



Learning Economy Foundation and Credential Engine Joint Services ***Scaling LER Ecosystems with Linked Open Data and LearnCard***

Privacy-preserving digital wallets powered by verifiable Learning and Employment Records (LERs) can enable more equitable access to education and employment opportunities in an increasingly dynamic and ever-evolving labor market. By giving individuals ownership and control of their unique skills, achievements, and credentials, we ensure learners are empowered by their personal data. Now more than ever, it's critical that we center our collective investments on systems and applications that prioritize equity, mobility, and agency through data transparency.

As mission-aligned non-profits, Learning Economy Foundation (LEF) and Credential Engine (CE) are excited to announce a partnership and joint services offering. For years, CE and LEF have been working in parallel to empower learners and accelerate the adoption of open tools and protocols that enable individual agency and organizational insights. Together, LEF and CE now bring a complementary package of technologies and best practices to states, post-secondary institutions, employers, and any organization looking to make ecosystem-level impact at scale.

A description of services for scaling your LER ecosystems with linked open data and LearnCards is below. These offerings can be customized and combined with additional partners and services to address specific stakeholder needs and goals.

Project Management and Strategy

- Provide overview explaining CE's and LEF's respective mission, approach, technologies, and resources
- Facilitate stakeholder workshop(s) to align on project goals and intended outcomes
 - o Define a primary use case and scaling strategy
 - o Identify how LERs, linked open data, and digital wallet infrastructure can support your unique ecosystem needs
 - o Define intended impact, key performance indicators, and unique value propositions for ecosystem stakeholders/organizations
 - o Define project plan, milestones, and success metrics
 - o Identify potential barriers and other aligned opportunities.
- Contribute to the development of a budget, work plan, and timeline
- Convene regular progress and strategy meetings as needed or required

LEF Support Services

LEF partners with organizations, both domestically and internationally, to translate leading-edge technologies into transformative learning and economic systems. By deploying open, interoperable technologies and protocols (e.g. [LearnCard](#)), LEF helps you to reimagine LER infrastructure centered on equity, mobility, privacy, and individual agency.

LEF Protocol Social Guidance

- Provide overview and resources that explain the Internet of Education (IoE) and the LEF Protocol for a diverse range of project stakeholders
- Steward a collaborative, action-oriented community of practice

- Offer a proven, ecosystem-first project management and problem-solving methodology
- Host community events and webinars featuring globally renowned subject matter experts in the education, policy, and web3 spaces
- Access thought leadership from LEF's global network of advisors

LEF Protocol Technical Guidance

- Provide technical resources and documentation that helps to prepare, educate, and empower project stakeholders
- Offer guidance on the setup and deployment of our open, interoperable universal digital wallet (frontend/backend) for your LER ecosystem
 - Provide UX designs to show how web/mobile application will look and function
 - Deploy *Digital Wallet Infrastructure* for verifiable proof of skills and credentials
 - Deploy custom content tied to Verifiable Credentials and IDs
 - Deploy verifiable jobs content and custom pathway maps
 - Support the education and onboarding of learners/earners
 - Issue credentials and unlock jobs/opportunities
 - Collaborate on proposals for scale and sustainability

You're not starting from scratch! Leverage a robust developer community and a growing library of free and mature projects, plugins, and protocols.

- **SuperSkills!** (quest-based learning for kids)
- **Metaversity** (K-12 + post-secondary pathways)
- **This could be YOU!**

Credential Engine Support Services

Credential Engine partners with you to ensure your credentials and pathways are built with human- and machine-readable data that enables transparent understanding of connections and progression towards equitable opportunities.

Registry Publishing Technical Guidance

- Provide overview and resources that explain Credential Engine's technologies for your stakeholders
 - Introduction to the Credential Transparency Description Language (CTDL) and the Credential Registry to non-technical stakeholders
 - Introduction to CTDL and the Registry to technical stakeholders
 - Introduction to CTDL terms and data structure beneficial to LERs and pathways
 - Provide CTDL and Registry examples supporting the primary use case.
- Demonstrate publishing options and processes for getting started
 - Review the minimum and benchmark data policies
 - Provide an overview of LER credentials and pathway publishing
 - Provide publishing how-to documentation
- Assist with organizing data and preparing it for publishing
 - Identify minimum data that is needed to achieve defined goals
 - Identify pathway publishing steps and stakeholder roles
 - Review technical requirements
 - Guide the team in identifying sources of credential and pathway data
 - Assist the team in collecting and/or formatting data to prepare it for publishing
 - Provide a detailed technical review of data formatting correctness for up to 15 credentials and 3 pathways as part of the preparation for publishing

- Assist with publishing credentials and pathways
 - Provide a detailed walkthrough of publishing one of the team's pathways and its credentials
 - Provide oversight and assistance for the team to publish up to 2 additional pathways and their credentials
 - Review the published credentials and pathways for technical correctness and conformance to Registry guidelines

Project Wrap-up + Scaling Strategy

- Facilitate project conclusion review meeting
- Assist with sustainability and scaling strategies (identifying additional use cases, ongoing funding opportunities, and connecting to other organizations or projects)
- Discuss how to add value to this work such as:
 - Individuals can explore how their own digital credentials connect to existing and dynamic pathways
 - Education and training providers can communicate that the credentials they offer are connected into pathways that have valuable destinations
 - Curriculum developers can contextualize their instructional, assessment, and credentialing innovations
 - Institutions can build organizational commitment to the intended, transparent outcomes of each credential
 - Agencies can review the value of education and training programs for reskilling workers
 - Career services and pathway tools can help people match skills and training to jobs
- Identify specific next steps
- Provide an overview of Credential Engine and LEF resources, technologies, and services to support next steps

For more information:

Taylor Kendal, Learning Economy Foundation // taylor@learningeconomy.io
 Deb Everhart, Credential Engine // deverhart@credentialengine.org

Together we are stronger than the sum of our parts!