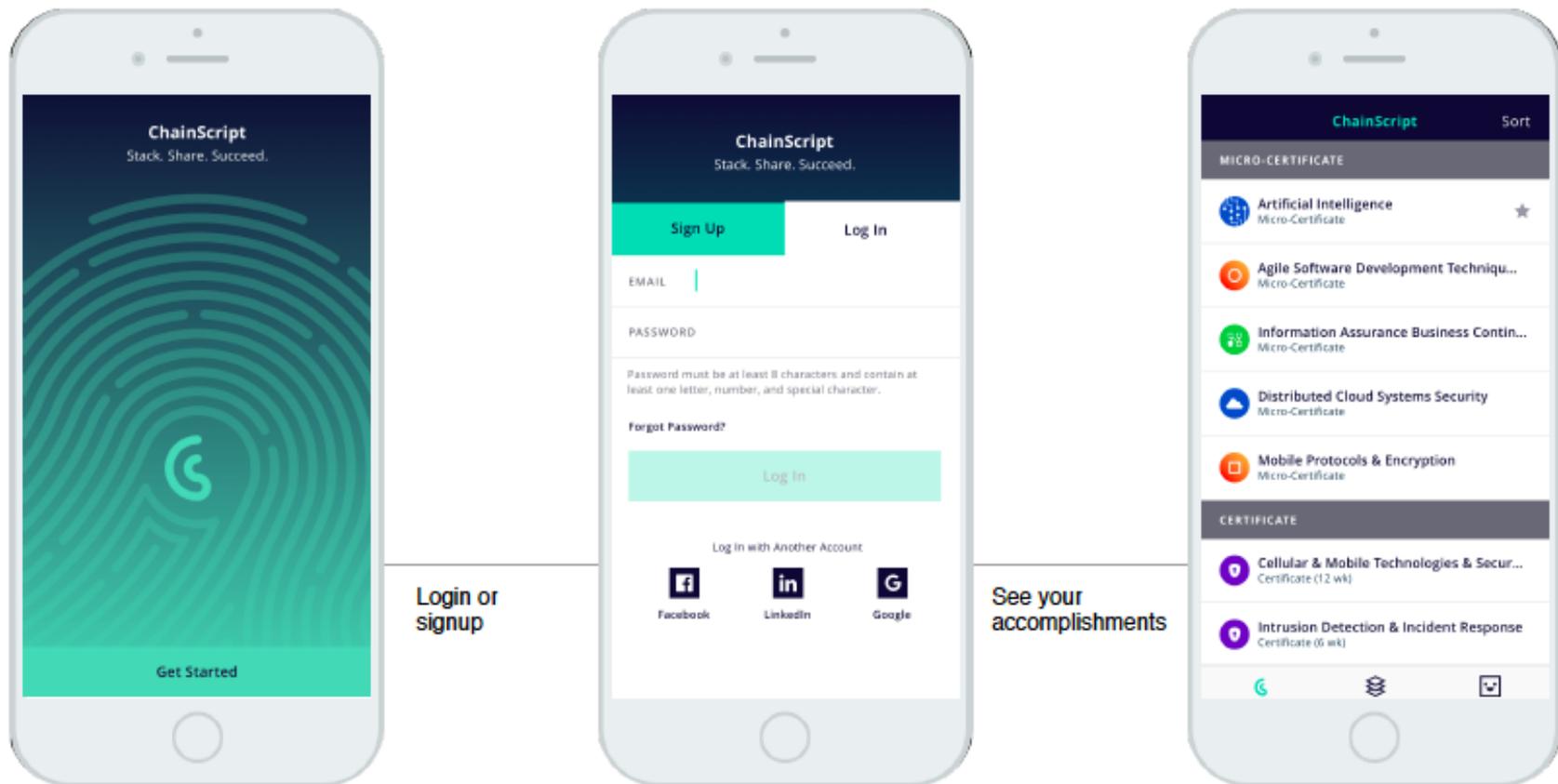
-  **Big Data 101 Micro Certificate**  
MICRO CERTIFICATE
-  **Big Data 102 Micro Certificate**  
MICRO CERTIFICATE
-  **Big Data 103 Micro Certificate**  
MICRO CERTIFICATE

Degree

-  **Cyber Security Degree**  
DEGREE

Six-Week Certificate



Source: Phil Komarny

# Educational Uses

“What will be the most important technology to change higher education? In our view, it’s not big data, the social web, MOOCs, virtual reality, or even artificial intelligence. We see these as components of something new, all enabled and transformed by an emerging technology called the *Blockchain*.” ~

EDUCAUSE

# Four Main Changes for Education

**Identity and Student Records:** How we identify students; protect their privacy; measure, record, and credential their accomplishments; and keep these records secure. Blockchain Universities will be 'Trusted Agents'.

**New Pedagogy:** How we customize teaching to each student and create new models of learning. Give each student their personal education and career ledger with credible evidence of success.

Links Augmented Reality, Virtual Reality, and Artificial Intelligence to students Blockchain.

**Costs (Student Debt):** How we value and fund education and reward students for the quality of their work.

**The Meta-University:** How we design entirely new models of higher education so that former MIT President Chuck Vest's dream can become a reality<sup>1</sup>.

(1) <https://er.educause.edu/articles/2006/1/open-content-and-the-emerging-global-metauniversity>

# Use Case Explanations

## Blockchain Explained by William Mougayar

### What it enables



- \* Creation and real-time movement of digital assets
- \* Embedding trust rules inside transactions and interactions
- \* Time-stamping, rights and ownership proofs
- \* Identity ownership and representation
- \* Resistance to single points of failure or censorship
- \* Creation of crypto-currency markets
- \* Self-execution of business logic with self-enforcement
- \* Running decentralized services
- \* Selective transparency and privacy

### Its impact...



1. Reengineering processes
2. Rethinking roles of intermediaries
3. Bundling of services
4. New flows of value
5. Decentralized governance
6. New legal and regulatory frameworks



### What it is

Meta technology on the Internet  
Decentralized database  
Decentralized computers  
Peer to peer network  
Shared, distributed ledger  
Trust layer for the Web  
Software development environment

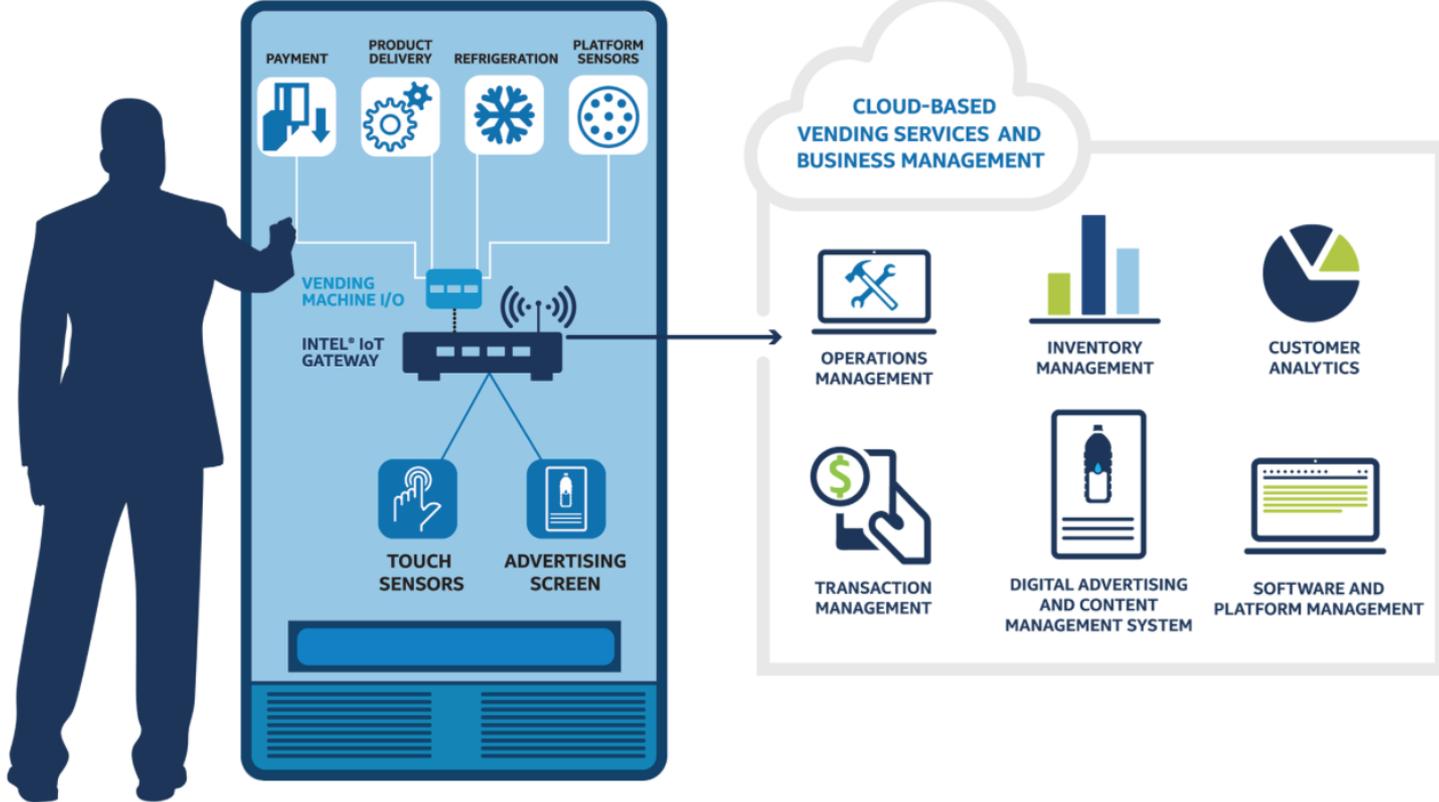
...across industries

Financial services  
Government services  
Healthcare  
Energy markets  
Supply chains  
Smart things  
World trade

# Blockchain is like a vending machine

That allows you to buy all cloud-based services on your phone without a middle-person

## INTEL® IoT RETAIL GATEWAY REFERENCE DESIGN FOR INTELLIGENT VENDING

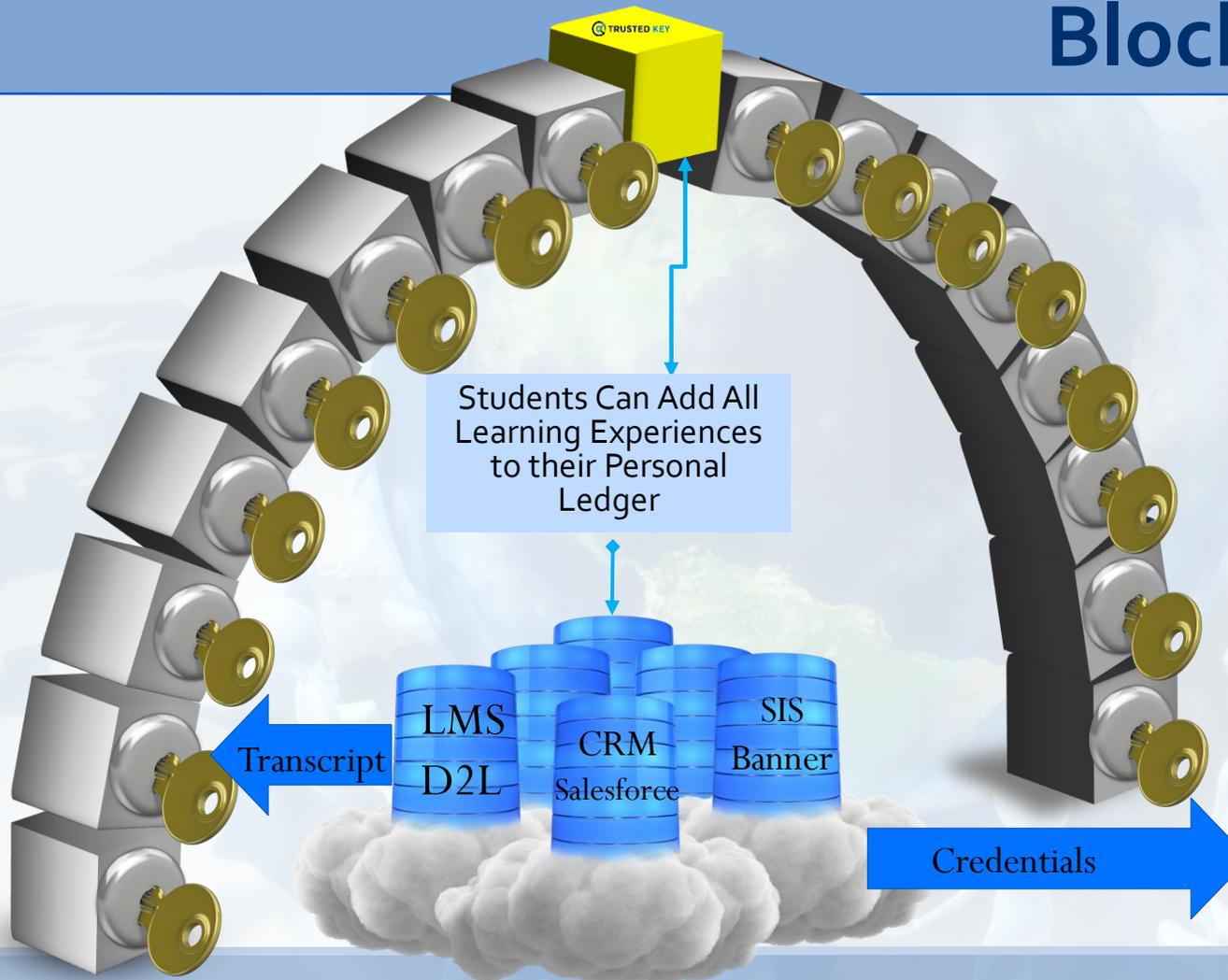


# Greatest Transformations with Blockchain

## Prioritizing where the greatest gains can be made

1. Any area/process where distrust exists and the 'middle-layers' can be cut out to increase efficiency and reduce costs.
2. Areas that are most controlled by legislation and funded by the State.
3. Any area where technology is broken, outdated, or can be consolidated.
4. Area where 'public-eye' sees transformation as long overdue.

# Blockchain



## A Personal EduFax via Trusted Key Personal Ledger

**Career Empowerment Through Verified Credentials**

**College Graduate**

The following certifies that John Doe has processed his educational, personal, and workforce experience and qualifications through the National EDUFAX verification service.

*Summary of Candidate Profile Match*

Based on the data that has been certified as both accurate and current, John Doe rates a 85% match for the position of **Cast Metal Machining Apprentice**. He also ranks within the top 10% of national college graduate candidates that are trained and certified for the position. His profile also suggest that his second strongest career path is a **CAD Engineer Apprentice**. John's personality profile is ENTI. John Doe has agreed to share all verifiable information in this EDUFAX report.

<b>Examinations</b> <ul style="list-style-type: none"><li>PMPI</li></ul>	<b>Completed Certifications</b> <ul style="list-style-type: none"><li>PMPI</li></ul>	<b>Work History</b> <ul style="list-style-type: none"><li>McDonald Douglas – Intern 6-months</li><li>Donaldson Logistics – Warehouse work. (3 years)</li></ul>
<b>Education</b>		<b>Employability Ratings</b>
Degree	Degree	GPA
A.S	Applied Science	3.4
B.S	Mechanical Engineering	3.2
		Institution
		Elgin Community College
		University of Illinois
<b>Related Work Knowledge</b> <ul style="list-style-type: none"><li>Automated Systems &amp; Controls</li><li>Warehouse work</li><li>BOM design and revisions</li><li>EDI protocols</li><li>RFD</li></ul>	<b>Unique Skills/Experience</b> <ul style="list-style-type: none"><li>Speaks French</li><li>Student leadership</li><li>Team member supervision</li><li>Conference Speaking</li><li>Non-profit participation</li></ul>	
		<b>Personality/Life Interests</b> <ul style="list-style-type: none"><li>Enjoys travel</li><li>Swimming</li></ul>
<b>Clubs/Associations/Awards</b> <ul style="list-style-type: none"><li>Member of American Society for Student Achievement</li><li>Eagle Scout in Boys Scouts of America</li><li>Winner of Illinois State 800 Freestyle swimming competition</li></ul>		

EDUFAX by LSC-UP (CG = College Graduates, EP = Experienced Professional)



## Career Empowerment Through Verified Credentials

# Experienced Professional

The following certifies that Jane Doe has processed her educational, personal, and workforce experience and qualifications through the National EDUFAX® verification service.

### Summary of Candidate Profile Match

Based on the data that has been certified as both accurate and current, Jane Doe rates a 98% match for the position of **Certified Manufacturing Engineer**. She also ranks within the top 2% of national candidates that are qualified to apply for the position. Her profile also suggest that her second strongest career path is operations plant manager. Jane's personality profile is ENTJ. Jane Doe has agreed to share all verifiable information in this EDUFAX report.

<b>Examinations</b> <ul style="list-style-type: none"> <li>Six Sigma</li> <li>Lean Bronze</li> <li>CMfgT</li> <li>EET</li> </ul>		<b>Completed Certifications</b> <ul style="list-style-type: none"> <li>Six Sigma</li> <li>Lean Bronze</li> <li>CMfgT</li> <li>PMI</li> </ul>		<b>12 Year - Work History</b> <ul style="list-style-type: none"> <li>Cummins – Plant Manager (5 years)</li> <li>Hamilton, Int. - Design Eng. (3 years)</li> <li>Siemens – CAD Eng. (2 years)</li> <li>Manitowoc- Welder (2 years)</li> </ul>	
<b>Education</b>				<b>Employability Ratings</b>	
Degree	Degree	GPA	Institution	85% Relocation	
A.S	Applied Science	3.5	Madison Technical College	95% Reference check	
B.S	Chemical Engineering	3.7	University of Madison	95% Retention >2yrs	
				65% Retention >4yrs	
				55% domestic travel	
				10% Int. travel	
<b>Related Work Knowledge</b> <ul style="list-style-type: none"> <li>Automated Systems &amp; Controls</li> <li>Manufacturing Management</li> <li>Manufacturing Process Application &amp; Operation</li> <li>Math, Applied &amp; Engineering</li> <li>Product, Process Design &amp; Development</li> <li>Production System &amp; Equipment</li> </ul>		<b>Unique Skills/Experience</b> <ul style="list-style-type: none"> <li>Speak French and Spanish</li> <li>Union Negotiation</li> <li>Supervision</li> <li>Team facilitator</li> <li>Conference Speaking</li> <li>Teaching at college level</li> <li>Non-profit leadership</li> </ul>		<b>Personality/Life Interests</b> <ul style="list-style-type: none"> <li>Enjoys business travel</li> <li>Training co-workers</li> <li>Conference Speaking</li> <li>Teaching at college level</li> <li>Non-profit leadership</li> <li>Machine shop hobby</li> </ul>	
<b>Clubs/Associations/Awards</b> <ul style="list-style-type: none"> <li>Member of college math club that placed third in nationals</li> <li>Member of Project Managers</li> <li>Toastmasters int. – five year member with Able Toastmaster rating.</li> <li>10 year member of the boys and girls club of America</li> </ul>					

EDUFAX by LSC-UP (CG = College Graduate, EP = Experienced Professional)



## Career Empowerment Through Verified Credentials

# Skills Gap Analysis

This Skills Gap Analysis (SGA) is prepared for John Doe who is interested in a career as a manufacturing engineer. The SGA for manufacturing related careers utilize the National Association of Manufacturers (NAM) endorsed Manufacturing Skills Certification System, which uses stackable credentials applicable to all sectors in the manufacturing industry. These nationally portable, industry-recognized credentials validate what is needed to be productive and successful in entry-level positions in any manufacturing environment

### Summary of Candidate Profile Match

The analysis indicates that John Doe is 65% complete with the credentials, certifications, education, and experience to be qualified for a successful career as a manufacturing engineer.

<b>Work Experience Status</b> <b>55% complete</b> Remaining Gaps <ul style="list-style-type: none"> <li>Need 400 hours of related work experience</li> </ul> Recommendations <ul style="list-style-type: none"> <li>Focus on PT job or Internship in manufacturing related environment</li> </ul>	<b>Education Status</b> <b>75% complete (Junior Status)</b> Remaining Gaps <ul style="list-style-type: none"> <li>Senior year completion</li> <li>One team/club participation</li> </ul> Recommendations <ul style="list-style-type: none"> <li>Focus on Chemistry and shop related classes as electives.</li> </ul>	<b>Grades</b> <ul style="list-style-type: none"> <li>HS – 3.95</li> <li>Cert-exam A+</li> <li>College 3.65</li> </ul> <b>Assoc./Club</b> <ul style="list-style-type: none"> <li>Honors Society</li> <li>Brazil student business trip</li> </ul>
<b>Certifications Status</b> <b>75% complete for entry level</b> Remaining Gaps <ul style="list-style-type: none"> <li>CMfgT</li> </ul> Recommend completing attached Body of knowledge (BOK) assessment	<b>Assessment/Testing Information and Review</b> <ul style="list-style-type: none"> <li>ACT Score</li> <li>WorkKeys profile</li> <li>The National Career Readiness Certificate</li> <li>National Assessment of Ed. Progress</li> <li>State Academic profile report</li> </ul>	
<b>Summary Report</b> <b>Overall 65% Complete</b> <ul style="list-style-type: none"> <li>Based on your current education and credential exam trends you will be rated in the top 10% of qualified manufacturing engineers.</li> <li>Based on your past pace, you will be qualified and ready for a manufacturing engineer position in 10-12 months.</li> <li>There are current 50,000 Manufacturing Engineers job openings</li> <li>The Bureau of Labor Statistics projects that Manufacturing Engineers are estimated to increase by 20% over the next 12 months</li> </ul>		
<b>Recommendation</b> – Keep up the great work and focus on internship opportunities.		

EDUFAX by LSC-UP (CG = College Graduate, EP = Experienced Professional, SGA = Skills Analysis Profile)



## Career Empowerment Through Verified Credentials

# College Graduate

The following certifies that John Doe has processed his educational, personal, and workforce experience and qualifications through the National EDUFAX verification service.

### Summary of Candidate Profile Match

Based on the data that has been certified as both accurate and current, John Doe rates a 85% match for the position of **Cast Metal Machining Apprentice**. He also ranks within the top 10% of national college graduate candidates that are trained and certified for the position. His profile also suggest that his second strongest career path is a **CAD Engineer Apprentice**. John's personality profile is ENTJ. John Doe has agreed to share all verifiable information in this EDUFAXz report.

<b>Examinations</b> <ul style="list-style-type: none"> <li>PMPI</li> </ul>		<b>Completed Certifications</b> <ul style="list-style-type: none"> <li>PMPI</li> </ul>		<b>Work History</b> <ul style="list-style-type: none"> <li>McDonald Douglas – Intern 6-months</li> <li>Donaldson Logistics – Warehouse work. (3 years)</li> </ul>	
Education				<b>Employability Ratings</b> 95% Relocation 85% Reference check 95% Retention TBD 65% Retention TBD 100% domestic travel 100% Int. travel	
Degree	Degree	GPA	Institution		
A.S	Applied Science	3.4	Elgin Community College		
B.S	Mechanical Engineering	3.2	University of Illinois		
<b>Related Work Knowledge</b> <ul style="list-style-type: none"> <li>Automated Systems &amp; Controls</li> <li>Warehouse work</li> <li>BOM design and revisions</li> <li>EDI protocols</li> <li>RFID</li> </ul>		<b>Unique Skills/Experience</b> <ul style="list-style-type: none"> <li>Speaks French</li> <li>Student leadership</li> <li>Team member supervision</li> <li>Conference Speaking</li> <li>Non-profit participation</li> </ul>		<b>Personality/Life Interests</b> <ul style="list-style-type: none"> <li>Enjoys travel</li> <li>Swimming</li> </ul>	
<b>Clubs/Associations/Awards</b> <ul style="list-style-type: none"> <li>Member of American Society for Student Achievement</li> <li>Eagle Scout in Boys Scouts of America</li> <li>Winner of Illinois State 800 freestyle swimming competition</li> </ul>					



## The Blockchain Revolution for Education

<https://er.educause.edu/articles/2017/3/the-blockchain-revolution-and-higher-education>

<https://er.educause.edu/articles/2017/4/credentials-reputation-and-the-blockchain>

<https://www.youtube.com/watch?v=85MgX1idyZ8&feature=youtu.be&t=28m48s>



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# Questions? More Information?

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