







Nebraska K-12 Identity Federation Update - October 9, 2014

- 303,242 public PreK-12 students in 2012-13
- 249 public school districts
- 17 Educational Service Units (ESUs)
- ESUCC coordinates statewide K-12 projects with ESUs and Department of Education

Nebraska K-12 Education







BlendEd Initiative

Blended learning is an educational model that combines traditional face-to-face/ distance classroom methods with online delivery and participation; and an element of student control over time, place, path, and pace.

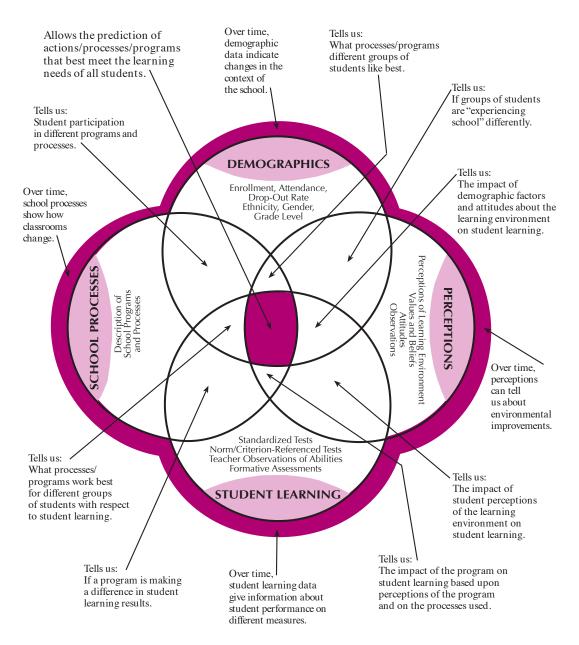




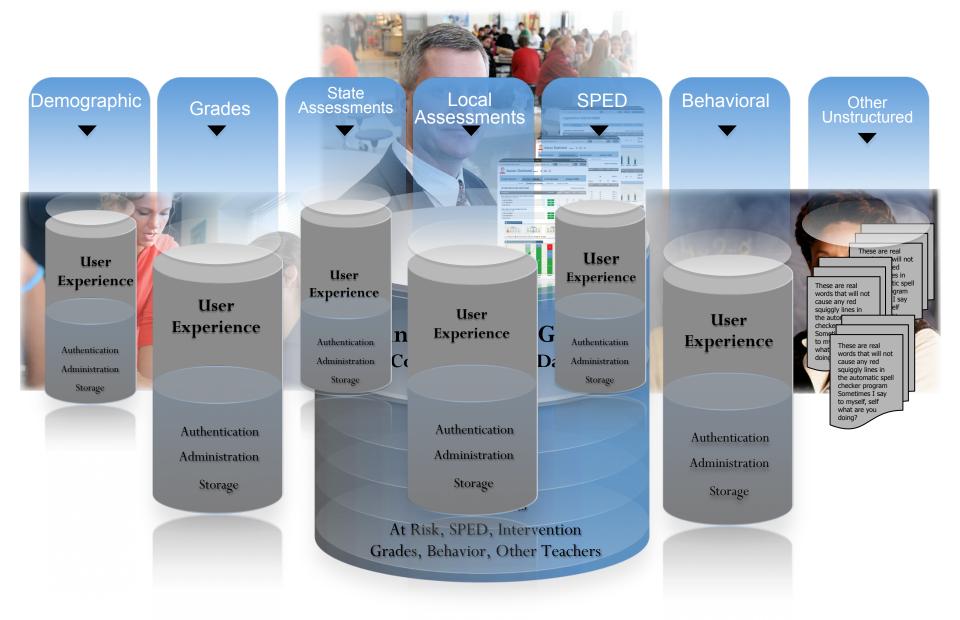
BlendEd Technology Elements

- Learning Object Repository
- National Resources
- Learning Management Systems
- Single Sign-On
- Portal Environment
- Statewide Professional Development

Multiple Measures of Data



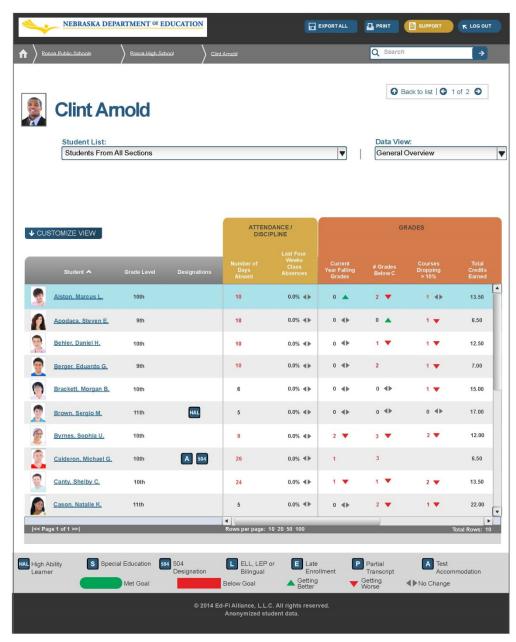
Unlocking the data silos



Ed-Fi Data Dashboard: ADVISER



Ed-Fi Data Dashboard: ADVISER



Classroom View

This view of the dashboard will show for each teacher (Clint Arnold), students taught along with key performance indicators.

Identity Management Vision

- One identity/account per user
- Automatic, real-time application access/ authorization provisioning
- Automatic, real-time authentication provisioning & user self-service
- Easy access to applications via portal & SSO
- Aggregated, secure, searchable statewide staff directory



Basic Services VM Hosting





Learning Object Repository





Self-service **Portal**



Nebraska **K-12 Federation**

Ed-Fi **ODS**

Metrics

Compute



OpenLDAP*

Auto-provision & Deprovision



District Integration **Authentication & Authorization**



Ed-Fi Dashboards

IdP Proxy

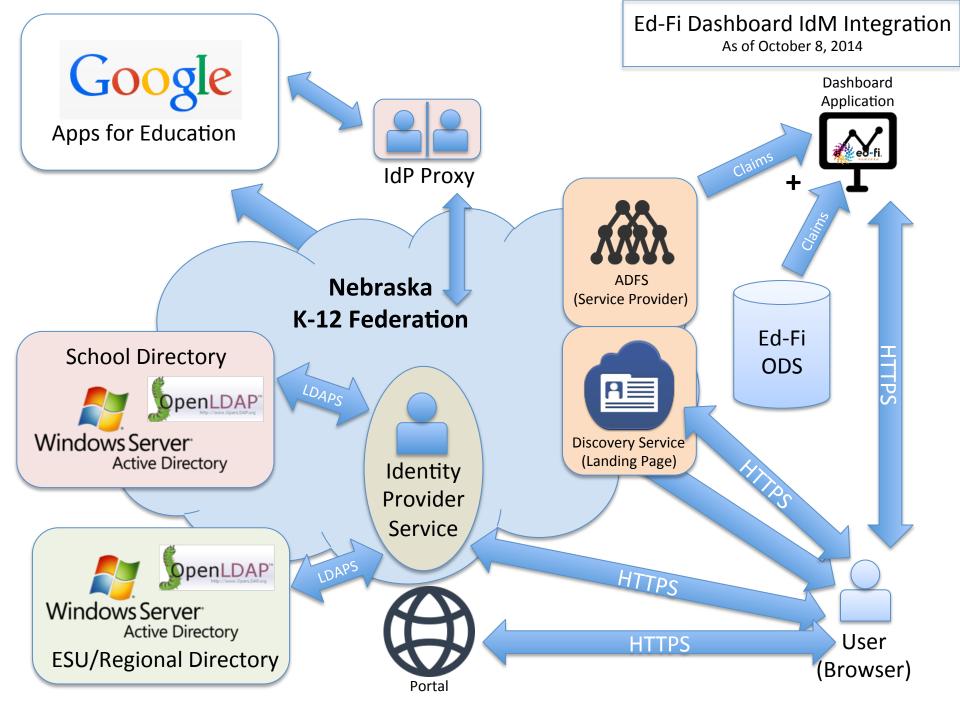












Next Steps

- Complete ADFS integration testing
- Add pilot district IdPs for access to ADVISER dashboard
- Add uPortal SP for development and pilot
- Integrate Safari Montage servers as SPs
- Integrate LMS as SPs Blackboard Learn, Moodle, Canvas, Schoology
- Add district and ESU IdPs/connections to central IdP
- Integrate Discovery Education as SP

A Statewide Support Model

| School-In-A-Box | Professional Development | | | | | |
|-----------------|--|-------------|------------------------|--------|------------|--|
| | Applications | | | | | |
| | Data Store & Access/API | | | | | |
| | Data Collection & Transformation – SIF, CEDS & Ed-Fi | | | | | |
| | Software Development | | | | | |
| | Federated Identity Services | | | | | |
| | DNS | Web Hosting | E-mail, Spam Filtering | Backup | Monitoring | |
| | Basic Services | | | | | |
| | High-Availability Systems (OpenStack) | | | | | |
| | Hardware – Switches, Servers & Storage | | | | | |
| | Data Centers | | | | | |
| | Network Security | | | | | |
| | Network – Network Nebraska | | | | | |