UNC
UNIVERSITY OF NORTHERN COLORADO

ERP Modernization and Cloud Migration

Rowing, Not Drifting

UNC's Vision for 2030

Students First – Empower Inclusivity – Enhance & Invest - Innovate & Create – Connect & Celebrate

Modernization

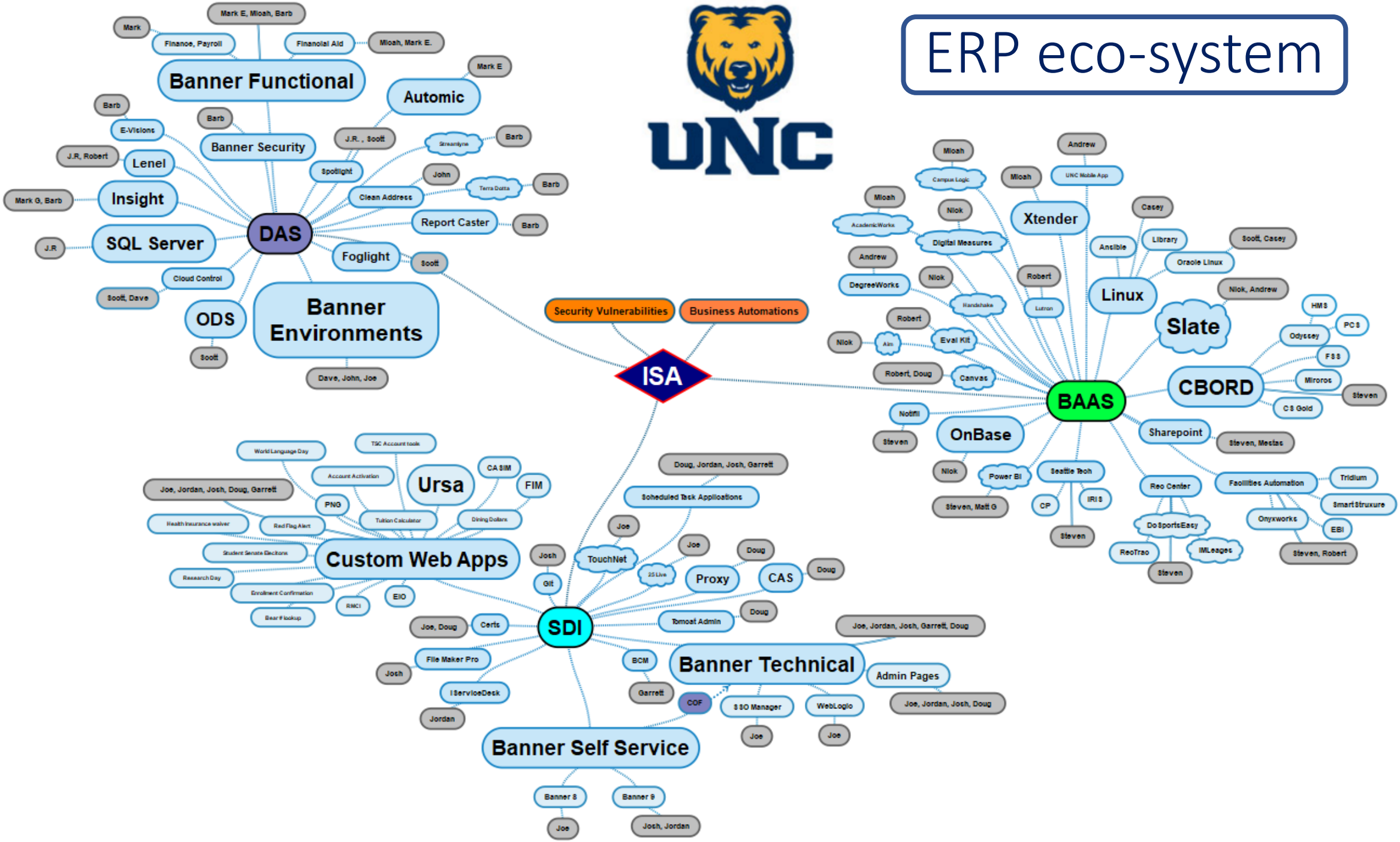
Data Hub

ID Management

Tech Debt Analysis

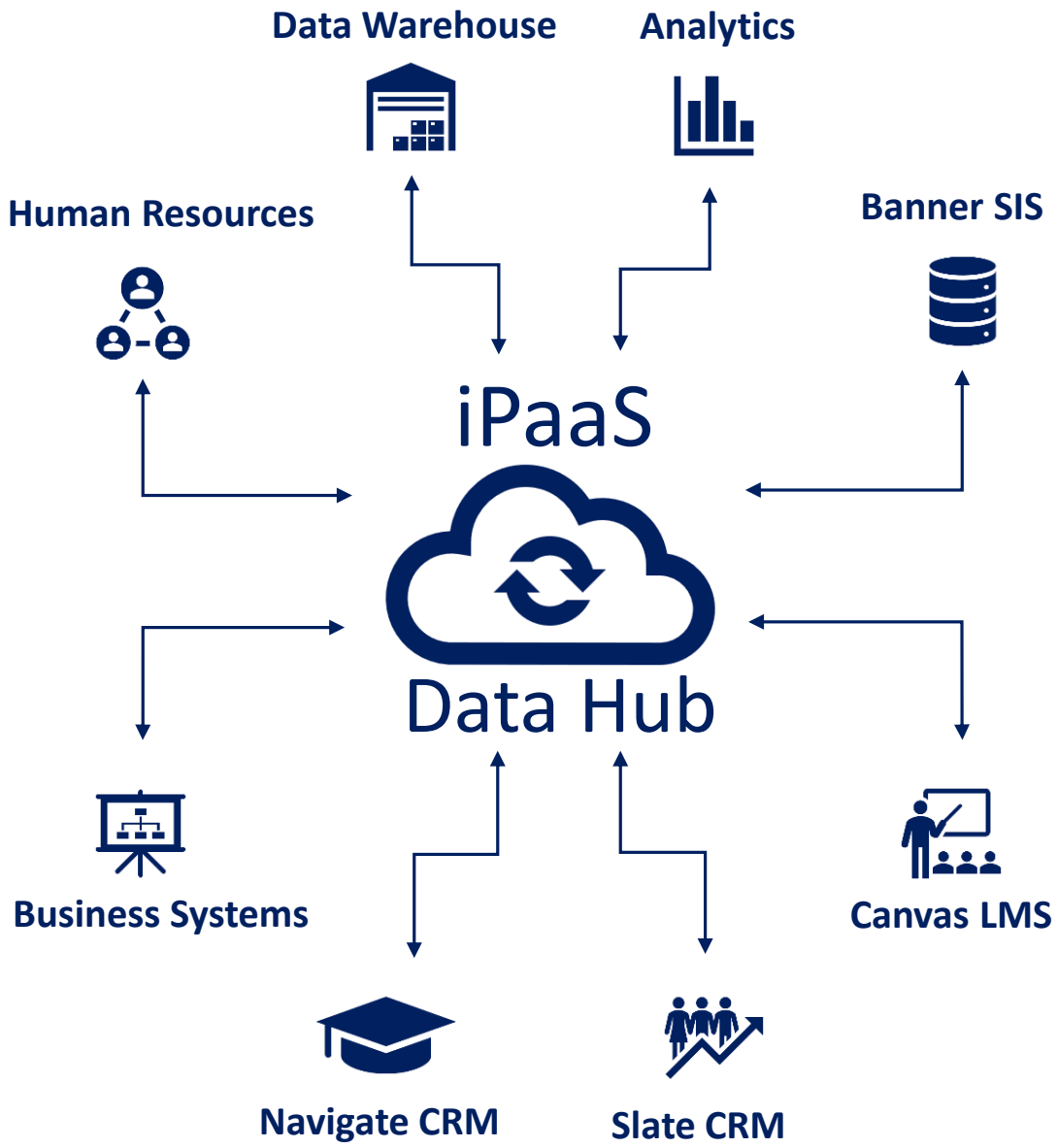
Managed Cloud

ERP eco-system



Data Hub (iPaaS)

- Centralize Data Exchanges
- Modernize Data Feeds
- Enhanced Automations
- Improve Data Governance
- Improve Data Retention



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Modern ID Management

- Enhance User Life-Cycle
- Expand Security Posture
- Improve Student Experience
- Modernize Platform for Future

Life-Cycle

Creation
Provisioning
Maintenance
Deactivation

Student Experience

Single Sign-On
Multi-Factor Auth
Security Controls
Password Management

Access

Cloud Software
Local Systems
Future Proof

ERP Analysis

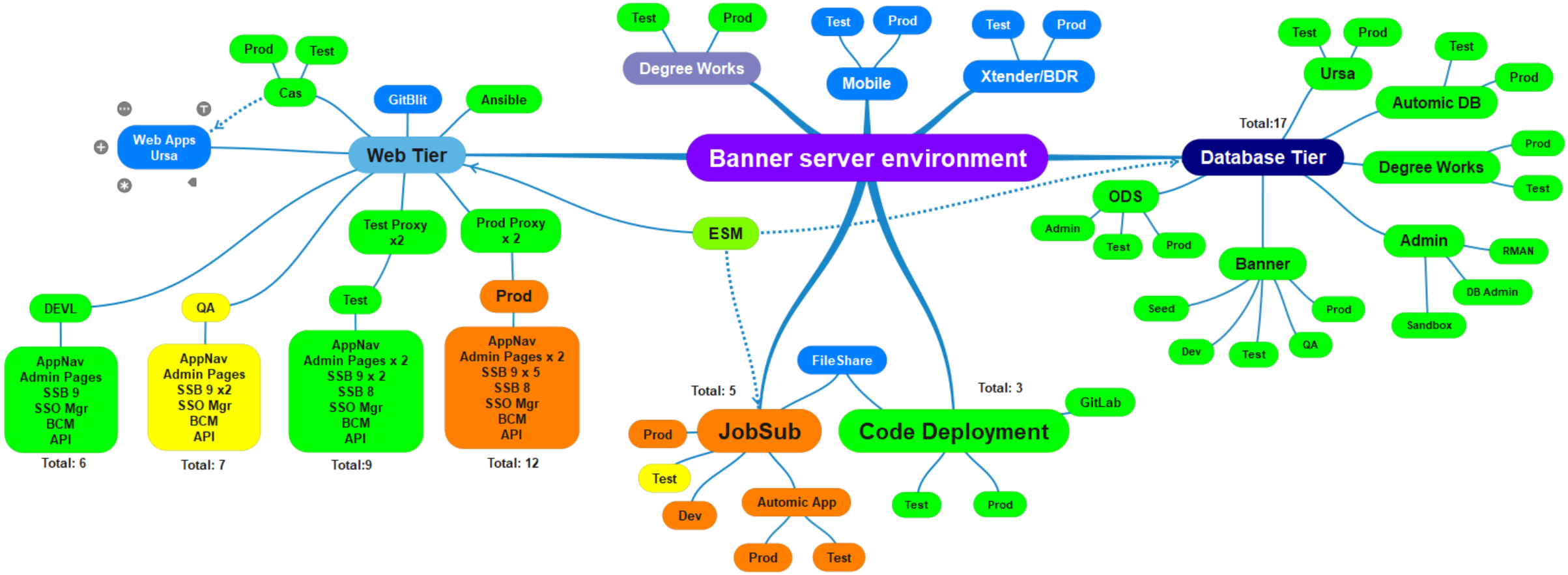
Conduct Cloud Readiness Assessment

- **Reduced state funding request from $4.5M to $1.4M**

Assessment of ERP Technical Debt

- What is Technical Debt
- What are the element of Technical Debt
- Why is Technical Debt important

Technical Debt Instance



Total: 73

Technical Debt Instance

73 Total servers:

- Hardware: Storage, backups, physical security, networking, HVAC, electrical, generators, UPS.
- Software: server operating systems, security software, networking licensing, supporting software licensing.
- Security: Vulnerability mitigation, risk assessments, cyber insurance
- People: ~18 FTE - DBAs, software developers, business analysts, help desk, server admins, security analysts, network engineers, data engineers.

ERP Digital Transformation

On-Premises

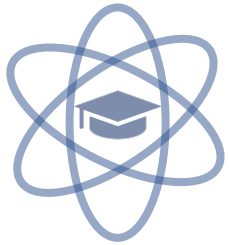
- ↑ Institutional knowledge of Banner
- ↓ Technical Debt
- ↓ Staff focus on maintaining
- ↓ Staff focus on security
- ↓ Limited student experience
- ↓ Vendors are investing into SaaS

Managed Cloud

- ↑ Keep Institutional knowledge of Banner
- ↑ Staff focus on process improvement
- ↑ Staff focus on innovation
- ↑ Enhanced student experience
- ↑ Improved data integrations
- ↑ Modern/ Secure ID Management

Evolved Ecosystem

- ↑ Enhanced student experience
- ↑ Reimagined business processes
- ↑ Data centric not ERP vendor centric
- ↑ Data Fabric (Data Hub + Data Lake)
- ↑ Improved data analytics



ERP Modernization ROI

The Squeeze

ERP Analysis

- **Significant** reduction in Tech Debt
- Select ID Management / iPaaS vendor

ID Management

- Enhance life-cycle, student experience, and access

Data Hub

- Transform ERP data integrations / automations
- Improve Data Governance and retention

Move to Managed Cloud

- Redirect staff to enhance student business processes and environments

The Juice

Student Focused ERP

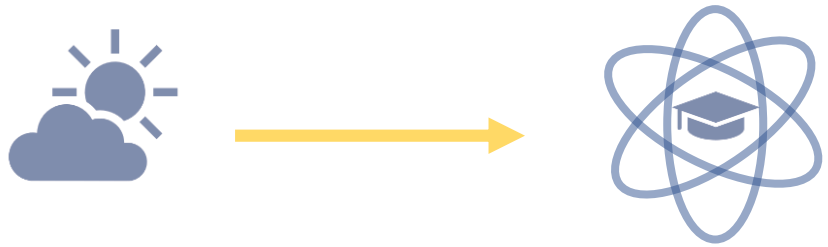
- Data centered ecosystem
- Students first vendor selections

Data Fabric Implementation

- Data integrations warehoused into a data lake
- Governed student success analytics
- Mature student data retention policies

Secure student platforms

- Secure and consistent student user experiences



Campus Partnerships

- Monthly meetings between various Colorado universities
- Securing state pricing agreements for common purchases
- Closely working with Colorado Mesa University for ERP transformation
  - Project Development
  - Process improvement and knowledge sharing
  - Integration development for common applications

Thank You!

Questions?