Blockchain and Preventing Academic Corruption

Joe May & Amin Qazi





Value of Credentials

- Dallas reports that 43%
 of jobs require a
 credential beyond high
 school.
- Credentials create
 access to a living wage
 jobs, kick-start careers
 & college.
- But the high value of credentials entice people to generate of fraudulent credentials.

Occupation	Typical Entry Level Education	Median Salary
Computer User Support Specialists	Industry Recognized Credential	\$48,660
Electrical and Electronic Repairers, Commercial and Industrial Equipment	Postsecondary Nondegree Award	\$56,070
Dental Hygienists	Associate's Degree	\$79,560
Construction Managers	Bachelor's Degree	\$95,970
Surgical Technologists	Postsecondary Nondegree Award	\$49,760
Respiratory Therapists	Associate's Degree	\$61,760
Magnetic Resonance Imaging (MRI) Technologists	Associate's Degree	\$70,230
Registered Nurses	Bachelor's Degree	\$73,760



Examples of Vulnerabilities

Absence of Trusted verification leaves room for misrepresentation, corruption and tragedy.

Lawsuit: Dallas ISD's Failures Allowed Man to Pose as Teen, Prey on 14-Year-Old Girl



- Sexual assault of a 14-year-old girl
- Illegal engagement with minors

- Three charges of tampering with a government record
- Lawsuit filed to hold School district responsible



Fraudulent Diploma Production

In August 2018, Melissa Howard, a candidate for the Florida House, whose campaign was derailed after it was discovered that she falsely produced a diploma from the Miami University in Ohio.





Embellishing Credentials

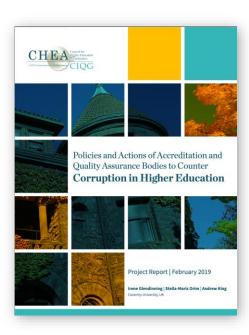


In late 2018, an investigation revealed that Sr. State Dept. Staffer, Mina Chang had not received her bachelor's degree from Harvard Business School.



CHEA Report Raises Awareness

"Policies and Actions of Accreditation and Quality Assurance Bodies to Counter Corruption in Higher Education" (PAAQABCCHE)



Fraud and Corruption undermined the following eight areas:

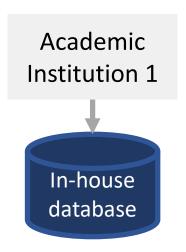
- Regulation
- Governance (undeserved degrees)
- Perceptions of quality
- Teaching

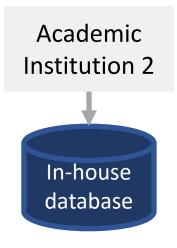
- Admissions & recruitment
- Student assessment
- Credentials & qualifications
- Research & academic publishing

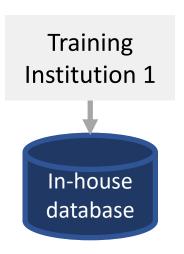


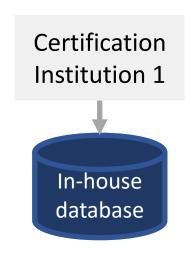
"Key Places" in Data Lifecycle Where the Greatest Risk for Fraud Occur

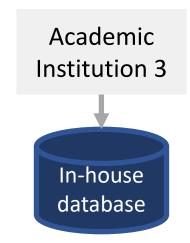
Student achievement data is spread over many disparate islands of academic records









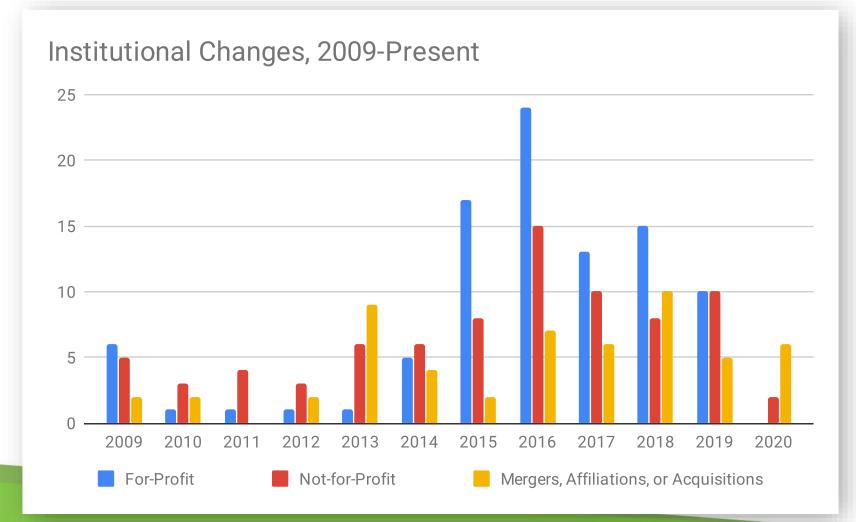




Institutional Closures, Mergers & Start-ups Present Opportunities for Fraud & Misrepresentation

A verified credential solution can increase integrity by:

- helping eliminate diploma mills and false degrees.
- offering students the opportunity to store and share their own records.
- providing complete reports.
- having the ability to access records of closed institutions.



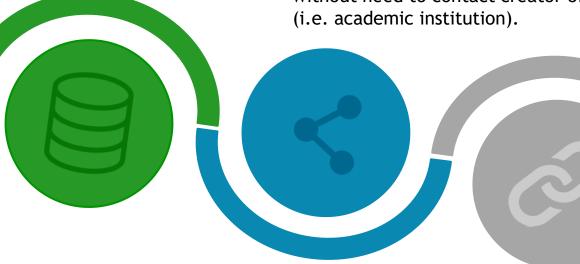


Accurate Trusted Records Makes it Easier to Apply for Colleges & Jobs

SHARE

Allows instant and secure sharing of records.

Shared records are instantly verifiable without need to contact creator of the record (i.e. academic institution).



Allows schools, colleges and businesses to securely match users and needs.

MATCH



STORE

Secure home to life-long learning and professional achievements such as

academic records, industry

certifications, professional

badges and more.

Blockchain Technology Ensures Trust:

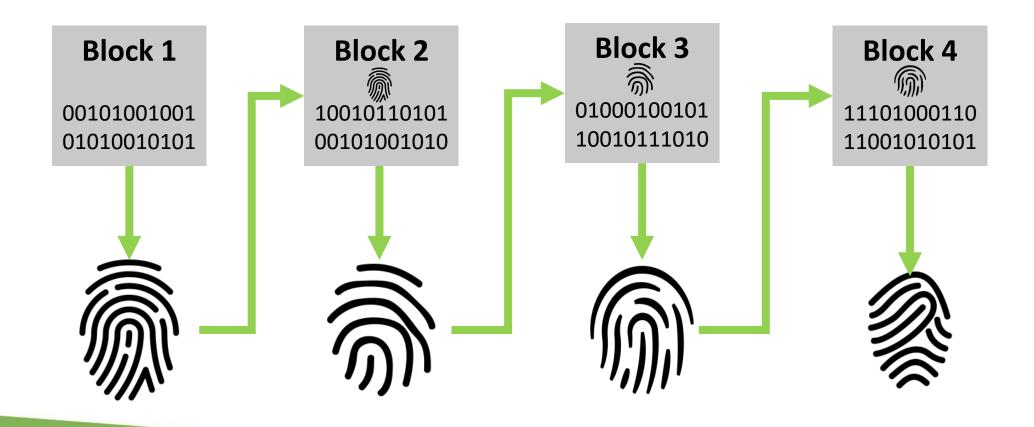
Allows transactions to be gathered into blocks and recorded.

Cryptographically chains the blocks in sequence to a ledger.

Allows the ledger to be accessed by multiple servers.



Cryptographically Chains the Blocks in Sequence to a Ledger

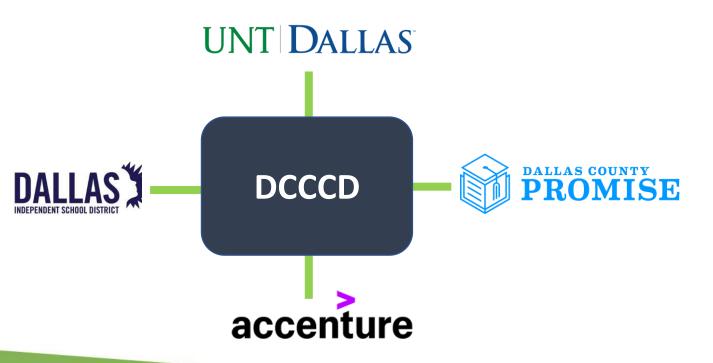




Allows the Ledger to be Accessed by Multiple Entities

Centralized Database

Private Distributed Ledger

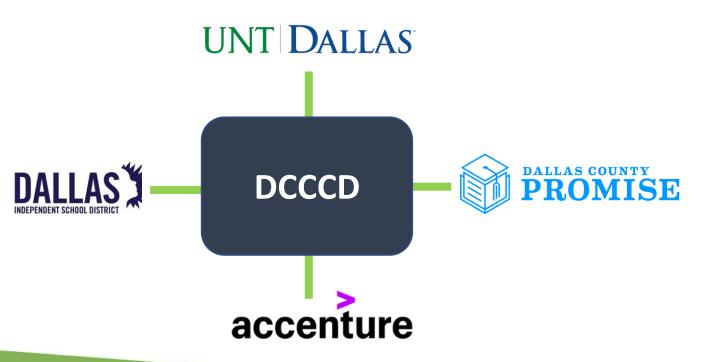






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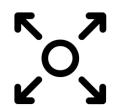


Benefits of Blockchain



Faster Verification

Not dependent on institutions or people being available



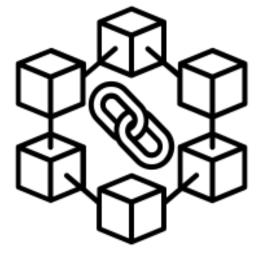
Increased Network Capacity

More capable and reliable than traditional networks



Secure

GLC blockchain builds encryption into all processes





Immutable

Transactions cannot be changed once they are written to the blockchain



Shared and distributed

Blockchain increases transparency while reducing opportunities for fraud



Decentralized

No individual has authority over the system



Increases Trust in These Areas

- Governance (undeserved degrees) –
 Increase integrity, eliminate diploma mills and false degrees; get complete reports
- Perceptions of quality
- Admissions & recruitment validate person doing work really did work

- Student assessment immutable student records
- Credentials & qualifications track
 lifelong achievements in single place –
 verified Linkedin



The GreenLight Solution



Students "grant consent" to their academic credentials.



Credentials instantly trusted and verified.



Scalable locally, regionally, nationally, and globally.



Credentials shared digitally.

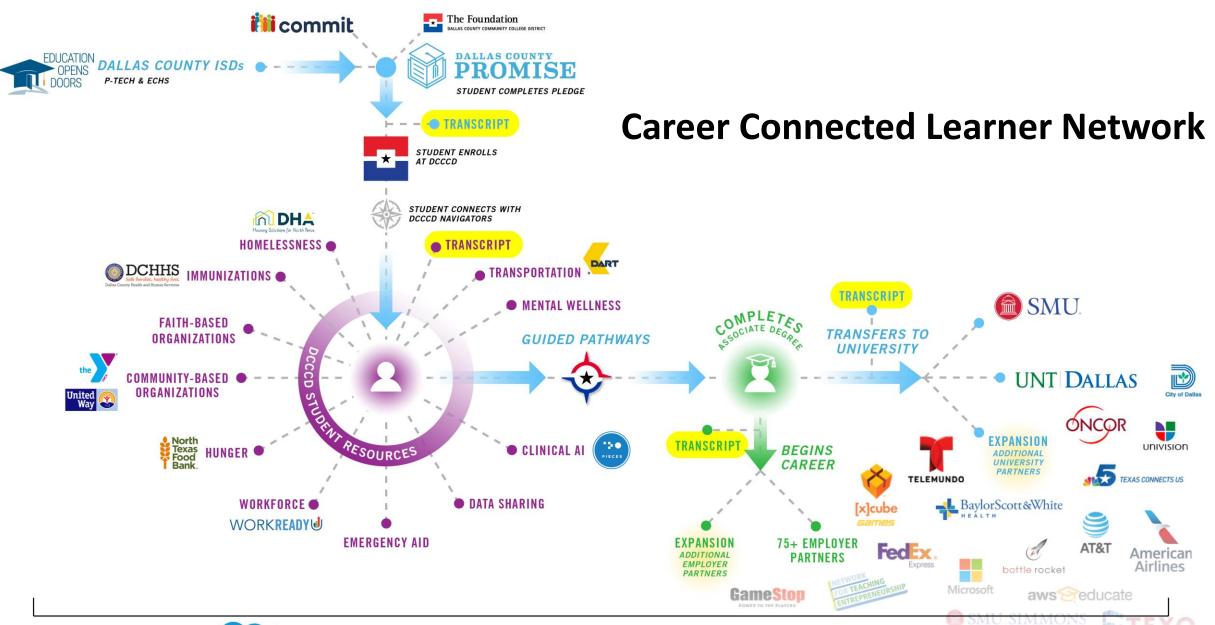


Partners may issue credentials including badges, industry-based certifications, and degrees.



Students may share evidence of learning with others without intermediaries in the verification process.









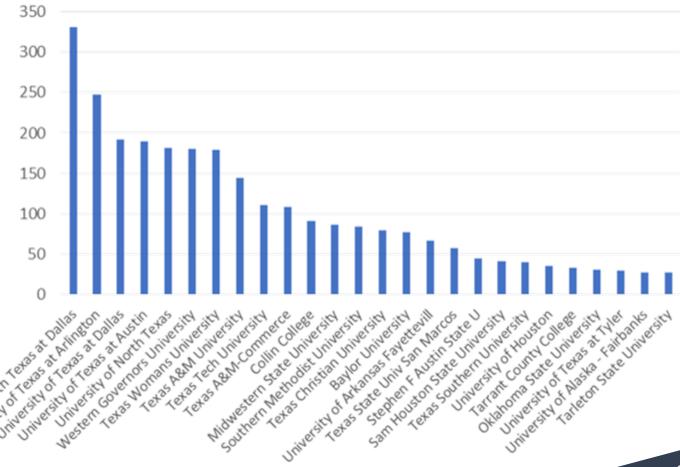




GreenLight at DCCCD

- Over 1.75M unique student records on the GreenLight platform.
- Over 17,000 students now control their academic records and have shared their trusted credentials with over 500 colleges nationwide.

Top Receiving Institutions





GreenLight instantly delivers unified and trusted learning records.

GreenLight allows for **instant access** to verified records.

Speed Up & Simplify Applicant Record Processing



GreenLight helps colleges **expand their partnerships with high schools**through dual degree programs.

Greenlight helps speed up the enrollment process because the multistep process is eliminated.

GreenLight gives colleges more opportunities to discover and enroll qualified students.

Enroll More Qualified Students



GreenLight gives transparency into credits earned and needed for a degree to students, two-year and four-year colleges.

Degree-granting institutions can award more degrees through GreenLight's automated alerts.

Streamline Reverse Transfer of Credit



GreenLight opens more doors for internships, apprenticeships and employment by making it possible for employers to find students excelling in specific courses, programs or areas of interest.

GreenLight verified records enable faster hiring decisions.

Greater Access to Internships, Apprenticeships & Employment



Growing Network

More than 17,000 students have shared their records with more than 500 academic institutions nationwide.





Thank You



