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## Lecture capture in Australasian universities

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## Summary

A recent benchmarking activity among all the 47 Australasian ACODE member universities sought to gather responses on which primary lecture-capture systems was used by their institution and their approaches to its use.

This data indicates that the majority of respondents (57%) use the Echo360 system, or its predecessor Lectopia. Of these universities, 11 (25%) have adopted an opt-out approach to lecture capture. The opt-out approach is where a lecture is scheduled for a room and the recording automatically starts and ends at the scheduled times. These recordings are then made available on/through the institutions learning management system (LMS). Generally, in each of these cases where staff wish to opt-out of recording their lectures they are required to seek permission from the Dean, or similar authority, to do so.

The next most popular tool is Camtasia Relay (17%). Generally, universities make this tool available in all teaching spaces and for staff at their desktop, or on their laptops. In all cases there is an opt-in approach to the recording of lectures. So although recordings are recommended by the institution, this is primarily done at the discretion of the lecturer.

What was notable was the clear preference expressed by some 13 institutions (28%) for using their systems to pre-recorded content (usually recorded at the desktop) and making this available, either instead of, or in addition to, the recording of a live lecture. It appears that this pre-recording is mainly done using Camtasia Studio and Echo360 (an additional feature some institutions take advantage of), with some institutions also using Adobe Presenter to do this. Each of these 13 institutions all had an opt-in approach to lecture capture.

### What the others are doing

Primary Systems	
System	# Uni's
Echo 360 (Lectopia)	27
Camtasia Relay	8
Media Site	5
Home grown	5
BB Collaborate	4
Pre-recording (mainly Camtasia Studio)	13
Other (Cisco – Panopto)	4

Opt in/out approach	
Opt-In	Opt-Out
35	12

Main rooms	All rooms
24	20
No rooms	2

Stance on lecture capture	# Uni's
Recommended and aligned with LMS	26
Automated - based on lecture time and aligned with LMS	12
Recommended, but not integrated with LMS	7
Not recommended	2

INSTITUTION	TOOL/S	COMMENTS
Auckland University of Technology (NZ)	MediaSite and Bb Collaborate for web conferencing	At the moment we are only just out of the pilot phase for lecture recording. The main driver for our MediaSite pilot was to support some core Health papers with up to 1500 students across 3 campuses. This has been largely successful, despite the occasional technical hiccup. We have just three mobile recorders that are used wherever required, but there is a little extra budget available this year to perhaps install a couple of fixed recorders. The underlying objective is to encourage lecturers to use this to support a flipped classroom model, whereby they record pre-lecture content for viewing through our Blackboard system, but the main uptake to date is for streaming and recording live lectures. There is however increasing awareness of the value of the pre-lecture recordings, and we have a couple of small recording rooms where this can be done. The system is also increasingly used for recording higher profile events such as invited speakers, conferences and seminars.
Australian Catholic University	Echo360	Echo360, and distributes the recordings automatically to units through the EchoCentre block in Moodle. ACU has been piloting two lecture capture software solutions for pre-recording lectures - Echo360 Personal Capture, and Adobe Presenter recordings hosted on Adobe Connect, to extend the interactivity of traditional lectures. These recordings, both of live and pre-recorded content, are not sanctioned through policy but rather as an opt-in for lecturers to provide material for both revision and equity purposes.
Australian National University	In house bespoke system	Currently reviewing situation with the look to replace this with a commercial offering (Echo360). Further, replacement will not necessarily be a like for like hardware/software replacement as the university is analysing its stance on lecture delivery.
Bond University	MediaSite	In response to a recommendation in the 2012 Bond University Student Association Academic Audit, Bond University is increasing the number of teaching spaces equipped with lecture recording capability. It is a 2013 requirement that 80% of lectures conducted in teaching spaces equipped with video recorders are captured and streamed online for student review. ITS regularly sends an email with information about how to have one's lecture recorded. We have inserted a line in that email inviting people to the Office of Learning and Teaching for support in producing digital content alternatives to lecture streaming, such as creating and posting screencasts through Camtasia.
Central Queensland University	Lecture capture using Cisco/Tanberg equipment. Camtasia for desktop capture.	We are using a number of tools for lecture capture as staff are at various stages on the flipped classroom journey. Recorded lectures are converted into WMV and QuickTime format on streaming servers. A Cisco appliance does the transcoding. Camtasia for self produced talking head / PowerPoint style presentations and quick end-of-week and beginning-of-week "engagement" videos. Ad hoc reusable recordings of experiments, interviews and the like. Typically higher production quality due to their reusability, often the Video Producer is involved in this sort of work. Some people are looking at replacing lectures with tutorial style classes that are typically more interactive. Part of this process is to break down the didactic lecture into reusable chunks and provide these chunks online. Overall we have staff spread right along the continuum from traditional lectures to flipped classrooms entirely online. We are trying to get folks to move from their traditional mindsets (50 min face-to-face delivery) to see that they are not constrained by the time(table) or the lecture room. Definitely encouraging less 'lecturing' per se and more diverse video delivery.
Charles Darwin University	BB Collaborate, mp3 recorders, video.	From the University perspective it is optional and the supported tools are the Blackboard based ones. At the School level it is mandated in some Schools and optional in others, and they provide their own tools. Resources and support are available from the central Office of Learning and Teaching on good practice (pedagogical and technical) in lecture recording. For pre/post-recording: Collaborate, Voice Tools, Camtasia Studio.
Charles Sturt University	Echo360	Use is encouraged, and growing, especially as a resource for DE students. At present it is an opt-in system for 2 faculties (not compulsory) and opt-out for 2 faculties (compulsory). Lectures must be scheduled for Arts and Education, but are automatically recorded for Business and Science. We use 5 types of recording methods: a) automatic recording on a scheduled basis via the Echo360 capture appliance (53 rooms); b) automatic recording on a scheduled basis via people and content from Interactive Video Teaching (40 rooms) c) 'podium capture' --- software available on teaching space PC but has to be manually activated; (Available upon request in any room); d) 'personal capture' --- software installed on staff PC's --- this facility can also be made available to students; and e) external media ingest --- upload pre-recorded material to Echo system server. Outputs: Access to view, download, stream and RSS feeds are available via a link from subject/unit site in LMS and via iTunesU (Private --- restricted to staff and students). In 2012, first year of major usage, over 200 subjects/units scheduled recordings across a semester. 360 subjects for 201330. There were 4000 recordings in total (2012)--- using all 5 capture methods, and 165,000 views. Growth continues. There have been very high viewings in the 2 weeks prior to exams, indicating use for review.
Curtin University	Echo360	Echo 360 (EchoSystem, Personal Capture, Interactive Live Webcasting etc.) Opt-out model in our 40 largest venues, 130 automated recording venues, 50 specialist multi-camera Manual Recording installations, 1500 hours of recordings per week, 22,000 recordings per year, 20%-30% of recordings made outside of automated lecture venues, thousands of student-generated recordings, 6% of recordings made by staff in their office using Echo360 Personal Capture software (PCAP).
Deakin University	Echo360	We want to put more transmissible material in the cloud, but our position is that as long as we're giving lectures, we should be recording them all!
Edith Cowan	Camtasia Relay for live capture,	Students want it, so we want it! We are busy fitting all learning spaces with computers to facilitate the use of lecture capture and we are seeing it grow rapidly. We get a lot of feedback from students, and they get grumpy when it is not available.

University	Camtasia Studio for desktop capture	
Flinders University	Home grown solution	All lectures in our 50 major lectures are captured and automatically made available through links from our LMS after the lecture. Staff may get an exemption, but reasons are quite limited. Not all lectures are live streamed, but some are.
Griffith University	Echo360	Echo 360 is available in over 90 lecture rooms plus a selection of Seminar rooms, and is also available for personal desktop capture. An opt-out policy has just been approved: Lecturers may request approval to not use the automatic recording of lectures in the following circumstances: the lecturer will record the lectures using other supported methods and will make the lectures available to the students on the relevant course site; or the lecturer has strong and justifiable reason for not recording the lecture. Students are to be advised in the Course Profile whether or not lecture capture is to be used for a course.
James Cook University	Cisco Telepresance and Camtasia Relay	We are in the beginning the process of evaluating our existing infrastructure and processes, but at present we use the following Lecture capture tools: <b>Cisco Telepresence</b> content Server (JCU eLectures) - for capturing lectures in lecture theatres equipped with videoconferencing equipment - captures presenter and any connected AV source - manually processed (transcoding, editing, copyright metadata etc) - mobile compatible delivery profile - stored on local web server and delivered via progressive download - typically lecturers publish videos to their Blackboard subject sites via the University's current eReserve product (Concord Masterfile) <b>Camtasia Relay</b> - for personal lecture capture, vodcasts, or mobile capture (via FUSE app) - can be used in any teaching room (eg. typically where videoconferencing infrastructure not available) and also available on all staff computers - captures computer screen, an audio source and webcam - presenter selects output profile and automatically uploaded, processed and hosted on local web server - users automatically notified via email with URL of the video and they add it themselves to their Blackboard site. <b>University's general stance</b> of lecture capture: No official policy governing lecture capture or implications for privacy, IP etc. eLectures recorded by request (webform), not by default. eLectures must be processed through Reserve Online to capture copyright and publication metadata. Camtasia recordings are the responsibility of the individual lecturer. Video recordings are stored on the central media server, not uploaded to the LMS
La Trobe University	Echo360	"All-in" Every timetabled lecture in 88 equipped venues is recorded unless a case is made (and accepted) for not recording. A "Pause" and "Resume" button is provided to avoid recording copyright materials. If someone does not want their lecture, or series of lectures, recorded they need to apply to opt out of the system. See <a href="http://www.latrobe.edu.au/news/announcements/lecture-recordings-go-all-in-in-2013">http://www.latrobe.edu.au/news/announcements/lecture-recordings-go-all-in-in-2013</a>
Lincoln University (NZ)	Camtasia Relay. Symposium screens in the lecture theatres for annotation.	We have lecture recording equipment in all of our lecture theatres. Some lecturers also have Camtasia licenses on their desktops so they can record in their offices. Camtasia has been really easy for people to use so we have stayed with it. It records the screen and the audio. We have been using Camtasia for 4-5 years now. While encouraged, lecturers can choose whether they want to record lectures or not. We are reviewing our qualifications, and because of the earthquake, we are going to rebuild some of our lecture theatres. This is my guess for the future, the university will automatically record all lectures.
Macquarie University	Echo360	In 2012 we moved to an opt-out approach where we automatically record all timetabled lectures (excluding repeats). Although all lectures are automatically recorded, the decision to publish the recordings to students through the LMS (Moodle) is up to the Unit Conveners. This aligns with the requirement under our Learning Technologies policy which states <i>Decisions about the technologies to be used for learning and teaching are vested with unit conveners in accordance with Faculty and Departmental arrangements</i> ( <a href="http://mq.edu.au/policy/docs/learning_tech/policy.html">http://mq.edu.au/policy/docs/learning_tech/policy.html</a> ). In 2012 we captured about 33,000 hours of lecture from about 1,200 units. The majority of recordings are audio only although an increasing number provide powerpoint/audio synchronisation. Although there are no specific policies around the use of Lecture Recording, there are some best practice notes published at <a href="https://www.mq.edu.au/lrc/altc/wblt/index.htm">https://www.mq.edu.au/lrc/altc/wblt/index.htm</a> that are based on an ALTC funded project.
Massey University (NZ)	MediaSite	We do not use the term 'lecture capture'. Instead our focus is on Rich Media Learning and we have been using Mediasite for 5+ years with two main solutions: (i) fixed camera and automated recording capacity in several large learning spaces and (ii) portable box for on location recording according to demand. The Uni is about to embark on a major expansion of the current Mediasite service (\$2.8m project) which will see capacity for rich media learning greatly enhanced across the Uni. We expect to equip another 25 learning spaces (many flat room spaces with mobile furniture rather than lecture theatres) along with a digital recording booth one each of our 3 campuses.
Monash University	Echo360	Monash University uses Echo360 products and over 1,000 recorded lectures a week, covering over 650 units are currently made available over the internet, and students download 50,000 lectures a week on average during semester. Lectures Online is managed by 3 staff. Personal desktop capture is also available and the University is about to trial Lecture Tools to improve engagement and interactivity for pre-recorded lecture activities. Opt-in and opt-out are Faculty based options.
Murdoch University	Echo360	Lecture recording is not mandated but is strongly encouraged and is widely used (so we have an opt-in system). All of our main teaching rooms (about 50 are equipped) on the three campuses in WA are equipped for recording and several for dual video (computer capture and video of presenter) but we do very little video capture of the presenter due to lighting problems. The system is automated and linked directly to the LMS (Moodle). Staff can also upload their own recordings and will soon be able to do personal recording using desktop computers, which I think will grow in popularity. Murdoch was an early adopter of lecture capture and we use it widely. We recognise that with the demise of the lecture as the primary teaching activity makes central lecture capture a less important service, but it is vey popular among our students and is essential for external students until we move to a new pedagogy.

Queensland University of Technology	Echo360 (full rollout by S1, 2014)	Currently implementing Echo360 (full rollout expected by summer semester 2013 pending successful pilot program) to replace Media Site. University wide mandate for all lectures to be recorded will be implemented in Semester 1, 2014. Full roll-out is anticipated to cover 235 teaching spaces (185 flat floor spaces 50 tiered theatres). In 2012, we had 12,000 + Recordings on the existing media site system. We have developed guidelines for class recordings, and student consent to be recorded is given upon enrolment (with an exception process). Work is commencing to assist academics in creating and using lecture recordings in more pedagogically sound approaches e.g. Flipped classroom.
Royal Melbourne Institute of Technology	Lectopia/Echo360. Echo360 for desktop capture.	We do not actively support other capture technologies at enterprise level, though obviously many are available and can be used in local instances. We chose the Lectopia platform after an assessment process in 2007/8. A requirement for communication and information transfer in a contemporary university setting. Specific emphasis on desktop capture to advance models of active on-campus learning, where the capture technology is used for content delivery that may have formerly been undertaken in a lecture. Not a one-size fits all approach to lecture capture, more facility available in teaching space contexts where it is meaningful and justifiable. My (user) perspective: it would be desirable if the products were 'slicker' and more seamlessly integrated with the LMS. We have not received usage statistics for some time but the number of recordings, and then student downloads has been consistently high. A recent student focus group revealed that they continue to value the recordings. We have outsourced our lecture recording storage to Netspot as part of the gradual transition from Lectopia to EchoSystem.
Southern Cross University	MediaSite	We make use of Lecture Capture and our University's decision to use MediaSite will enhance our Standard Operating Environment. We have begun to develop resources to assist staff to use MS to its full potential.
Swinbourne University	Echo360	Echo360 is being implemented throughout 2013 to replace Lectopia Laissez faire, with an opt-in approach to participation by lecturers
University of Adelaide	MyMedia (built in-house)	The MyMedia system was developed by The University of Adelaide in 2003 to enable the recording (capture), management and online distribution of lectures. It is comprised of: Capture system - available in common teaching areas to record any device available from the lectern (microphone, camera, laptop, document camera, dvd player etc); Web application - for managing recorded sessions and uploading other media files for online delivery; and Blackboard Building Block - for publishing media to MyUni (Blackboard) courses. Currently lecture recording is recommended but not mandatory. The system supports an opt-in approach where staff initiate the recording from the lectern. Uptake has steadily increased over the years and currently the university records an average of 70 sessions per day during teaching semesters.
University of Auckland	Home grown tool. Some lecturers use BB Flashback and Camtasia	Variable – some departments mandate recording or do it as a matter of course, it is optional in others, and some operate 'all or none' rule. There is no overarching institutional policy.
University of Ballarat	BB Collaborate, mp3's and Video	The recently established Learning Technology Advisory Group intends to investigate other options (such as Big Blue Button). We don't currently have any audio capture facilities. Some staff use MP3 recorders; some have used Video cameras to capture their classes. The Library has these to loan. CLIPP, our central academic support centre supports staff with video and audio conversions and provide general help. There are some other investigations going on with partner providers regarding harmonizing some of these technologies across the partners. Still early days
University of Canberra	Echo360 and BB Collaborate	Implemented Echo360 in 2010 to replace an in-house lecture capture service. 200 lectures p/w are captured by appliances in our largest 25 venues. Supported by 1FTE in ITM/AV. Our current license permits capture from unlimited venues and Personal Capture licenses for screen/video/audio capture from staff PCs/Macs (think 'snippets' for flipped classroom resources, etc). Funding is approved to extend this to include live streaming and in-class interactive Lecture Tools. It has been extremely robust and is considered a critical component of our edtech ecosystem. We currently have an opt-in approach, under reconsideration in response to our Students' Association request for capture to be mandated. Integrated into Moodle but recordings can also be accessed outside the LMS. 1M views/downloads last year – 42,000 last week in preparation for our S1 exams. We also use Bb Collaborate for virtual classroom/webinars.
University of Canterbury	Echo360	Echo is installed in 20 lecture venues and we have 100 Personal Capture licenses. At this point, it is an opt-in service. We are currently investigating ways in which we might use the venues in which devices have been installed more effectively, rather than installing additional devices. In addition, Colleges are being challenged to provide us with a view on the criteria they will use over the next three years in allocating limited lecture capture functionality. The aim is to stimulate healthy debate and decision-making relating to the learning and teaching gains associated with such usage.
University of Melbourne	Echo360	With over 90 venues enabled for audio and screen recording, an opt-in model is currently employed. To date in 2013, more than 650 subjects are scheduled for regular recordings, with more than 1000 recordings per week, on average. The university is considering an opt-out model, phased in during 2014 - this service modification will lead to increased use and provides a driver for automated management of system bookings.
University of New England	Camtasia Relay for live capture, Camtasia Studio for desktop capture	As for the general stance, academics are encouraged to use Camtasia Relay but it is not compulsory. The new system will probably be one that automatically records everything according to the timetable though the academic will be able to stop the recording. We will be moving to another system which hasn't been announced yet but will most likely be Echo 360. This will be in the main lecture theatres and others will still stay with Camtasia Relay.
University of New	Lectopia moving to Echo360	This includes approximately 60 centrally allocated teaching venues with audio and primary display capture. Wider rollout to some non-centrally allocated

South Wales		teaching venues and venue video capture planned for S1 2014 and beyond. Lecture recordings accessed primarily via integrations with both Bb Learn and Moodle. Currently opt-out and exploring Moodle EchoCentre blocks and Bb EchoCentre links enabled by default all new LMS courses.
University of Newcastle	Echo360	We are using Echo360 for lecture capture, and have most of our large lecture theatres, and some medium ones equipped, either with hardware or software solutions. We are moving toward a model where all classes in rooms of either 40 or 60 seats or larger (we haven't decided which yet, it depends on cost) will be equipped for lecture capture. We are then planning to move to an "opt out" model, where all classes are captured and provided to students unless specifically "opted out".
University of Otago	In-house solution	We offer our current system in all pool theatres (87). Most of these are audio only with 11 being audio/video etc. As part of the new system over a number of years we will roll out the new solution (which will be video/audio) to all theatres. We do plan to integrate it with our timetable system but still envision and opt in solution for a number of years to come (Though I do plan on having discussions about 'opt-out' with various academic boards in the future to get them thinking about it. A half way house may be we record all lecture but the lecture has to make them available (And the original deleted automatically if not made available in 2 weeks for example). We allow staff to 'opt in' to lecture capture. We also 'live stream' a number of lecture and events a week (About 30 sessions a week on average) Lecture Capture is very popular amongst students with student driving uptake amongst staff (Just like happened in LMS early this century). As with every technology some lectures really like podcasting... others choose not to use it. As always the question should be 'does this enhance my teaching and the students learning' if the answer is yes... use it... if the you are not sure but doesn't believe it hurts consider students demands, if you believe it does hurt teaching, don't use it. The answer might be different per lecturer and per class. We have a lot of staff who are champions for Lecture Capture and do some amazing things with the likes of precasts and post casts, supplemental material etc etc and on the other end of the argument some are adamant they will never use lecture capture. (We have similar stances on every technology... (using LMS v Not, handing out course readings v not, OHPs v Document Cameras etc.)
University of Queensland	Echo360 and Kaltura	Now: Opt-out: Started Semester 1 – 2013. Echo360 was integrated with the new 'Syllabus +' timetabling software. Lectures taking place in Echo360 equipped venues are automatically recorded according to the timetable. Recordings are linked to an associated Blackboard course site for students to use. Academic staff have the option to override this. Future: UQ currently only has capacity to record lectures for about 40% its courses. While some short/medium term expansion makes sense, the hardware based recording strategy does not scale to all courses given the cost of \$5500+/room. Students are increasingly demanding and making good use of recordings for study (26,000 views/day). We are complimenting the hardware based 'safe capture' with lectern PC based classroom capture linked to the timetable system, and this may increase recording rates to 70/80%. Any significant move towards 100% video lecture content , or move towards flipped classroom will require a more scalable complimentary strategy of increasing our ability to record lectures from the desktop (often in advance of non-traditional classes). To that end we have bought and deployed desktop recording capability site wide(PCAP + Kaltura and others) and there are discussions about whether we need more flat theatres, and also quiet rooms to record short instructional grabs.
University of South Australia	Echo360	The more the better :-). Obvious area for expansion in the future as more faculty embrace blended learning models. We also purchased the Echo360 Personal Capture add-on, allowing staff to record at their desktop and then publish to the Echo360 server.
University of Southern Queensland	Camtasia Relay for live capture, Camtasia Studio for desktop capture	Recommended capture using an Opt-in approach. Strong preference for the production of pre-recorded quality presentations. But being practical, this is not yet a widespread practice. We are also strong users of Blackboard Collaborate and house some 200 plus rooms per semester
University of Sydney	Echo360	All our lecture captures are streamed via the LMS (Blackboard Learn), use of Echo360 is not mandated centrally but I understand some faculties/schools may mandate its use. Echo360 is not used to replace face to face lectures but as a revision tool, it is also used in some units to assist students with disabilities, some academics limit access to the recordings to the student with the disability.
University of Tasmania	Echo360, including personal capture.	We have had lecture recording available since 2005. We now have approx. 35 venues enabled with audio + content (VGA) capture. In Hobart approx. 75% of all delivered lectures are captured, at other campuses the figure is 60%. We capture approx. 540 lectures per week in-venue including 100+ lectures or short recordings captured at-desk using the Echo Personal Capture or on MP3 devices followed by upload to Echo. The volume of recordings continues to increase each semester. We are trialling live webcasting via Echo and there has been some uptake. The main route for distribution of the recordings to students is via integration with the LMS (D2L) and the Echo system receives 33,000 - 43,000 hits per week. In-venue lecture capture bookings are placed by staff using either our LMS middleware (called MyLO Manager) or an online form. There is strong expressed demand from students that all lectures are recorded and this has been considered but we need to improve the integration between Echo and the timetable system to facilitate an opt-out stance, as well as policy change endorsed by Academic Senate.
University of Technology, Sydney	No institutional wide system	We are not engaged in systematic lecture capture, in fact I actively discourage it. My view is that if the lecture can be replaced by a video of it, then I encourage academics to make a podcast/ vodcast of the lecture and then use the f2f time for more engaging learning experiences. I am aware however, that some academics have made their own arrangements for recording their lectures.

University of the South Pacific (Fiji)	Lectopia (legacy system)	Now our audio technicians use recorders only when a request is made by a lecturer. We also record lecturers in our audio studios and then create synchronised PPTs and audio (sometimes with a still image of the lecturer) using Camtasia for uploads to Moodle.
University of Sunshine Coast	MediaSite	Recordings are manually scheduled - there is no automation of scheduling or linking back to Blackboard courses. Recording links are manually added to Bb courses by the lecturer. We are currently in the final stages of preparing for an upgrade to v6.1 in early July. This will bring compatibility to iDevices and other mobile platforms with the move from WMV to MP4 as the media format. Future enhancements include desktop capture, ingestion of media prepared outside MediaSite and virtual recorder capacity for teaching spaces (moving away from proprietary MediaSite hardware requirements). Possibly some better integration with Bb (auto publishing/scheduling?). Lecture recording is voluntary. It is widely used in some Schools but not used at all in others. Students appear to be very much in favour of recording.
University of Waikato (NZ)	Panopto	Voluntary but supportive. The software exists in all teaching rooms although fixed hardware (cameras and mics) not as widespread but we continue to roll it out. Our uptake of Panopto has been impressive in the 4 years that we have been using it. We provision papers and users via Moodle so all a teacher has to do is add a Panopto block in Moodle and then Panopto recordings will be available there for students. We encourage use of Panopto outside of lectures since it can be used at your desktop or laptop. We have seen staff using it to give feedback on assignments, to demo experiments, to work through a process in some software e.g. using Excel or SPSS (as well as support areas developing help videos), and some live broadcasts of music performances. Students can now also record to the system if staff allow them.
University of Western Australia	Echo360	We have almost 80 lecture venues with the facilities. For the 80 venues, for those that are part of the central timetabling system, all lectures are automatically scheduled for capture and processing. Students access captured lectures through a block in their LMS Unit (ie Moodle course) as long as the lecturer has added the block to the unit page.
University of Western Sydney	Echo360	At UWS, all lecture theatres are set up automatically to capture lectures and the recordings (using Echo360) are automatically uploaded to the relevant vUWS (the LMS) site. There's an opt-out policy, and Dean (or delegate) approval to opt-out must be sought for 3 or more lecture recordings. Guidance for teaching staff is provided: <a href="http://www.uws.edu.au/_data/assets/pdf_file/0008/449270/Lecture_Capture_User_Guide_Strategies_for_engaging_your_students.pdf">http://www.uws.edu.au/_data/assets/pdf_file/0008/449270/Lecture_Capture_User_Guide_Strategies_for_engaging_your_students.pdf</a> .
University of Wollongong	Echo360	At Wollongong we have just upgraded to Echo360 in 40 venues, it has gone well and students are enjoying the improvement. The Personal Capture (P-CAP) component of the tool (desktop pre-recording of lectures as opposed to in-lecture recording) has been tested and then deployed on a limited release, giving preference to those who need to share material with students at other campuses but have been allocated classrooms without the appropriate lecture capture technology. This limited release usage is expected to continue until a formalised plan is in place detailing additional resourcing and funding. Contact <a href="mailto:edustream@uow.edu.au">edustream@uow.edu.au</a> for details on the Echo360 or P-CAP service including results from user-surveys. We still have very diverse usage, with many academics only providing recordings to students at our regional campuses, despite vocal calls by Wollongong students to be able to access them. Some academics have expressed concern that lecture capture impacts on lecture attendance. On the other hand, there are pockets of interest in doing away with lectures altogether and redesigning courses to all locations with pre-recorded lectures. Our undergraduate Nursing course abolished lectures this year, and replaced them with pre-recorded audio lectures recorded via traditional means as well as a large amount of content created with PCAP. They will be evaluating this later in the year, and writing it up. Contact <a href="mailto:angela_brown@uow.edu.au">angela_brown@uow.edu.au</a> for more info on the Nursing experience. Our staff held a very well attended session in May 2013 looking at the issues with access to digital recordings of lectures, and four student access scenarios were discussed that generated much debate. A large concern centred around copyright issues. Contact <a href="mailto:margaret_wallace@uow.edu.au">margaret_wallace@uow.edu.au</a> for more info on the session. I am currently using the system to capture some of our Public Guest Lectures, and then with some post-production (top and tailing and new titles inc presenters photo) I can create resources that are good enough to be output for the public via Youtube. This scenario is an isolated incidence – a non-standard but valuable additional use as we move into a program of Open Educational initiatives. Contact me ( <a href="mailto:slambert@uow.edu.au">slambert@uow.edu.au</a> ) for info on this use.
Victoria University	Echo360	Encouraged but not mandated from a university perspective. Some Colleges have mandated its use in the past - we currently have everyone on opt-in while we implement a new eLearning environment. We will re-visit opt-out (at least at the College level) once the new system is in place. Haven't turned on the interactive features yet but will do so hopefully start of next year as part of the upgrade to our entire eLearning environment.
Victoria University of Wellington (NZ)	Echo360 (replacing MediaSite)	We're making it possible to capture every lecture, whether or not they do is a decision for each course. We're starting to make resources available here: <a href="http://www.cad.vuw.ac.nz/wiki/index.php/VStream">http://www.cad.vuw.ac.nz/wiki/index.php/VStream</a>

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