Integrity matters. Privacy matters. Learner-centric ideologies matter.
Contents

Case in Brief 1
Today’s Challenges 2
Mission Overview 3
The Internet of Education 4
Education in 2030 5
Quantifying Impact 6
Mandates & Ed 3.0 Network 7
History & 2020 Programs 8
— Implementation Labs 9
— Systems Harmonization 10
— Open Sources & Standards 11
— Applications & Utilities 12
Governance 13
Learning Economy’s Charge 14
36 Month Fundraising Goal 15
Two years ago, Learning Economy envisioned education as the new gold standard—a market economy, built on the quantified value of learning and skills, that could solve some of our toughest challenges in education and employment. Since then, after conducting research, running pilots, and convening with global leaders in education and work, our mission evolved—to accelerate the world toward 22nd century-ready education and workplace infrastructures in a way that is learner-centered and empowers every stakeholder. It was clear that for Learning Economy to accomplish its mission it couldn’t be profit-driven, but rather a clearinghouse of value for public good.

In October 2019, Learning Economy converted to not-for-profit status to achieve this mission.

In 2020, education and work will collide at an exciting and unprecedented inflection point. The plans have been laid; the relationships formed; the Internet of Education is coming. In January, the Education 3.0 Network will launch and Learning Economy will begin launching statewide and national labs around the world to continue our mission through pioneering research, convening thought leaders and policymakers, and developing and scaling exponential technology for the public good.
TODAY’S EDUCATION AND EMPLOYMENT ECOSYSTEM IS COMPLETELY FRAGMENTED.

<table>
<thead>
<tr>
<th>Researcher</th>
<th>Institute</th>
<th>Research</th>
<th>Pedagogy, Curriculum &amp; Content</th>
<th>School</th>
<th>Teacher</th>
<th>Learning Management System</th>
<th>Assessment</th>
<th>Employer</th>
</tr>
</thead>
</table>

A BROKEN SUPPLY CHAIN

SYSTEMS & DATA—Total Fragmentation
MAPPING—Only By Relationships
INFO TRANSFER—Email & Web Portal Uploads

CHALLENGES IN 2020

Skills Gaps Are Growing
Learning & Workplace Data is Fragmented
Learner & Employee Data is Inaccessible

Pain points of a fragmented Supply Chain.

Human Capital Investment Is Guesswork
Opportunity/Equity Gaps are Growing
Stakeholders Duplicate Effort Instead of Collaboration
Learning Economy is a U.S. based not-for-profit organization with a mission to accelerate the world toward 22nd century-ready education and employment infrastructures, vigilantly protect learner and employee equity, and connect, curate, and scale the fragmented ecosystem of stakeholders into a unified hub of innovation.

**KEY PERFORMANCE DRIVERS**

- Pioneering Research
- Convening Leaders & Policy Makers
- Exponential Technology
We now understand new models for quantifying value, proving the impact of every influencer in the life of a learner, measuring lifelong learning journeys, and transferring skills across borders. We know how to create learner-controlled universal learner portfolios. We know how to empower governments and institutions to benchmark for impact when they invest in humans, in schools, and in learning. We finally know how to measurably solve skills gaps and connect the fragmented landscape of education and work into a unified ecosystem. All this, without sacrificing the value of proprietary stakeholder data or learner privacy. The knowledge economy, predicted decades ago, can finally be realized.

A Decentralized Education & Work Protocol

Learning Economy curates and scales public good technologies by convening a neutral network of partners, open source developers, and stakeholders. Exponential technologies and algorithms like Distributed Ledgers, Machine Learning, APIs, Self Sovereign Identity, and Differential Privacy each play a role in this 22nd century-ready Internet of Education infrastructure.

The Internet of Education transfers information and value between k-12 schools, higher ed, online learning, and employment. The goal—increase the impact of investment in humans, solve equity gaps, and empower learners and employees with better access to their data.
EXPONENTIAL TECHNOLOGIES ALLOW FOR A DECENTRALIZED BUT UNIFIED SUPPLY CHAIN.

A VALUE CHAIN

LEARNING ECONOMY

DATA—Decentralized & Unified
MAPPING—Neural Net Pathways
TRANSFER—Universal Infrastructure

EDUCATION IN 2030

Skills Gaps Are Solved
Learning & Workplace Data is Interoperable
Learners Own Their Universal Learner Portfolio

Benefits of a unified Value Chain.

Real Time Data Empowers Human Capital Investments
Every Human Has Equitable Access to Education
Stakeholders Share in a Collaborative Ecosystem
THE FUTURE WILL **QUANTIFY THE IMPACT** OF INVESTMENT IN HUMAN CAPITAL

**REAL OUTCOMES DATA**

Quantify which units of learning & assessments produce impact.

**THE FULL VALUE CHAIN**

Quantify the impact of every influencer in the life of a learner.
THINK OF LEARNING ECONOMY AS THE MUNICIPALITY FOR EDUCATION CITY

OUR MANDATE

— Map Ecosystem Borders
— Lay Open Data Plumbing
— Support A Utility Marketplace
— Define Charters & Govern
— City Planning & Research
— Cultivate Community
— Public Buildings (Our Apps)
— Private Buildings (Other Apps)
— Support Competitive Industry

TODAY’S LANDSCAPE

EDUCATION 3.0 NETWORK

The Ed 3.0 Network provides a neutral network for every stakeholder in education and employment. It also provides a bridge for the many decentralized learner and worker ecosystems, connecting all stakeholders, pilots, and projects into one unified Internet of Education and collaboration.

Stakeholder Nodes
— K-12 Schools
— Colleges & Universities
— Online Learning
— Libraries
— Government Agencies
— Employers
— Institutes & Orgs
— Philanthropists
— Tech & Services
— Content & Curriculum

Ecosystem Nodes
— National Ed 3.0 Labs
— Statewide Ed 3.0 Labs
— District Ed 3.0 Labs
— Data Standards Groups
— Open Source Communities
— Digital Credential Groups
— Workgroups & Task forces
— Education Advocacy Groups
— School Groups
— Associations & Collaboratives
KEY MILESTONES

Sept 2018 / Learning Economy Announced at UNGA
Nov 2018 / Cover Story Feature by G20
Jan 2019 / Announced Pilots & Steering at Davos
Jan 2019 / Education 3.0 Workgroup launches.
April 2019 / Regulation Research at Harvard
May 2019 / Student Equity Research at CMC
June 2019 / G20 Coverage on Regulation Study
Oct 2019 / Launched Learning Library App Demo
Dec 2019 / Launched Learning Wallet App Demo
Jan 2020 / Announce Labs & Ed 3.0 Network at Davos

LEARNING ECONOMY’S 2020 PROGRAMS

IMPLEMENTATIONS & COMMUNITY

Ed 3.0 Labs • Decentralized Learning Implementation Ecosystems
Ed 3.0 Network • The Internet of Education: A Network of Nodes

PROTOCOLS & APPLICATIONS

IEEE ILR • Universal Translator for Learner And Worker Record Systems
Open Source • Support And Develop Ed 3.0 Open Source Technologies
Utilities & Apps • Support Common Ed 3.0 Utilities & Applications
Learning Economy Labs are district, state, and nation wide MVP ecosystems for piloting, research, and scaling 22nd century-ready education and workplace infrastructures. Each Lab results in public good technologies like learning ledgers, skills graphs, and learner wallets, as well as state and national implementation reports.

<table>
<thead>
<tr>
<th>LAB PROGRAMS</th>
<th>LEARNING ECONOMY</th>
</tr>
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<tbody>
<tr>
<td>3rd Party Pilots</td>
<td>Community Pilots</td>
</tr>
<tr>
<td>Foundational Pilots</td>
<td>Identity, Governance, Equity, Credentials</td>
</tr>
<tr>
<td>Workgroups</td>
<td>Employee Pathways, Learner Pathways</td>
</tr>
<tr>
<td>Research</td>
<td>Pathways, Causal Assessment Models</td>
</tr>
<tr>
<td>Unify Supply Chain</td>
<td>3 Schools, 3 Employers</td>
</tr>
<tr>
<td>Phase 1 (6 Months)</td>
<td>Community Pilots</td>
</tr>
<tr>
<td>Phase 2 (6 Months)</td>
<td>Community Pilots</td>
</tr>
<tr>
<td>Phase 3 (1 Year)</td>
<td>Community Pilots</td>
</tr>
<tr>
<td>Phase 4 (1 Year)</td>
<td>Community Pilots</td>
</tr>
</tbody>
</table>

- **3rd Party Pilots**
  - 3 Schools
  - 3 Employers

- **Foundational Pilots**
  - Identity, Governance, Equity, Credentials

- **Workgroups**
  - Research, Fundraising
  - Dev Specs, Equity

- **Research**
  - Governance
  - Data Standards
  - Stakeholder Incentives

- **Unify Supply Chain**
  - Machine Learning
  - Economy
  - Data Marketplace

- **Phase 1 (6 Months)**
  - Recommendations
  - Economy, Marketplace

- **Phase 2 (6 Months)**
  - Infrastructure Impact
  - Steward Models

- **Phase 3 (1 Year)**
  - Human Capital Investment

- **Phase 4 (1 Year)**
  - Environment, Marketplace
UNIFY THE LANDSCAPE OF EDUCATION & WORK

THE EDUCATION 3.0 NETWORK

Identity
- Government ID Systems
- Open SSI Systems
- Closed SSI Systems
- Learner Record Systems
- Employer Record Systems

Education
- Learning Management Systems
- Badging and Credential Systems
- Library Information Systems
- Research Information Systems

Workplace
- Hiring Systems
- HR Systems
- Task & CRM Systems
- Compliance & Safety Systems
- Professional Development Systems

THE INTERNET OF EDUCATION

GOV AGENCY
INSTITUTE
EMPLOYER
EMPLOYEE
ORG
LEARNER
K-12
LIBRARY
HIGHER ED
ONLINE ED
2020 PROGRAMS

OUR 2020 WORK BEGINS BY LAYING PLUMBING FOR EDUCATION CITY

Accelerate Development of the Interoperable Learner Record

In 2020 we will support work already underway to create an IEEE integration spec for W3C, CTDL, IMS, HR Open, ADL, and Europass. We need not create a new standard, but rather a bridge between them for a fully decentralized Internet of Education.

Expand Public Utilities For Learning and Career Pathways

In 2020, we will also a network of ontology nodes into a meta-ontology network to cover K12-military-higher ed-workforce pathways. We will also create a national governance group to ensure openness, accuracy, interoperability, and sustainability.
SUPPORT SELF-SOVEREIGN IDENTITY, ACCESS, AND CONTROL

Universal Learner & Worker Portfolio Apps (Wallet)

Pilot & scale a universal record and credential wallet, and create a trust registry and marketplace for other wallets and applications based on open technical standards. Utilize existing federated identity providers to empower learner and workers with self-sovereign identity, access, and control to support personalized and responsive wrap-around services and utilities.

Universal Research, Course, And Credential Library Apps

Pilot and scale a friendly, understandable, neutral “front door" to technical standards, research, credentials, and courses. Curate output by Project Unicorn, U.S Dept. of Education, National Interoperability Collaborative, AACRAO, and T3 Network, and a range of related projects to supercharge open source development.

CURATE KNOWLEDGE TO ACCELERATE COLLABORATION & SCALE
Board of Directors

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Phil Komarny  VP Innovation, Salesforce
Fumbi Chima  CIO, Adidas
Mark Simon  COO, Pneuma33
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Phil Long  ASU & Trusted Learner Network
Janet Rafner  Center for Hybrid Intelligence
Jacksón Smith  Learning Economy
Phil Komarny  Salesforce
Mark Miller  Good Harbor Partners
Jonathan Haber  Degree of Freedom Project
Spencer Ellis  Colorado Dept of Higher Ed
Chloe Auto  Intel

Foundational Research

American Workforce Policy Advisory Board
White Paper on Interoperability Learning Records

Harvard Kennedy School
Enhancing Blockchain Innovation via Regulation: The Case for an Economy Corporation (E-Corp)

T3 Innovation
Competency is the New Currency (Report)
Learning & Work Data Workgroup Reports

Claremont McKenna College
21st Century Student Equity & Governance

IBM
Blockchain Revolution in Education and Lifelong Learning

San Jose State University
Blockchain (Library Futures Series, Book 3)

Arizona State University
Trusted Learner Network: Building The Foundation

Senior Advisors

Alex Philip  Data Scientist, IBM, NASA
Conor Lennon  Public Information Officer, UN
Daniella Foster  Global VP, Bayer
Hiram Chodosh  President, Claremont McKenna College
Bob Sumner  Sr. Director, Disney Research
Diane Whitehead  Executive Director, ACEI
Frank Martinez  Sr. Director, Microsoft Research
Dominic Regester  Education Director, Salzburg Global

62 Total Advisors
**Proof Statements**
- Innovation & Research Labs
- National & State Proofs
- National Implementation Reports

**National Mandates**
- Publish with UN & Group of Nations (G7/G20)
- Lobby for National & State Ledger Mandates
- Scale 21st Century Education & Work Infrastructures

**2020-2023**
Generate proof studies and national roadmaps in U.S. State Labs and National Labs in countries with small populations and low legacy.

**2024-2030**
Publish implementation reports that empower governments to set national mandates.

**Solve UN SDG 4 & 8**
In time for the 2030 UN Mandate

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**LEARNING ECONOMY’S CHARGE & PROMISE**

New technologies like machine learning, distributed ledgers, applications, and digital records radically shift the landscape of education and employment. How we use these tools is remarkably important, otherwise they could further the spread of inequality and fragmentation.

Learning Economy will always protect and promote equitable access with learner and employee centric models, continually refine and audit all systems for bias, and ensure the Education 3.0 network maintains a well balanced governance.

Integrity matters. Privacy matters. **Learner-centric ideologies matter.**
## SUPPORT LEARNING ECONOMY

**$4.83 Million** Per Year  
$14.50M Total (3 Years)

### PROGRAM COSTS

<table>
<thead>
<tr>
<th>Category</th>
<th>Budget</th>
<th>Personnel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technology</td>
<td>$3.8 Million</td>
<td>15 People + Partners</td>
</tr>
<tr>
<td>Stakeholder Education</td>
<td>$1.9 Million</td>
<td>10 People</td>
</tr>
<tr>
<td>Workgroups, Admin</td>
<td>$2.5 Million</td>
<td>12 People</td>
</tr>
<tr>
<td>Research</td>
<td>$2.9 Million</td>
<td>5 People + Partners</td>
</tr>
<tr>
<td>Ops, Taxes, Benefits</td>
<td>$3.4 Million</td>
<td>For All Programs</td>
</tr>
</tbody>
</table>

SUPPORT LEARNING ECONOMY