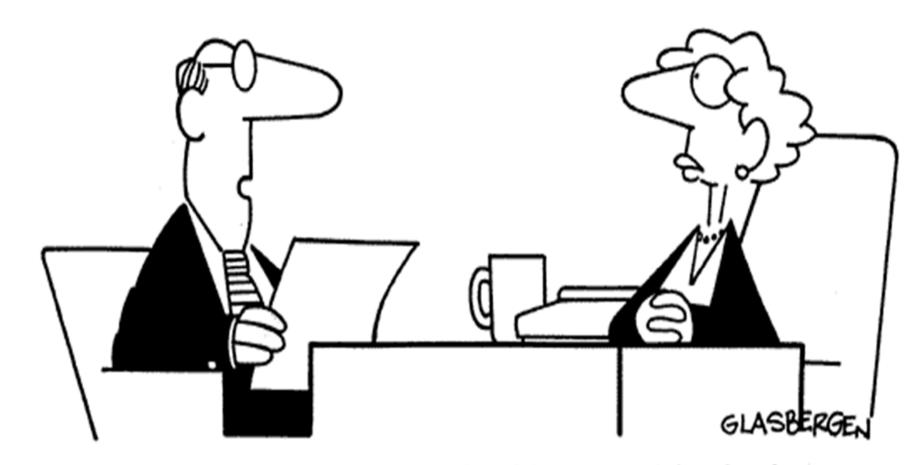






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"My team is having trouble thinking outside the box. We can't agree on the size of the box, what materials the box should be constructed from, a reasonable budget for the box, or our first choice of box vendors."

OUTLINE OF PRESENTATION

- Problem statement of data accessibility and analytics
- E-assessment as a possible solution
- Recommendations towards strategic positioning of Eassessment from an institutional perspective

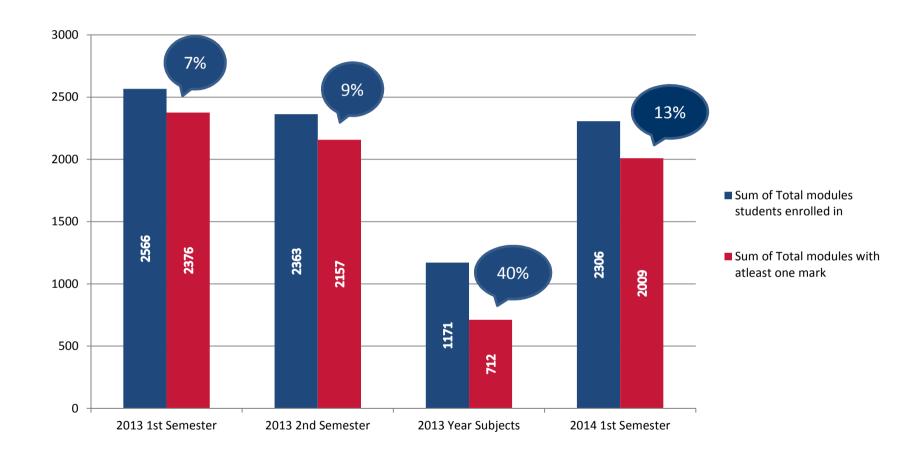


BACKGROUND

- UFS strategic focus student throughput and success
- Evidence based approach to adress these issues within TL
 - Module make over
 - Module Assistance Project (MAP)
- Problems: Institutional data accessibility and quality for real-time learning analytics
 - Various data sources & data silos (PS Gradebook, Blackboard, EvaSys, Personal computers)
 - Operational vs. audited data
 - Lack of evidence on regular student activity
 - Gaps in academic workflow & data maintainance



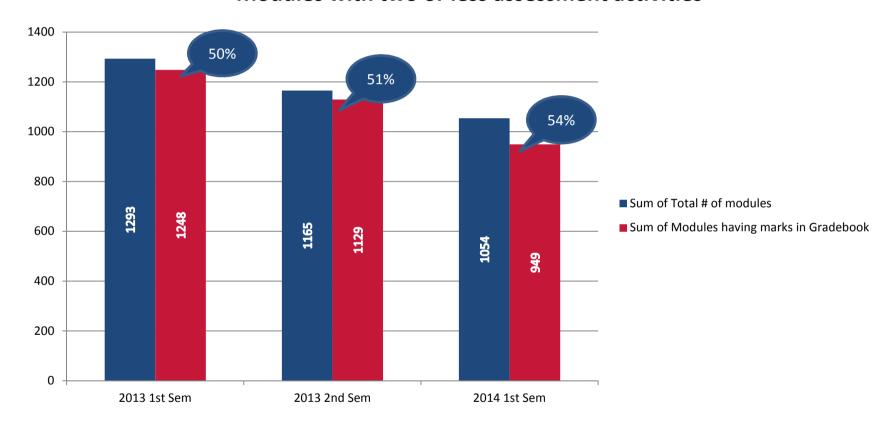
THE REALITY OF ASSESSMENT DATA





THE REALITY OF ASSESSMENT DATA

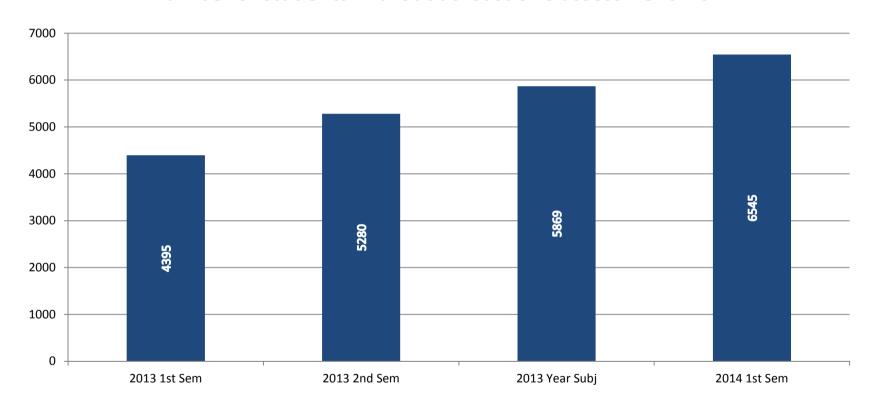
Modules with two or less assessment activities





THE REALITY OF ASSESSMENT DATA

Number of students without at least one assessment mark





ASSESSMENT AS CENTRAL PART OF TEACHING & LEARNING

- Assessment and student engagement
- Assessment impact on student success
- Formative vs. Summative Assessment
- Formative assessment definition: "A range of formal and informal assessment procedures employed by teachers during the learning process in order to modify teaching and learning activities to improve student performance" (Crooks, 2001).
- Summative assessment definition: "Summative assessment is commonly referred to as assessment of learning, in which the focus is on determining what the student has learned at the end of a unit of instruction or at the end of a grade level (e.g., through grade-level, standardized assessments). Summative assessment helps determine to what extent the instructional and learning goals have been met" (Johnson & Jenkins, 2009).
- Traditional reporting based on summative assessment activities
- More frequently available assessment data (formative and summative) will provide more operational data and a better quality data to provide real-time analytics

TALKING TO ACADEMICS ABOUT ASSESSMENT & DATA

Qualitative data from focus groups (10):

- Class size
- Timelines for assessment and feedback
- Work load
- Assessment policy
- Lack of knowledge of administrative systems



THE PROMISE OF E-ASSESSMENT.....

- Computer based assessment vs. Computer assisted assessment
- Advantages of e-Assessment (CBA) (Terzis & Economides, 2011):
 - More regular assessment
 - Time and cost savings in terms of grading
 - Quick accessibility to results
 - Automatic record-keeping

THUS

Learning Analytical techniques can be applied



UNDERSTANDING E-ASSESSMENT AT THE UFS

- Currently students electronically assessed (CBA & CAA) mainly through Blackboard
- UFS invested in the deployment of a specialised institutional e-assessment system for CBA
- In preparation for this deployment an institutional mapping of current practices was undertaken



DESIGNING AN E-ASSESSMENT STRATEGY

Mapping of current eassessment practices

Assessment focus groups with staff & students

Review of international best assessment practices

Draft Assessment Policy (End of October 2014)

Design an e-assessment process (2015)

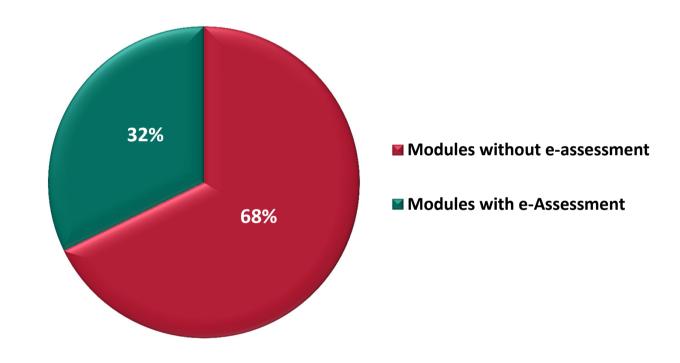
3-year e-assessment plan (2015)



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FINDINGS

Current use of e-assessment at the UFS



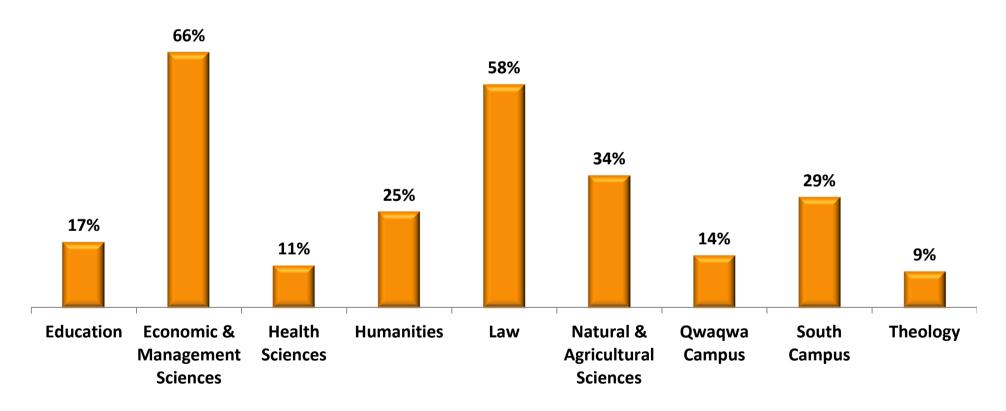
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Modules with e-assessment = 455 Modules without e-assessment = 957



FINDINGS

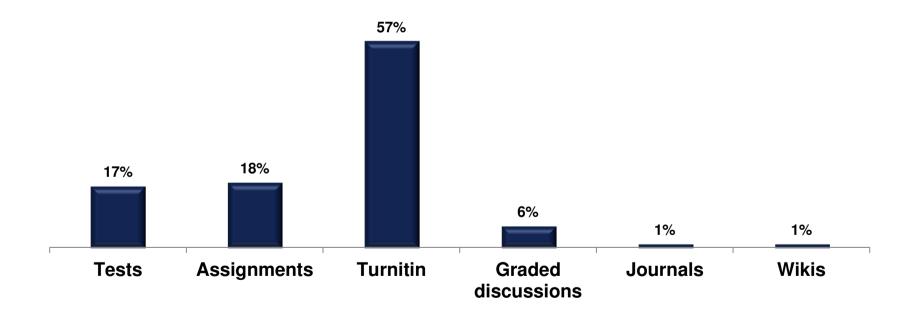
Current use of e-assessment per faculty





FINDINGS

Types of e-assessment used





ADOPTION OF E-ASSESMENT - WHY ARE ACADEMICS NOT USING IT.....

- Security concerns
- Traditional perspectives on objective assessment (MCQ)
- Institutional infrastructure (computer labs)
- Assessment policy & procedures
- Initial time investment in developing question banks
- System training and support (individual)
- Computer skills (staff & students)



RECOMMENDATIONS

- Emphasizing on coal-face the value of data (assessment) & learning analytics in supporting TL
 - Helping management understand...
 - Helping academics understand...
 - Helping IR understand...
 - Helping students understand...
- Strategic position of quality in assessment data
 - Top down vs. bottom up
 - Integration of ICT systems
 - Infrastructure & support
 - Policy & procedures
- Training & support
 - Learning designers
 - Assessment team
 - Individual support



RECOMMENDATIONS

- Measuring the impact....
 - e-Assessment Pilot projects 2015 (11 modules)
 - Larger learning analytics project (40 modules)
 - Click-click project
 - Uncovering the hornet's nest



THANK YOU



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REFERENCES

Crooks, T. (2001). *The Validity of Formative Assessments*. British Educational Research Association Annual Conference, University of Leeds, September 13–15, 2001. Johnson, E. & Jenkins, J. (2009). *Formative and Summative Assessment*. Retrieved from: http://www.education.com/reference/article/formative-and-summative-assessment/

Terzis, V., & Economides, A. A. (2011). The acceptance and use of computer based assessment. *Computers & Education*, *56*(4), 1032–1044.

