

Learning and Employment Records Powered by CTDL



We encourage reuse and remix of this resource with attribution

www.credentialengine.org

Credential Transparency Illuminates Paths to a Better Future



There are 1 million credentials offered in the U.S. With so many to choose from—and without widespread adoption of standards for comparing and evaluating them—people get lost and lose out on opportunity. Together, we and our partners are working to build a linked open data network that everyone can access for timely and trusted information about credentials.

CREDENTIALS

Credentials include diplomas, badges, certificates, licenses, apprenticeships, certifications, and degrees of all types and levels that represent key competencies signaling what a person knows or can do.

WHAT: TRANSPARENCY

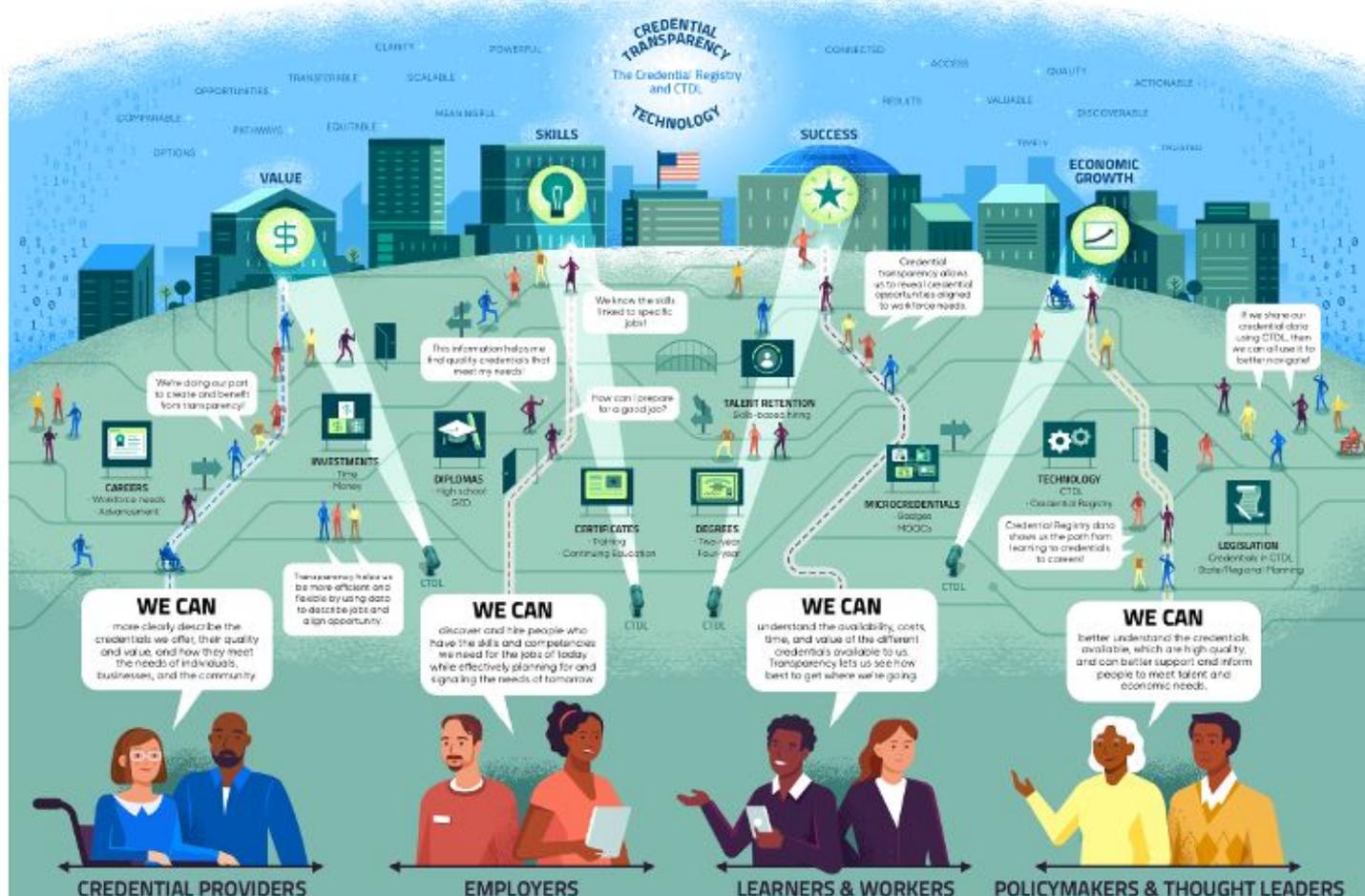
Credential transparency makes essential information about credentials and competencies public, easily accessible, and actionable so that credentials can be better understood and pursued based on what it takes to earn them, what they represent, and the jobs they can lead to.

HOW: TECHNOLOGY

Credential transparency is made possible by technology. The **Credential Transparency Description Language (CTDL)** schema allows us to catalog, organize, and compare credentials and related information. Credential data from authoritative sources using CTDL is openly available in the **Credential Registry** for anyone, anytime, anywhere to search and compare credentials.

WHY: PATHWAYS

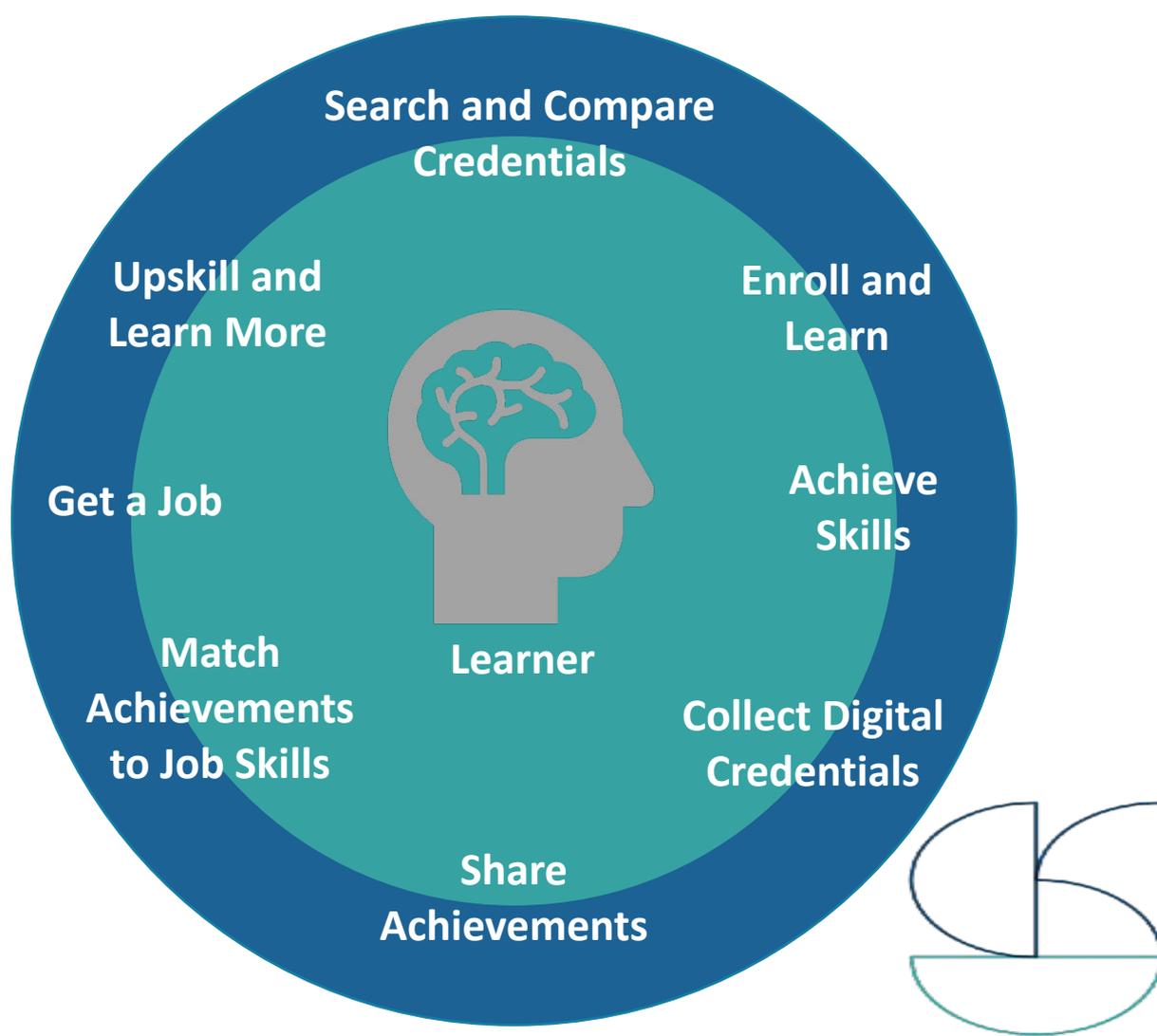
The easier it is to access and use comparable information about credentials, the easier it is for people to find the most effective paths to learn the right skills and find the best jobs. Credential transparency ensures equitable information about quality pathways to opportunities, makes those pathways discoverable, and empowers individuals along the way.



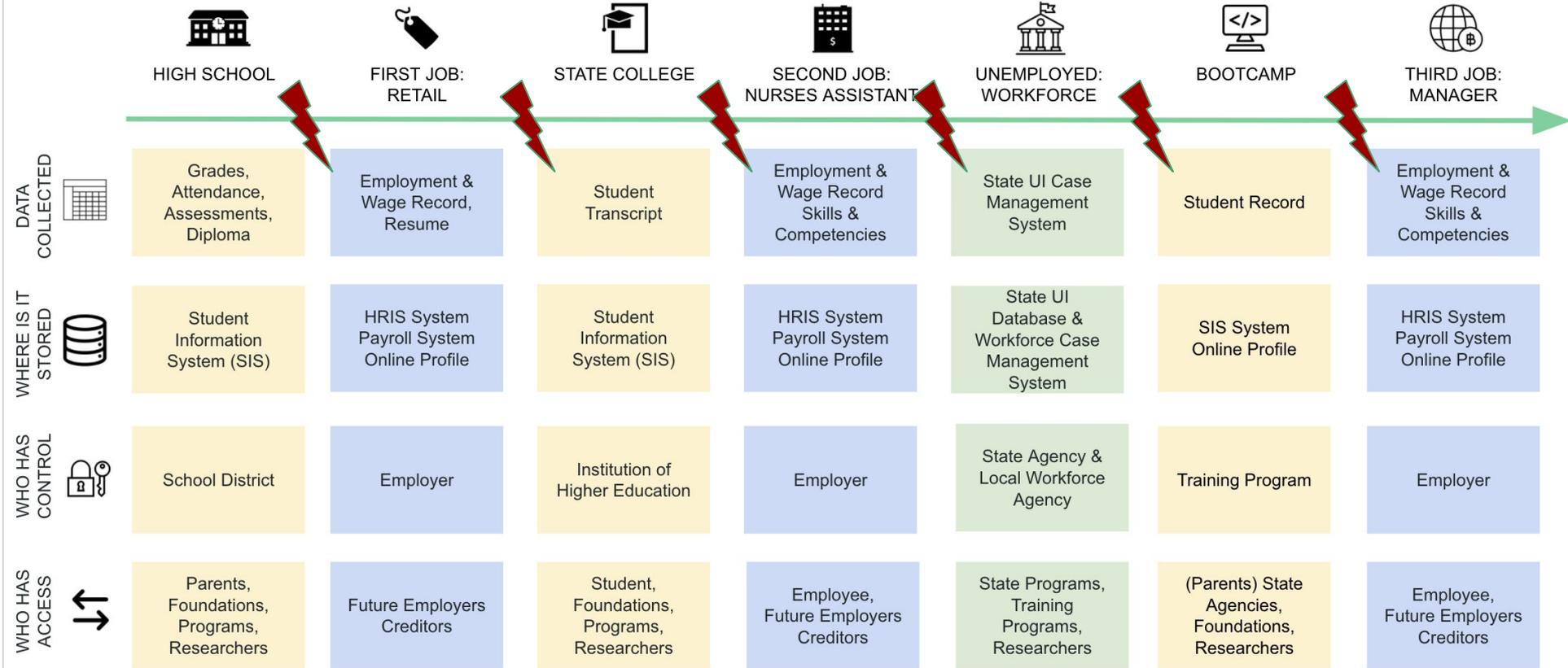


Learners are central to the ecosystem

Connecting credentials and skills across lifelong learning and career opportunities



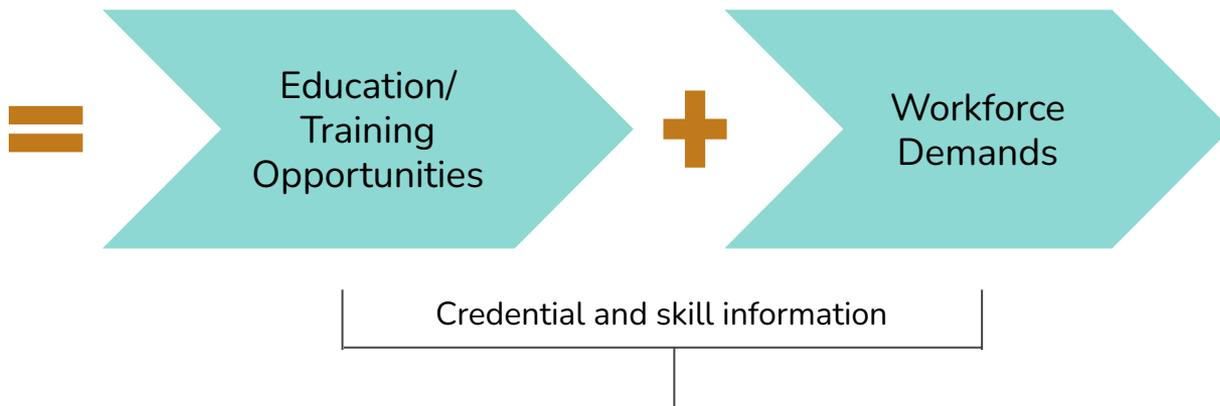
Disconnected learn and work records





Connected learn and work records

Credential
and skill
transparency



Powered by the Credential Transparency Description Language (CTDL) and uploaded to the Credential Registry

- Open
- Linked
- Trusted
- Accessible
- Useful
- Relevant





Learning and career pathway connections





What are Learning and Employment Records (LERs)?

“A Learning and Employment Record (LER) is a digital record of learning and work that can be grouped together with other individual LERs for use in describing their abilities when pursuing education and employment opportunities. An LER can document learning wherever it occurs, including at the workplace or through an education experience, credentialing, or military training. It can also include information about employment history and earnings.” ([T3 LER hub](#))



- Digital records of learning from diverse sources
- Verifiable and secure
- Controlled and shareable by the individual
- Interoperable: transferable, meaningful, and machine-actionable across education and employment systems and processes





Global Open Standards

Standards support full transparency and interoperability of LERs:

- **W3C Verifiable Credentials and Wallets**
 - VCs for universal “envelope” data
 - VC wallets for collection and storage of LERs
- **Open Badges 3.0**
 - For organized content packaging of single records
- **Comprehensive Learner Records 2.0**
 - For organized content packaging of multiple records
- **Credential Transparency Description Language (CTDL)**
 - For meaningful linked open data so that LERs can be usefully understood and applied

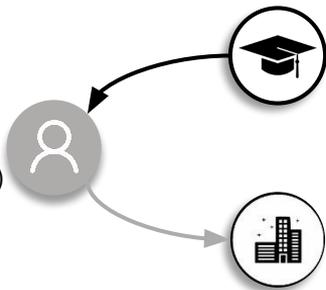


How do LERs work as verifiable digital credentials owned and controlled by the individual?

Making it simple for people and organizations to exchange verifiable, trusted career credentials.

[Velocity Network Foundation](#)

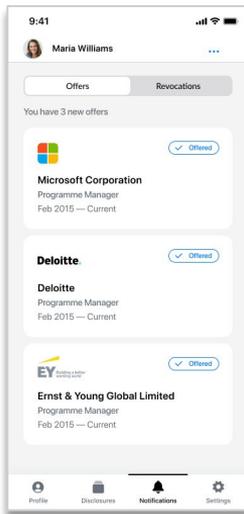
Workforce
(individuals)



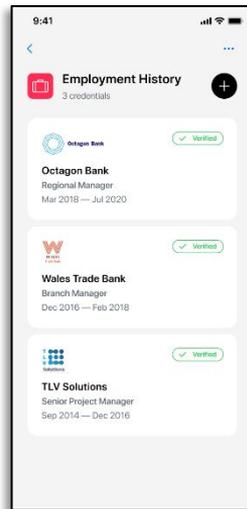
Issuing Parties
(employers, educators issuing digital credentials)

Relying Parties
(employers, educators receiving digital credentials)

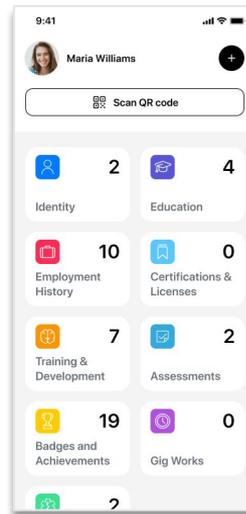
Claim digitally signed records from your work or college to build a verified career portfolio.



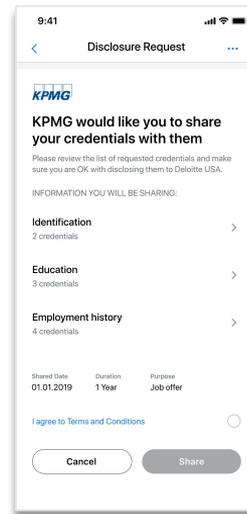
Stack proofs of your employment history, educational background, skills, and qualifications.



Organize all your career and education credentials. Store them privately.



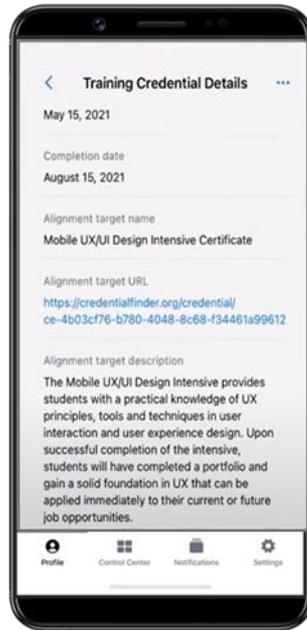
Control who you share your records with.



LERs use human- and machine-readable data in the Credential Transparency Description Language (CTDL)

Making it simple for people and systems to exchange meaningful information in career credentials.

Credentials can be aligned and linked to the Credential Registry, which hosts rich linked open data about credentials, including their skills and occupational alignments.



Inclusive Design Principles for Learning and Employment Records



1. Individuals can share evidence of their **skills** and **competencies**, in addition to work history.



2. Demonstrate **learning progress over time**, not just one point in time, such as degree completion.



3. Individuals can **control** how their information is presented and shared.



4. Address **safety and privacy concerns**, especially for historically and systematically marginalized individuals.



5. Prioritize lifelong **access** and ease of **use**.

[Learning and Employment Records for Greater Equity](#)



Power your LERs with CTDL

1. Define requirements for valuable information you can provide that makes your LERs valuable.
2. Organize your data about credentials, competencies, occupational alignments, etc. from one or more sources.
3. Design your LERs to use CTDL schemas, and for existing data, map it to CTDL schemas.
4. Include CTDL in the digital records that you issue to individuals.
5. Use CTIDs with Registry data to link to rich credential and competency information from within LERs.
6. Publish your credential and competency data as CTDL to the Registry and the Web.

See your LERs come to life in the ecosystems of linked open data across the web.





For More Information



Scott Cheney
Executive Director
scheney@credentialengine.org



Jeanne Kitchens
Chief Technology Services Officer
jkitchens@credentialengine.org



Deb Everhart
Chief Strategy Officer
deverhart@credentialengine.org



Website: credentialengine.org
Email us: info@credentialengine.org
Technical Information: credreg.net
Credential Finder: credentialfinder.org

   Find @CredEngine on Social Media

