

Implementing Integrated University Systems

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University Management Systems

- Systems that integrate management of the core functions of the University
 - Academic Management (AMS),
 - Financial Management (FMS),
 - Library Management (LMS),
 - Course Management System (CMS),
 - Human Resource Management (HRM).



Academic Management (AMS)

- Key operational system to manage student records:
 - Admissions, registration, enrolment, fees, debtors, course planning, resource allocation (lecturers, classrooms, timetabling), tutoring, class lists, class attendance, academic performance, examinations, academic records, certification.
 - Integration with other systems (FMS, LMS).



Academic Management (AMS)

- Acquired from University of Navarre (Spain)
 - Supported by Tecnicia (Spain).
 - Core Team of 3 senior programmers trained in Spain.
 - Team of 10 programmers thoroughly customised the system to meet our specific needs.
 - Customisation and maintenance entrusted to SRCC.



Financial Systems AMS / ERP's

- Managing University finances:
 - General ledger, purchase ledger, suppliers, inventory management, budgeting, payroll, asset management, financial statement, eDocs, etc.
- Kualii Project (www.kualii.org)
 - Project was started in late 2002 by Indiana University, the University of Hawaii, NACUBO, and the rSmart Group.
 - By 2005, they were joined by four additional partners as core investors in the project: Cornell University (NY), San Joaquin Delta College (CA), Michigan State University, and the University of Arizona.
 - Designed by universities for universities.
 - Community Source (Open Source).
- Implementation partner: rSmart Group.



Integrated Library Systems (ILS)

- Library Management (LMS)
 - Cataloguing, classification, circulation, journals and periodicals, acquisition.
- Koha (www.koha.org)
 - Steered by a growing community of libraries world-wide.
 - Impressive feature set.
 - Fully customised to our needs.
 - Open Source.



Course Management System (CMS)

- Facilitate the effective delivery of knowledge:
 - Promote learner motivation and involvement.
 - Improve content delivery.
 - Facilitate student/lecturer and student/student interaction.
- eLearning Platform: Moodle (www.moodle.org)
 - Over 233,368 registered users.
 - Over 25,160 registered sites.
 - Over 75 languages.
 - Over 175 countries.
- Open Source.



Human Resource Management (HRM)

- Facility management of staff records.
- Web-based system
 - Developed in-house.
 - Fully customised to the University needs.



Open Source

- Developed and maintained by experts world-wide.
- Source Code is freely available.
- Easily customisable if technical skills are available.
- No licence fees. Free Updates.
- Support is available from other users and developers.
- Open does not mean that the implementation is free.
- Fosters the development of local skills and independence from foreign companies.



Strathmore University has

- Made steady progress in the incorporation of University-wide management systems.
- Developed substantial expertise.
- Forged strategic partnerships with leading international companies.
- Made a substantial financial commitment.



Strathmore University has

- Successfully implemented these systems and fully committed to their development.
- Capable of replicating similar solutions in other Universities of the region, providing consulting services, training and support.
- We are here to stay.



Conclusions

- Project implementation requires:
 - Full study of user requirements.
 - Identification of functional procedures.
 - Full involvement and support from top management.
 - Adaptation of the System to the University and adaptation of the University to the System.



Conclusions

- Each solution requires:
 - Proper design, customisation, integration.
 - Adequate support and maintenance.
- Collaboration between Universities:
 - Joint search for funding.
 - Economies of scale.
 - Develop local expertise.
 - Joint development of further enhancements.

