DEMIS: KU’s web-based decision-support system

Presenter Ryan Cherland. Ballroom C, from 11:20 – 12:10
2009 MidAIR Conference, November 13, 2009 Kansas City, MO
Presentation Summary

The University of Kansas, like any large and decentralized organization often found that staff that needed management and planning information did not always receive it -- or did not receive it in a timely manner to make effective decisions. To help solve this dilemma, the Office of Institutional Research and Planning (OIRP) developed a planning and management information system called the Departmental Executive Management Information System (DEMIS). It used the internet to deliver management and analytical information to departmental administrators.

By providing decision-support information to university decision-makers via their desktop browser, it was convenient to use, easy to print only those pages that were wanted, and provided options to import data into the user’s workstation software. DEMIS users had individual menu profiles that deliver the right information to the right people.
KU’s decision-support system -- DEMIS

What is DEMIS? A Departmental Executive Management Information System

• Campus web-based reporting system for the University of Kansas

• Developed gradually over the past decade from a few static web pages to a campus management ‘portal’

• Uses a password protected web-site that allows customization of the links for a user

• 5 broad areas of information from DEMIS: General, Academic, Student Administration, HR/Pay, and Financials
What is DEMIS?

DEMIS is a decision support system, which can be defined in many ways. The definition that I think fits DEMIS the best is:

“A decision support system is an interactive system that provides the user with easy access to decision models and data in order to support semi structured and unstructured decision-making tasks.”

(Watson, Houdeshel, & Rainer, 1997, p.265)
Development of DEMIS – it doesn’t happen overnight

- **Phase 1**: Initial phase was to provide academic department trend information and major counts on a password protected web site – 1995

- **Phase 2**: Second phase was the development of ad hoc queries on student credit hours because of a change in business practices – 1996

- **Phase 3**: Third phase focused on academic department management information – 1997 to 1998

- **Phase 4**: Inclusion of academic/nonacademic departmental reporting from PeopleSoft systems data – 1999 to 2007

- **Phase 5**: Transition to a management information portal environment – 2008
**The duality at KU – two departments under IR**

<table>
<thead>
<tr>
<th>Institutional Research</th>
<th>University Management Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Census extracts of operational data</td>
<td>- Day-to-day operational data marts and reports</td>
</tr>
<tr>
<td>- Analytical Skills</td>
<td>- Involved in meeting the business needs of the campus</td>
</tr>
<tr>
<td>- Applies context to data</td>
<td>- Involved in developing a core group of knowledge workers in the major</td>
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<td>- Brings data from multiple systems together</td>
<td>functional areas</td>
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<tr>
<td>- Creates “value added” data fields</td>
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- Involved in developing a core group of knowledge workers in the major functional areas
Benefits of the IR Duality at KU

- Depth and knowledge of current and future operational data systems which is accessed often in IR “quick-and-clean” analyses

- Invited to meetings which can impact approaches to the setup of systems – people think about reporting for their area, we add to it reporting for the university

- Acts as a “bridge” between the needs of the operational systems and the needs of the decision-makers – *we walk and talk in both worlds*
Staff support of DEMIS

Total of 7 to 10 FTE

- Department of University Management Information: 4.5 FTE

- Office of Institutional Research and Planning: 1 to 1.5 FTE (contributed by multiple analyst) in support of various analytical systems

- IT: support provided by multiple units in keeping the systems running
How DEMIS development is guided

- Provost
- Administration & Finance
  - Vice Provost
  - Budget
  - Comptroller
- Human Resources
- Institutional Research
- System Administrators
- Student Reporting Team
DEMIS Usage by Query Area (1,100 per day)
DEMIS Usage by Campus Area (1,100 per day)

Daily % Use

- Res & Grad Std
- Acad/Schools
- Student Success
- Finance
- Provost
- Libraries/IT
- Bus & Fin
- Fac & Planning
- Univ Corn
- Chancellor Off

November 13, 2009
MidAIR 2009 Web-based Reporting
LIVE DEMONSTRATION...

DEMIS Portal

<table>
<thead>
<tr>
<th>General</th>
<th>Academic</th>
<th>HREO/Payroll</th>
<th>Financials</th>
<th>Student Admin</th>
<th>Schol Datamart</th>
<th>UMI Systems</th>
<th>SysAdmins</th>
<th>RDS/SAS/ETL</th>
</tr>
</thead>
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**Help and Training Information**

Click here to refresh collection.

- **1 The basics on the DEMIS portal setup**
  Video of basic DEMIS portal setup and navigation
- **2 FY 2009 Financials report basics**
  Video demonstrating the basic functionality of the Financials FY 2009 report

**Usage Agreement**

DEMIS User Agreement

Access to University of Kansas decision-support information is provided for official university business only. Inappropriate use may result in monitoring and reporting of such use to appropriate authorities and can result in the revocation of your DEMIS access and notification of your supervisors.

DEMIS uses your KU Online ID for authentication. In order to obtain access to DEMIS, you agree not to share your KU Online ID and password with others.

You also agree to comply with the policies of the University of Kansas regarding the proper use of computing resources. Remember that database information, particularly student and personnel information is CONFIDENTIAL, and you are responsible for maintaining that trust. Knowingly releasing or misusing confidential information from official records may result in disciplinary action up to and including dismissal.

DEMIS is intended to provide useful management information for the staff at the University of Kansas. While we strive to provide accurate and reliable information, we cannot warrant the accuracy of every item of information provided online.

By using DEMIS, you, "the user", agree to comply with the above statements.
Contact Information

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Presenter

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