

**NORTH DAKOTA LEGISLATIVE COUNCIL
WORKFORCE COMMITTEE**

**BISMARCK, NORTH DAKOTA
MONDAY, JULY 19, 2010**

SENATOR TONY GRINDBERG, CHAIRMAN

**LARRY D. ANDERSON –TALENT COORDINATOR, DEPARTMENT OF COMMERCE WORKFORCE
DEVELOPMENT DIVISION**

Mr. Chairman and members of the Workforce Committee, my name is Larry Anderson, Talent Coordinator with the North Dakota Department of Commerce Workforce Development Division.

During your May 26, 2010 Workforce Committee meeting you received a report from Mr. Eric Johnson, CEO, Avenet, regarding the eFolio web-based portfolio management system.

As a result of discussion, you requested the North Dakota Workforce Development Council develop an inventory and matrix of all of the known E-Portfolio systems being used or in the process of being implemented by North Dakota State and Education Agencies.

Attached to my written testimony is the Matrix which was developed by the North Dakota Workforce Development Council - E-Portfolio Committee established for this project.

Members of the E-Portfolio Committee included:

- North Dakota Workforce Development Council
 - James J. Hirsch, ND Dept. of Commerce
 - Dave Trottier, Heart of America Medical Center
 - Dave Farnsworth, Great River Energy
- North Dakota University System
 - Marsha Krotseng
 - Rosi Klobberdanz
 - Kerry Gregory
 - Margaret Dahlberg

- North Dakota Department of Career & Technical Education
 - Wayne Kutzer
 - Kathy Holle
- North Dakota Department of Public Instruction
 - Valarie Fischer
- North Dakota State Bank
 - Wally Erhardt
- North Dakota Vocational Rehabilitation
 - Nancy McKenzie
- Job Service North Dakota
 - Randy Spitzer
 - Bryn Halgrimson
- Information Technology Department
 - Lisa Feldner
 - Tracy Korsmo
- North Dakota Department of Commerce
 - Cheryl Leach
 - Larry Anderson

The Committee met on June 30, 2010 to identify the known E-Portfolio Systems currently used or in the process of being implemented by State education and workforce agencies.

The Matrix provides an inventory of E-Portfolio systems and some of the main features and capabilities of each system.

There are numerous E-Portfolio Systems which have been identified as being in use or in process of being implemented.

Observations:

1. The education and workforce system in North Dakota does not have a common E-Portfolio system.

- a. The RU Ready ND/Choices is the closest to a commonly used system. This system is used by secondary education grades 6 through 12, and the workforce system.
2. The Colleges and Universities within the North Dakota University System are using a number of different E-Portfolio's. Some are custom developed and some are used to support Professional Certifications.
3. Comments and feedback from student and clients shared by the committee suggest that most are looking for something with improved capacities than what they now have.
4. At this time none of the E-Portfolio systems have search capabilities allowing employers to conduct searches for needed talent.
 - a. Many systems are looking at adding this feature.
5. At this time none of the E-Portfolio Systems include capability to feed into the State Longitudinal Data Warehouse.

Based on input from the committee, I believe that there is interest in moving to a common E-Portfolio System. There are concerns that systems being looked at could support easy conversion of what has already been developed and support current uses and capabilities now in place.

Mr. Chairman, I would try to answer questions or call upon some of the E-Portfolio Committee members to answer questions.

Thank you.

ND ELECTRONIC PORTFOLIO MATRIX

SYSTEM FEATURES	AVENET eFolio World - NDSCS	AVENET eFolio World - WSC (Early stages of implementation)	Choices/RUReadyND (Xap)**	JSND VOSJobs	Blackboard (v 9.1) - NDSU	Blackboard (v 9.1) - UND (See attached document for footnotes)	Task Stream - used by NDSU School of Education See Notes for NDUS	LiveText - DSU	LiveText- UND	Professional Portfolios (See note in A67-88 below)	Career Services Offices (CSO Research)/TeamND	Important Considerations See Notes Section
Accreditation Documentation	Yes	Yes		No ¹	No	Not in use yet	Yes	Yes	Yes	Yes	No	
Assessment Information	Yes	Yes	Yes ¹	Yes ²	Yes	Yes ¹	Yes	Yes	Yes	Yes	No	
Allows for Self-Report Assessment Information	No	No	Yes	Yes ³	Yes	Yes ²	Yes	Yes	Yes	Yes	Yes	
Career Goal/Plan	Yes	Yes	Yes ²	Yes ⁴	No	No ³	Yes	No		Usually included	Limited	
Career Information Links	No	No	Yes ³	Yes	No	No ⁴	No	No		No	No	
Connectivity with Other Systems	No	No	Yes ⁴	Yes ⁵	No	No ⁵	Yes	No	Yes	No	No	
Education	No	No	Yes ⁵	Yes ⁶	No	No ⁶	Yes	No	Yes	No	No	
Electronic Resume	No	No	Yes ⁶	Yes ⁷	Yes	Yes ⁷	Yes	Yes	Yes	Yes	Yes, can be uploaded	
Personal Information	No	No	Yes ⁷	Yes ⁸	Yes	Yes ⁸	Yes	Yes	Yes	Yes	Yes	
Who Uses the System	NDSCS	WSC	Grades 6 and up ⁸	See Notes ⁹	Available to NDSU students, faculty, & staff	Available to UND students, faculty & staff	Students enrolled in Ed. Dept.	Teacher Education Students	Undergrad Teacher Education students	NDUS: graduating seniors, faculty, assessment personnel	NDUS 4-year schools, except NDSU +U of Mary +Jamestown College	
Number of Individual Users	300+	Still in early stages of implementation	90,000 logons this yr. 88,400 total portfolios	See Notes ¹⁰	ALL students have access; some departmental programs require usage	Up to 20,000 users	550	130	ALL Undergraduates admitted into Teacher Education	Varies, some programs require. 200 at VCSU	10,936	
Work History	Yes		Yes ⁹	Yes ¹¹	Yes, can be created or linked	Yes ⁹	Yes	Yes	No	Yes	Yes	
Test Preparation	No	No	Yes ¹⁰	No ¹²	No	No ¹⁰	Yes	No	No	No	No	
E-Transcript	No	No	Yes ¹¹	No ¹³	No	No ¹¹	No	No	No	No	No	
Scholarship Search	No	No	Yes ¹²	Yes ¹⁴	No	No ¹²	Yes	No	No	No	No	

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Other			Yes ¹³	See Notes ¹⁵	Yes, Outcomes assessment module is available for purchase and integrates.	Yes ¹³	External survey tool, 800 number for support, field experience service learning, electronic exhibit rooms for accreditation, reporting for dept & students, multiple raters	Can create links to any outside source. Can allow others to view or access it.			Students can maintain and use after graduation, as desired. Notes and stats provided in narrative	
Accountability	Yes	Yes	Yes ¹⁴	Yes ¹⁶	Yes	Yes ¹⁴	Yes	Yes	Yes	No	No	
Program Management Reporting			Yes	Yes ¹⁷	Yes	Yes ¹⁵	Yes	Yes	Yes	Yes	Yes	
E-Portfolio Ownership	Client		Student/Client ¹⁵	See Notes ¹⁸	Yes, IT dept. has contract for the system, but users own content	Yes, per UND policies on Intellectual property	University; students own content	Student owned for one year following graduation	Yes	Student - owned. University stores and uses it for reporting and assessment	CS Offices own system but users own content	
Portfolio Validation			Yes	No ¹⁹	No	No				N/A	No	
E-Portfolio Security	Yes	Yes	Yes	Yes ²⁰	Yes, has robust security	Yes ¹⁷	Yes	Yes	Yes	N/A	Career Services offices accept users but do not verify information input	
Search Capabilities other than Host & Client/Student	Yes	Yes		See Notes ²¹	No	No ¹⁸	Not without permission	Only if allowed	No	N/A	Yes, if given permission	

ND ELECTRONIC PORTFOLIO MATRIX

SYSTEM FEATURES	AVENET eFolio World - NDSCS	AVENET eFolio World - WSC (Early stages of Implementation)	Choices/RUReadyND (Xap)**	JSND VOSJobs	Blackboard (v 9.1) - NDSU	Blackboard (v 9.1) - UND (See attached document for footnotes)	Task Stream - used by NDSU School of Education See Notes for NDUS	LiveText - DSU	LiveText- UND	Professional Portfolios (See note in A67-68 below)	Career Services Offices (CSO Research)/TeamND	Important Considerations See Notes Section
Funding (Who & How Much)	NDSCS budget \$1200 per yr. for institutional portfolio-- \$4.00 per individual portfolio		BND \$227,870 CTE \$3300	See Notes ²²	Funded by student tech fee. E-Portfolio is not priced stand-alone. Included with Blackboard Content system purchase.	Funded by UND Core Technology Services. E-Portfolio is not priced stand-alone. Included with Blackboard Content system purchase	Education Students, \$99 / 4-year subscription	Education department and individual students. \$140 / student	Students pay for membership \$128		Career Services Offices (see L11). Cost varies based on size of school (VCSU \$1600/yr)	
How Long Has It Been Used	4 years	One Semester	5-24 years***	See Notes ²³	5 years	August 2010 start date	3/17/2005	7 years	5+ years	14 years	6 years	
Level of Use:											Optional for off campus jobs, used for work study/student asst jobs	
K-12, Secondary, Post-Secondary, General Population.	Post-secondary	Post-secondary	Primarily K-12, Some Post-Secondary, Parents/Adults	General Population ***	Post-secondary	Post-secondary	Secondary/ Undergrad	Post-secondary	Post-secondary	Post-secondary	Post-secondary. General population after grad	
Accessible to others other than Agencies.			Yes	See Notes ²⁴	Yes, if invited by students	Yes, if invited by students ¹⁹		Only if allowed	No	No	Yes, if given permission	
Product Data Expiration	Contract year	Contract year	6/30/2011	See Notes ²⁵	Contract year renewal June 30, 2011	Follows UND policies, contract year renewal June 30, 2011	No			N/A	Academic year (June 30), annual renewal	
Identification of Certain Skills	No	No		Yes ²⁶	No	No	Yes		Connects to state & national standards of the profession	Yes	No	
Accessibility for Disabilities			Yes	Yes ²⁷	Yes, meets most ADA standards	Yes ²⁰	Yes	Yes		No	Through web browser	

ELECTRONIC PORTFOLIO MATRIX FOOTNOTES

RUReadyND.com consists of Choices Explorer, Planner and testGEAR and is provided by SLND/BND to all middle and high school students in ND. Parents and others are also able to create portfolios and use some of the tools. Training is provided statewide by the Career Resource Network/CTE.

Notes:

**** Choices and RUReadyND are the same product. Though some agencies (Job Service/Voc Rehab and some postsecondary schools) have Choices CT, it is the adult version of Choices Planner, which is one of the programs within RUReadyND.com and consists of the same tools.**

*****This product has been used in North Dakota for the past 24 years. The BND purchased it for statewide use 5 years ago but most schools purchased some part of the product for years prior to that time. The Career Resource Network provided the training from the beginning.**

¹ The following assessments are included and results saved to the ePortfolio: Interest Profiler, Career Cluster Survey, Major Finder, Career Finder, Work Values Sorter, Transferable Skills Checklist, Workplace Skills Checklist, Basic Skills Survey. Other test results can be added. Upon completion of these assessments, the results are matched to occupations or clusters of occupations.

² The Course Plan Builder tool allows students to create a course plan for grades 7-12 and do some planning for postsecondary coursework. Schools can also customize those plans for their school or district. Plans can be saved in the portfolio and transferred from school to school. Students can create as many plans as they wish and change them as needed.

³ Career Information is a primary role of the products. There are 2900 occupation or career profiles, 200+ videos and real-life interviews. Occupations can be accessed by completing assessments and reviewing results, searching by occupation title, reviewing clusters or school subjects. It also allows you to compare careers and provides links to professional organizations and other career articles.

⁴ Xap currently owns all of the products that we use as a state but they have the ability to and do connect to other systems.

⁵ Information for 8000+ colleges is included with the capability to search colleges, find those that have programs that match your career interests, a compare schools feature and a college preparation guide.

⁶ There is a resume builder (though not the best I have seen and is on their list to review and revise). It does not at this time have the capability to be sent to employers but that is also a future feature planned. It also has a cover letter creator, a thank you letter builder and a job interview practice feature.

⁷ The ePortfolio has room to enter personal information (while maintaining COBRA confidentiality standards), test scores that are not included in the product can be saved here, students can create their own career library and store information for future use, there are places to record other activities and a journal for self-reflection or assignments (English writing paper, etc.).

⁸ The statewide purchase is for middle school through high school though there are tools available for K-20 and beyond.

⁹ Work History (or anything else - such as a copy of a "best work" assignment or other information that would be helpful for future reference) can be added.

¹⁰ Included in the ND purchase is a program called testGEAR to prepare students for the ACT. Some schools also use it for improving their AYP.

¹¹ Xap is a leader in eTranscript delivery. North Dakota does not use this feature; however, several states do currently use this tool.

¹² Planner contains 1000+ college, job bank and financial aid links.

¹³ The programs also contain "Going to Work" advice and articles, student blogs, volunteer and recreation articles, including related careers and career trivia. The programs contain "Guideways" to guide a student through the career planning steps. It can be transposed from English to Spanish.

¹⁴ A feature called "Professional Tools" provides accountability reports and site customization. It allows educators to communicate with students and review their progress. At the state level, reports provide first hand accounts of product usage and career interests. Lesson plans and other tools are available in this section.

¹⁵ While students are in high school, educators can access the portfolios through professional tools. Once they leave high school, their portfolios are released and become available to the client but not the professional. They are "housed" in the Xap server.

VOS Notes:

¹ No, the VOS system does not validate any claims of accreditation.

² Within VOS, included is assessments for job skills, personal skills, work values, and interests. Occupational matches on results somewhat in question. Results provide basic occupational labor market information links.

³ The self-report applies to job skills and personal skills selections. These are only self-report, not a formal assessment. Once skills selection is completed, occupational matches can be provided.

⁴ This allows for employment planning which includes resume development, correspondence (cover letter, acceptance and follow-up letters), job applications, and setting up a virtual recruiter (automatic job search for job seekers, or automatic resume search for employers).

⁵ The functionality includes automatic connection to the Labor Market Information section for North Dakota data.

⁶ The education section is part of the "My Background" function which allows for entry, updates, and edits of on-going education and training. Education entries range from GED/High School Diploma to specialized degrees (MD , DDS). There is a free flow text box available for each educational entry for additional course work commentary and details. There is also a Certification and Licensure entry section which provides entry space for type of certification or licensure, issuing organization, date of obtainment and expiration, if any.

⁷ This is part of the Employment Planning. Individual can enter up to 20 different resumes with different focuses employment objectives. An individual can use their developed resume as a job search tool in the current and active database. Resume information may be entered 1) manually through the Resume Builder or initiated in My Background, 2) downloading the file into VOS, or 3) cut and paste. Individual can set up templates to organize the different resume headings. System allows resumes to be emailed directly to employer with additional free flow box for comment/cover letter. It can be downloaded to external accessories in html, pdf, rtf, or as doc.

⁸ This includes General Information (personal contact information and other statistical data not accessible to employers) and My Background which provides entries for work history, education, licensure and certifications, honors and activities, ability summary, skills (attached to resume for search purposes, not shown on the resume), additional information (can be used as a skill area or renamed for community service and other areas of a developing resume not already provided), driver's licenses, desired occupations, desired locations, desired salary, desired job type, and references.

⁹ The general population of job seekers, the general population of employers, and JSND staff.

¹⁰ Job seekers-100,000 per year, Employers-9,000 per year, JSND staff-230.

¹¹ Entered through Personal Information/My Background and can be edited and updated as needed by the individual. This system uses O*Net for employment types and attaches skills based on the job selection that best matches the job seeker.

¹² No, the VOS system does not have a feature that helps in test preparation.

¹³ The VOS system does not support electronic transcripts.

¹⁴ Within the VOS system, under the Educational Programs section there is linkages to findaid.org.

¹⁵ Linkages to on-line learning (alison).

¹⁶ There is a complete set of federally required reports. These federal reports are for the measurements of overall usage of the system, along with performance outcomes which include percentages of entered employment, retained employment and average earnings for the job seekers at large, and more specifically services to veterans along with performance outcomes for them. We are also required to report job listings by O*NET code in the federal reports. We also have a series of management reports that can be requested and created. These reports include the number of new as well as existing job orders available during the month, the number of resumes available during that same reporting period, the level of activity on the web site, and the various states represented by job seekers who are using our web site when searching for North Dakota job listings. All of these reports are used to determine management priorities for future activities.

¹⁷ There is a complete set of federally required reports as well as numerous management reports that can be requested and created.

¹⁸ All of the job seeker information including resumes, work history, personal information, and all parts of the individual's data is controlled by the job seeker. All the employer information including job orders, resume searches, company information, and all parts of the employer's data is controlled by the employer.

¹⁹ There are system checks to reduce the chances of duplicate registrations, however, the job seekers can claim to have all manner of education, experience, and/or certifications and licensures, and there is no validation of this information. Employers must be approved and validated by JSND staff prior to allowing entry of job order information, or the ability to search for and review job seeker resumes. Each new job order must be validated by JSND staff regardless of whether the employer account has been validated previously.

²⁰ The job seeker controls how much (if any) information can be made available to an employer who is searching for resumes. If the job seeker wants to apply to a specific employer, they can determine precisely how much person or professional information they want the employer to be able to review. Employers can also determine if they want a job order listed, and how job seekers are to apply (mail, in person, on the web site, etc). Job Service North Dakota staff can create, review, edit both job seeker's and employers data if they have the proper system rights. Staff system rights are tightly controlled and monitored by systems management staff members.

²¹ Job seekers can search for jobs by occupation, location, experience, education, salary, certification, licensure, and many other variables. If they create a search that provides them with particularly desirable results, they can save that search criteria, and have the system run that search on a regular time basis of their choosing. The results of that saved search can be sent to the individuals system message center, to their email account, or as a text message to their cell phone, or all 3 methods of contact. The same capabilities are available to the employers when they are searching for resumes. Job Service North Dakota staff members have all these capabilities plus many additional search capabilities if they have been assigned the proper system rights.

²² There are several pieces that have separate costs. There are 5 maintenance functions that total \$326,388 for 7-1-2010 to 6-30-2011. The Web hosting for the same time frame is \$166,356. The web hosting function was developed in conjunction with and in agreement with the North Dakota Information Technology Department. The maintenance and web hosting are paid using Federal funds. VOS also has a spidering feature that costs \$150,000 per year, and that is paid using state funds. Is there a pricing structure tied to number of records (adding students would increase the number of records significantly).

²³ All contracts at this time are for a year, and currently are paid through 6-30-2011.

²⁴ The functionality includes all job seekers and employers who want to access data concerning jobs, resumes, wages, employment data, etc which comes from both the job seekers and job orders that are within the system, as well as the formal Labor Market Information data that is housed within a separate-- but related and connected data bases created by GSI. The two systems (LMI and labor exchange) work together to provide historical data as well as real-time results of searches for jobs and/or resumes. The system is designed to be used by the general population who is searching for jobs, and the general employer population who are seeking employees.

²⁵ Currently the Maintenance and web hosting are through 6-30-2011. Negotiations are underway to create a 3 year contract with the possibility of 2 annual extensions. If this is successful, the VOS system would potentially be under contract through 6-30-2015. The spidering function is an annual contract.

²⁶ This functionality can be used as search criteria through the Job Search options of Job Search by Skills or the Job Search by Resume (skills are attached based on the O*Net Job Titles selected).

²⁷ The VOS system is ADA compliant.

FOOTNOTES: UND Blackboard Content System 9.1 Basic E-Portfolio System:

¹ Manual entry of assessment matrix

² Manual upload of artifact to meet assessment standards by individuals

³ Students can create career goals/plans

⁴ Links can be posted

⁵ Integrated with Blackboard and associated applications for course and organization in content including assignments and projects

⁶ Manual addition of courses taken, degrees earned, and certifications (not automated)

⁷ Resume templates included, capability to design custom

⁸ Can enter personal information

⁹ Can enter work history

¹⁰ No automated test preparation, can manually add information. Integrated with Blackboard Learn, with access to test preparation courses.

¹¹ No e-transcript tool

¹² No scholarship search. Integrated with Blackboard Scholar to use for scholarship searches for scholarship searches for K-12 and higher education

¹³ Integration with other Blackboard applications for connectivity with social software tools; blogs, journals, wikis, podcasting and more.

¹⁴ Analytics including number of times accessed, amount of content, tools used and date created

¹⁵ No, can be used by programs/departments with templates designed to track specific requirements.

¹⁶ Per UND policies on Intellectual Property

¹⁷ Blackboard system is authenticated with user name/password and SSL encryption. Owner of E-Portfolio manages access to site

¹⁸ No, only by standard browser search for words within pages

¹⁹ UND's use of Blackboard E-Portfolio can include students, faculty, and staff

²⁰ Blackboard 9.1 is Section 508 and WAI compliant, and NFB certified

NOTE: Blackboard Outcomes Assessment System contains a robust E-Portfolio application

NDUS NOTES:

Important Considerations for wide adoption of an E-Portfolio System:

- 1.) There is definite interest in the use of electronic portfolios across the North Dakota University System.
- 2.) Electronic portfolios have been implemented by various departments or individual faculty at NDUS institutions.
 - Features in the matrix may be available in the systems but not used, depending on the institution or department.
- 3.) Professional E-Portfolios are not considered a "system," so many items are not applicable, but information is included in this matrix.
- 4.) Potential E-Portfolios are currently being looked at based on where the NDUS is with a number of licensing contracts that include an E-Portfolio component.
- 5.) To transition from higher education into the workforce and for economic development, the following issues are important to consider for an E-Portfolio to reach its full potential:
 - * Will all North Dakota college and university students (in both public and private institutions) be required to develop and maintain an electronic portfolio?
 - * How will college and university graduates be encouraged to keep their E-Portfolios up-to-date?
 - * Will there be an incentive that encourages employers to use the E-Portfolio?
- 6.) In order to develop an integrated approach to the use of electronic portfolios in the state, it would be important to:
 - * Determine the goals for the electronic Portfolio.
 - * Decide which are the most important features of the electronic portfolio.
 - * Plan for the smooth transition of electronic portfolios from K-12 into higher education and then into the workforce.

Additional criteria that should be considered for a fully functioning system (there may be others):

- * Ability to include multimedia elements within a hyperlinked presentation.
- * Large storage capacity needed for multimedia elements and the large number of concurrent users.
- * Ability to assign a grading matrix to projects and the ability for multiple evaluators to view and to score various projects.
- * Ability for the institution to create reports from a random sample of projects at a certain grade level or other criteria, e.g. gender, race, etc.
- * Ability to develop workflows and send reminders and alerts to users via enterprise communication systems.
- * Ease of use for end users and for administrators: the human costs of deploying, using, and administering a portfolio system will be many times the software/hardware cost.
- * Connectivity with other systems:
 - The ability to integrate with other enterprise applications on multiple dimensions is significant.

Career Services Systems:

Career Services offices at 4-year NDUS institutions (except NDSU), University of Mary, and Jamestown College use the Interfase System - CSOResearch, Austin, TX- a comprehensive software solution to meet the needs of Career Services and Student employment.

Key Features:

- 1.) Manage every function found including student and employer registration, resume referrals, document management, placement tracking, job posting and management, interview scheduling, career fair management, resume books and alumni mentoring.
- 2.) Post and manage job listings online.
- 3.) Track referrals, placements, log ins, jobs viewed and applied for.
- 4.) Enable students to register, search jobs, send online inquires, manage multiple resumes, cover letter and other employment related documents.

TeamND Consortium website www.teamnd.org (CSO – Interfase) - - as of 5/24/10 :

Active jobs currently posted - - 280

Active jobs posted in ND – 129 (46%)

Total Jobs posted past 365 days - - 1025

ND Jobs posted - - 563 (55%)

Other jobs were posted in 27 other states & 4 Canadian provinces

Active employer contacts - - 2,198

ND employer contacts - - 1,277 (58%)

Number of logins by employer contacts, last 365 days -1,744

From 5/24/2009 to 5/24/2010

15,222 visits

10,936 absolute unique visitors - - represents the number of unduplicated (counted only once) visitors to your website over the course of a specified time period).

68.7% New Visits

2.15 average page views

1 minute, 28 seconds average time on the site

After home page, the most viewed page is the Job Seeker page

Additional information from individual NDUS institutions:

DSU: Teacher Education program uses LiveText for student activities. LiveText meets the E-Portfolio standards established by NCATE ((National Council for Accreditation of Teacher Education), but the standards are open and not product specific.

NDSCS: Has a contract with Avenet eFolio World for an institutional portfolio and individual student portfolios.

- NDSCS uses the eFolio software for institutional accreditation by the Higher Learning Commission for their accreditation process known as AQIP.
- It houses the NDSCS Portfolio systems as well as a document repository of the latest research, strategic planning and other pertinent documents of the college.
- NDSCS licenses individual student portfolios for several programs that use them as part of their assessment process and academic requirements of the program.
- Currently, six programs are using the student e-portfolios.
- NDSCS was the first institution outside of the state of Minnesota allowed to use the software.

NDSU: The NDSU Blackboard contract includes Blackboard's Content application. This application contains a basic E-Portfolio system. In addition, the IT department has worked with instructors in various departments to implement E-Portfolios using applications such as PowerPoint, Dreamweaver, Flash, InDesign, Photoshop, and others. As an example, some departments include:

- Apparel, Design, & Hospitality Management - moving to a web-based application
- Art
- Architecture and Landscape Architecture
- Dietetics graduate students (each student must meet 100% of required competencies as evidenced by evaluation checklists and through work samples included in the students' Career Portfolio).
- Human Development and Family Science
- School of Education: Uses TaskStream for education students. TaskStream is a customizable, electronic portfolio, assessment management and performance-based instruction tool that meets NCATE (National Council for Accreditation of Teacher Education) college accreditation standards.

UND: The UND Blackboard contract includes Blackboard's Content application. This Content application contains a basic E-Portfolio system:

- The Blackboard Content System will be introduced to the campus in August, 2010
- Workshops, demonstrations, on-demand tutorials and manuals will be provided to students, faculty and staff, highlighting the E-Portfolio tools
- UND School of Education: Uses LiveText for its teacher education program. (LiveText meets the E-Portfolio standards established by NCATE (National Council for Accreditation of Teacher Education)).
- The NCATE standards are open, and not product-specific.
- UND Departments and Colleges, including Aerospace and Medicine: Have been reviewing various commercial products to meet their needs for E-Portfolios.