



JISC activities in e-assessment

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- JISC works with post-16 and higher education by providing strategic guidance, advice and opportunities to use ICT to support teaching, learning, research and administration.
- Through a range of production, content and advisory services JISC provides:
 - Access to high quality resources to support learning, teaching and research
 - Advice on the creation and preservation of digital resources
 - Information about the implications of using ICT, including legal and organisational issues
 - Front-line support for the FE sector through the Regional Support Centres (RSCs)
 - Network services and support
- JISC researches and develops innovative solutions to fully exploit the potential of ICT
- Visit <http://www.jisc.ac.uk> for further information

- Relatively mature area of work
- e-assessment impacts on and is affected by many factors in the current learning and teaching environment
- JISC, working with its partners, identifying the interdependencies and connections between these
- Seeks ensure that developments do not happen in isolation.

- Funding bodies
- DfES in England
 - Towards a unified e-learning strategy, 2003
 - Partnership with Becta
- Regulatory bodies - QCA, SQA, ACCAC, CEA
- JISC Regional Support Centres
- HE Academy
 - Subject centres
- International partnerships

There are three main areas that both impact on and are affected by e-assessment:

- Institutional
 - strategic, cultural, operational
- Technical – infrastructure support
 - infrastructure, delivery, security
 - standards, interoperability, accessibility
- Technical – learning support
 - content design, presentation,
 - item bank use
- Pedagogical
 - new opportunities for learning and teaching

Other key activities that impact on e-assessment:

- developments in e-portfolios - issues of ownership, short-term/lifelong records
- JISC partnership with Becta to provide a cohesive approach to e-assessment and e-portfolios for schools, post-16 and HE

Activities in this area since 1990's

- Tools, guides and services
 - APIS – Assessment Provision through Interoperable Segments
 - ASAP: Automated System for the Assessment of Programming
 - Assessment Tools in Mathematics
 - ASSIS – Assessment and Simple Sequencing Integration Services
 - CATS: Constructing Assessments using Tools and Services
 - ISIS
 - OpenMentor
 - PyAssess
 - SPAID – Storage and Packaging of Assessment Item Data
 - TOIA
- Standards
- Item banks – IBIS report

- E-framework

http://www.jisc.ac.uk/index.cfm?name=elearning_framework

- E-admin – impact of e-assessment of administrative processes and business processes

- Design for learning

http://www.jisc.ac.uk/index.cfm?name=elp_designlearn

- Learner experiences of e-Learning

http://www.jisc.ac.uk/index.cfm?name=elp_learneroutcomes

- Innovations projects

http://www.jisc.ac.uk/index.cfm?name=programme_elearning

- Implementing PDP through e-portfolio

- e-Portfolio - UCAS

Scottish e-Learning Transformational projects

- Transformational change will require a conscious and deliberate decision made by (one or more) institutions to do something differently, in a systematic way, across the whole institution, on a defined timescale of two or more years.
- **REAP - Re-engineering Assessment Practices in Scottish Higher Education**
Aims to pilot transformational change based on the implementation of technology-enhanced assessment practices in formative assessment in Higher Education utilising a range of technologies www.reap.ac.uk
- **ISLE – Individualised Support for Learning through ePortfolios**
Aims to develop a sustainable model of effective FE/HE collaboration to move the concept of PDP forward to a new level through the integration of the various blended learning tools (e.g. VLEs, ePortfolios, and diagnostic assessment tools) and by developing an individualised, self-reflective learning environment for students. <http://isle.paisley.ac.uk>

- **MLEs for Lifelong Learning Programme**

- Six documents aimed at different audiences within HE institutions to help make informed choices about e-portfolio systems form a range of different perspectives:

- Generic guidance: http://www.jisc.ac.uk/uploaded_documents/Guidance_final.doc

- A starting point for institutional managers in HE:
http://www.jisc.ac.uk/uploaded_documents/Guidance_man.doc

- A starting point for MIS managers in HE:
http://www.jisc.ac.uk/uploaded_documents/Guidance_MIS.doc

- A starting point for technical developers in HE:
http://www.jisc.ac.uk/uploaded_documents/Guidance_tech.doc

- A starting point for students in HE:
http://www.jisc.ac.uk/uploaded_documents/Guidance_student.doc

- A starting point for Personal Development Planning (PDP) practitioners in HE:
http://www.jisc.ac.uk/uploaded_documents/Guidance_PDP.doc

JISC continues to support a range of development initiatives and studies

Outcomes include:

- a range of tools and software development
- a reference model
- a roadmap
- case studies
- A new publication on effective practice in e-assessment
- a glossary

- These activities and input from the community will help us identify appropriate ways to take development work forward next year
- Building on previous outcomes – a vision for the future and practical tools to use now

<http://elrond.cetis.ac.uk/projects>

CATS	Assessment	Strathclyde/Caledonian
LIPID	Enterprise	Wolverhampton
MINTED	Enterprise	Sussex
Smirk>Perception	Enterprise	Hertfordshire
R2Q2	Assessment	Southampton
eProfile	Enterprise	Essex
ioMorph	Enterprise	Phosphorix
JoinIn	Enterprise	OU
TReCX	Tracking	Oxford
Flowtalk	Forum	Cambridge
Socket	Consumer	Leeds
Saving Private Data	Content Delivery	Cambridge/Icodeon

- Service oriented approach
 - International - DEST, SURF, JISC
 - e-Learning, e-Research, e-Admin
 - And common infrastructural services
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- Service Genres
 - Service Expressions
 - Reference Models
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- www.e-framework.org

- Define the scope of the Assessment domain terms of existing practice
- Define common Assessment solution patterns in terms of use case studies and scenarios
- Relate them explicitly to the ELF in the form of a service profile and service descriptions
- Provide prototype services that fulfil the profile of the Assessment domain, act as proof of the Assessment Reference Model and allow the reference model to be evaluated.



<http://www.frema.ecs.soton.ac.uk/index.htm>

- Reports due soon
- The survey probed experts' opinions on the following issues:
 - The timings of policy implementation i.e. their realisation in HE and FE (2009 deadline by QCA, not so in Scotland)
 - The way in which e-Assessment can make a significant contribution to cutting the burden of quality of assessment
 - Ways in which e-Assessment will make a significant contribution to improving quality of e-assessment
 - The implications for the vision set by the policy documents (some maybe unforeseen)
 - Visions for the future
 - Barriers to the visions

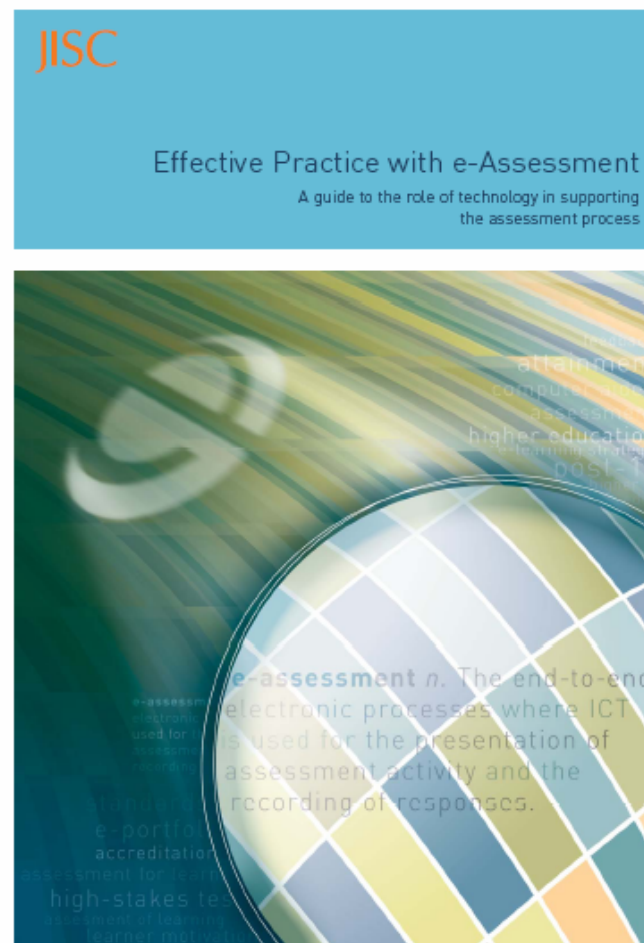
- Policy pressure main driver in England and Wales
- Affects FE more than HE
- More reliance than maybe anticipated on the commercial sector
- More use of formative e-Assessment
- More research funding into text recognition becoming acknowledged
- More interactive assessment rather than MCQs needed

- In a variety of institutions and contexts
 - Confidence Based testing
 - Single champions in an institution
 - Large scale e-assessment outside HE and FE
 - Science and mathematics Domain
- Investigated
 - Innovation
 - Effectiveness
 - Maturity
 - Availability
- 17 case studies - 55 potential institutions across UK mostly in HE and FE

Region	HE	FE	Commercial
England	22	10	2
Wales	4	1	0
Northern Ireland	2	2	0
Scotland	8	4	0

- Published as part of the upcoming effective practice with e-assessment guide

- A guide to e-assessment from the JISC e-Learning Programme will be published autumn 2006. Effective Practice with e-Assessment will explore the role of technology in supporting the assessment process and will include cross-sector examples of effective practice.
- Register for a copy by
- emailing info@jisc.ac.uk



- Single UK wide glossary of terms of e-assessment
- Supported by all UK regulators
- Launched January 2006
- 700+ terms
- Audiences include:
 - Teachers
 - Academics
 - Awarding Bodies
 - Regulators
 - Vendors
 - Institutions
 - Learners

- Fully searchable on-line glossary available from the link on www.jisc.ac.uk/assessment

- **CETIS – standards and specifications**
 - <http://assessment.cetis.ac.uk>
- **JISC Plagiarism Advisory Service is available to assist institutions detect student plagiarism**
 - <http://www.jiscpas.ac.uk>
- **JISCinfoNet – Effective use of VLEs Infokit offers information on e-assessment**
 - <http://www.jiscinfonet.ac.uk>
- **Netskills workshop on Assessment and Communications for e-Learning**
 - <http://www.netskills.ac.uk>
- **Techdis – advise on accessibility**
 - <http://www.techdis.ac.uk>

- Centre for Educational Technology and Interoperability Standards
- Community building through SIGs
- Supporting JISC projects + programmes
- Representing UK-HE on International Standards bodies (IMS, IEEE etc)

- www.cetis.ac.uk
- www.elearning.ac.uk

- Can be used as an educational tool to highlight areas of concern
- Can raise awareness of many of the issues relating to plagiarism
- Can open up discussions about academic integrity
- Will highlight inadequate assessment practice
- Can act as a catalyst for change
- 'Levels the playing field'

- 60% of Universities currently registered to use detection software
- Joint JCQ/AoC funded project examining issues in FE underway
- Awarding bodies currently considering potential of software
- Recent International conference
- Number of universities and colleges adopting holistic approach
- Professional bodies and schools beginning to consider the issue

- Linkage of Roadmap of e-Assessment to equivalent roadmap for e-assessment in schools
- E-portfolio roadmap in conjunction with Becta
- Projects around innovative assessment practice – use mobile technologies and gaming
- Effective practice with e-assessment
 - Glossary, Roadmap, Case Studies and other guidance
- Standards, Interoperability, Accessibility
- Consistent language
- Advising the education community
- Partnerships and collaboration
 - Including Becta, HEA

- Identifying what the community needs – holistic approach

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- This presentation and links to JISC e-assessment work at www.jisc.ac.uk/assessment