

CSU Pueblo

CSU-Pueblo Pilot [Presentation to the All Pilots Call of Sept. 25, 2014](#)

Colorado State University - Pueblo provided the information below in August 2014

Goals

Become the southern Colorado regional hub for student lifecycle management. Provide a federated identity and access management solution for Universities, Community Colleges and School Districts, and in the process lead a movement toward a statewide initiative. The initial effort will provide a federation between CSU Pueblo and the regional school districts surrounding the university. The objective is to provide students in these underserved communities with education services and also manage their transitions throughout their education career. The result is providing individual students with the right services at the right time.

Constituent Scope - Phase I

Initial focus is developing our phase I pilot program including

- CSU-Pueblo (SP)
- 3 regional school districts:
 - Pueblo School District 70, one of the 2 largest districts in the region
 - Chavez Huerta Academy, a K-12 charter school district
 - Fremont RE-1, a rural district
- Technology partners (Aegis Identity software)
- Pueblo Hispanic Educational Foundation, a not-for profit that supports college students with tuition scholarships, 18,600 will be the projected total number of student in phase I.

Constituent Scope - Phase II

Targeted Partners of phase II of the Pilot are

- GOAL Academy (All on --line Charter School)
- Widefield School District
- Fountain Ft. Carson
- Harrison 2
- Lamar Re-2
- East Otero
- Trinidad 1 School District

The total number of students in phase II are 36,400 bringing the total for the first two phases to an estimated 55,000 students; additional interested districts within the region may participate in an opt – in situation, which will be defined at a later date. Potential challenge will be to provide a federated solution that will secure an identity constituent driven environment, understanding the security and privacy requirements for adults and minors.

Number of Service Provider (SP) Applications

CSU Pueblo will be a SP and allow its services to be available to InCommon Network, and partner with collaborative community partners education systems acting as a HUB for a regional network for the following School Districts;

- Canon City Schools
- Pueblo County School District #70
- Dolores Huerta Preparatory Academy

Phase II School District are the following;

- Fountain Ft. Carson
- Widefield
- Harrison 2
- Lamar School District
- East Otero
- Trinidad

During Phase II, Pueblo Library District will also be included as a Service Provider as the federation continues to evolve

Legal

Memorandum of Understanding will be the legal collaborative working agreement which will comply with the Southern Colorado P20 Collaborative pilot project.

The following are the project mission and objectives;

(a) The primary mission of the Project is to improve access, opportunity, and success in post-secondary education for the citizens of southeastern Colorado by developing and implementing a technology-based network of support.

(b) The Parties agree to participate toward the achievement of the Project's five primary goals as set forth below:

- (i) to strengthen post-secondary career planning for all students through development of short and long term plans, as well as expanded career awareness and exploration activities;
- (ii) to strengthen enrollment in activities to meet career and college ready goals, including college preparatory courses (AP, IB), post-secondary course work and college preparatory courses in STEM;
- (iii) to strengthen the educational success, retention, and persistence to graduation for students as they transition from middle school to high school to post-secondary education;
- (iv) to increase the matriculation of students college ready to succeed in post-secondary education; and
- (v) implement a P-20 solution infrastructure for participating partners in order to enable the programmatic success of the Project.

InCommon Membership and Policy Requirements

Colorado State University - Pueblo is a current member of the InCommon Network. With the initial Pilot, the federation will be the network of the regional community. Eventually the partner school districts will determine which services provided by InCommon/Internet2 may benefit the broader constituent base. The decision would be made to support the network of constituents which the regional Federation is serving. Presently the pilot is a member through SCON but will be migrating to Bison.

Financial and pricing model

Aegis Identity/CSU - P/SCP20C Consortium. Aegis Identity will provide in-kind technical support and expertise; CSU - P will provide staffing and data center support. Pricing for the services provided in the federation will be determined as the build out of the services provided to constituents become further defined.

Additional Goals

SCP20 Collaborative will also be integrating a community IDM Public Library component. Strategy specifics, additional partners and scope of the project are presently being developed. Integrating a library strategy will create a federated service network impacting most of Pueblo County and can be duplicated at later stages through the southern Colorado Region and beyond.

Calendar

The timeline is 24 to 36 months. Phase I Shibboleth and initial integration to AD.

Federation Operations

Not in the short – term but open to more activity as we evolve and develop the process of the CSU – Pueblo Model.

Federation Scenario

Facilitation and support to build out federation for southern Colorado.

Metadata Management

Assisting pilot members with their MD submissions.

Registration Authority (RA)

InCommon

Metadata Aggregator (MDA)

In Common

What are you providing/offering?

Federation server and hosting; system administration and help desk; Center of Excellence Hosting – student data management in support of transitions during student education lifecycle.

What are your needs?

Technical support to get the project off the ground "Our Launch". Aegis Identity support with Shibboleth and AD configuration.

Community contribution / Strategic Importance

The community contribution of the Southern Colorado P20 Collaborative is unique with respect to its significant representation of its leadership in the form of an advisory council and the programmatic implementation participation in the following three domains; education, technology, and community. The education system is comprised of teachers, coaches, counselors, administrators, parents and students of the school districts involved.

The community sector participation will include the

- Pueblo Library District
- Pueblo Hispanic Education Foundation
- Latino Chamber of Commerce,
- Pueblo Chamber of Commerce
- Pueblo Economic Development Corporation (PEDCO).

Our technology participation includes

- Aegis Identity Software, Inc. (AIS),
- Aegis Identity's Center of Excellence,
- school district CIO's
- CSU – Pueblo tech staff

The fusion of our education, technology and community sectors will foster an environment to sustain program success, ongoing innovation and sustainability. The SCP20 collaborative regional model will allow for the leveraging of regional education technology efforts by blending the education, community, and technology sectors in a way that can be adjusted to the natural context of regional environments throughout the country.

Matrix clarifying Overall programmatic intent

The Collaborative mission is to improve access, opportunity, and success in post-secondary education for the citizens of southeastern Colorado by developing and implementing a technology-based network of support. Important Programmatic Outcomes Include:

Project Goals and Related Outcomes

- 1) Strengthen post-secondary career planning for all students through development of short term and long term plans, as well as expanded career awareness and exploration activities
 - Increase in the number and percent of students with career portfolios, including career goals
 - Increase in realistic and accurate planning of short term and long term educational goals to reach career goals
 - Increase in range of careers on plans (career awareness)
 - Increase in realistic planning of educational goals to reach career goals
 - Increase in career exploration and co-curricular involvement by students
 - Success in meeting educational goals and timeline in plan
 - No. and % of students with updated & complete plans
- 2) Strengthen enrollment in activities to meet short and long term career goals, including college preparatory courses (AP, IB), post-secondary course work and college preparatory courses in STEM
 - Enrollment in courses addressed in career portfolio
 - Increase enrollment and success(pass rate and GPA) in AP, IB, senior to sophomore, and post-secondary option courses
 - Increase enrollment and success(pass rate and GPA) in STEM courses
- 3) Strengthen the educational success, retention, and persistence to graduation for students as they transition from middle school to high school to post-secondary education
 - Higher GPA and achievement on state high stakes exam for students involved in the program
 - Higher GPA for students involved in the program
 - GPA for 9th graders GPA in program exceeds GPA of others
 - Pass rate of students in 9th grade exceeds rate of others
 - Higher percent of students persisting each year
 - Higher percent of students graduating from high school
 - Higher ACT scores for participants
 - Increase in persistence to goals (Grit test)
- 4) Increase the matriculation of students college ready to succeed in post-secondary education
 - Increase in persistence to goals (Grit test) Increased matriculation to college of students in the partnership
 - Decrease in developmental courses needed at college
 - Increased GPA at end of first semester and first year of post-secondary enrollment
 - Increase in percent of students graduating in 8 semesters
 - Decrease in the number of credit hours to graduation
 - Increase in post-graduation employment of graduates involved in the program prior to attending college
 - Decrease costs of education for students participating
- 5) Implement a P20 Identity and Access Management Technology infrastructure enabling programmatic success of the Southern Colorado P-20 Collaborative for College and Career Readiness.
 - Provisioning: Increase speed of access to program applications for students, educators and other participants through timely creation of accounts for users in the applications they'll require for their roles in the institution, speeding the access to learning technologies, and productivity of the students, faculty, staff, and other constituents
 - Password Management: Ensure security of data and systems through synchronization of user names and passwords across the applications used by students, faculty, staff and constituents, increasing the security of data and systems used and securing institutional and personal records.
 - Identity Self Service: Increase productivity and decrease costs by allowing participants (individual students, faculty, staff and other constituents) to maintain their own identity records, including maintaining passwords, saving cost of help desk, employees and increases overall productivity.
 - Audit & Reporting: Ensure compliance with information security standards of the institutions and regulatory requirements by keeping track of who did what and when in the digital access world.
 - Federation: Ensure single, secure, seamless access to all participants.
- 6) Utilize a Collaborative Network to sustain program success, ongoing innovation and sustainability
 - Increase access to post-secondary coursework by a) developing an online resource center for available options and b) implementing online access to enrollment and registration
 - Implement a set of policies and systems to sustain a P20 Federated IdM network, including a system for feedback on project outcomes.
 - Implement an association of organizations in the SCP20 partnership that regularly exchanges information about users and resources to improve collaboration among all stakeholders
 - Document improvements to the network, once implemented, that include IdM best practices, networking processes, work flows, documentation /outcome monitoring, community source code module access, drive deployment timelines, and lower IdM implementation costs.