UCD IT Services

Seirbhísí TF UCD

Annual Review 07

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Highlights

For students:

- 1GB disk key for incoming 1st year students
- 500MB email storage for all students
- 500MB network file storage for all students
- 3,908 attend free induction course
- 60% of students enrol online before coming to UCD

For staff:

- 1GB email storage for all staff
- Unlimited file storage for all staff
- New ITCentre opens in Newstead
- “On-demand” storage hosting provided in Daedalus

Any time services:

- UCD Connect reaches 24,000 users in October 2007
- New research portal launched - www.ucd.ie/research
- University laptop programme introduced
- Wireless services in all residences
- New prospective student portal launched - www.myucd.ie

CIO Introduction

Ms. Mary Crowe,
Chief Information and
Technology Officer

In 2007 the use of IT Services in the University reached a new high of 24,000 users per week. This expansion was driven by widespread use of our wireless network, typically 10,000 users per week and the growth of laptop ownership in the student population, now at 70%.

In 2007 we introduced a University wide laptop programme for all students supported by Intel and Microsoft. The "Learn - Chill - Play" package was delivered through our PC suppliers and supported with a bank loan option from AIB. Students can avail of a business class laptop with full support, including an extensive range of software.

Our support service was extended with a new ITCentre in Newstead and the introduction of new SUAS (Stand Up And Surf) access areas in Science. These flexible access areas are very popular with students, integrating technology into the open spaces in buildings, allowing easy access to UCD Connect, email, Skype phone and other communications.

Online enrolment for students is now an established part of our service to students at start of term. Over 60% of students enrol before coming to the campus and can avail of interactive services to select options and plan their study. In 2007 significant progress was made in web-enabling our administrative systems, providing self service access for staff and students. Key developments included online recruitment and access for staff to online payslips and HR information.

UCD's commitment to electronic content and the widespread use of IT is evident in our services for new students.

Each first year student in August 2007 received a 1GB disk key, together with 500MB of on-line file storage space and 500MB of email storage space.

Two new web initiatives were launched "MyUCD.ie" a prospective student portal and "Research UCD" a portal for the research community within UCD. Both expand the scope and richness of the UCD website and integrate with UCD Connect and Student Systems.

Our Research IT service has greatly expanded the offering for research groups in the University, now providing dedicated hosting facilities and flexible enterprise storage capacity. The IT group works with institutes and research users to implement technology for large scale projects.

IT Strategy & Planning

In 2007 we carried out an extensive review of our IT Services looking forward over the next three to five years. The study was greatly assisted by our IT Steering Groups who supported surveys and focus groups to establish the requirements of each of our user communities - Research, Learning, Administration and Web.

Since the commencement of the IT Strategy project in January 2007, a detailed assessment of the external technology environment has been completed, together with the investigation of developments in other comparable universities. A list of relevant exemplars in each area has been prepared which will be used for site visits and further investigation as the IT Strategy is developed. The impact of the Campus Development plan has been considered and the associated IT infrastructure expansion estimated on a five year horizon.

In April 2007 we carried out a detailed survey of student use of technology in conjunction with the Educause Centre for Applied Research (ECAR), an initiative of Educause the US non-profit association whose mission is to advance higher education by promoting the intelligent use of information technology. This survey has given us valuable insight into the specific needs of UCD students and allows us to build on the comprehensive studies conducted in US universities.

Some major areas which have been highlighted in the planning work this year include:

- The scale of growth required from IT in the context of the overall campus development
- The widespread demand from research groups for storage and hosting capacity
- The demand for a comprehensive approach to classroom technology
- The exponential growth in use of laptops and wireless - 70% laptop ownership and over 12,000 wireless devices on campus
- The need for Web resources and development tools across all areas

A draft report on IT Strategy has been prepared and will be reviewed by UCD Senior Management, this will be developed into a full five year IT Plan early in 2008.

Student Technology Survey

This year UCD participated in an annual US study on the use of technology by students in universities. The survey is run by the Educause Centre for Applied Research (ECAR).

The purpose of the study is to provide information on undergraduate student use of technology. During March and April 2007 over 8,000 UCD first year and final year students were invited to respond to an online survey. The 1,193 respondents from UCD were among 27,846 respondents from 103 institutions. UCD was the only institution to participate outside of the United States.

The results of the survey give us a picture of UCD students in the context of a wider study and will contribute to our IT planning.

Benefits of IT in Courses

Respondents across all the institutes indicated convenience and managing course activities as the top two most valuable benefits of IT in courses. A total of 60% of respondents agreed that IT in courses improved learning.

Respondents spend many hours each week doing online activities for school, work and recreation. The most frequent response was in the range of 6-10 hours per week (26.5%) followed by 11-15 hours per week (18.1%).

The majority of respondents use email daily and write documents for their courses weekly. The use of the University and Library website is also very high. Technology basics for coursework such as spreadsheets and presentation software are used by nine out of every ten respondents.

Main differences in use of Technology between UCD and the US:

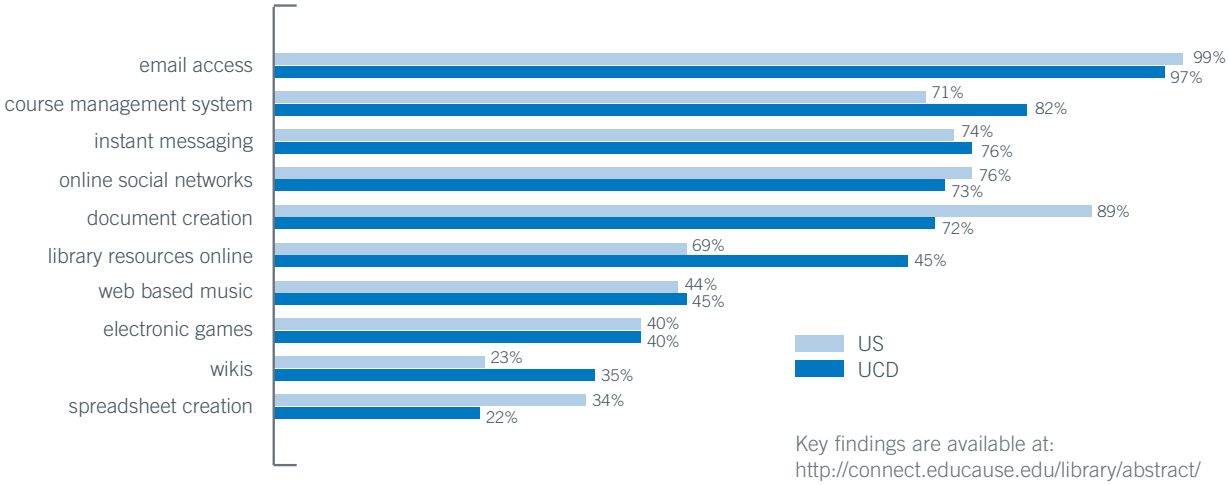
82% of UCD respondents versus 71% of US respondents access their Course Management System weekly or more often.

69% of UCD respondents versus 45% of US respondents access Library resources weekly or more often.

35% of UCD respondents versus 23% of US respondents access Wikis weekly or more often.

72% of UCD respondents versus 89% of US respondents create documents weekly or more often.

Student Use of Technology



Key findings are available at: http://connect.educause.edu/library/abstract/TheECARStudyofUnderg/45075.

Over 30% of UCD respondents versus 12% of US respondents used the campus wireless network most frequently to access the Internet.

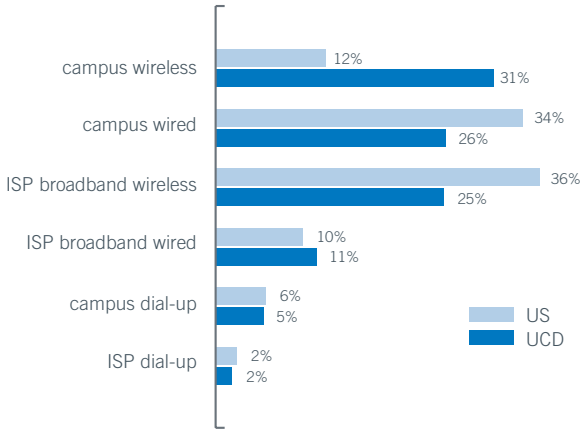
Technology Ownership

Overall, **99%** of respondents own a computer, **74%** own a laptop, 60% own a desktop and 35% own both. Laptops are still gaining ground as the platform of choice - most new computers are laptop computers, 30% of UCD respondents versus 12% of US respondents bring their laptop to class daily or several times per week.

Convenience

Most respondents report having access to high-speed Internet. Over **30%** of UCD respondents versus 12% of US respondents used the campus wireless network most frequently to access the Internet.

Preferred Internet Access



Customer Service Developments

There have been many new Customer Service developments this year, including a fourth ITCentre and longer opening hours for the helpdesk. Storage provided to all students was greatly increased to 500MB email space and 500MB file storage. Staff upgrades also included 1GB email storage and unlimited file storage.

New ITCentre

A fourth ITCentre opened in September 2007 in the Newstead building, formerly known as the Phillips building. The new ITCentre follows the Daedalus, Newman and Health Sciences ITCentres and is conveniently located on the ground floor. It can cater for up to 18 laptop users at a time accessing the network via wireless or wired connections.

Since June 2007, UCD IT Services has a new support team in place to address the IT needs of administrative users within the Tierney building. The support team provides advice, information and help on IT issues.

SUAS Expansion

Following the success of the Stand Up And Surf (SUAS) PC areas in the Newman and Restaurant buildings, UCD IT Services created additional Stand Up And Surf areas in the Science Hub, and most recently, a new area in the ground floor of the Student Centre. This brings the total number of SUAS on campus to 62.

Wireless Service

Wireless coverage in the residences was expanded during the year. All new student residences are fitted with wireless access and older residences were upgraded in 2007 to provide access. There are now 190 new wireless access points serving the 350 apartments, providing high speed access to the University's electronic resources and the Internet. The Belfield campus now has over 700 wireless access points which provide Internet access in all of the main campus areas.

More IT Facilities

In addition to the SUAS facilities, students and staff can access over 1,100 PCs in 42 IT Services computer labs across campus. During 2007, 331 computers were replaced and 245 open access computers were relocated from the Earlsfort Terrace campus to new facilities in the Health Sciences Centre and the Newstead building on Belfield campus.

Customer Survey

A survey was conducted by the Customer Services team in May 2007. The objective was to find out how our customers feel about the quality of the service on offer and their opinions on the improvements made over the previous year.

- 98% of IT users were satisfied with the level of service received in the ITCentres across campus
- 85% rating support staff as friendly and helpful
- 69% felt that the Stand Up And Surf (SUAS) facilities were the most beneficial improvement

Laptop Services

Our laptop loan service, introduced in 2006, has been extended to allow staff and students to borrow laptops for longer periods from the ITCentres on Belfield campus. This is a useful service for staff when moving offices, for students who don't already own a laptop or for those who want to test-drive a laptop before purchasing. The laptop loan service was used 127 times in 2007.

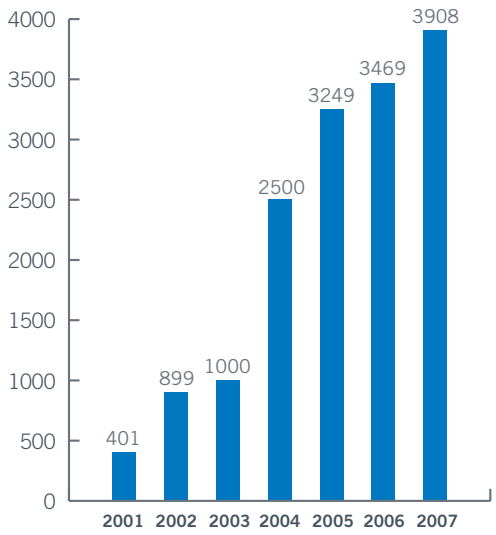
500MB email & 500MB file storage was provided for students

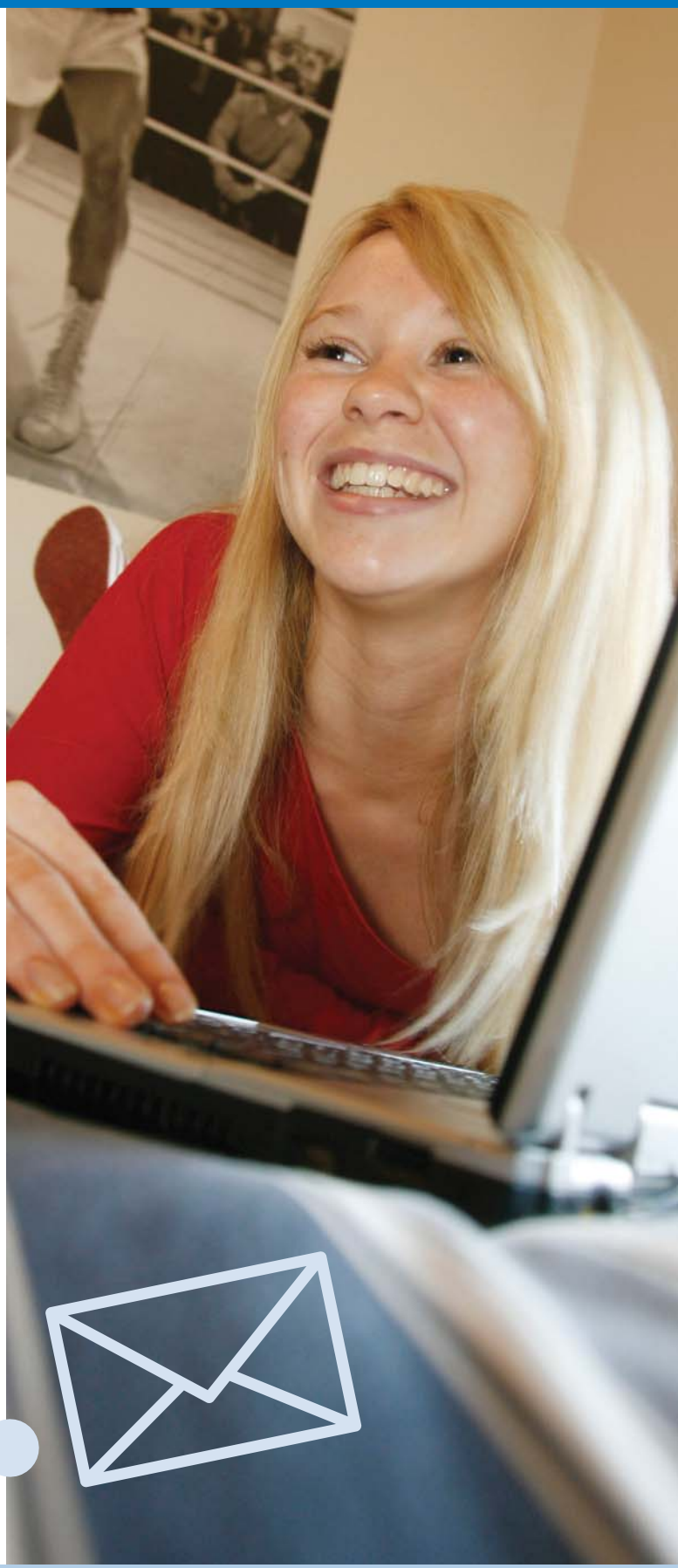
IT Induction Courses for Students

For the seventh consecutive year, UCD IT Services provided free IT Induction courses for all incoming first year students during orientation week. The 20 minute automated course is designed to help students quickly acquire the IT knowledge they need to study in UCD.

All attendees received a free 1GB disk key branded with the UCD logo and a copy of the IT Student Guide for 2007. This course was also made available during term to graduate students. A record 3,908 students attended IT induction courses in 2007.

Computer Induction Courses Attendance





Research IT

Our Research IT service has greatly expanded the offering for research groups in the University, now providing dedicated hosting facilities and flexible enterprise storage capacity. Research IT work closely with the UCD research community to explore new technologies, assist with the development of grant submissions and create new infrastructure.

Research IT plays an Integral Role in the Development of the IVRLA

The IVRLA is a digital archive containing a number of digitised collections from UCD's holdings. The Research IT support team has worked closely with John McDonough, IVRLA Project Manager and IVRLA IT staff to architect the system. Asked about Research IT's involvement, John McDonough says "Research IT function as an advisory service for us, assisting in the scoping and selection of equipment."

According to John McDonough "Research IT's role is vitally important as they bring network and systems expertise to the project" that the IVRLA don't have to source themselves.

An additional benefit of working with Research IT is that "they enable us to interact with projects from other disciplines around campus".

In September 2007, the online repository was launched. This enables access to an initial 13 digitised collections from four different archival and library sources within UCD.

The IT equipment for this project is hosted in the UCD Research IT Data Centre and the online images reside on the new UCD IT Services enterprise data storage solution.

Mr. John McDonough, Project Manager, IVRLA

UCD Conway Institute

Research IT is working closely with Conway IT, Bioinformatics personnel and external software and hardware suppliers on the new Proteomics pipeline. The IT equipment for this project is hosted in the UCD Research IT Data Centre (Daedalus) and the data from the mass spectrometer will reside on the new UCD IT Services enterprise data storage solution.

UCD School of Computer Science and Informatics

Research IT are currently piloting the new 'Meteorite' High Performance Compute cluster for UCD School of Computer Science and Informatics. This cluster will become part of the Community Cluster.

The Research IT Hosting Service

The Research IT Data Centre is located in the UCD Daedalus building, this state of the art data hosting facility is available to UCD research groups to host their IT equipment.

The data centre uses APC InfrastruXure™ to achieve optimal power and cooling capacity in the 160 m^2 facility, this is ideally suited to the hosting of high density compute intensive equipment.

We have grown our user base throughout the year and we now host projects representing the broad base of activities within UCD.

We are currently hosting equipment for:

- Irish Virtual Research and Library Archive (IVRLA)
- The National Institute for Bioprocessing Research and Training (NIBRT)
- UCD Conway Institute of Biomolecular and Biomedical Research
- UCD School of Computer Science and Informatics
- UCD Delargy Centre for Irish Folklore
- UCD School of Medicine and Medical Science

The equipment is being used to carry out research on topics including autism, cancer, Irish folklore, machine learning, artificial intelligence and bioinformatics.

Data Storage Service

Research IT completed a successful tender process to select a supplier of high capacity electronic data storage for the UCD research community. A Hewlett Packard solution was chosen and has been implemented in the Research IT Data Centre. This data storage service is available to any UCD managed research project and can be accessed easily and quickly via the existing network using iSCSI. As an added value service, researchers can purchase locally attached storage through the same tender.

Collaboration Tools

A number of exploratory projects took place during the year where the team provided access to collaborative tools for video conferencing, virtual meetingware and data sharing. Google applications were introduced for information sharing and in-line document editing by researchers in the Conway Institute and the Centre for Synthesis and Chemical Biology. The virtual meetingware Adobe Connect is being used on a exploratory basis by the Dublin Academic Hospital Centre group for virtual meetings and idea sharing.

Research Applications

During 2007 we have been working with Dr Matthias Tacke, UCD School of Chemistry and Chemical Biology, on installing the structure calculation software, Gaussian, on our Corona compute cluster. With the software now successfully up and running we recently held an introductory workshop for members of the School on running Gaussian jobs on our Corona HPC cluster.

Training Service

Once again Research IT developed a training schedule which included our in-house UCD tailored IT Security course and we again hosted the ICHEC "Introduction to HPC, MPI and OpenMP" courses. In 2007 all incoming taught and research postgraduate students could attend our IT induction courses and receive a complimentary 1GB USB disk key.

Teaching & Learning IT

Teaching & Learning IT has worked closely with the UCD academic community to anticipate and deliver technology requirements for education.

Academic Technology Planning

During the latter part of the 2006/2007 academic year a short survey was designed in order to allow us to conduct quantitative research into the IT requirements of the UCD Teaching & Learning community.

The survey requested that academic staff rank their IT Service priorities for both new and existing services. The most highly ranked requirement was for standard audio visual technology followed by Plug and Play classroom technology.

Rank	Service	Very Important
1	Standard Audio Visual	84%
2	Plug & Play AV technology	75%
3	Software applications for home use	65%
4	Additional software applications	38%
5	eLearning development training & support	35%

Teaching Innovation

IT Services continue to support the Moodle pilot with the Large Group Teaching and other teaching groups. During 2007 the School of Biology ran the Introduction to Evolution module with 345 students and the School of Geography ran the Introduction to Cultural Geography module with 240 students. The School of Geography plans to run the Introduction to Human Geography with 385 students in the second semester.

Support for Classroom Technology

IT Services have been working closely with Buildings and Services this year on a pilot for classroom technology support services in the Health Sciences building. The new service will include the installation of remote monitoring and management equipment and installation of PCs in selected rooms.

UCD's Interactive Map

UCD is the first university in Ireland to boast an interactive map of its campus which was created by students for students. It was developed as a result of collaboration between the Orientation Mapping Centre, School of Geography, Planning and Environmental Policy and Media Services. The UCD Interactive Map (UCDIM) was designed by two Geography students, Paul Alexander and Robert Matthews and was launched in September 2007. Built using the latest in Web 2.0 technology and employing Google Maps technology as a basis, this map is both accurate and state of the art.

TV over the Internet for Distributed Learning

During 2007 Media Services delivered live lectures via TV over the Internet (IPTV) multicast from Media Services Television Studio. This mode of course delivery is suitable for organisations or individuals with access to good broadband services and for member institutions of the education network. The service can be further expanded to archive and catalogue lectures so students have 24/7 access to streamed audio and video files.

eLearning Developments

Media Services and the UCD School of Medicine and Medical Science collaborated to develop user-friendly eLearning templates. The templates are designed to assist academic staff in the development of media-rich eLearning materials and were funded by the HEA under the Strategic Initiatives Scheme as part of the three year eLearning project.

In September 2007 a dissemination seminar focusing on eLearning in the Medical Sciences was held in the Global Irish Institute in UCD. Speakers at the seminar included the internationally renowned pathologist Professor Ivan Damjanov, Kansas University Medical Centre, and Virtual Microscopy expert Dr James Jones, UCD School of Medicine & Medical Science.

UCD is the first university in Ireland to boast an interactive map of its campus which was created by students for students

Web Services

2007 saw major developments in the area of Web Services including the piloting and selection of the Web Content Management System.

Web Content Management System

Based on the success of the six month pilot phase with Terminal Four's SiteManager Content Management System, IT Services are now in a position to make the system available in a fully supported production environment from 2008.

A number of websites have successfully been developed and launched using the new system. They represent the diverse web publishing requirements at UCD, including UCD Research and the UCD School of Archaeology.

A key function of the Content Management System will be to make it easier for content providers to take ownership of the content they wish to publish. The new system brings many direct benefits to content providers, including:

- A browser based user-friendly "direct edit" function for the non-expert user
- Workflow control and quality assurance
- Delegated authoring environment
- Help to ensure compliance with our accessibility obligations under the Disability Act 2005

New Look UCD Events Calendar

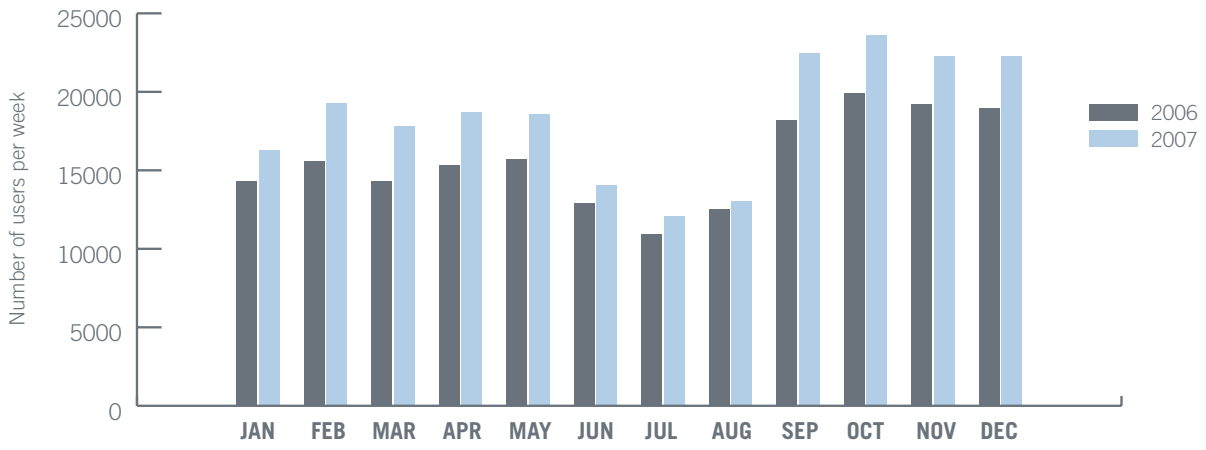
The Office of University Relations in association with IT Services has recently introduced an updated and revised online Events Calendar. This project builds on the work done for the existing events calendar to deliver an improved presentation in terms of manageability, design and the level of user interactivity.

The new system will allow users to interact with the calendar to present events listings by day, week and month. Events can by displayed through a comprehensive category listing including: conferences, seminars, sports events and open days to name only a few.

Connect Usage Comparison

Usage of UCD Connect has greatly increased in 2007 over previous years. Both staff and students consistently use the portal for information and services with a regular pattern evident throughout the year. This October 24,000 individual users logged in at least once a week compared to 19,898 in October 2006.

UCD Connect Usage 2006/2007



Centre for Cancer and Aging Collaborates Using UCD Connect Groups

Dr. Peter Doran, Scientific Director, UCD Clinical Research Centre

Addressing the question of how Connect Groups has facilitated his work, Dr. Peter Doran, Scientific Director, UCD Clinical Research Centre, gives the example of the Centre for Cancer and Aging. This centre was formed by Dublin Academic Health Care (DAHC) and focuses on researching the most common internal cancer in the Irish population, colorectal cancer, in the elderly.

"On a strategic level UCD Clinical Research Centre leads this initiative, which involves a wide variety of groups and institutes including investigators at the Mater, St. Vincent's and UCD."

According to Dr. Doran a unique advantage of using the UCD environment "Connect Groups" to communicate is that "including hospital consultants and researchers under the UCD Connect umbrella reinforces the partnership and fosters collaboration by providing a vehicle for collaboration and integration".

Dr. Doran believes collaboration is key for a project this ambitious involving 30 or more busy researchers and hospital consultants based in various locations. "Getting everyone together is very difficult. With investigators on different campuses, traditional face-to-face interaction would substantially limit the research agenda. The availability of the Connect environment allows investigators to collaborate in more time-efficient ways. The alternative would be emails for example the initial application for the Cancer Centre involved 870 emails including 400 attachments. The Connect environment allows this to be reduced saving everybody's time".

From a time saving perspective, Connect Groups allows standard operating procedures, standard text, and research interventions to be readily available to group members and accessed at any time through Connect Groups. Access control guarantees a secure environment where sensitive data can only be viewed by designated members.

As the more disease specific research programmes at the Clinical Research Centre develop, Connect Groups will be the primary means of interacting with investigators who use only Connect Groups for email and file sharing.

"This technology adds value to a partnership project such as this, overcoming communication barriers and allowing the focus to prevail upon the important work at hand."

Management Services

Flexibility and accessibility are of primary importance to staff and students using our University applications. UCD systems are now used throughout the world.

2007 saw a major emphasis on the expansion of web based services with new online services for prospective students, current students and alumni. A number of key developments for staff were undertaken, enabling easier access to administrative systems and management information.

- 28% of all online applications received have been from international students
- Management reports are being run 22 hours a day with 12 noon being the peak demand
- 60% of students registered off campus in 2007

Documents for the Digital Age

This year we issued our first Electronic Diploma Supplements. The Diploma Supplement is an internationally recognised document, similar to a transcript, describing a graduate's award. With the introduction of the Electronic Diploma Supplement, graduates are issued a secure digitally-signed document, which they can give employers and others access to as validation of their UCD award.

Enhancing the Student Experience:

Students Apply Online

The pilot scheme to handle applications online processed over 3,000 postgraduate and non-standard undergraduate applications this year. Prospective students applied to UCD from as far afield as South America, saving time and effort and having peace of mind that the application was received on time.

The registration process and supporting systems were enhanced to improve the student experience. Management Services worked closely with UCD Registry and the academic community to improve the registration system. Feedback is that students have found it much more user-friendly and intuitive.

Student Recruitment Goes Portal

MyUCD, the new Undergraduate Student Recruitment Portal, was launched in October. Its aim is to build relationships with prospective students long before they apply to UCD and present information to them with a fresh new look and feel. Prospective students using the portal get a personalised experience based on their interests. A more detailed analysis of students, from the time they first register their interest in UCD through to the time they graduate is now possible.

Enhancing the Staff Experience:

Expanding Staff Services

A number of improvements have been made to enhance some of the fundamental administrative processes throughout the University.

During 2007, a new eProcurement application was introduced to allow staff to purchase goods online.

The development of the Research Management System is underway - the Seed Funding module went live in October 2007, allowing researchers to submit applications for the UCD Seed Funding Scheme Round 2 online.

Self-Service Reporting

Throughout 2007 Management Services engaged on a major project to upgrade our reporting from Business Objects Version 5 to XI. This involved migrating reports and users to the new system as well as organising training at different user levels.

The new version is a powerful web based reporting tool that allows users to retrieve business intelligence from anywhere. Centrally managed reports ensure that reports can be developed consistently and can be verified through adherence with a rigorous software development lifecycle.

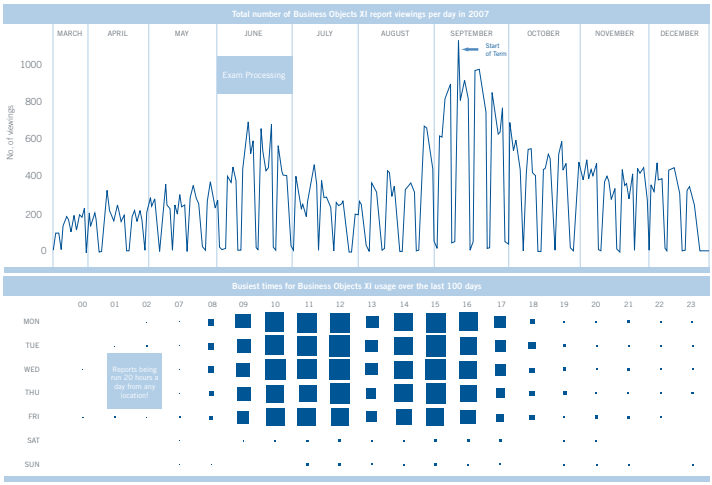
Single sign on has been developed for the Business Objects application to allow users to go directly from UCD Connect to the application.

2007 saw a major emphasis on the expansion of the availability of web based services

Information Management

In 2007 Management Services rolled out management information dashboards for a number of administrative functions. Information dashboards bring data to life through high-impact visuals and provide a succinct view of key management information at a glance.

The following is a dashboard of the management reporting by academic and administrative staff:



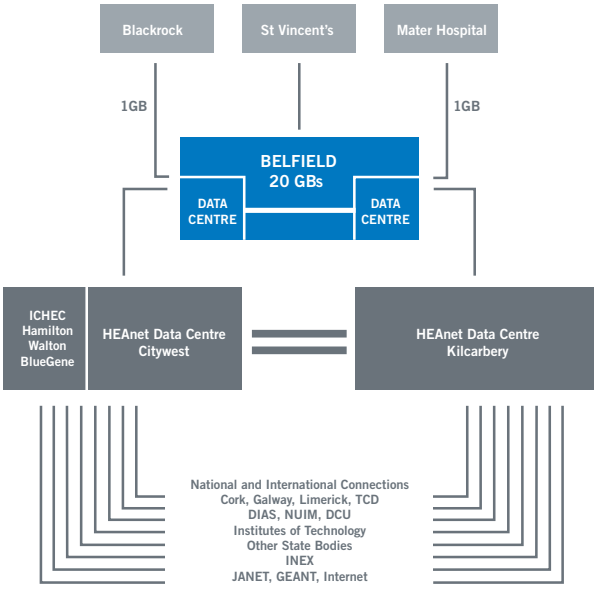
The top graph shows peak usage in September when more than 1,000 reports were run on one single day.

The bottom graph represents a dashboard view of usage for the previous 100 days. It shows that the busy hour for reporting is consistently 12 noon (followed closely by 3pm) with quiet time at 3am and 5am.

IT Technical Architecture and Networks

During 2007 significant work was carried out on the wide area network providing resilient access to UCD sites from HEAnet and increasing the bandwidth on the Metropolitan Area Network to 1GB.

This means our Blackrock campus, St. Vincent's Hospital and Mater Hospital all now have high speed international connections equivalent to those at Belfield. We also have dual 1GB fibre links to our data centres providing full failover and alternate routes in the event of any network incidents.



Research Network

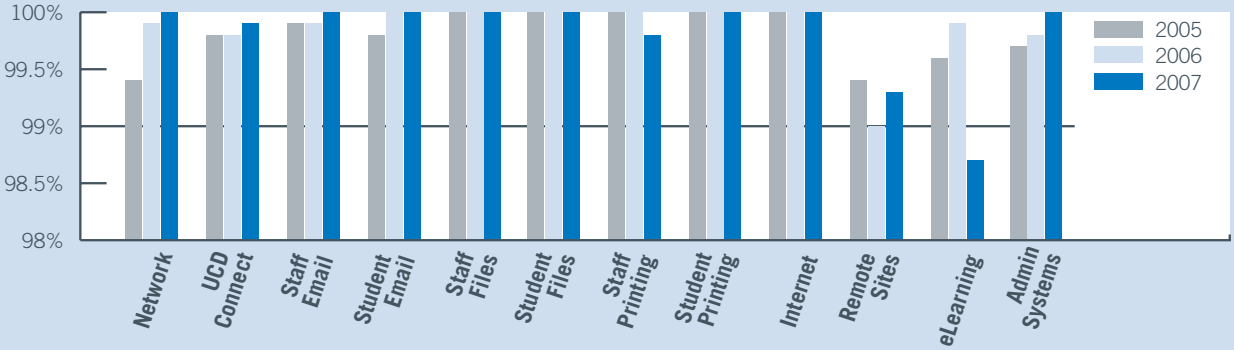
Belfield campus is now served by two "dark fibre" connections which facilitate easy upgrading of the available bandwidth and the provision of additional circuits as needed. This capability is of particular relevance to the research community which may require dedicated connections to other national and international institutes. The connectivity provided to us through HEAnet gives access to 10GB capability and can link over redundant national circuits to all Irish HE institutes and through Janet, Geant and Internet 2 to international institutes.

Performance Measures

The IT Architecture implementation continued in 2008 with the separation of individual building networks on the Belfield campus providing additional reliability and a reduction in the impact of local network incidents. Since 2005 the network availability has increased from 99.4% to 100% measured on a monthly basis. A major eLearning outage was the most significant service breach.

The overall performance of services has improved as shown in the service availability graph. During 2007 there were **14** service incidents as compared to **27** in 2006 and 34 in 2005. The service to remote sites showed improvement and will benefit from the next stage implementation of the Metropolitan Area Network planned for 2008 in conjunction with HEAnet.

Service Availability Levels 2005, 2006, 2007



UCD and HEAnet Implement Wide Area Metropolitan Network

Organisational Structure

UCD IT Services is headed by the CIO and consists of three management divisions, each the responsibility of a Senior Officer. The IT Administration team is lead by Kate Griffin and is responsible for all Financial and HR services.

Mary Crowe
Chief Information & Technology Officer

The CIO is responsible for the development of IT strategy and services in support of the research, teaching and management objectives of the University.

Principal Services

Planning & Service Development

Seamus Shaw
IT Chief Service Officer and Deputy CIO

Research IT

Fred Clarke

Teaching & Learning IT

Genevieve Dalton

Web Services

Brian Morrissey

Operational & Customer Services

Shaun Kennedy
IT Chief Technical Officer

Technical Services

David Coughlan

Customer Services

Ciara Acton

Management Services

Mark Lande
IT Chief Applications Officer

Information Management Systems

Maria McDonald

IT Administration

Kate Griffin

IT Steering Groups

UCD has established four topic specific IT Steering Groups and a Central IT User Committee to contribute to the development of IT Strategy and to monitor the ongoing implementation and development of IT Services on a regular basis. Each group meets at least three times per year and has established terms of reference.

Teaching & Learning IT Steering Group

Professor Bairbre Redmond
(Co-Chair)
Vice-Principal for Teaching
& Learning - College of Human Sciences

Professor Alan Keenan
(Co-Chair)
Vice-Principal for Teaching
& Learning - College of Life Sciences

Members
Prof. Bairbre Redmond (Co-Chair)
Prof. Alan Keenan (Co-Chair)
Ms. Aishling Kennedy
Dr. Anne Drummond
Mr. Seamus Shaw
Ms. Genevieve Dalton
Ms. Helen Guerin
Mr. Niall Watts
Dr. Ann Bourke
Mr. David Jennings
Mr. Ronan Shanahan
Dr. Niamh Moore
Dr. Patrick Felle
Ms. Rosalind Pan
Dr. Dermot Ryan
Dr. Joe Brady
Dr. Erik Lithander
Dr. Vanda Clayton
Prof. Tony Fagan

Research IT Steering Group

Professor Ciaran Regan (Chair)
Vice-Principal for Research
& Innovation - College of Life Sciences

Members
Prof. Ciaran Regan (Chair)
Ms. Karen Andersen
Dr. Ted Cox
Dr. Peter Doran
Prof. Alex Evans
Dr. Pat Frain
Prof. William Gallagher
Dr. Aoibheann Gibbons
Prof. Colm Harmon
Prof. Des Higgins
Mr. John McDonough
Dr. Sean McGarraghy
Dr. Damian Mooney
Dr. Scott Rickard
Dr. Rob Sands
Ms. Mary Crowe
Mr. Seamus Shaw
Mr. Fred Clarke
Prof. Brian Nolan
Ms. Ruth Lynch
Dr. Aaron Quigley

Web & Portal IT Steering Group

Professor Mark Keane
(Chair)
Vice-President for Innovation
& Corporate Partnership

Members
Prof. Mark Keane (Chair)
Ms. Marie Burke
Dr. Patrick Felle
Dr. Aoibheann Gibbons
Ms. Emma Kavanagh
Dr. Lee Komito
Mr. Gerard Looby
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