National Laboratory for Education Transformation

“CROSS-SECTOR NON-PROFIT”

Building the path of least resistance to the most knowledge possible for the most people possible by exploiting cross-sector collaborations
**What**
Silicon Valley non-profit deeply dedicated to the future of learning using the best tools and methods available in any sector to promote systematic personalized learning.

**Who**
Memorandums of Understanding with:
*University of California Santa Cruz; Los Alamos National Laboratory; University of Texas Austin.* UCSC + NLET = Center for Learning Architecture, Silicon Valley.

**Funding**
National Science Foundation, National Institute of Standards and Technology, The Bill & Melinda Gates Foundation.

**Focus**
Personalization, learning accounts, multi-agency processing, redesigning math learning for the Common Core, redesign of workforce systems.
PERSONALIZED LEARNING
Through learner accounts & universal transcripts, where learner navigates all learning available via identity systems

INFRASTRUCTURE REDESIGN
Design and R & D for smart, secure, data visualizing infrastructures for learning and training.

INTER-AGENCY SYSTEMS
For sharing, anonymizing, visualizing, critical data for learners, families & providing personal access

SKILLS ACQUISITION
Combined with redesign of academic progression systems to know what to learn, measures and how to apply it in the workplace

DEVELOPING A CENTER FOR EDUCATION VISUALIZATION

“GENERAL SYSTEMS FOCUS”
“APPLYING RESEARCH”

**Individual/Accounts**

NSF DRK 12 – Agent-Based Modeling  
*UCSC, UT Austin, LANL, NLET*

**Infrastructure/Security**

NIST NSTIC Trusted Identity Security  
*Resilient Networks, NLET, SAUSD, PVUSD*

**Regions/Access**

NSF BCC – Silicon Valley Regional Data Set  
*UCSC, NLET, Strive Together, Stewards for Change*

**Economy/Signals**

Gates Foundation – Skills Network  
*NLET, CSW, Eduworks, Lone Star, KCTCS, Pima Community College*
To move across the digital divide requires more than technology; patience, collaboration, interest-sharing and proof are necessary.
“AREAS OF R & D”

**Individual/Accounts**

**Infrastructure/Security**

**Regions/Access**

**Economy/Signaling**

**DATA**
- Research
- Standards
- Governance
- Business-Models
- Service & Privacy
“PARTNERING WITH EXPERTISE”

Individual/Accounts

Infrastructure/Security

gooru

iResult

trust network

Powered by resilient network systems

Regions/Access

Economy/Signaling

APT

Test & Learn®

Stewards of Change

INSTITUTE, INC

Geographic Solutions

Corporation for a Skilled Workforce

eduworks
“REGIONAL PROBLEM FOCUS

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**DATA**
Service & Privacy Governance Business-Models Standards Research
NLET’s goal is for $n=1$ / $n=all$ to drive the learning and training worlds so that how we enable individuals is informed by common data.
Many Accounts

Regions/Access

“N = SOME”

Separate Data Stacks
No Agreements
School-Agency Split
No Standards
"COMMON STRATEGY & STANDARDS"

**Individual/Accounts**

- $N = 1$

**Infrastructure/Security**

- $N = all$

**Regions/Access**

- $N = some$

**Economy/Signals**

- DATA
  - Service & Privacy
  - Governance
  - Business-Models
  - Standards
  - Research

- Diagrams:
  - Cloud with connected devices
  - Various icons for different sectors
“SMART SECURE SERVICES”

Individual/Accounts

Privacy

Protection

Infrastructure/Security

DATA

Service & Privacy

Governance

Business-Models

Standards

Research

Regions/Access

Service

Learning

Economy/Signals
One Account

Indivudual/Accounts

MyData Button
Personal Learning Profile

Regional Data Trust

DATA
Service & Privacy
Governance
Business-Models
Standards
Research

“N = 1”
**Data Trust / Concept**

**TRUST ADMINISTRATION**
- Legal Structure
- Governance
- Business Rules
- Data Agreements

**Regional Data Trust**

**DATA TRUST OPERATIONS**
- Data Architecture
- Data Standards
- Data Compliance
- Data Storage
- Data Audit

**DATA TRUST ACCESS**
- Access Structure
- Access Registry
- Access System
- Access Accounts
- Access Audit

“N = ALL”
Secure Individual or Family Learning Account, Transcribes School and Other Learning & Certification

Tie into standards-based trust-protected infrastructure (cloud & local) that interacts inside & outside school

Schools & social, health, criminal agencies have data access on common file system to agencies, schools & home

Services flow seamlessly to each learner & family accessing institutional & outside points of information & learning
DEVELOPING A CENTER FOR EDUCATION VISUALIZATION