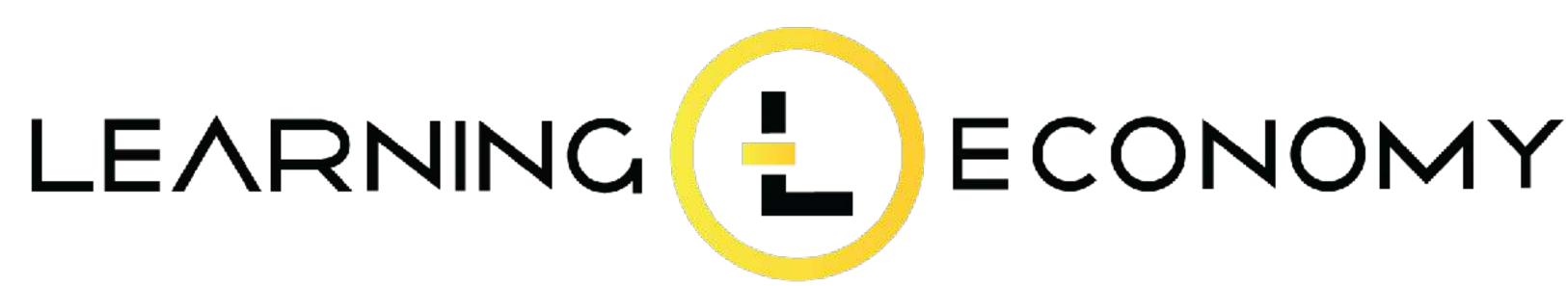


Stakeholder Action Guide

May 2020









The C-Lab aims to provide the state of Colorado with an aligned but decentralized ecosystem for collaborative innovation, investigation, and experimentation around the future of education and employment.

This **2020 Action Guide** acts as a shared community roadmap and alignment framework for reference and harmonization across a growing community of stakeholders. The **Stakeholders** and **Pilots** outlined below represent a synthesis of identified opportunity and community feedback gathered at/after the <u>C-Lab Kickoff</u> event on January 30, 2020. We hope the kickoff event, this Action Guide, and a range of aligned work to come in 2020, helps to position Colorado as a national leader in next-generation state infrastructure.

If you have questions, concerns, or aligned initiatives to share, please email Taylor Kendal: taylor@learningeconomy.io or Spencer Ellis: spencer.ellis@dhe.state.co.us.



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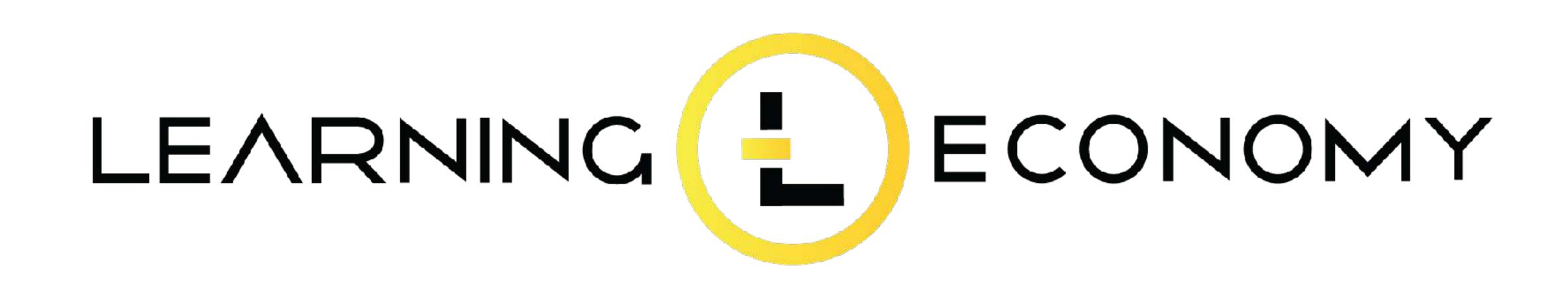
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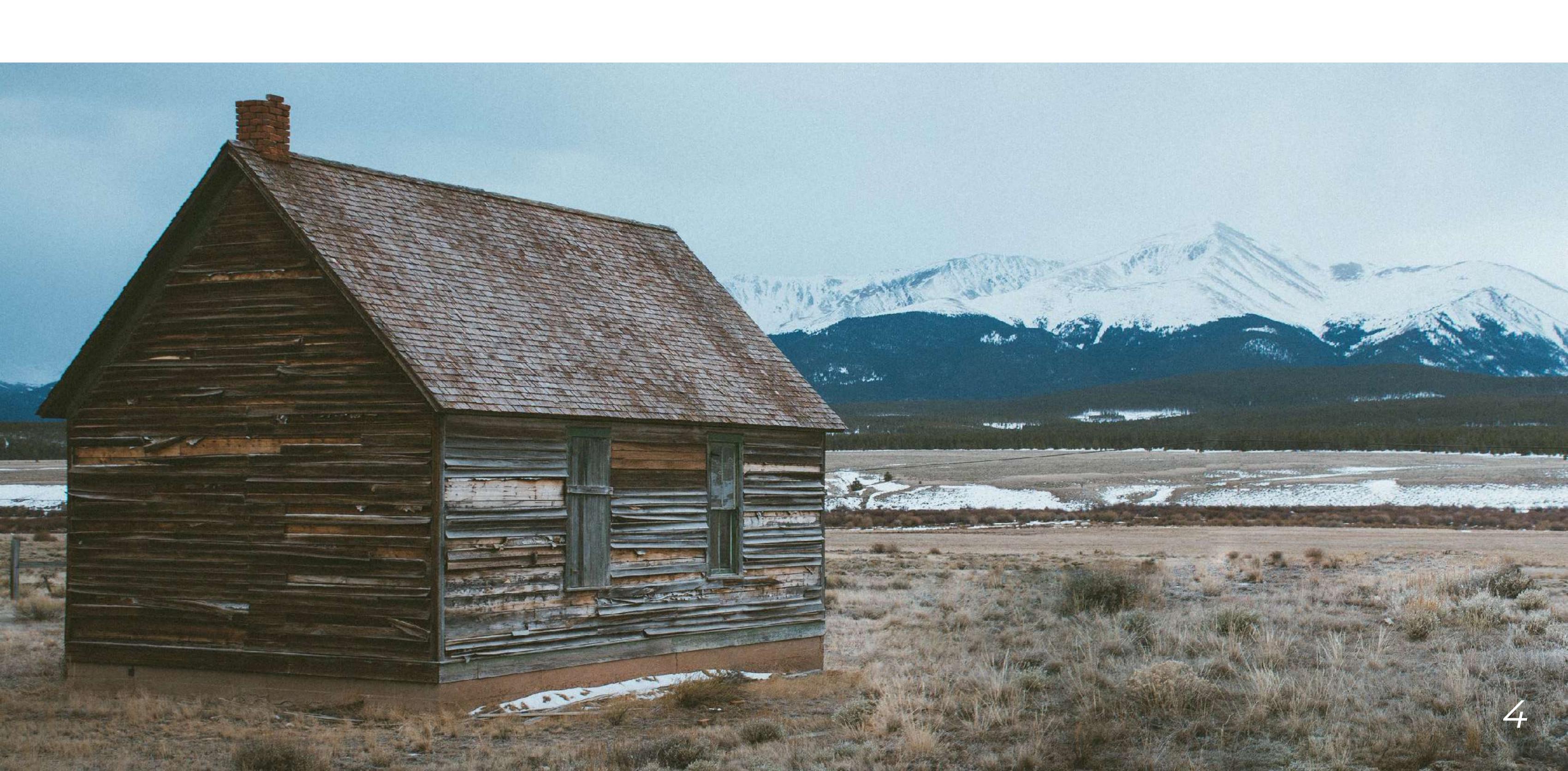


Collaboration Leads



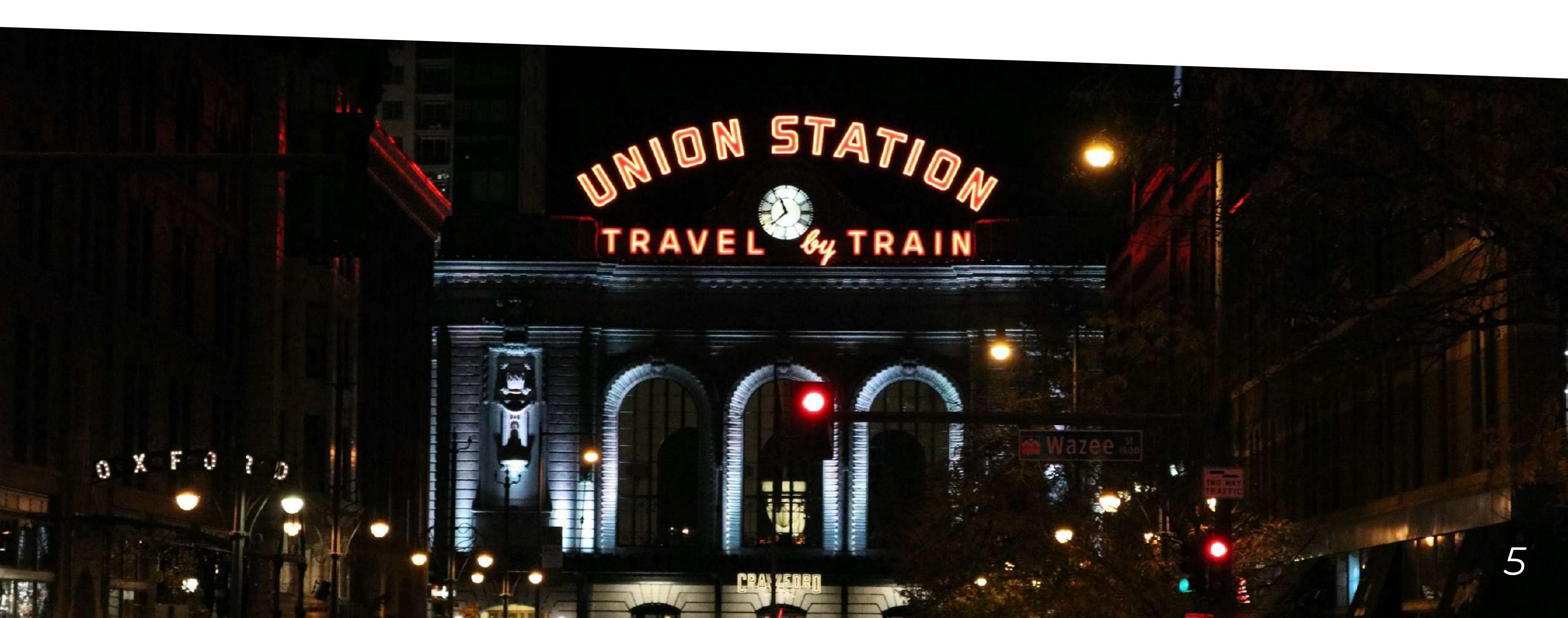






Objectives

- 1. Identify and align a statewide consortium of stakeholders and pilots.
- 2. Shape and define C-Lab's core governing principles.
- **3. Support and advance** the adoption of applicable open specifications and standards. (e.g. <u>W3C VCs/DIDs</u>, <u>IEEE LTSC</u>, <u>Emsi Skills</u>, <u>Credential Engine CTDL</u>, <u>CEDS</u>, <u>IMS Global OBv2</u>, etc.)
- 4. Establish and scale a statewide pilot network and next-generation MVP digital trust architecture.
- **5. Seed and support** a student-centered education and advocacy network focused on equity, access, and enduser needs.



Pilots & Scope

Pilot 1: Digital Wallets/Portable Degrees

- What: Portable Degrees in a Student-owned/ controlled Digital Wallet
- Who: 6 Universities, 2 Colleges, 2 Workplaces
- When: Anticipated Pilot Period → Aug-Dec 2020

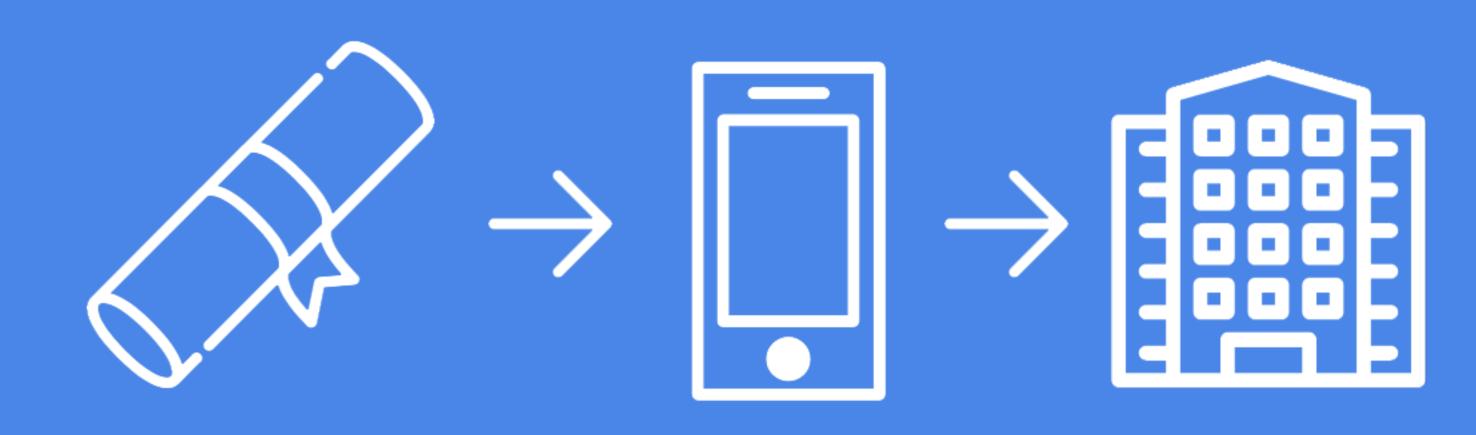
Pilot 2: Skill Libraries/Portable Credentials

- What: Skill & Credential Assertions in a Studentcontrolled Digital Wallet
- Who: 1 College, 1 University, 2 Workplaces
- When: Anticipated Pilot Period → 2021-2022



User Stories -

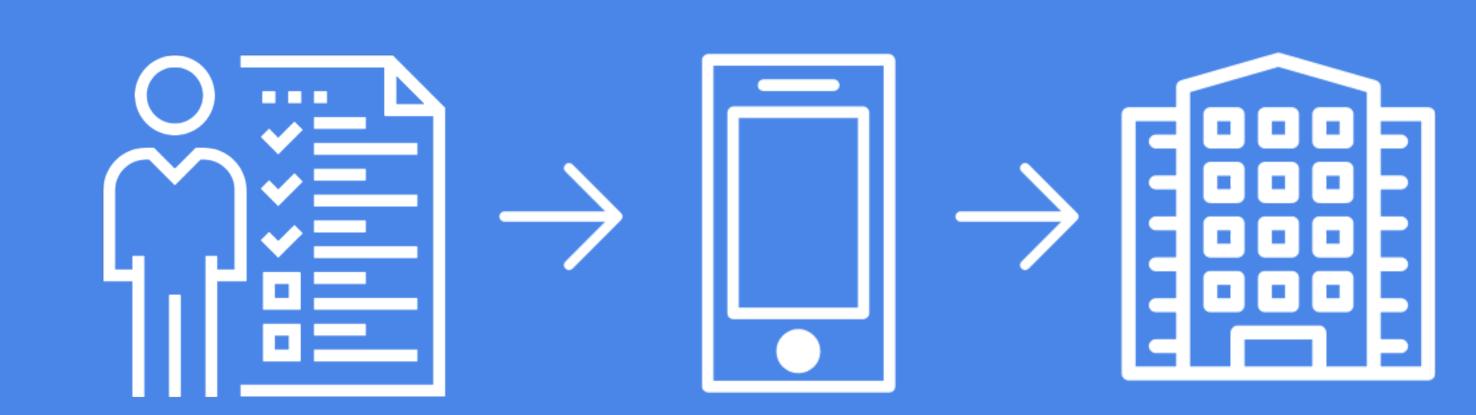
Pilot1



As a student, I can save and access my educational achievements (i.e. degrees) on a personal device and easily share them with select learning institutions and/or potential employers.

As a workplace or learning institution, I can easily verify the accuracy and integrity of an achievement/degree in real-time.

Pilot 2



As a student, I can save my educational achievements and skills on my personal device and share them directly with learning institutions and/or employers.

As a workplace or learning institution, I can easily verify, with trust and integrity, an individual's educational achievements, credentials and/or skill assertions in real-time.

2020 Convenings & Calls

C-Lab Pulse Call (Local)

Monthly, every third Wednesday at 12PM MST (60 min.)

Ed 3.0 Research Network Call (National)

Monthly, every third Friday at 11AM MST (60 mins.)

C-Lab Developer Call

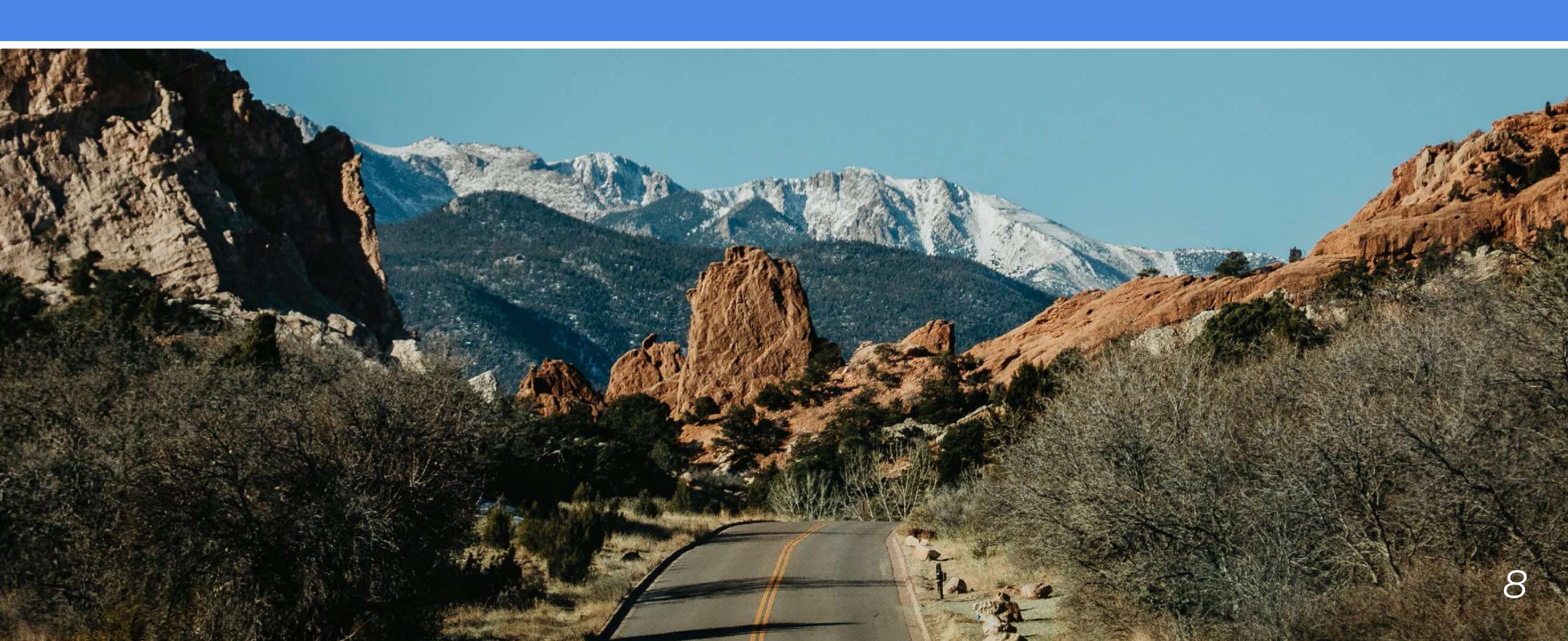
Bi-monthly, Date/Time TBA (30 min.)

C-Lab Stakeholder Call

Bi-monthly, Date/Time TBA (30 min.)

C-Lab Stakeholder Summit

Fall 2020 (Date TBA)



General Timeline



Draft C-Lab Kickoff Summary
Charter & Action Guide



Finalize & Distribute Kickoff Summary



Finalize & Distribute Action Guide



Pilot 1: Portable Degrees



C-Lab Stakeholder Summit



Pilot 2: Portable Skill Assertions

2020 and Beyond

The shared vision of **Learning Economy**, **OIT**, **CDHE**, and many collaborating organizations and stakeholders is to support and accelerate existing state initiatives (e.g. **MyColorado**, **My Colorado Journey**, etc.) and launch a sustainable, multi-system, multi-agent, Learning GPS ecosystem in Colorado; one that prioritizes agency, equity, and economic mobility for all. The **C-Lab Consortium** begins this work in 2020 by building community, gathering stakeholder feedback (most critically that of students), and piloting a student owned/controlled Digital Wallet for degrees and educational achievements. The **T3 Innovation Network ILR Pilots** (U.S.), **Broward OpenCLR Lab** (FL), the **Trusted Learner Network** (AZ), along with an evolving network of related projects globally, will help to further this work in 2020 with complementary explorations of Identity & Trust Networks, Dynamic Skill Libraries, and localized implementations of Learning GPS Infrastructures.

In 2021, we envision a Skills Library connecting the local ecosystem to a broader data and content set, allowing a range of learning management systems and credential registries to aggregate into a dynamically curated, decentralized library. In 2021 and 2022, as the ecosystem scales and sufficient data is made available across the state, we can imagine an optimized, personalized Learning and Career GPS which helps learners effectively navigate the complex education to employment landscape and achieve their unique dreams and goals. With optimized learning impact data and quantifiable skills being treated as valued assets, in 2022-2023 we envision a statewide ecosystem where knowledge and skills become as valuable and transferable as today's currency.



Consortium Member - Commitments

Consortium members agree to the guiding principles referenced in the Education 3.0 Research Network (E3RN) Internet of Education (IoE) Metasystem Governance Framework and to commit (at minimum) one point-person to the relevant monthly and/or bimonthly call(s). Specific pilot expectations will be codefined with key C-Lab service partners and facilitators.

Pilot participation commitments will be co-defined for each stakeholder with C-Lab core facilitators.

If you have questions, please email Taylor Kendal: taylor@learningeconomy.io or Spencer Ellis: spencer.ellis@dhe.state.co.us.



C-Lab Ecosystem

The following Ecosystem Map organizes registered C-Lab member stakeholders into distinct but complementary pilot ecosystem layers. While this map represents our interpretation of the core ecosystem service partners, we understand that the list is not comprehensive and subject to change as pilot work evolves. If you have suggested updates and/or additions, please email Taylor Kendal: taylor@learningeconomy.io

Interested in getting involved? Register here: https://www.learningeconomy.io/clabregistration

Digital Credentials

Trust Infrastructure

User Experience & Equity

Credential Distribution

Outreach & Awareness

Investigation & Analysis



Digital Credentials

ECOSYSTEM LAYER	LAYER STAKEHOLDERS
Credential Registry	Credential Engine
	Concentric Sky / Badgr
Skills Registry	Emsi Skills
	IMS CASE Network
	Open Skills Stack
Credential Assertions	Concentric Sky / Badgr
	Digitary
Skills Assertions	Credly
	General Assembly
Interoperability	ADL Initiative
	EP3 Foundation / GG4L
	HR Open Standards
	IEEE
	IMS Global
	Linux Foundation/Hyperledger
	MIT Digital Credential Consortium
	PESC
	Public Consulting Group
	T3 Innovation Network
	Trusted Learner Network
	W3C

Trust Infrastructure

ECOSYSTEM LAYER	LAYER STAKEHOLDERS
SSI	Evernym
	Sovrin Foundation
	Linux Trust Over IP Foundation
Digital Identity	MyColorado App
Access & Trust	Brighthive
	Salesforce
	Trusted Learner Network
Security	Edspex
	Unbound
Cloud	Amazon Web Services



User Experience & Equity

ECOSYSTEM LAYER	LAYER STAKEHOLDERS
Digital Wallet	Evernym
	MyColorado App
	RANDA Solutions
	StreetCred
	WeLibrary
UX/Human-Centered Design	Desklight
	Education Design Lab
	Karanga
	ScienceAtHome
	Stanford d.school
	Denver Public Libraries
	Library Blockchain Research Network
	WICHE + WCET



Credential Distribution

ECOSYSTEM LAYER	LAYER STAKEHOLDERS
Workplace Distribution	Moonlight
	Opolis
	Salesforce
	Emsi
Career Pathways	My Colorado Journey
	Odigia
	Velocity Network
Data Governance	BrightHive
	Linux Trust Over IP Foundation
Ecosystem Governance	Learning Economy Foundation
	Velocity Network
	Arapahoe Community College
	Colorado Community College
	CU Boulder
	CU Colorado Springs
	CU Denver / Inworks
Learning Systems/Institutions	Denver Language School
	Emily Griffith Technical College
	MSU Denver
	Norwich University
	Odigia
	Peak to Peak
	Regis University
	Trinidad State Junior College
	University of Denver
	Western Colorado University
Employers	Deloitte
	Goodwill Industries
	Walmart

Outreach & Awareness

ECOSYSTEM LAYER	LAYER STAKEHOLDERS
Communications	Colorado Department of Higher Ed
	Diplomatic Courier
	Ed 3.0 Research Network
	Learning Economy Foundation
	Whiteboard Advisors
Videos & Media	Ringbeller
Conveners	Colorado Department of Higher Ed
	Ethereum Denver
	Global Blockchain Summit
	GlobalMindEd
	Global Blockchain Summit
	Learning Economy Foundation
	U.S. Department of Education OET
	Whiteboard Advisors



Investigation & Analysis

ECOSYSTEM LAYER	LAYER STAKEHOLDERS
Researchers	Arizona State University
	Brookings Institution
	Center for Hybrid Intelligence
	CO Evaluation and Action Lab (Colorado Lab)
	Education Commission of the States
	Learning Economy Foundation
	Linked Information Network of CO (LINC)
	WICHE + WCET

