Implementing a university e-learning strategy: levers for change within academic schools

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Implementing a university e-learning strategy: levers for change within academic schools

Abstract

This paper describes the implementation of an e-learning strategy at a single higher education institution in terms of the levers used to promote effective uptake and ensure sustainable embedding. The focus of this work was at the level of the academic school using a range of change practices including the appointment of school based learning technologists and e-learning champions, supporting schools to write their own strategies, a pedagogical framework of engaging with e-learning, and curriculum development and evaluation of school supported projects. This implementation plan was driven by existing evidence on effective development practices and our experiences are discussed in the context of the current literature. The impact evaluation of these activities draws on existing audit data, documentation and feedback as data and uses illustrative examples to provide a picture of the student experience. It is clear that the implementation of the e-learning strategy has led to a large and increasing proportion of our students experiencing blended learning. In addition, there are initial indications that this has enhanced the learning and teaching processes in some cases and we point towards where these are being investigated further. Where there has been sustainable embedding of effective e-learning, the following levers were identified as particularly important: flexibility in practices which allow schools to contextualise their plans for change, the facilitation of communities of key staff and creating opportunities for staff to voice and challenge their beliefs about e-learning.

Keywords: e-learning, embedding, communities, beliefs.
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Introduction

There have been many attempts to identify what is needed to promote the adoption of technologies within higher education institutions. There are commonly recommendations for leadership, technology infrastructure, institutional vision and provision of resources (e.g. Wills & Alexander, 2000; Garrison & Anderson, 2003; Banks & Powell, 2002). Within our own institution, and many others, such advice has led to the creation of a learning media unit, the purchase of an institutionally supported virtual learning environment (VLE) and the development of an institutional e-learning strategy. For example, in a recent UK survey, Browne and Jenkins (2003) found that 86% of higher education institutions who responded to the survey now have at least one VLE in use. However, both Browne and Jenkins and a similar study conducted by Bell et al (2002) in Australia, report that although VLE use is widespread, it is predominantly supplementary, optional for students and does little to change the patterns of learning and teaching. To illustrate the scale of the problem, Lee (2004) shares figures about VLE usage in his own Australian institution, admitting that in an examination of 700 online courses less than half were using discussions and less than a third using formative assessments. Our challenge then is not promoting uptake, but facilitating effective implementation across an institution which is likely to significantly impact on student learning.

By 2002, Oxford Brookes could admit to being in a similar position. By this time we had created our Media Workshop, rolled out a VLE, appointed a Head of E-learning, supported a number of pilot projects and had the beginnings of an institutional strategy for e-learning. As we had hoped, the usage figures for our institutionally supported VLE were showing impressive increases in requests for new courses. Yet — with some notable exceptions — the bulk of this use was relatively unsophisticated and focused on content delivery. We recognised that this is a dangerous position to be in. Newton (2003) taking an ethnographic approach to the implementation of a learning and teaching strategy at a single UK university found that patchy implementation, evidenced by missed deadlines and targets, influenced academic perceptions of the value of having a strategy at all. Our concern was that lack of sustained and effective implementation could lead to e-learning developments being dropped when the next initiative came along.

The task was to put together an institutional implementation plan which would result in sustainable and effective uptake of technologies which improved the student experience. There are a large number of development tools and processes on which to draw and we were keen to develop an implementation programme which was based on the evidence emerging from the literature. This paper explains the rationale for the methods we chose, describes how they were implemented and draws on our experiences and existing evaluative data to make recommendations about which methods were most successful and worthy of further investigation.

The Browne and Jenkins survey showed that the most frequently used development tool for supporting VLE use is still project funding often associated with staff time release. Supporting individuals through project funding can support the development of innovative practices (Hannan & Silver, 2000) and we had already funded a number of pilot projects
previously (Challis & Lidgey, 2000). We considered instead approaches undertaken by institutions to promote the effective and/or sustainable use of e-learning. These appear to be many and varied and include accredited professional development programmes (Beetham & Bailey, 2002), bringing ‘pioneers’ together at University of Twente (Collis & De Boer, 1999), understanding individual lecturers motivations to make use of technology at Bournemouth (Hanson, 2003) and the Computer Supported Experiential Learning curriculum re-design model used at University of Central England (Staley & MacKenzie, 2001). Which of these might be successful and worth pursuing?

Oliver and Dempster (2003) reviewed a number of such different initiatives for developing e-learning practice and concluded that

> There appears no ready model – no single, clearly successful path – that ensures e-learning will be embedded. The operational context is thus crucial to the choice of tactics that are likely to lead to success (p. 144).

More recently, Stiles (2004) has argued persuasively that

> Clearly understanding where you are starting from is as important as understanding where you want to get to. Expanding the use of eLearning in an institution requires a clear and honest analysis of the organisation in terms of strengths and weaknesses viewed against its strategic goals (p.14).

We would agree that consideration of context is essential in the planning of any institution wide change programme. The first stage of developing the implementation programme was to conduct such a deliberate analysis of our current institutional context.

**An initial analysis of context**

Oxford Brookes University is a post 1992 UK university with a longstanding international reputation for supporting educational innovation, student centred learning and promoting e-learning. Oxford Brookes has been particularly good at supporting early adopters of learning technologies. Examples include such initiatives as IT Term (Baume, 1996), the funding of 11 Brookes Virtual projects (Challis & Lidgey, 2000) and the founding of the Media Workshop in 2000. Our innovators are energetic and support pockets of good practice around the university. For example, in July 2002 we had hosted our second biennial internal one day conference on e-learning with over 100 attendees. Many of these people had success stories to show and tell, and their enthusiasm for their work with e-learning was a powerful motivation to others. Their contribution to the change achieved to date is not to be underestimated and we saw a clear need to recognise and reward the efforts of these individuals, as well as to make their lives easier.

Brookes has a highly federated structure with semi-autonomous schools that develop their own initiatives and directions. Consequently in the early stages of VLE implementation different schools developed e-learning in different directions. For example, some were interested in reusable content, others were mostly concerned with communicative technologies, yet others with computer-aided assessment. Neither the university nor schools had specific objectives for e-learning. E-learning development was focussed on central support for the initiatives of the individual enthusiasts and early adopters. By 2002 it was clear that we needed to move e-learning into the mainstream. A head of e-learning was appointed and a task group was convened to develop a university-wide e-learning
strategy to replace the previous Brookes Virtual project plan. This was approved in November 2002 as an annexe to the university Learning, Teaching and Assessment strategy.

Given this institutional context, the programme of implementation was focussed around our aims to:
- develop ownership and commitment to the university strategy at the departmental level
- harness the energy of our innovators to drive change forward
- support staff to make educationally sound choices about using technology
- involve heads of school and other senior managers, starting with making them aware of the groundswell of energy and good practice already occurring.

A pedagogical framework for engaging with e-learning

The university e-learning strategy was deliberately short on targets and the only easily identifiable target was that all courses should have some kind of web presence by September 2004. This type of target is common, for example Lisewski (2004) reports that Salford University required that all modules should use the Blackboard VLE to establish a web presence. In their survey, Browne and Jenkins (2003) report that this was actually the most common type of target in implementation strategies. However, they also point out that setting such a target may not allow for examination of reasons for using technology and may reflect bulk registration of courses. Our target differs from these in two crucial ways: first, it did not require use of the institutional VLE and second, it did not relate to modules, using the vaguer term of ‘courses’. This allowed — indeed encouraged — discussion of precisely what the target meant. Although this was uncomfortable at the time, in retrospect it was very useful to engage schools in this debate.

Despite this 100% usage target, our interest is not in promoting the use of e-learning for its own sake but improving the student experience by incorporating e-learning effectively into teaching. Although there is evidence of the e-pedagogies which can support student learning, the literature is complex and at times contradictory and academics can find it overwhelming (Conole et al, 2004). We wanted to support staff to engage with discussions about how best to make use of technology and offer them some simple guidance about what are known to be effective strategies. To keep learning design at the very centre of discussions about e-learning, we developed a pedagogic framework for e-learning which we called the ‘modes of engagement’ (see Figure 1). This allowed us to codify what are considered to be effective e-learning practices and present this in a way which was easily accessible to academics.
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Fig 1: E-learning Modes of Engagement

**Mode 1**  
baseline course administration and learner support

Use web to distribute course information and carry out course administration (chosen from the following): aims and objectives, assessment criteria/pro formas, past exam questions and model answers/assessment sheets, timetabling announcements, reading lists, tutor contact details, course evaluation tools, FAQs, additional web resources, links to field level resources, course/module handbook, lecture notes.

**Mode 2**  
blended learning leading to significant enhancements to learning and teaching processes

**Communication**  
Provide improved tutor-student, student-student communications, mainly using discussion boards or email. Enable students, especially in disparate groupings and locations, to exchange information, ask questions and discuss issues relating to the course.

**Assessment**  
Provide improved feedback to students on their learning via computer assisted assessment for either formative (self-assessment and monitoring of progress) or summative (examination and grading) purposes or both. May involve electronic setting, submission and return of student assignments using digital artefacts and pro formas where objective testing inappropriate.

**Collaboration**  
Provide a platform for collaborative student projects, involving shared responsibility for resources and outcomes. Students use communication tools and shared directory to collaborate on task processes and outcomes.

**Learning content**  
Develop flexible access to high quality, reusable learning content, which may include structured gateways to web and other resources with accompanying self-paced independent learning activities, interactive tutorials with feedback, simulations, study and learning skills resources and activities fostering independent learning.

**Mode 3**  
on-line course/module

Develop module/course incorporating all or most of the above that can be delivered flexibly to allow learners to learn at times and places of their choosing. Likely to include presentation of course materials, communication between tutor and students, self-assessment and monitoring of progress.

The modes of engagement framework was initially produced to allow us to engage in conversations with course teams about what they want to do. In fact, it has had a much wider impact. It has become a focus and a structure for staff support and development. For
example, all staff development workshops are labelled by the mode they best support. Central data captured about WebCT courses now routinely includes categorisation by mode. For example, the online ‘Go Live’ process by which staff request that their WebCT development site be transferred to a live course for use by students requires description of the mode and the type of pedagogic enhancement being implemented. A database holding all the central data about WebCT courses has been enhanced by schools auditing WebCT use and adding descriptive, pedagogic data to the usual information about registered students and module codes. Figure 2 shows an example of this. Such data allows us to easily locate modules using for example, WebCT communication tools or formative assessments and provides a common reference framework for evaluation.

Figure 2: Example of data held about a WebCT module, including mode of engagement.

**E-learning Champions**

Reward is seen as crucial for any e-learning initiative although there has been some debate over what are considered the most appropriate rewards including promotion, accreditation or opportunities to publish (Oliver & Dempster, 2003; Beetham & Bailey, 2002). In our strategy we opted for promotion requiring the appointment of an e-learning champion within each of the eight academic schools. The appointments were generally unproblematic in that there were often obvious candidates from among existing early adopters. Often this was the first formal reward for innovators that recognised longstanding activity and rewarded success in e-learning. Having a named group of innovators also raised the profile of e-learning in the University.

Although we had supported innovators before, we hadn’t given them a school wide remit to champion the use of technology. There was evidence coming from Coventry University of the success of their learning and teaching ‘task force’. Here 26 academics were not only released from teaching to conduct innovative projects, they also had a larger mission to effect change at school and institutional levels (Beaty, Cousin & Deepwell, 2002). We provided schools with suggestions of roles for champions, including to...
write an e-learning strategy for their school
identify local areas of action
collate and disseminate good practice in e-learning
contribute to research and publication related to e-learning.
consider staff development needs for the school using a cascade model

We were keen that our e-learning champions would input to institutional strategy, starting with writing an e-learning strategy for their own school which would be owned, local and relevant. Providing a learning technologist, often managed by the champion, aimed to create a local power base, providing authority, support and resources.

**Learning Technologists**

The e-learning strategy also included the appointment of a Learning Technologist within each academic school. These appointments turned out to be more complex. This was a new role, the only precedent within the University being the Media Workshop staff and there were vigorous debates about their roles and relationships with academic staff. Building on previous national work (Oliver, 2002) we provided schools with a template for a job description and person specification and sat on interview panels on request.

The school-based learning technologists have the potential to be a powerful group and it was necessary to co-ordinate their activities in some way to ensure that their impact was felt across the whole institution and not solely within their school. The Media Workshop took on responsibility for the staff development and later career development of this group, beginning by hosting a monthly learning technologist forum on a Friday lunchtime. As the primary function of this was to induct the learning technologists into their new roles and help them develop the skills they would need to perform these effectively, we sought support from the university Human Resources strategy to fund their time commitment for ½ day a week. On appointment, each school was given this small amount of money for their learning technologist to attend the forum regularly.

**School level e-learning strategies**

In his influential guide to good practice in implementing institutional learning and teaching strategies, Gibbs argues that institutions need to concentrate on how strategy is developed, over and above what it says (Gibbs, 1999). Accordingly the e-learning strategy attempted to employ both top-down and bottom-up approaches to implementation (Fitz, Halpin & Power, 1994; Trowler 1998). As well as specifying central objectives for the University, it put forward initiatives designed to encourage school management buy-in to e-learning and to elicit bottom-up activity. A key plank of this approach was the recommendation that each School develop, publish and maintain their own e-learning strategy. These mechanisms encouraged Schools to debate and explore how they could use technologies to achieve their own and the University’s goals and allowed staff to articulate and voice their beliefs about teaching and learning with technology.

We were aware of previous findings that creating communities of innovators may not achieve real change, but just create separate communities (Oliver & Dempster, 2003) so involving the e-learning champions in this process aimed to empower them as leaders in
innovation in teaching and learning and embed their work into departmental practices. However, it quickly emerged that the individuals and in many cases groups tasked with developing school strategies needed support and we produced and distributed a template for a school strategy. The template comprised sections on: background and rationale, goals and outcomes, evaluation and dissemination and resources. We answered questions quickly as they emerged and often made the answers public. The template was distributed with a covering memo which clearly explained why they had been asked to do this and what the benefits would be.

The section on goals and outcomes asked schools to identify which developments they wanted to support. We asked schools to pick a small number (usually 3-5) of high impact projects to focus their developments on. High impact has often meant choosing large, level 1 undergraduate modules or programme wide initiatives which will impact on many students, courses to which many of the school staff are involved in teaching or those courses which fit well with the school’s wider strategic plan.

Following Laurillard’s (2001) advice about promoting action-research with results which can be fed back into the course design process, the final section of the template for school e-learning strategies asked schools to think about how they would evaluate their e-learning implementations. Evaluation encourages a critical discourse about what works and supports staff to continuously improve their practice, as well as giving valuable stories for dissemination throughout the institution.

**Targeted staff development**

It was seen to be a crucial part of the implementation of the university e-learning strategy that staff development was planned and used effectively so part of the schools strategy template included making plans for staff development. When asked to make requests for staff development, schools first response was often to ask for WebCT training for all staff. This type of training is directed at the individual, largely abstracted from their working practice. Participants in them go away and soon forget how to do the things they have been shown. Rather, ‘learning-in-working is an occupational necessity’ (Seely-Brown & Duguid, 1991, p 43). We spent a lot of time helping schools to plan appropriate staff development linked to their school supported projects.

Identifying the school supported high impact projects allowed us to target our staff development where needed. As a result of this we have been able to organise working directly with course teams on key school supported projects, devising staff development opportunities that stress learning by doing. Once a school supported project has begun, the course teams are invited to come on the two day course (re)design intensive experience with their expanded course team including their learning technologist and e-learning champion. This event recognises that e-learning courses do need high levels of planning. We take course teams through a guided planning process supported by such tools as blue skies thinking, storyboarding, and risk assessment, culminating in presentations to critical friends. This follows the type of planning recommended by the Embedding Learning Technologies programmes which resulted from the EFFECTS project (Stiles & Yorke, 2003) and supports the development non-technical skills needed including curriculum
development, evaluation and resource planning which support all course team members to take on new roles (Dempster & Deepwell, 2003).

We also worked with the Director of Human Resources to link the resources section of the template to overall school staff development plans and importantly – its funding. In the second year of operation, this link has become even stronger as we have shifted our timing to coincide with the writing of school staff development plans and asked all plans to include a statement about e-learning.

Evaluation and discussion

The evaluation is primarily concerned with the success of implementing the e-learning strategy and identification of development activities which were instrumental in that process. The evaluation section draws on existing data to assess the relative effectiveness of the implementation methods adopted and explore what might underpin effective activities for embedding e-learning. In addition, we offer three illustrative examples of detailed evaluations being conducted with the course teams from school supported projects which explore the learner and tutor experiences and aim to demonstrate enhancements to learning and teaching through Mode 2 developments.

Use of the institutional VLE

Student use of the VLE has increased dramatically over the previous two years (see Figure 3). Currently approximately 15000 of the university’s 18000 students (83%) are using the VLE for at least one of their courses. The number of new courses created in September each year has also been recorded (see Figure 4). It is likely that the increase in the requests for new WebCT courses in the period leading up to and including September 2004 was largely a response to the university target for all courses to have a web presence by this date. As of the end of March 2005, Brookes had 1100 WebCT courses with over 65000 student-course relationships. This represents an average of just over three WebCT modules per student in the University.

Figure 3: Number of students using the institutional VLE (2001 – 2005)
Examples of effective use

To illustrate the type of use being made of the VLE, three high impact school supported projects are described below in relation to the modes of engagement framework (see Figure 1). We have followed these initiatives for more two years from their initial identification in school strategies, through planning the staff development requirements, working with the course teams on the course design intensive and supporting the learning technologists to develop the specific skills they would need to implement the course teams’ designs. This level of involvement with course teams has gained us the credibility needed to be invited in to share in the evaluation which is often done privately. The evaluation methodologies are different in each case in order to provide data which is useful to the course teams and the specific research questions. There are plans to publish each of these evaluations separately.

Health and Social Care is one of the largest academic schools, and in 2003/4 less than 10% of students studied modules that involved Mode 2 enhancements involving student-centred, interactive learning activities. In its e-learning strategy the school devoted significant, concentrated resources to developing three very large, undergraduate, interprofessional learning modules for Mode 2 enhancements. Effective interprofessional learning is both ‘high stakes’ and difficult to implement. Positive learning experiences may be confounded by negativity in professional practice (Barr 2002) and students may transfer any negative perceptions of their educational experience into their professional practice (Freeth et al 2002). The course team aimed to address this using online communication to promote and enhance knowledge construction in multi-professional teams. They developed the modules over the year with input from the school based learning technologist, Media Workshop Learning Technologists and educational developers. As a result of this single, large-scale project, in 2004/5 approximately 30 school staff and over 40% of all Health and Social Care undergraduates were involved in Mode 2 use of the VLE.
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VLE. For example, the first year Partnerships in Practice module was redesigned from a predominantly lecture format to teaching entirely through seminar groups working on collaborative assessed tasks. The group of approximately 300 students were divided into seminar groups which met face to face and had access to a range of discussion areas within the VLE where they worked through planned activities and prepared their assessed work. At the end of the module feedback was collected from students in the form of SPOT analysis where students were asked to identify and agree in their subsets the top three strengths, possible improvements, opportunities and threats of the module. Students identified as strengths working in a multidisciplinary team, including the sharing of perspectives and opinions and WebCT as a way of communicating with groups and as a resource. Interviews were conducted with seven seminar group leaders concentrating on their changing roles as a face to face and online tutor and the changing relationships with their students. Findings from this evaluation will be published separately.

The School of Business e-learning strategy emphasised core skills development, improved feedback to students on their learning and on module selection in the first year. A key development was diagnostic testing and formative online quizzes in a single, core, first year module. This development involved 95% of first year students, around 30% of the school’s total undergraduate enrolment. The use of this computer assisted diagnostic assessment provided students with guidance on the selection of their modules in their first year (Benfield & Francis, 2004). A different example, in this case enhancing learning by incorporating learning activities contextualised to modern business practices, involves the Business School’s Team Challenges module which is taken by approximately two-thirds of all first years. In 2004 a ‘virtual task’ was introduced into the module which requires students to engage with a complex collaborative online task. The module leader reports a generally higher standard of reflection on team theory and students express high levels of satisfaction with the appropriateness and relevance of the new activities to the learning outcomes. Data is being collected through student focus groups and will be published separately. When we include several other smaller second and third year Mode 2 developments in the 2004/5 academic year, the Business school increased the number of students working on Mode 2 enhanced modules from well below 10% to above 40%.

A final example illustrates the different tempo and focus of developments in different schools. In 2003/4 the school of Biological and Molecular Sciences already had in place a significant Mode 1 web presence, in the form of a well-resourced intranet with key module and course information. There were several highly innovative Mode 2 enhanced modules but these engaged only very small numbers of students. In 2004/5 the school began to implement extensive online formative quizzes for first year Biology students, giving them choices of when and where they can practise skills and obtain feedback on their learning. In just a year, from a negligible base the school involved almost all of its first year students in Mode 2 enhanced modules and well over a third of all its undergraduate students overall. We are already seeing initial indications that retention of first year students has increased and this is under further investigation.
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**Levers for change**

The usage data and examples of school supported projects are evidence of the increased uptake of e-learning and more importantly, its embedding within school teaching activities. The remaining focus for the evaluation was to explore the elements of the implementation activities which were most influential.

**Contextualisation:** The most influential lever for change has been the production of school e-learning strategies which allowed schools to set their plans for their own developments within their own context. Within the devolved organisational culture described earlier this allowed schools to follow their own paths rather than insisting on consistency across the institution. There were several particular features of the school strategy process which are worthy of note:

- Asking Champions to devise their school’s e-learning strategy ensured it was owned, local and relevant. We have seen a proactive culture emerging within schools taking their own responsibility for e-learning within their own domains rather than seeing it as being something which is done to them.
- Linking the staff development section to the existing annual staff development planning cycle and its associated funding. This enabled planning for e-learning to be integrated into existing university systems and associated the strategy writing process with a small amount of funding.
- The section of the template on rationale and goals led to a great deal of discussion and debate in some schools.
- The notion of ‘school supported projects’ reduced the pressure on individual innovators to produce a successful project, involved greater numbers of staff and students and forced the issue of sustainability of e-learning within school systems and processes. Schools have engaged with this process and it has led to a great deal of debate and discussion. Some schools conducted show and tell sessions to provoke discussions on rationale, objectives and underpinning pedagogic philosophy for e-learning. For example, the Business School spent time sorting out their rationale through convening a series of meetings and discussions. The outcome of these was that they concluded that

  The school’s e-learning strategy …emphasises the development of computer mediated communication whilst recognising quality content development may be required to add value to the learning experience (OBU Business School 2004)

The School of Health and Social Care, on the other hand, stated that

  E-learning initiatives are based on constructivist/collaborative learning models. Online learning will be utilised to develop student-to-lecturer and peer-to-peer mentoring capabilities leading to awards that are competency-based, emphasising learning outcomes rather than teaching input (OBU School of Health and Social Care 2004).

Several schools have now convened e-learning groups or committees to progress their work. Schools are now thinking more clearly about how to use e-learning and e-learning activists are working hard on school supported initiatives.

**Community**. Previous work has emphasised the importance of building supportive communities for innovators. In the ‘hub and spokes’ model used at Coventry University, teaching fellows came together in action learning sets and emphasised the importance of the informal and social aspects of this group. Although the appointment of teaching
fellows started out aiming for a critical mass of innovators, it quickly became apparent that the community was going to have more influence (Beaty, Cousin & Deepwell, 2002). Similarly, Lee (2004) reports on staff development for ‘innovative teaching and educational technology fellowship’ holders which explicitly aimed to foster cross disciplinary communities. As part of a comprehensive staff development programme for these fellows, they are split into groups of 5-6 which meet regularly to discuss each others projects.

We worked hard to create a community within the learning technologists group. This is a difficult yet important task as naturally they identify first with the school-based communities they work in. However, for school learning technologists to be effective as ‘brokers, taking practices from one context and introducing them to others’ (Oliver 2003, p 265), it is vital that they identify with a similarly vibrant community of their own. The telling of stories and collective problem solving are essential elements of communities of practice (Lave & Wenger 1991; Seely-Brown & Duguid 1991; Blackler, 1995). Effective communities circulate news and information, build and preserve new knowledge and express professional identity. Using data obtained from interviews with learning technologists, we have found that ‘there is strong evidence that in the two years since the Learning Technologists' Forum was established a community of practice of learning technologists at Oxford Brookes University is emerging…. In many cases the school-based learning technologists have become firmly embedded in their schools. They are effective brokers of e-learning practice and agents of change in the University.’ (Benfield, in preparation).

Our learning technologists have monthly meetings, an email list, their own WebCT site and they participate as a group in professional development workshops. Noting that a characteristic of communities of practice is mutual engagement, Oliver (2003, p 263) comments that for some groups of learning technologists ‘the intensity of these engagements is questionable’. To address this problem the Learning Technologists Forum works on university-wide projects and issues. For example, this group successfully lobbied for the University’s adoption of the CourseGenie web content development tool and supports its use; it is a source of examples of good e-learning practice that are disseminated through the University’s Open Exemplar database; it has driven enhancements to the exchange of data between the VLE and the student management system.

Teachers’ beliefs: Our focus on working with school supported projects and course teams enabled us to focus on educational decisions before the technical ones. We consider it vital to tackle real life educational issues rather than hypothetical ones. Where Hanson (2003) conducted focus groups with staff to understand their attitudes and motivations to use technology, we took the importance of changing perceptions as a theme right through all our development work. The modes of engagement focussed on individual teachers’ belief, the school strategies on Dean’s beliefs, and the course design intensive on course team beliefs. For example, in feedback about one of the intensive events participants commented that they valued:

Enforcing the course team to consider some absolutely fundamental issue relating to course design.
Thinking critically about our programme.
Provoking thoughts on the purpose of teaching, learning and assessment generally.
Opportunity to do this as an identified staff team – useful as a team building exercise.

All of these staff development methods were about changing perceptions of what could be done. Similarly Errington (2004) in looking at staff development for flexible delivery at Massey University, NZ, postulated that adoption or rejection of innovation is likely to be due to beliefs as much as it is due to infrastructure. He recommends that staff development engages teachers in dialogue about their personal theories of learning and teaching, acknowledging their fears and matching this with theoretical perspectives and offering appropriate support.

Conclusions

The initial aim of this project was to develop an implementation plan which would not only increase the uptake of e-learning at the institution, but promote the development of effective and sustainable e-learning courses. It can be seen from the combination of the usage data and the illustrative examples that within some academic schools a large and increasing proportion of students are now experiencing blended learning. A number of detailed evaluations are underway to assess the ways in which teaching and learning has been enhanced through Mode 2 level of engagements.

In this paper we have reflected on the development activities undertaken to implement the university e-learning strategy. The implementation plan was always intended to be based on existing recommendations for the adoption of learning technology and as such, some of our successes confirm what makes for effective development interventions. We identified specific activities which were successful, but noted that this was likely to be due to some elements of effective interventions: contextualisation, community and teacher’s beliefs, rather than the activities per se. For example, we found that asking schools to write their own strategies was helpful and argued that this was because emphasis at the school level fitted what was needed within our institutional context and promoted the discussion and debate which influences individual teachers’ beliefs. Not all of our experiences and reflections are so easily apparent from the available literature. It is noted that in our case school level strategies achieved buy-in (rather than strategy fatigue), that the learning technologists went beyond being influential as individuals to developing as a community of brokers and that engaging developers in targeted, contextualised staff development impacted favourably on implementation and evaluation.

In line with our original analysis of context, we aimed to move away from successful, but small innovative projects which depended on a single enthusiast. Now our school based developments often continue to be lead and driven by our innovators, but they are not solely dependent on them for their implementation. It is anticipated that the courses will be sustainable in the long term as they are supported by their Deans, their local strategy for e-learning and central and school based learning technologists and developers.
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References


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