

The ACODE Benchmarks for Technology Enhanced Learning

Second Edition



The Australasian Council on Open and Digital Education, hereafter referred to as ACODE

Acknowledgement

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Along with those forbears who developed the original benchmarking model back in 2007.

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ACOCE Leading technology enhanced learning and teaching

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Introduction

The ACODE benchmarks have been developed to assist institutions in their practice of delivering a quality technology enhanced learning (TEL) experience for their students and staff (recognising that some institutions refer to their practice with terms such as e-learning, online or flexible learning, blended, etc.). There are nine benchmarks, each of which can be used as a standalone indicator or used collectively to provide a whole institution perspective. However, where these benchmarks become even more powerful is when they are used in association with other institutions, as part of a collaborative interinstitutional benchmarking exercise that ACODE facilitates every two years. This is where one or more institutions are willing to share their practices and journey in TEL with others, based on the outcomes of their own internal benchmarking activity.

The benchmarks were originally developed as part of an ACODE-funded project initiated by Christine Goodacre and Angela Bridgland in 2007 (prior to them focusing on TEL). They were developed collaboratively by representatives of a number of ACODE member universities and, at the time, were independently reviewed by Professor Paul Bacsich, a UK consultant specialising in benchmarking and was the author of the Pick & Mix benchmarking model (Bacsich 2009). This group established the original ACODE Benchmarking Model.

Ten years ago (2014), the original ACODE Benchmarks were subject to a major review to ensure they were modernised and to change the focus to TEL. A team of six ACODE representatives worked on this project and developed the first suite of Benchmarks for TEL, but were still based in the original benchmarking model. The then-new Benchmarks were designed to assist any institution, not just ACODE member institutions, to monitor their capacity to provide the best possible TEL experience for their students and staff.

Since this time the 2014 Benchmarks have been used in a formal way by some 59 institutions across five countries (Marshall & Sankey, 2023). ACODE has also facilitated five formal interinstitutional activities that have well and truly tested the model, the benchmarks, and the performance indicators. Over ten years, ACODE Executive members have gathered feedback, considered evaluation data, observed emerging trends in the sector and agreed that it was timely to institute a new review to again modernise benchmarks in time for the scheduled 2024 interinstitutional benchmarking activity.

In parallel, at the ACODE 85 Workshop, held in November 2021, it was agreed that ACODE would start to develop an additional benchmark that considered Learning Spaces, with a particular focus on the use of technologies in relation to these spaces and how the virtual might compliment the physical. This work was originally led by Tim Grace and Liane Joubert from the Australian National University and many ACODE Delegates have contributed to this work over this time. As part of this review, the group sought to also incorporate the emerging Learning Spaces Benchmark, now added to this document as Benchmark 9.

This Benchmarking document does not stand alone. There are a range of practices that are needed to enact a quality system for TEL at an institution. These are best captured by implementing an organizational framework, such as the ACODE TEL Framework (McCarthy & Halley, 2018), which was formed out of a collaboration of 14 universities across Australia and New Zealand. This framework provides "an adaptable mechanism to assist the collaborative planning, implementation, support and review for TEL across Higher Education Institutions" (p. 4). The Framework is a companion piece to these Benchmarks.

Benchmarking vs Standards

To be clear these benchmarks are not standards but may be used in conjunction with standards to provide an institution with a holistic picture of where they are positioning their TEL practice. For example, Figure 1 would indicate that an institution may choose to implement something like the



ASCILITE Technology Enhanced Learning Accreditation Standards (TELAS, 2022), as a 'measure' at the individual course/unit level (at the micro level), whereas benchmarking is an 'activity' that looks to understand to what extent an institution is using standards (and other measures) to mediate a level of quality across its units of study. In many senses, Benchmarking operates at a higher level than do standards and is something that may happen when standards are being applied (or not) within an institution. At this point, a benchmarking tool may be used to allow for internal self-reflection, which may then lead to an opportunity for comparisons to be made between institutions, to identify areas for potential improvement and to provide a mechanism to engage in that improvement (Marshall & Sankey, 2023).

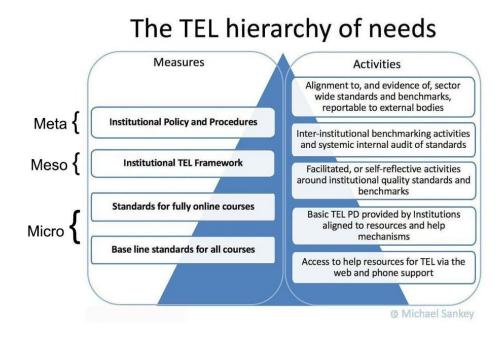


Figure 1. The TEL hierarchy of needs (Sankey 2018).

Of note also, in Figure 1 is the notion that an Institution may also have in place its TEL Framework at the Meso level, an example of which, and preferred model, is the ACODE TEL Framework (McCarthy & Halley, 2018).

About these Benchmarks

The purpose of benchmarking, and these benchmarks particularly, is to support continuous quality improvement in technology enhanced learning at an institutional level. The approach reflects an enterprise perspective, integrating the key issue of pedagogy, with institutional dimensions such as planning, staff and student development and infrastructure provision. The benchmarks have been developed for use by the organisational areas responsible for the provision of leadership in technology enhanced learning and their associated services.

Each benchmark area is discrete; for example, staff support for the use of technology enhanced learning can be used alone or in combination with other benchmarks. The benchmarks can be used for self-assessment purposes (in one or several areas), or as part of a collaborative, comparative exercise, one that would typically include other institutions.

Because these benchmarks may be used individually there is some limited duplication across the benchmarking topics. However, in this iteration of the benchmarks the authors have tried to minimise this overlap, suggesting rather, that an institution may choose to select indicators from a range of



related benchmarks rather than just choosing one or two whole benchmarks. Something more akin to the Bacsich Pick & Mix methodology of benchmarking, where one selects the indicators they want to use from a much broader group of indicators. Importantly, if this methodology is adopted it becomes more difficult to compare your results with other institutions who may not necessarily have used this same methodology.

It is expected that to get full advantage of engaging in this benchmarking exercise an institution may choose to do this over a period of years, rather than all at one time. For example, in any given year two to three Benchmarks may be addressed, were the areas selected reflect institutional priorities for quality improvement at that time. Alternatively, if an institution wanted to gain a full understanding of where they were placed at a given point in time, they could undertake a full review. Both approaches have been used successfully by institutions since the Benchmarks were first developed.

The Benchmarks cover the following nine topic areas:

- 1. Institution-wide policy and governance for technology enhanced learning;
- 2. Planning for institution-wide quality improvement of technology enhanced learning;
- 3. Information technology systems, services and support for technology enhanced learning;
- 4. The application of technology enhanced learning services;
- 5. Staff professional development for the effective use of technology enhanced learning;
- 6. Staff support for the use of technology enhanced learning;
- 7. Student training for the effective use of technology enhanced learning;
- 8. Student support for the use of technology enhanced learning;
- 9. Technology enhanced learning spaces.

Each of the above benchmarks includes a Scoping Statement, a Good Practice Statement, a set of Performance Indicators (PIs) and an area to make initial recommendations on that may need improvement having emerged from undertaking the assessment.

Each measure is rated on a 5-point scale (where level 5 indicates good practice). There are five statements that represent progress toward good practice (as represented by an indicator), with some represented as a matrix. Service areas, or units within the institution can complete a self-assessment of current practice using these indicators, noting that it is not necessary to aspire to best practice on all. Rather, it is one way to establish a 'real' picture of where your institution may sit in relation to these and, by extension, within the sector.

The rest of this document is designed to assist you in the use of these Benchmarks and comprises of:

- A step-by-step guide on how to use the Benchmarks (Section 1)
- A complete set of the Benchmarks and Performance Indicators (Section 2).
- A Team Consolidation template (Section 3). This template may be use at the various stages of the reporting process. It is also found on the ACODE website under Benchmarking as a fillable Word document.

Section 1 – How to use these Benchmarks

The ACODE benchmarks are designed to be used for continuous improvement and quality assurance purposes. Their focus is technology enhanced learning, an area that is now mission critical within higher education institutions for the quality delivery of courses and programs.

Use of the benchmarks can provide a basis for research for improving practice, resulting in a better understanding of operational systems and processes and contributing to accountability requirements. Use of the benchmarks can also provide a tool for learning and may be helpful in breaking down beliefs that "we are different", instead "we are all in this together".

Some of the benefits that have been found from prior use of the benchmarks include:

- Identification of strengths and weaknesses for planning and priority setting;
- An improved understanding of strategic and operational requirements;
- A framework for quality assurance purposes;
- Recognition of areas of achievement;
- Generation of ideas and a reinvigoration of practice, for example, the development of strategies for improvement in areas of need;
- Collaboration is facilitated develop better understanding across areas within the institution and with partners; and
- Communities of practice can develop which provide opportunities for staff professional development, project work, staff exchanges and secondments.

Structure of the Benchmarks

Each benchmark contains the following elements:

- Scoping Statement;
- Good Practice Statement;
- Performance Indicators (PIs);
- Performance Measures on a 5-point scale (or LPIs);
- A place to provide a rationale and evidence to support your assessment; and
- An area to note an initial recommendation which may be useful for future improvement.

The Scoping Statement

This describes what is considered in the benchmark and sometimes what is out of scope. The following example from Benchmark 1 illustrates the purpose of the scoping statement, providing a detailed explanation of what is addressed in the benchmark and what is not. This reduces the potential for ambiguity and confusion when progressing through the performance indicators.

Example 1 – **Scoping Statement from Benchmark 1**: Institution-wide policy and governance for technology enhanced learning:

This applies to institution-level planning, policy development and implementation in relation to the application of technology-enhanced learning. It includes the delegation of authority and responsibility for developing and implementing policy, and strategic and operational plans.

The Good Practice Statement

This statement indicates what good practice would look like if it were being done well, noting that this level of practice is achievable. The following example is provided from Benchmark 1.

Example 2 – **Good Practice Statement from Benchmark 1**: Institution-wide policy and governance for technology enhanced learning:



The institution has established, well understood strategy, governance mechanisms and policies that guide the selection, deployment, evaluation and improvement of the technologies used to support learning and teaching.

The Performance Indicators

These identify the key performance areas that would indicate the realisation of the good practice statement. There is some duplication of performance indicators across the benchmarks, but we have tried to limit this to where it is absolutely necessary. The following example provides the first two of the eight performance indicators used in Benchmark 1.

Example 3 – **The first 2 of 8 Performance Indicators from Benchmark 1**: Institution-wide policy and governance for technology enhanced learning

- 1. Institution strategic and operational plans support and promote the use of technology enhanced *learning.*
- 2. Specific plans relating to the use of technology enhanced learning are aligned with the institution's strategic directions and operational plans.

The Performance Measures

Performance Measures are statements contained within a matrix, representing levels of progress towards good practice (as represented by the performance indicator). A five-point scale is used for self-assessment and comparison purposes. Level 5 represents best practice.

The following example demonstrates the two types of measures that are provided in the benchmarks. This is where there is a requirement to demonstrate one, two, or more elements within a particular performance indicator. Where a single measure is provided a single score is selected, as per the first example below. Where two or more measures are provided, each should be scored individually, then the summary scale should be completed, as per the second example below. In this case there is also an 'Overall Rating' required. However, this does not necessarily have to be an average of the two sub-measures necessarily.

Example 4 – **The first two of eight Performance Indicators from Benchmark 1**: Institution-wide policy and governance for technology enhanced learning.

5 Strategic and operational plans both have clear recognition of technology enhanced learning Overall rating 1 2 3 4 X 5									чв				
5		Strategic	and oner	ational n	lans hoth	have cle	ar recogn	nition of t	echnolog	venhand	od loarni	nσ	
4	x	Strategic	Strategic and operational plans both have some recognition of technology enhanced learning										
3		Strategic	trategic or operational plan includes some recognition of technology enhanced learning										
2		Strategic	Strategic or operational plan but no recognition of technology enhanced learning										
1		No curre	nt strateg	ic or ope	rational p	olans							

PI 1. Institution strategic and operational plans support and promote the use of technology enhanced learning.

Indicate where you believe you rate above.



PI 2. Specific plans relating to the use of technology enhanced learning are aligned with the institution's strategic directions and operational plans.

	Spe	Specific plans exist Plans are aligned												
1		No specif	fic plans				Not a	Not aligned to institution strategic and operational plans						
2		Immature plans						Limited alignment with either institution strategic or operational plans						
3		Some spe		Moderate alignment with either institution strategic and operational plans										
4	х	Numerou	is specific	: plans			Moderate alignment with both institution strategic and operational plans							
5		Compreh	ensive su	ns		Considerable alignment with both institution strategic and operational plans								
Overall rating 1 2							3	x	4		5			

Indicate where you believe you rate above.

Providing a Rationale and Evidence

Once a rating is given, the 'rationale' for that rating on a scale of 1-5 should be provided, along with evidence supporting that determination.

The 'rationale' will usually be a series of dot points indicating key reasons that support the 'rating', this is then supported by your 'evidence', enough that others viewing your 'rationale' in the future will understand this in your institutional context.

'Evidence' might comprise of a URL leading to a planning document, report, guidelines, support website, etc., or a written statement containing excerpts, or explaining the whereabouts of the 'evidence', or an artefact. This evidence will then be used to defend or support your 'rating', if required.

The initial recommendations for improvement section

When conducting a self-assessment activity it will often become clear that there are things that can be done to improve in a certain area. There is a space provided at the end of each benchmark where notes may be made for future reference. It is advisable to make these notes when you think of them, rather than leaving them for later. These points may be personal, or they may be useful in team discussions with team members coming together to reach a consensus.

Step-by-step guide

Benchmarking technology enhanced learning is not a trivial undertaking and would normally be considered as part of an enterprise's commitment to using benchmarking for quality improvement purposes. It requires planning and resources if outcomes are to be fully realised and the commitment of staff involved is to be assured.

One, several or all benchmarks could be used in a benchmarking exercise. In recognition of this there is some limited duplication of performance indicators across the benchmarks. The benchmarks can also be used within an institution, for self-assessment purposes only, or they might be used with others to develop comparative data for the purpose of identifying improvement strategies based on the practice of colleagues. The focus of the benchmarking exercise might be the institutional level or that of an organisational unit, such as a faculty or teaching and learning unit.

In this benchmarking context, self-assessment is the critical comparison of the existing performance of a selected area or topic against a set of predetermined expectations. Goodacre, Bridgland, & Blanchard, (2005), determined that when using a benchmarking framework, one of the key success factors in



achieving comparability was that all collaborating institutions used the templates and self-assessment processes in full.

In the context of this ACODE benchmarking activity, this is about:

- Gathering as much information as possible on the performance area (i.e. Performance Indicator) and importantly using examples to provide evidence.
- Making a comparison between what was gathered (examples and evidence) against the expected Performance Measures.
- Weighing-up or making informed judgement about where the performance area stands in the continuum of progress towards achieving 'good practice' (as seen in the Performance Measures).

The self-assessment activity will ultimately facilitate an institution knowing itself just that little bit better, that is, against what has been proposed as 'good practice' by the Performance Measures in the Benchmarks. The desired outcome is for each institution to identify their strengths and weaknesses and ways they can facilitate the actions required to make enhancements in these areas where appropriate.

There are two steps in an institution assessing itself against the benchmarks (institutional selfassessment). It starts with individuals making an assessment (individual self-assessment) and then those individuals, as a team, making an assessment (team self-assessment). The following provides a set of guidelines that is 'an approach' to undertaking this activity.

Steps in self-assessment

Part 1: Individual self-assessments

Typically, this activity will include staff representing different areas of the institution that have a stake in how a particular Benchmark is performed. It may include staff members from the Learning and Teaching (L&T) area, from ICT, faculty representatives, staff and/or student support, training, library, etc. Typically, there may be three, up to four people involved in this self-assessment, depending on the Benchmark. Each team member will perform a self-assessment as best they can.

Although this may involve staff from different areas taking responsibility for the different benchmarks, we do suggest that one person take overall responsibility for the whole activity. It's important to the integrity of the final outcome that you get this level of cross-institutional engagement.

Importantly, the individual self-assessments are being made by those who can source the appropriate evidence, as they know and are familiar with how the institution is working to fulfil its mandate in the given area. In other words, they are seen as professionals in this space.

It is strongly recommended that an institution, or the benchmarking team, avoid the temptation of conducting a survey of their staff to see what 'they' think. This has been shown in the past to be problematic and can lead to a level of confusion in the team. This activity may well be used for other reasons but is not necessary for this activity. The evidence and the agreement reached between the team members should be sufficient to speak for itself, as they have a stake in these activities being conducted in the best possible way.

The following steps are suggested:

- 1. Bring the team members together, those who will be doing the self-assessment, and go through the ground rules with them. It's Important they are familiar with the area covered by the benchmark.
- 2. At the outset, confirm the benchmarking area you will all be assessing.
- 3. As a team, review what would be considered 'good practice' for the chosen Benchmark and associated Performance Indicators. Discuss this so as to come to a common understanding.

- 4. We suggest considering the 'significant' criterion/criteria for that performance area (as Identified in the Performance Measures area and ranking box).
- 5. The team should then go and gather their 'evidence' and make their individual assessments based on what they find (a comparison will be made between an existing situation and expected performance measures when you come back together).
 - a. We suggest considering the following forms of 'evidence':
 - i. quantifiable/direct measurable data (if available)
 - ii. documents e.g. policies, business protocol, procedural write-up
 - iii. practices, methods, programs
 - b. Provide excerpts and or links to these quantifiable data, documents, etc.
- 6. Once the team members have their evidence they should make a judgment of the indicator by providing a 'ranking' on the 5-point scale, using only the 5-points, not half points.
 - a. Try not to over emphasise the measures the 5-point scale is a guide for summary purposes.
 - b. Try not to use the measures without reference to 'evidence'.
- 7. Write a brief 'justification' for the ranking. This doesn't have to be extensive but sufficient to remind you of the key points as to how you arrived at this ranking. This is important for when you come back together.

Part 2: Team self-assessment

Once you have completed the individual assessments the team assessing the benchmark will come back together to share their self-assessments and make a final assessment. The ultimate goal is to reach a level of agreement amongst the team and decide on ONE final score. This score will be used to represent your institutions position. Not everybody will agree but please avoid the temptation to give half marks (i.e. 3.5), as the tool is designed to work best with whole numbers.

8. Consult/discuss individual self-assessments with the benchmarking team.

- 1. Walk through the individual self-assessment discuss the ranking and the 'whys' for that ranking, using the examples of evidence.
- 2. Have a dialogue/debate/discussion.
- 3. Make a group decision on the individual assessment.
- 4. Provide a 'final' group ranking this is the ranking that will be submitted.

If the institution is using this self-assessment in preparation for a broader benchmarking activity with other institutions, once the institution (via the team) has decided on its ranking for a particular benchmark, it should collate its evidence and be ready to share. A space will be provided later in this document for the institution to provide its team assessment (ranking) for each Benchmark they have chosen to assess but it is not expected that the evidence be supplied at this time. The evidence will be shared later during the benchmarking activity (or summit) by the institution's nominated representative.





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Glossary of terms

Benchmarking	It is the process of measuring one's performance, in a given area, against a
	specific set of established performance indicators.
	The extension of this is to benchmark, or compare, the results of this
	activity against others who have done the same thing.
Cloud-based tools or	This is essentially a metaphor for software, platforms and infrastructure
services	that are found and used on the Internet.
Courses	May also be known as Units, Subjects, Papers, etc. Many Courses will make
	up a Program.
Evaluation	The process of making of a judgement about the value, or success of
	something, using a set of criteria or standards.
IT	Information Technology.
KPI	A key performance indicator is a quantifiable measure of performance over
	time for a specific objective. It can provide targets for teams, milestones to
	gauge progress, and insights that help people across an institution.
Pedagogical	Pedagogy is the method and practice of teaching. Pedagogical refers to the
	teacher's design, development and delivery of an academic subject.
Performance	A type of measurement that may be used to evaluate the success of a
Indicators (PIs)	particular activity in which the institution is involved.
Programs	Also known as Course, Degree, etc. Completion of a Program will usually
	result in a formal award of academic achievement.
Social media	Internet-based applications that allow the creation and exchange of user-
	generated content in virtual communities and networks.
Stakeholder	An entity (person, group or organisation) with a key interest in the
	outcomes of a given activity or project.
Staff Development	Also known as Professional Development, where the staff of an institution
	is provided instruction and training.
Technology enhanced	May also be referred to as technology enhanced learning and teaching. It is
learning (TEL)	where technology is used to enable new types of learning practices and to
	enhance existing learning settings.
TEL Services	The ICT-based systems used by an institution that may be either internally
	or externally hosted.



Section 2 – The Complete Set of Benchmarks

The Benchmarks cover the following nine topic areas:

- 1. Institution-wide policy and governance for technology enhanced learning;
- 2. Planning for institution-wide quality improvement of technology enhanced learning;
- 3. Information technology systems, services and support for technology enhanced learning;
- 4. The application of technology enhanced learning services;
- 5. Staff professional development for the effective use of technology enhanced learning;
- 6. Staff support for the use of technology enhanced learning;
- 7. Student training for the effective use of technology enhanced learning;
- 8. Student support for the use of technology enhanced learning;
- 9. Technology enhanced learning spaces.



Benchmark 1

Institution-wide policy and governance for technology enhanced learning

Scoping Statement

This applies to institution level planning, policy development and implementation in relation to the application of technology enhanced learning. It includes the delegation of authority and responsibility for developing and implementing policy, and strategic and operational plans.

Good Practice Statement

The institution has established, well understood strategy, governance mechanisms and policies that guide the selection, deployment, evaluation and improvement of the technologies used to support learning and teaching.

Performance Indicators and measures

1

Pl 1. Institution strategic and operational plans support and promote the use of technology enhanced learning.

2

1	No current strategic or operational plans											
2	Strategic or operational plan but no recognition of technology enhanced learning											
3	Strategic or operational plan includes some recognition of technology enhanced learning											
4	Strategic and operational plans both have some recognition of technology enhanced learning											
5	Strategic and operational plans both have clear recognition of technology enhanced learning											

3

4

5

Indicate where you believe you rate above.

Rationale and Evidence:

Overall rating

PI 2. Specific plans relating to the use of technology enhanced learning are aligned with the institution's strategic directions and operational plans.

	Spec	cific plans ex	kist	Plans are aligned										
1		No specifi	c plans			Not a	Not aligned to institution strategic and operational plans							
2		Immature	plans			Limited alignment with either institution strategic or operational plans								
3		Some spec	cific plans			Moderate alignment with either institution strategic and operational plans								
4		Numerous	s specific p	lans			Moderate alignment with both institution strategic and operational plans							
5		Comprehe	ensive suit	e of plans			Considerable alignment with both institution strategic and operational plans							
Overal	Overall rating 1 2 3 4 5													

Indicate where you believe you rate above.



PI 3. Planning for the ongoing use of technology enhanced learning is aligned with the institutions budget and has formal request and approval processes in place.

	Budget alignmer	nt			Processes						
1	No alignme	nt			No process in place						
2	Limited alig	nment			In place but not confirmed across the institution						
3	Moderate a	lignment			In pla	In place but inconsistently applied across the institution					
4	Considerab	le alignme	nt		In pla	In place and mostly confirmed across the institution					
5	Complete a	lignment			In pla	ace and fu	lly confirm	ned across	the institu	ution	
Ove	rall rating	2		3		4		5			

Indicate where you believe you rate above.

Rationale and Evidence:

PI 4. Institution policies, procedures and guidelines provide a framework for how technology enhanced learning should be used at both a course and program level.

	Course level					Progr	ram level					
1	No policie the course		ires and g	uidelines a	applied at	No policies, procedures and guidelines applied the program level						
2	Little align guidelines		n policies,	procedure	es and		Little alignment with policies, procedures and guidelines					
3	Some aligi guidelines		h policies,	procedur	es and		Some alignment with policies, procedures and guidelines					
4	Good aligr guidelines		h policies,	procedure	es and		Good alignment with policies, procedures and guidelines					
5	Comprehe procedure			Comprehensive alignment with policies, procedures and guidelines								
Overa	Overall rating 1 2					3		4		5		

Indicate where you believe you rate above.

Rationale and Evidence:

PI 5. Policies, procedures and guidelines on the use of technology enhanced learning are well communicated and integrated into processes and systems.

	Communicated					Integrated					
1	Not comm	nunicated					Not integrated				
2	Poorly cor	Poorly communicated					Poorly integrated				
3	Moderate	ly commu	nicated				Moderately integrated				
4	Substantia	Substantially communicated						Substantially integrated			
5	Widely co	mmunicat	ed				Fully integrated				
Overall rating		1		2		3		4		5	
Indicato	whore you believe		ah ay a					•	•		

Indicate where you believe you rate above.



PI 6. The institution has established mechanisms for the governance of technology enhanced learning that include representation from key stakeholders.

Note: For areas related to support please refer to Benchmark 5
--

	Governance				Stak	eholder repr	resentatio	n				
1	No govern	nance				None						
2	Planning f	or governa	ance			Limited						
3	Immature					Moderate						
4	Establishe	d but mat	uring			Substantial						
5	Well estab	lished and	l mature			Compreher	isive					
								-				
Overal	l rating	3		4		5						

Indicate where you believe you rate above.

Rationale and Evidence:

PI 7. Authority and responsibility for the operational management of the technologies used to enhance learning and teaching are clearly articulated.

	Authority and r	esponsibil	ity		Clea	arly articulate	ed			
1	Non-existe	ent				Not articula	ited			
2	Not well e	stablished	or define	d		Very limited	d articulati	on		
3	Establishe	d but only	partially c	defined		Moderately articulated				
4	Well defin	ed but ma	turing			Substantial articulation				
5	Well estab	lished and	l mature			Compreher	sively arti	culated		
Overal	l rating	3		4		5				

Indicate where you believe you rate above.

Rationale and Evidence:

PI 8. The institution uses a clearly articulated policy framework and governance structure when deciding on the adoption of new technologies.

	Policy framewo	rk for new	technolo	gies		Clea	rly articulate	ed					
1	Non-existe	ent					Not articula	ited					
2	Not well e	stablished	or define	d			Very limited	d articulati	on				
3	Establishe	d but only	partially o	defined			Moderately articulated						
4	Well defin	ed but ma	turing			Substantial articulation							
5	Well estab	lished and	d mature				Compreher	sively arti	culated				
					1						1		
Overa	Overall rating 1 2							4		5			

Indicate where you believe you rate above.



Initial recommendations for improvement – Benchmark 1

This is where you would pull together all the threads and provide a suite of recommendations for your institution.

Consolidation table

	nchmark 1: Institution-wide policy and governance for technology enhanced arning.	1	2	3	4	5
1.	Institution strategic and operational plans support and promote the use of technology enhanced learning.					
2.	Specific plans relating to the use of technology enhanced learning are aligned with the institution's strategic directions and operational plans.					
3.	Planning for the ongoing use of technology enhanced learning is aligned with the institutions budget and has formal request and approval processes in place.					
4.	Institution policies, procedures and guidelines provide a framework for how technology enhanced learning should be used at both a course and program level.					
5.	Policies, procedures and guidelines on the use of technology enhanced learning are well communicated and integrated into processes and systems.					
6.	The institution has established mechanisms for the governance of technology enhanced learning that include representation from key stakeholders.					
7.	Authority and responsibility for the operational management of the technologies used to enhance learning and teaching are clearly articulated.					
8.	The institution uses a clearly articulated policy framework and governance structure when deciding on the adoption of new technologies.					

Based on the above analysis we recommend that...



Benchmark 2

Planning for institution-wide quality improvement of technology enhanced learning

Scoping Statement

Institution-wide processes are in place, including, planning, implementation, evaluation and feedback loops, to ensure the effective use of technology enhanced learning and its alignment with external requirements.

Good Practice Statement

Institutions support and encourage the sustainable, effective and efficient use of technology enhanced learning through strategic planning processes at all levels of the institution. The focus is continuous improvement through systematic and regular evaluation of implementation strategies and outcomes. Such evaluation will in turn inform future planning and align with the institutions strategic direction.

Performance Indicators and measures

P2 1. Institution-wide processes for quality assurance are in place and in use to integrate technology enhanced learning at both a program and course level.

	Processes in pla	ce				At both a Course and Program level							
1	None						No integrati	ion					
2	Limited						Across som	e course a	nd or prog	grams			
3	Moderate						Across many courses and or programs						
4	Extensive						Across most courses and programs						
5	Comprehe	ensive					Across all co	ourses and	programs	5			
]		
Overall rating 1 2						3		4		5			

Indicate where you believe you rate above.

Rationale and Evidence:

P2 2. Comprehensive evaluation processes are in place to support decisions relating to the implementing of technology enhanced learning services.

1		None						
2		Limited						
3		Moderate						
4		Substantia	I					
5		Comprehe	nsive					
Overal	l ratir	ng	1	2	3	4	5	1

Indicate where you believe you rate above.



P2 3. Planning for quality improvement of the institution's technology enhanced learning systems and procedures is resourced.

1		No resourc	ces											
2		Inadequate	e resource	es										
3		Moderate	resources											
4		Substantia	Substantial resources											
5		Comprehe	Comprehensive resources											
Overal	l ratir	ng	1		2		3		4		5			

Indicate where you believe you rate above.

Rationale and Evidence:

P2 4. Evaluation cycles are in place to measure key performance indicators (KPIs) identified by and for all stakeholders, and are integrated in planning for continuous improvement purposes.

	KPI's evaluation	processe	s in place			Inte	Integrated into planning for improvement					
1	No evalua	tion cycles					No integ	gration				
2	Limited ev	aluation c	ycles of so	me stakeł	nolders		Limited	integratio	n			
3	Evaluation	cycles for	some stal	keholders			Moderate integration					
4	Evaluation	cycles for	most stak	eholders			Extensive integration					
5	Evaluation	cycles of	all stakehc	olders			Compre	hensive in	tegration			
Overal	l rating	1		2		3		4		5		

Indicate where you believe you rate above.

Rationale and Evidence:

P2 5. Outcomes are reported to all levels of the institution.

1		No outcon	nes are rej	ported								
2		Some outo	comes are	reported	to some le	evels						
3		Outcomes	are repor	ted to the	majority	of levels						
4		Outcomes are reported to all levels										
5		Comprehensive outcomes are reported to all levels										
Overall rating 1 2 3 4 5												
overai	i i a cinig	ing 1 2 3 4 5										

Indicate where you believe you rate above.



Initial recommendations for improvement – Benchmark 2

This is where you would pull together all the threads and provide a suite of recommendations for your institution.

Consolidation table

Bei	nchmark 2: Planning for institution-wide quality improvement of technology	1	2	3	4	5
enl	hanced learning.					
1.	Institution-wide processes for quality assurance are in place and in use to					
	integrate technology enhanced learning at both a program and course level.					
2.	Comprehensive evaluation processes are in place to support decisions relating					
	to the implementing of technology enhanced learning services.					
3.	Planning for quality improvement of the institution's technology enhanced					
	learning systems and procedures is resourced.					
4.	Evaluation cycles are in place to measure key performance indicators (KPIs)					
	identified by and for all stakeholders, and are integrated in planning for					
	continuous improvement purposes.					
5.	Outcomes are reported to all levels of the institution.					

Based on the above analysis we recommend that...



Benchmark 3

Information technology systems, services and support for technology enhanced learning

Scoping Statement

Information technology (IT) services describe the range of systems and support required to maintain and update the institution's approach to TEL. This can include the use of: learning management systems and their associated systems; library systems; cloud-based tools and services and mobile technologies. It also includes hardware (computers, telecommunications and ancillary equipment) and networks, both internal and external which are used for the purposes of technology enhanced learning, for both on and off-campus environments.

Out of scope. The pedagogical issues relating to the use of IT services is the domain of other benchmarks.

Good Practice Statement

Technical infrastructure, both physical and virtual, is aligned with institutional learning goals and the technologies are resourced, support staff are trained and the infrastructure is implemented, managed, maintained, administered and supported efficiently and effectively.

Performance Indicators and Measures

P3.1. Systems and processes are in place to generate learning and educational analytic data to support decision-making when acquiring and maintaining technology-enhanced learning systems.

	Systems					Proc	Processes				
1	No system	ns and no d	lata				No proces	sses in pla	ce		
2	Some syst	ems and li	mited dat	а			Ad hoc pr	ocesses in	place		
3	Some syst	ems and g	ood data				Limited processes in place				
4	Substantia	al systems	and data			Defined processes in place					
5	Comprehe	ensive syst	ems and d	lata			Compreh	ensive pro	cesses in	place	
Overa	ll rating	1	2		3		4		5		

Indicate where you believe you rate above.

Rationale and Evidence:

P3.2. There are clearly articulated responsibilities, and processes for the implementation and maintenance of the technology enhanced learning systems.

Note: For example, a central L&T area may govern (have business ownership of) the L&T systems, but the ICT department may facilitate this for them and the university. It is therefore important that there are both processes in place to support this and that the 'who' is responsible for 'what' is clearly articulated.

	Processes 1 Not articulated 2 Poorly articulated 3 Generally articulated 4 Substantially articulated 5 Comprehensively articulated					Resp	onsil	bilities					
1	Not articu	lated					Not	articulate	d				
2	Poorly arti	iculated					Роо	rly articula	ated				
3	Generally	,											
4	Substantia	ally articula	ated				Substantially articulated						
5	Comprehe	ensively ar	ticulated				Con	nprehensiv	vely articu	lated			
Overal	verall rating 1 2						3		4		5		

Indicate where you believe you rate above.



P3.3. Responsibilities and processes for support and training of staff and students in the use of the technology enhanced learning systems are clearly defined.

Note: this is dealt with in much greater depth in Benchmarks 5-8. A poor score in this indicator would indicate a closer look using these further indicators is necessary

	Responsibilities	;			Proce	esses	;				
1	Not define	ed				Not	defined				
2	Poorly det	fined				Роо	rly defined	d			
3	Generally	defined		Gen	erally defi	ined					
4	Substantia	ally define	d			Sub	stantially o	defined			
5	Comprehe	ensively de	efined			Corr	nprehensiv	vely define	ed		
Overa	ll rating	1		2	3			4		5	

Indicate where you believe you rate above.

Rationale and Evidence:

P3.4. Resources are allocated for the implementation and maintenance of IT services that support technology enhanced learning.

Note: This refers to both the initial implementation of TEL systems and the ongoing maintenance of these systems. Maintenance includes ongoing licencing and facilitating upgrades.

	Implementation	۱				Main	tena	ince						
1	No resour	ces allocat	ed				No	resources	allocated					
2	Inadequat	e resource	ources allocated Inadequate resources allocated Moderate resources allocated											
3	Moderate	resources	allocated				Moderate resources allocated							
4	Substantia	al resource	s allocated	ł			Substantial resources allocated							
5	Comprehe	ensive resc	ources allo	cated			Con	nprehensiv	/e resourc	es allocate	ed			
										1				
Overal	l rating	1		2		3			4 5					

Indicate where you believe you rate above.

Rationale and Evidence:

P3.5. Experimentation with new and emerging technologies is encouraged and resourced by the institution and supported by procedure.

Note: There are defined opportunities provided for experimentation with new and emerging technologies that are supported by the institution, e.g. trials, pilots, etc. This is distinct from more isolated (not institution -wide) systems that may come from a grant or external funding body, with no broader application.

	Encouraged			Resource	d			Supporte	ed by proc	edure		
1	Not encourage	ed		No	resources			No	procedure	e		
2	Limited encou	ragement		Ina	dequate re	esources		Ad	hoc proce	dures		
3	Moderate end	Moderate encouragement				Moderate resources					lures	
4	Substantial en	Substantial encouragement				sources		De	fined proc	edures		
5	Fully encourag	ged		Cor	nprehensi	ve resourc	es	Со	Comprehensive procedures			
Ove	erall rating	1		2		3		4		5		

Indicate where you believe you rate above.



P3.6. Professional development occurs for staff managing the services used to support technology enhanced learning (including new and emerging technologies).

Note: This does not refer to the training for those using L&T systems. This is dealt with in Benchmarks 5 and 6. This is to ensure those supporting these staff are fully trained in all aspects of the systems.

	For core services					For n	ew a	nd emerg	ing techn	ologies		
1	No PD occur	rs					No F	PD occurs				
2	Ad hoc PD o	ccurs, but	only when	n requeste	ed		Ad ł	noc PD occ	urs, but o	nly when	requested	
3	Semi regula	r PD occur	s for some	e services			Semi regular (reactive) PD occurs					
4	Regular PD occurs for most services Regular PD occurs (after implementation)											
5	Comprehen	Comprehensive PD occurs for all services					Com	nprehensiv	ve (pro-ac	tive) PD oo	ccurs	
											_	
Ove	rall rating	1		2		3			4		5	

Indicate where you believe you rate above.

Rationale and Evidence:

P3.7. The institution has robust procedures and processes in place to identify and manage 'risk' associated with all the technology enhanced learning services.

Note: This is not about pedagogical risk, rather the inappropriate use of these systems may cause emotional or financial harm to individuals or the institution. Typically, this would be seen in an institutional Risk Register.

1		None						
2		Limited						
3		Moderate						
4		Substantia	ıl					
5		Comprehe	ensive					
Overal	l ratir	ng	1	2	3	4	5	

Indicate where you believe you rate above.

Rationale and Evidence:

P3.8. Support levels and pathways for assistance for all learning technologies are clearly communicated to staff.

Note: There is clear signposting for staff as to where to find support and that these are regularly communication to remind staff as to where this may be found. This is dealt with in more depth for staff in Benchmark 6 and for Students in Benchmark 8.

	Path	ways for su	pport				Com	muni	icated					
1		Not identi	ays for support Communicated Not identified No communication II-defined pathways Ad hoc communication Some pathways identified Partially communicated Pathways mostly identified Mostly communicated Comprehensively identified Comprehensively communicated											
2		Ill-defined	pathways					Ad l	hoc comm	unication				
3		Some path	nways ider	ntified				Part	tially comr	nunicated				
4		Pathways	mostly ide	ostly identified				Mo	stly comm	unicated	ation cated ated			
5		Comprehe	ensively ide	entified				Con	nprehensiv	vely comm	unicated			
						1								
Overal	all rating 1 2							3		4		5		

Indicate where you believe you rate above.



Initial recommendations for improvement – Benchmark 3

This is where you would pull together all the threads and provide a suite of recommendations for your institution.

Consolidation table

Benchmark 3: Information technology systems, services and support for technology enhanced learning.	1	2	3	4	5
 Systems and processes are in place to generate learning and educational analytic data to support decision making when acquiring and maintaining technology enhanced learning systems. 					
 There are clearly articulated responsibilities, and processes for the implementation and maintenance of the technology enhanced learning systems. 					
3. Responsibilities and processes for support and training of staff and students in the use of the technology enhanced learning systems are clearly defined.					
 Resources are allocated for the implementation and maintenance of IT services that support technology enhanced learning. 					
5. Experimentation with new and emerging technologies is encouraged and resourced by the institution and supported by procedure.					
 Professional development occurs for staff managing the services used to support technology enhanced learning (including new and emerging technologies). 					
 The institution has robust procedures and processes in place to identify and manage 'risk' associated with all the technology enhanced learning services. 					
8. Support levels and pathways for assistance for all learning technologies are clearly communicated to staff.					

Based on the above analysis we recommend that...



Benchmark 4

The application of technology enhanced learning services

Scoping Statement

The effective application of technology enhanced learning (TEL) services into courses and programs encompasses the underlying rationale and strategic intent, how it is embedded into teaching, how it is resourced, evaluated and advanced.

Out of scope. Technological, policy and administrative issues relating to the application of TEL services are the domain of other benchmarks.

Good Practice Statement

The application of TEL services are grounded in the institution's Learning and Teaching strategy; informed by good pedagogical practice and research; supported adequately; deployed and promoted effectively; evaluated from a number of perspectives; and evolved to improve practice.

Performance Indicators and Measures

P4.1. The application of technology enhanced learning services are grounded in the institution's learning and teaching strategy.

Overal	Il rating	Comprehensively grounded												
4 5		Substantially grounded												
3		Modest grounding												
2	Very limite	ed ground	ing											
1	Not groun	ded												

Indicate where you believe you rate above.

Rationale and Evidence:

P4.2. The pedagogical intent of the application of technology enhanced learning services within programs and individual courses is readily apparent to teaching and support staff.

Note: Program here refers to the qualification (Bachelors, Masters, Graduate Diploma, etc), while Courses refers to the individual subjects/units that make up that Program. Across both of these levels, it is made clear to staff and students how the technology is being used across the program, and that this is consistently applied at the course level. An example of this might be the Program-wide use of ePortfolio.

	At a course lev	el				At a	prog	ram level				
1	Not appa	rent					Not	apparent				
2	Apparent	in only lim	ited cases	;			Арр	oarent in o	nly limited	d cases		
3	Apparent	;, but not c	onsistently	/			Apparent, but not consistently					
4	Mostly a	oparent					Mostly apparent					
5	Fully app	arent					Full	y apparen	t			
					1							
Overa	ll rating	1		2		3	3		4		5	

Indicate where you believe you rate above.



P4.3. The pedagogical application of technology enhanced learning is framed by standards and guidelines and enabled by the institution.

Note: This implies that a tool or set of standards is being used by the institution to mediate the quality of individual units in a program and across the program. An example of this would be the TELAS Framework (Technology Enhanced Learning Accreditation Standards). In the rationale and evidence, one should note what set of standards are being used. Enablement in this context would indicate that this is also supported by the institution.

	Standards and G	Guidelines			Enabled							
1	Not applie	d			N	lone enabled						
2	Applied, b	ut only in l	imited case	S	Li	imited enabl	ement					
3	Applied, b	ut not con	sistently		Enabled, but do not cover all areas							
4	Mostly ap	plied			N	Mostly enabled						
5	Comprehe	ensively ap	plied		C	omprehensiv	vely enabl	ed				
Overa	ll rating	1		3		4		5				

Indicate where you believe you rate above.

Rationale and Evidence:

P4.4. Collegial communities exist to promote and support the use of technology enhanced learning, for communicating its innovative use and pedagogical application in learning and teaching.

Note: This is a general indicator for those who may not participate in Benchmarks 5 and 6. However, there should be a consistent outcome noted here if these other two indicators are being used.

1	None in ex	xistence											
2	Very few o	communit	ies exist of	[:] this natu	re and are	ad hoc at	best						
3	Some com	Some communities exist, but have limited exposure and reach											
4	Communi	Communities exist and have a reasonable expose and reach											
5	Communities exist and have a reasonable expose and reach These communities are wide spread and have very good exposure and reach												
Overa	ll rating	1		2		3		4		5			

Indicate where you believe you rate above.

Rationale and Evidence:

P4.5. Resources are allocated for the ongoing pedagogical development of technology enhanced learning services. (development of new things)

5	Fully fund	Fully funded											
4		Well funded											
3	Partially fu	Partially funded											
2	Very limite	ed resourc	es allocat	ed									
1	No allocat	ion											

Indicate where you believe you rate above.



P4.6. The pedagogical application of technology enhanced learning services is sustainable.

Note that this would indicate that this is contained within an institutional or faculty-based strategic approach to the purposeful use of technology that is supported appropriately.

1	This is not	considere	d										
2	Usually im	plemente	d as one-c	off's with li	ttle thoug	ht for sust	ainability						
3	Sustainabi	Sustainability is sometimes considered during implementation, with ad hoc follow through											
4	Sustainabi	Sustainability is usually considered during implementation, with some follow through											
5	Implemen	Implementation is well funded with the view to sustaining good practice longer term											
						•		•					
Overal	Overall rating			2		3		4		5			

Indicate where you believe you rate above.

Rationale and Evidence:

P4.7. The pedagogical impact of technology enhanced learning services is regularly evaluated in detail at a course and program level.

Note: This extends past the notion of an LMS, to also include all authorised systems that support TEL, such as ePortfolio, lecture capture, etc. In other words, the full-service experience.

	At a	course leve	el .				At a	prog	ram level				
1		Not evalua	ated					Not	evaluated				
2		Limited ev	aluation o	ccurs				Lim	ited evalua	ation occu	rs		
3		Evaluated	but not in	great deta	ail			Eva	luated but	not in gre	at detail		
4		Evaluated in reasonable detail						Eva	luated in r	easonable	detail		
5		Fully evaluated						Full	y evaluate	d			
Overal	Overall rating		1		2		3	3		4		5	

Indicate where you believe you rate above.

Rationale and Evidence:

P4.8. Evidence of impact advances the pedagogically sound use of technology enhanced learning services in courses and programs.

Note: that it is one thing to evaluate these systems, but in this case, that evaluation also extends to a continuous improvement at the course and program level in their pedagogical application. For example, are lecture recordings being listened to, or are ePortfolio pages being viewed and commented on, etc.

	Atao	course leve					At a	prog	ram level				
1		Not appar	ent					Not	apparent				
2		Apparent	only in lim	ited cases				Арр	arent only	/ in limited	l cases		
3		Apparent, but not consistently						Арр	arent, but	: not consi	stently		
4		Mostly apparent						Mo	stly appare	ent			
5		Fully appa	rent					Full	y apparen [.]	t			
									I				
Overal	Overall rating		1		2		3	3		4		5	

Indicate where you believe you rate above.



Initial recommendations for improvement – Benchmark 4

This is where you would pull together all the threads and provide a suite of recommendations for your institution.

Consolidation table

Be	nchmark 4: The application of technology enhanced learning services	1	2	3	4	5
1.	The application of technology enhanced learning services are grounded in the institution's learning and teaching strategy.					
2.	The pedagogical intent of the application of technology enhanced learning services within programs and individual courses is readily apparent to teaching and support staff.					
3.	The pedagogical application of technology enhanced learning is framed by standards and guidelines and enabled by the institution.					
4.	Collegial communities exist to promote and support the use of technology enhanced learning, for communicating its innovative use and pedagogical application in learning and teaching.					
5.	Resources are allocated for the ongoing pedagogical development of technology enhanced learning services (development of new things).					
6.	The pedagogical application of technology enhanced learning services is sustainable (keeping them going).					
7.	The pedagogical impact of technology enhanced learning services is regularly evaluated in detail at a course and program level (not just about the LMS, it's the full service experience).					
8.	Evidence of impact advances the pedagogically sound use of technology enhanced learning services in courses and programs.					

Based on the above analysis we recommend that...



Benchmark 5

Staff professional development for the effective use of technology enhanced learning

Scoping Statement

The key focus is on developing teaching staff to make effective use of a range of approaches to technology enhanced learning (TEL). Staff development activities encompass individual and group delivery, face-to-face, as well as online.

Self-directed learning activities and resources are also included. Some professional development will be designed and delivered to meet the strategic needs of the organisation, whilst other activities will be provided to meet the demands of teaching staff as they arise.

Good Practice Statement

Quality learning and teaching is brought about where people are confident, enthusiastic, skilled and well supported, and learning experiences are designed to engage the learner and employ a variety of approaches.

Engagement in professional development should not be limited by factors of physical location, equity or technological skills. This means that staff development is offered flexibly, accommodates a range of entry points, is evaluated and is informed by the work of related units.

A good practice approach to the use of technology enhanced learning reflects an understanding of learners' characteristics, as required by different discipline contexts, and is aligned to institutional strategy.

Performance Measures

P5.1. Staff development in technology enhanced learning is aligned to the institution's learning and teaching strategy.

Overal	l rating	1		2		3		4		5			
5	Extensive staff development, fully aligned with strategy												
4	Staff dev	Staff development mostly aligned with strategy											
3	Some sta	Some staff development, partly aligned with strategy											
2	Some sta	Some staff development, but not aligned with strategy											
1	No staff o	developm	ient and i	no alignm	nent with	strategy							

Indicate where you believe you rate above.

Rationale and Evidence:

P5.2. Processes are in place and are used to identify staff development needs in support of the institution's strategy for technology enhanced learning.

1	No proce	esses in p	ace									
2	Some pro	ocesses e	xist, but r	no eviden	ce of use							
3	Some processes exist and they are partly used											
4	Processes are in place and they are partly used											
5	Comprehensive processes are in place and they are well used											
		-	-		-	-	-		-	-		
Overal	l rating	1		2		3		4		5		

Indicate where you believe you rate above.



P5.3. Programs and resources addressing educational and technical staff development needs are provided.

Note: 'Educational' may also be read as 'Pedagogical'. This is dealt with more fully in Benchmark 4. If this Benchmark (5) is being done in isolation and Benchmark 4 is not attempted, this may serve as an initial indication as to whether this should be pursued further in Benchmark 4.

	Educational					Techr	nical					
1	No educ	ational pr	ogram or	resource	es		No te	echnical	program	or resou	irces	
2	Limited	education	al progra	m/resou	rces		Limit	ed tech	nical pro	gram/res	ources	
3	Educatio	nal progra	am, limite	ed resour	ces	•	Tech	nical pr	ogram, lii	mited res	ources	
4	Educatio	Educational program, limited resources Educational program, good resources						nical pr	ogram, g	ood resou	urces	
5	Extensive educational program/resource						Exter	nsive te	chnical p	rogram/r	esources	
										1		
Overal	overall rating			2		3			4		5	

Indicate where you believe you rate above.

Rationale and Evidence:

P5.4. Coordination occurs between those areas providing staff development for technology enhanced learning across the institution.

No coord	ination										
Ad hoc co	ordinatio	on occurs	5								
Semi regi	Semi regular coordination occurs										
Regular c	Regular coordination occurs										
Compreh	Comprehensive coordination occurs										
Overall rating			2		3		4		5		
	Ad hoc co Semi regu Regular c Compreh	Semi regular coord Regular coordinati Comprehensive co	Ad hoc coordination occurs Semi regular coordination oc Regular coordination occur Comprehensive coordinatio	Ad hoc coordination occurs Semi regular coordination occurs Regular coordination occurs Comprehensive coordination occurs	Ad hoc coordination occurs Semi regular coordination occurs Regular coordination occurs Comprehensive coordination occurs	Ad hoc coordination occurs Semi regular coordination occurs Regular coordination occurs Comprehensive coordination occurs	Ad hoc coordination occurs Semi regular coordination occurs Regular coordination occurs Comprehensive coordination occurs	Ad hoc coordination occurs Semi regular coordination occurs Regular coordination occurs Comprehensive coordination occurs	Ad hoc coordination occurs Semi regular coordination occurs Regular coordination occurs Comprehensive coordination occurs	Ad hoc coordination occurs Semi regular coordination occurs Regular coordination occurs Comprehensive coordination occurs	

Indicate where you believe you rate above.

Rationale and Evidence:

P5.5. Staff development for technology enhanced learning is resourced and incorporated into workload plans.

	Res	ourced					Inco	orpo	orated in	workloa	ıd			
1		Not reso	urced					No	ot incorp	orated in	workloa	ad		
2		Inadequa	ately reso	ourced				In	adequate	ely incorp	oorated i	n worklo	ad	
3		Moderat	ely resou	urced				Μ	oderatel	y incorpo	orated in	workloa	d	
4		Substant	ially resc	ourced				Su	bstantia	lly incorp	orated i	n worklo	ad	
5		Comprei	nensively	resource	ed			Сс	mprehe	nsively ir	corporat	ted in wo	orkload	
														1
Overal	Overall rating				2		3			4		5		

Indicate where you believe you rate above.



P5.6. Staff development programs are delivered flexibly and address differing skill levels.

	Deli	ivered flexi	ibly			Add	ress	differing	skill leve	els		
1		Not at all					Not	: at all				
2		Limited					Lim	ited				
3		Moderate	e				Мо	derate				
4		Substanti	al				Sub	stantial				
5		Fully					Full	у				
Overal	Overall rating		1		2	3	3		4		5	

Indicate where you believe you rate above.

Rationale and Evidence:

_

P5.7. Evaluation data is used to inform the planning for continuous improvement of staff development processes.

Overal	l rating	1		2		3		4		5			
5	Systemat	Systematic evaluation exists across all programs											
4	Regular e	Regular evaluation exists across most processes											
3	Some go	Some good examples of evaluation exist, but not across the board											
2	Only limi	ted or ad	hoc eval	uation ex	ists								
1	No evalu	ation occ	urs										

Indicate where you believe you rate above.



Initial recommendations for improvement – Benchmark 5

This is where you would pull together all the threads and provide a suite of recommendations for your institution.

Consolidation table

1	2	3	4	5

Based on the above analysis we recommend that...



Benchmark 6

Staff support for the use of technology enhanced learning

Scoping Statement

Staff support for the use of technology enhanced learning encompasses both technical and educational support.

Technical support is required to deal with problems or needs related to the technological environment, including hardware and software, communications and connections, and performance.

Educational support addresses the needs of staff to use technologies and/or encounter difficulties while using them.

Out of scope. This benchmark does not include staff development which forms part of the more formal institutional professional development framework – see Benchmark 5

Good Practice Statement

Staff are made aware of and have access to comprehensive technical and educational support for the use of technology enhanced learning tools and services, prior to and during the implementation of the technology. These may be provided through training sessions, available on a just-in-time basis, and for troubleshooting purposes.

Performance Indicators and Measures

P6.1. Technical and educational support is aligned with current and emerging technologies being deployed by the institution for learning and teaching.

Note: emerging technologies can include those systems actively being piloted, but please note this in the rationale.

For current technologies						For e	mer	ging techn	ologies				
1	No alignment						No alignment						
2	Limited alignment						Limited alignment						
3	3 Moderate alignment						Moderate alignment						
4	Considerable alignment						Considerable alignment						
5	5 Full alignment						Full alignment						
Overall rating		1		2		3			4		5		

Indicate where you believe you rate above.

Rationale and Evidence:

P6.2. Support requirements for staff are identified at individual, team and institutional levels.

For individuals				At a team level				At an institutional level					
1	Not identified			Not identified					Not identified				
2	Limited identification			Limited identification				Limited identification					
3	Some identification			Some identification				Some identification					
4	Regular identification			Regular identification				Regular identification					
5	Systematic identification			Systematic identification				Systematic identification					
Overall rating 1			2		3		4		5				

Indicate where you believe you rate above.



P6.3. Support services and resources provided for staff are regularly evaluated.

	Evaluation of s	upport ser	vices			Evalua	atio	n of resou	rces			
1	No evalua	ation occur	S				No e	evaluation	occurs			
2	Limited o	r ad hoc ev	aluation o	occurs			Limi	ited or ad	hoc evalua	ation occu	irs	
3	Semi regu	ular evalua	tion occur:	s			Sem	ni regular e	evaluation	occurs		
4	Mostly re			Mos	stly regula	r evaluatio	on occurs					
5	Fully and	Fully and regularly evaluated					Full	y and regu	larly evalu	uated		
Overa	Overall rating 1 2					3			4		5	

Indicate where you believe you rate above.

Rationale and Evidence:

P6.4. Coordination occurs between those areas providing support services for staff across the institution.

Note: Those provided by central units or in faculties, such as LMS support, ICT support, HR, Library, etc.

1	No coord	nation											
2	Ad hoc co	ordination	occurs										
3	Semi regu	ılar coordir	nation occ	urs									
4	Regular c	Regular coordination occurs											
5	Compreh	Comprehensive coordination occurs											
Overall rating		1		2		3		4		5			

Indicate where you believe you rate above.

Rationale and Evidence:

P6.5. Technology enhanced learning support services are accessible and used by staff.

Note: Accessible in this context means easy to find.

	Services	s are acco	essible to	staff			Servi	ices a	are used b	y staff			
1	No	ot at all						Not	at all				
2	Re	estricted						Lim	ited use				
3	W	orking h	ours					Мо	derate usa	ige			
4	Ex	Extended hours							od usage				
5	24	1 X 7						Exte	ensively us	ed			
									1		[
Overa	ll rating		1		2		3	3		4		5	

Indicate where you believe you rate above.



P6.6. Technology enhanced learning support services are adequately resourced.

1		Not resour	rced									
2		Inadequat	ely resour	ced								
3		Moderate	ly resource	ed								
4		Substantially resourced										
5		Comprehensively resourced										
Overall rating			1		2		3		4		5	

Indicate where you believe you rate above.

Rationale and Evidence:

P6.7. Technology enhanced learning support services are promoted to staff.

1		Not promo	oted										
2		Limited pr	omotion										
3		Moderate promotion											
4		Substantial promotion											
5		Systematically and comprehensively promoted											
Overall rating		1		2		3		4		5			

Indicate where you believe you rate above.

Rationale and Evidence:

P6.8. New technology enhanced learning services are fully analysed for staff support requirements, prior to and during the adoption process.

	Prior to adoptic	n				Duri	ng ad	option				
1	No analys	is occurs					No	analysis oo	curs			
2	Limited or	ad hoc an	alysis occi	urs			Lim	ited or ad	hoc analys	sis occurs		
3	Partial and	alysis occu	ſS				Part	tial analysi	s occurs			
4	Reasonable analysis occurs						Rea	isonable ai	nalysis occ	urs		
5	Comprehensive analysis occurs						Con	nprehensi	ve analysis	occurs		
								1		r		
Overall rating		1		2		3	3		4		5	

Indicate where you believe you rate above.

Rationale and Evidence:

P6.9. Evaluation data on technology enhanced learning support services for staff are integrated into continuous improvement processes.

1	No integra	ation											
2	Only limite	ed or ad h	oc integra	tion exists									
3	Some goo	Some good examples of integration exist, but not across the board											
4	Regular in	Regular integration exists across most services											
5	Systemati	Systematic integration exists across all services											
Overa	ll rating	1		2		3		4		5			

Indicate where you believe you rate above.



This is where you would pull together all the threads and provide a suite of recommendations for your institution.

Consolidation table

Be	nchmark 6: Staff support for the use of technology enhanced learning	1	2	3	4	5
1.	Technical and educational support is aligned with current and emerging technologies being deployed by the institution for learning and teaching.					
2.	Support requirements for staff are identified at individual, team and institutional levels.					
3.	Support services and resources provided for staff are regularly evaluated.					
4.	Coordination occurs between those areas providing support services for staff across the institution.					
5.	Technology enhanced learning support services are accessible and used by staff.					
6.	Technology enhanced learning support services are adequately resourced.					
7.	Technology enhanced learning support services are promoted to staff.					
8.	New technology enhanced learning services are fully analysed for staff support requirements, prior to and during the adoption process.					
9.	Evaluation data on technology enhanced learning support services for staff are integrated into continuous improvement processes.					



Benchmark 7

Student training for the effective use of technology enhanced learning

Scoping Statement

Student training refers to the act of training students in the applied use of technologies in a learning context. It can take many forms and be provided by many people. For example, through specific training classes; self-help resources; or as part of a unit of study. Aspects of training students in an ethical approach to technology enhanced learning are also included. Staff providing the training need appropriate skills which require alignment to the professional/staff development Benchmark 6.

Technologies used in a learning context refers to the systems and tools utilised by the institution to support learning and teaching. These can include: required computing equipment and software; learning management systems and associated applications; library systems; cloud-based environments; mobile technologies.

Out of Scope. Student training does not encompass training in other aspects of learning development (i.e. general study skills) and it does not encompass student support, which is the domain of Benchmark 8.

Good Practice Statement

The provision of student training for the effective use of the institution's technology enhanced learning systems is aligned with the teaching approaches in use; is adequately resourced; is coordinated with other student support services; is flexible; is focused on the needs of students; covers a range of current and emerging technologies, and reflects good practice in the use of technology.

Performance Indicators and Measures

P7.1. Student training is aligned with the technologies and teaching approaches used by the institution.

	Align	ned with the	e technolo	gies used			Alig	ned v	vith the te	aching ap	proaches	used	
1		No alignm	ent					No	alignment				
2		Limited ali	gnment					Lim	ited alignn	nent			
3		Moderate	alignment	:				Мо	derate alig	nment			
4		Considerable alignment							siderable	alignment			
5		Full alignment						Full	alignment	t			
Overall rating			1		2		:	3		4		5	

Indicate where you believe you rate above.

Rationale and Evidence:

P7.2. Student training for technology enhanced learning is adequately resourced.

Overal	rall rating 1 2 3 4 5										
4 5		Substantially resourced									
3		Moderately resourced									
2	Inadequat	ely resour	ced								
1	Not resou	rced									

Indicate where you believe you rate above.



P7.3. Training and training resources provided for students are regularly evaluated.

	ion occurs	Evaluation of training No evaluation occurs									
			No e	evaluation	occurs						
Limited or	ad hoc ev	aluation o	occurs			Limi	ited or ad	hoc evalua	ation occu	rs	
Semi regul	ar evaluat	ion occurs	S			Sem	ni regular e	valuation	occurs		
Mostly reg			Mos	stly regula	r evaluatio	on occurs					
Fully and regularly evaluated						Full	y and regu	larly evalu	ated		
Overall rating			2		3	5		4		5	
	Mostly reg Fully and r	Mostly regular evalu Fully and regularly ev	Mostly regular evaluation occu Fully and regularly evaluated		Mostly regular evaluation occurs Fully and regularly evaluated	Mostly regular evaluation occurs Fully and regularly evaluated	Mostly regular evaluation occurs Mostly Fully and regularly evaluated Full	Mostly regular evaluation occurs Mostly regular Fully and regularly evaluated Fully and regularly	Mostly regular evaluation occurs Mostly regular evaluation Fully and regularly evaluated Fully and regularly evaluated	Mostly regular evaluation occurs Mostly regular evaluation occurs Fully and regularly evaluated Fully and regularly evaluated	Mostly regular evaluation occurs Mostly regular evaluation occurs Fully and regularly evaluated Fully and regularly evaluated

Indicate where you believe you rate above.

Rationale and Evidence:

P7.4. Coordination occurs between those areas providing training for students across the institution.

1		No coordin	nation										
2		Ad hoc coo	ordination	occurs									
3		Semi regular coordination occurs											
4		Regular coordination occurs											
5		Comprehensive coordination occurs											
Overall rating			1		2		3		4		5		

Indicate where you believe you rate above.

Rationale and Evidence:

P7.5. Student training programs are delivered flexibly and address differing skill levels.

Note: training programs may include training provided by the LMS group, student support areas, library, peer-learning programs, ICT areas, etc.

	Training is de	livered flexi	bly			Trai	ning a	addresses	different	skill levels	5	
1	Not at a						Not	at all				
2	Limited						Lim	ited				
3	Modera	te					Мо	derate				
4	Substar	tial					Sub	stantial				
5	Fully						Full	у				
			1		1					1		1
Overal	l rating	1		2		3	3		4		5	

Indicate where you believe you rate above.



P7.6. Student training promotes an ethical approach to the use of technology enhanced learning systems provided by the institution.

1	N	ot appare	ent						
2	A	oparent i	n only lim	ited cases					
3	A	oparent,	but not co	onsistently	applied				
4	M	lostly app	barent						
5	Fu	Illy appai	rent						
Overal	l rating		1		2	3	4	5	

Indicate where you believe you rate above.

Rationale and Evidence:

P7.7. Evaluation data is used to inform the planning for continuous improvement of student training.

5	Systemation Systemation	c evaluatio	on exists a	cross all pi	rograms	2			F	
4	Regular ev	aluation e	xists acro	ss most pr	ocesses					
3	Some goo	d example	s of evalu	ation exist	, but not a	across the	board			
2	Only limite	ed or ad h	oc evaluat	ion exists						
1	No evalua	tion								

Indicate where you believe you rate above.

Rationale and Evidence:

P7.8. There are clearly defined channels for students to access the training they require.

1	No channe	els defined						
2	Limited de	efinition ar	nd not exp	licit				
3	Defined b	ut not exp	licit					
4	Defined a	nd mostly	explicit					
5	Comprehe	ensively de	fined and	explicit				
Overa	ll rating	1		2	3	4	5	

Indicate where you believe you rate above.



This is where you would pull together all the threads and provide a suite of recommendations for your institution.

Consolidation table

Benchmark 7: Student training for the effective use of technology enhanced learning	1	2	3	4	5
 Student training is aligned with the technologies and teaching approaches used by the institution. 					
2. Student training for technology enhanced learning is adequately resourced.					
3. Training and training resources provided for students are regularly evaluated.					
Coordination occurs between those areas providing training for students across the institution.					
Student training programs are delivered flexibly and address differing skill levels.					
Student training promotes an ethical approach to the use of technology enhanced learning systems provided by the institution.					
Evaluation data is used to inform the planning for continuous improvement of student training.					
 There are clearly defined channels for students to access the training they require. 					



Benchmark 8

Student support for the use of technology enhanced learning

Scoping Statement

Support for students in the use of technology enhanced learning systems and services is defined as primarily technical but the learning context should also be acknowledged. Support should be considered in terms of the use of computers and mobile technologies, learning management systems and their associated applications, library systems, and those cloud-based systems and tools adopted by the institution. The requirements of on-campus and off-campus study should be considered.

Good Practice Statement

Students are aware of and have access to effective and well-resourced support for the technology enhanced learning systems and services used by the institution. Student support is responsive to student needs, is coordinated with student training, and is constantly developing in response to changing technology.

Performance Indicators and Performance Measures

P8.1. The provision of support for students is aligned with the technology enhanced learning systems used by the institution.

Note: This relates to support for all the major systems provided by the institution and used by students in their studies, this may also include systems that are used at faculty or program level.

1	No alignn	nent						
2	Limited a	lignment						
3	Moderate	e alignme	ent					
4	Considera	able align	ment					
5	Full alignr	ment						
• •							-	

Indicate where you believe you rate above.

Rationale and Evidence:

P8.2. Student technology enhanced learning support services are resourced.

1		Not resou	urced						
2		Inadequa	tely reso	urced					
3		Moderate	ely resou	rced					
4		Substanti	ally resou	urced					
5		Compreh	ensively	resource	ł				
Overal	l ratir	ng	1		2	3	4	5	

Indicate where you believe you rate above.



P8.3. There are clearly defined channels for students to access support services and these are promoted to the student body.

	Clear channel	s to supp	ort servio	es		Suppor	t services	are prom	oted		
1	No chanr	nels defin	ed			N	ot promote	ed			
2	Limited d	lefinition	and not e	explicit		Li	mited pron	notion			
3	Defined I	out not ex	cplicit			Μ	oderate pr	omotion			
4	Defined a	and most	ly explicit			Su	ıbstantial p	oromotio	n		
5	Compreh	ensively	defined a	nd explic	it	Sy	stematical	ly and co	mpreher	nsively pro	omoted
			-						-		
Overal	l rating	1		2		3		4		5	

Indicate where you believe you rate above.

Rationale and Evidence:

P8.4. Student support services and resources are regularly evaluated.

	Sup	port servic	es are re	gularly e	valuated	Supp	oort	resource	s are reg	ularly eva	aluated	
1		No evalua	ation occ	urs			No	evaluatio	on occurs			
2		Limited o	r ad hoc	evaluatio	n occurs		Lim	ited or ad	d hoc eva	luation o	ccurs	
3		Semi regu	ular evalu	ation occ	curs		Sen	ni regular	evaluati	on occurs	5	
4		Mostly re	egular eva	luation o	occurs		Мо	stly regul	ar evalua	tion occu	urs	
5		Fully and	regularly	evaluate	d		Full	y and reg	gularly ev	aluated		
Overal	l ratir	ng	1		2	3	;		4		5	

Indicate where you believe you rate above.

Rationale and Evidence:

P8.5. Evaluation data on technology enhanced learning support services for students contributes to their continuous improvement.

1	No contribution to improvement
2	Only limited or ad hoc contribution to improvement occurs
3	Some contribution to improvement exist, but not across the board
4	Regular contribution to improvement exists across most services
5	Systematic contribution to improvement exists across all services

Overall rating 1 2 3 4 5

Indicate where you believe you rate above.



P8.6. Coordination occurs between those areas providing support for students across the institution.

Note: Support may include that provided by the LMS group, student support areas, library, ICT areas, etc.

1	No coord	ination												
2	Ad hoc co	oordinatio	on occurs	5										
3	Semi reg	Semi regular coordination occurs												
4	Regular c	oordinati	ion occur	S										
5	Compreh	ensive co	ordinatio	on occurs										
					1				1					
Overa	ll rating	1		2		3		4		5				

Indicate where you believe you rate above.

Rationale and Evidence:

P8.7. Procedures are in place to ensure there is alignment between student training and student support.

Note. This is aligned with responses from Benchmark 7 relating to Student training.

1	No alignr	ment												
2	Limited a	alignment	:											
3	Moderat	Moderate alignment												
4	Consider	Considerable alignment												
5	Full align	ment												
Overa	ll rating	nting 1 2 3 4 5												

Indicate where you believe you rate above.

Rationale and Evidence:

P8.8. Processes are in place to determine the ongoing support requirements of students.

Note: This includes horizon scanning and the advent of new and emerging technologies

1	No proce	sses												
2	Inadequa	te proces	sses											
3	Some pro	Some processes												
4	Regular p	orocesses												
5	Compreh	iensive pr	ocesses											
			1											
Overal	l rating	1		2		3		4		5				

Indicate where you believe you rate above.



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P8.9. New technology enhanced learning systems are fully analysed for student support requirements, prior to and during the adoption process.

	Prio	r to adopt	ion				During	adoption				
1		No analys	sis occurs	;			No	analysis	occurs			
2		Limited o	r ad hoc	analysis o	occurs		Lin	nited or a	d hoc ana	lysis occi	urs	
3		Partial an	alysis oc	curs			Partial analysis occurs					
4		Reasonat	ole analys	is occurs			Reasonable analysis occurs					
5		Compreh	ensive ar	nalysis oc	curs		Co	mprehens	sive analy	sis occur	S	
Overal											-	
Overal	Overall rating 1 2						3		4		5	

Indicate where you believe you rate above.



This is where you would pull together all the threads and provide a suite of recommendations for your institution.

Consolidation table

Be	nchmark 8: Student support for the use of technology enhanced learning	1	2	3	4	5
1.	The provision of support for students is aligned with the technology enhanced learning systems used by the institution.					
2.	Student technology enhanced learning support services are resourced.					
3.	There are clearly defined channels for students to access support services and these are promoted to the student body.					
4.	Student support services and resources are regularly evaluated.					
5.	Evaluation data on technology enhanced learning support services for students contributes to their continuous improvement.					
6.	Coordination occurs between those areas providing support for students across the institution.					
7.	Procedures are in place to ensure there is alignment between student training and student support.					
8.	Processes are in place to determine the ongoing support requirements of students.					
9.	New technology enhanced learning systems are fully analysed for student support requirements, prior to and during the adoption process.					



Benchmark 9

Technology Enhanced Learning Spaces

Special acknowledgement

The ACODE Executive would like to thank the working group, led by Liane Jourbert, for their excellent work in establishing this new Benchmark which included, Tim Grace (Australian National University) Michael Sankey and Bill Searle (Charles Darwin University), Stephen Marshall (Victoria University of Wellington), Ratna Selvaratnam (Edith Cowan University); Nadine Adams (Central Queensland University); Steve Leichtweis (University of Auckland); Karen Halley (university of Canberra). A special thanks also to Ella Masters, Chair of the Learning Environments Australasia (LEA), Australian Capitol Territory Chapter.

Scoping Statement

This benchmark describes learning spaces as resources enabling the application of TEL in the context of formally scheduled facilities where the physical environment supports formal and informal learning. Learning spaces provide for individual teaching accommodations in the broader context of being maintained, configured and accessible to a wide range of users. Given adequate resourcing, learning spaces include support services which contribute to the successful delivery of teaching and learning experiences; effectively, learning spaces can be perceived as learning partners. The defined focus on Learning Spaces (seen as provisioned resources) distinguishes it from broader TEL Services described in Benchmark 4.

Out of Scope. The surface features contributing to the aesthetic ambiance of learning spaces are beyond the realm of this benchmark. Likewise, the wider campus environs (conference centers, exhibition venues, etc.); domain specific facilities (libraries, cafes, residences, etc.); and virtual learning spaces (Facebook, Minecraft, etc.).

Good Practice Statement

Learning spaces are, enable and enhance active, collaborative, and authentic educational experiences, both formal and informal. They are flexible in response to the contemporary requirements of the people who are using them at a point in time. They are also inclusive and accessible and consequently well-equipped with versatile teaching tools and technologies. Similarly, connected environments that bring together physical and virtual spaces and understanding to motivate thinking and cultivate an exchange of creative ideas. These spaces are actively measured, and assessed through use, to inform ongoing institutional learning and ongoing improvements. As well as managed within a sustainable ecology of spaces capable of moving with the organization's evolving needs.

Performance Indicators and Performance Measures

	Sizes Not aligned to institution learning and					Configu	rations					
1	Not align	ed to inst	itution le	arning a	nd	No	ot aligned	to institu	tion learr	ning and		
1	teaching	strategy				tea	aching stra	ategy				
2	Limited a	lignment	with lear	ning and		Lir	nited aligr	nment wi	th learnir	ng and tea	aching	
2	teaching	teaching strategy					strategy					
3	Somewhat	at aligned	l learning	and tead	ching	So	mewhat a	ligned le	arning an	d teachin	ıg	
5	strategy					str	strategy					
4	Moderat	e alignme	ent with le	earning a	nd	M	Moderate alignment with learning and					
4	teaching	strategy				tea	aching stra	ategy				
5	Consider	able align	ment wit	h learnin:	ig and	Co	nsiderable	e alignme	ent with l	earning a	nd	
5	teaching	Considerable alignment with learning and teaching strategy					aching stra	ategy				
Overa	erall rating 1 2					3		4		5		

Indicate where you believe you rate above.



P9.2. Learning Spaces and the technologies within are accessible and inclusive.

	Accessibility					Inclu	usior	า				
1		fic focus o g on acce I technolo	ssibility e	vident in			imp	•	n inclusio	n evident	tility of us t in the to	
2	support f	port cons for access pol featur	ibility thr	-			for			-	eneric sup OS and too	
3		aces prov nology op ange of ac	tions add	ressing a			too		nnology d	options ad	h supplen ddressing upports	
4	tools and		gy option	ns addres	sing a		too		chnology	options a	oplementa addressin pports	-
5	range of standard accessibility needsExtensive accessibility options supportedby versatile tools and technology in majority of spaces							versatile			of diverso ogy in maj	
Overal	Overall rating 1 2						8		4		5	

Indicate where you believe you rate above.

Rationale and Evidence:

P9.3. Learning spaces have a comprehensive, sufficient, and consistent set of technology affordances supporting the range of pedagogies in use.

	Technology Af	fordance	es			Ran	ge of	f Pedago	gies				
1	No or ver		al provisio	on of lear	ning		No	alignmer	nt of tech	nologies	with peda	agogical	
-	technolog	gies					mo	dels					
2	Limited p	rovision	of learnin	ig techno	logies		Tec	hnologie	s limited	to transn	nission pe	edagogy	
2	inconsist	ently avai	ilable in d	lifferent	spaces		only						
	Variety o	f learning	; technolo	ogies with	n little		Tec	hnologie	s provide	support	for a limi	ted	
3	standard	Variety of learning technologies with littl standardization available in majority of						set of pe	dagogies	in use, w	ith more		
3	spaces						con	nprehens	sive or sp	ecialized	support o	only	
							available in a limited set of spaces						
4	Standard	ized set o	of learning	g technol	ogies		Technologies provide support for most						
4	in majori [.]	ty of spac	ces				pec	lagogies	in use in t	the majoi	rity of spa	ices	
	Provision	of comp	rehensive	e range o	f		Tec	hnologie	s fully ca	pable of s	upportin	g a	
5	standard	learning	technolog	gies in all			dive	erse rang	e of peda	agogies as	s needed	are	
	spaces	C C					ava	ilable in a	all spaces				
Overal	Overall rating 1 2				3	3		4		5			

Indicate where you believe you rate above.



P9.4. Synchronous hybrid learning involving face to face and online students is supported through a range of collaboration and interaction tools provided in learning spaces.

	Content collab	oration				Intera	ction betwo	een parti	cipants			
1	No provis	sion of co	llaboratio	n techno	ologies	N	lo provisior	n of intera	action teo	chnologie	S	
2	Limited p technolog		of collabo	ration		L	imited prov	vision of i	nteractio	n techno	logies	
3	Moderate technolog	-	on of colla	boration			/loderate pr echnologies		of interac	tion		
4	Substant technolog	•	ion of colla	aboratio	n		Substantial provision of interaction technologies					
5	Compreh technolog	-	ovision of	f collabo	ration		Comprehens echnologies		sion of ir	nteractior	1	
Overa	Overall rating 1 2					3		4		5		

Indicate where you believe you rate above.

Rationale and Evidence:

P9.5. Students have self-initiated access to a range of learning spaces equipped with technologies enabling independent learning individually and in groups.

	Self-initiated	access				Techn	ology affor	dances				
1	No indep	endent s	tudent ac	cess lear	ning	٦	o technolo	gy afford	ances in a	student a	ccess	
1	spaces p	rovided				s	paces to su	pport lea	rning			
2	Inadequa	ate amou	nt of inde	pendent		Inadequate technology affordances in stude						
2	student a	access lea	rning spa	ices prov	ided	a	ccess space	es to supp	oort learn	ning		
2	Moderat	e amount	of stude	nt access	;	ſ	1oderate te	echnology	/ affordar	nces in st	udent	
5	learning	spaces pr	ovided			access spaces to support learning						
4	A substa	ntial amo	unt of stu	ident acc	ess	Substantial technology affordances in stude						
4	learning	spaces pr	ovided			access spaces to support learning						
-	A compr	ehensive	amount c	of studen ⁻	t	0	omprehens	sive techi	nology af	fordances	s in	
5	access learning spaces provided					s	tudent acce	ess space	s to supp	ort learni	ng	
Overa	Overall rating 1 2					3		4		5		

Indicate where you believe you rate above.

Rationale and Evidence:

P9.6. Good practice examples are provided on the pedagogically effective use of learning space technologies.

1	No good	practice (examples	are prov	ided								
2	Limited g	Limited good practice examples are provided											
3	Moderat	Moderate good practice examples are provided											
4	Substant	ial good p	oractice e	xamples	are provi	ded							
5	Extensive	e good pr	actice exa	amples ar	e provid	ed							
Overa	ll rating	ating 1 2 3 4 5											

Indicate where you believe you rate above.



P9.7. The pedagogical appropriateness of the technologies used in learning spaces is regularly evaluated from student, teacher, and support perspectives, to inform improvements.

Student			Teacher					Support							
1	Not evaluate	aluated			ot evaluate	ed		Not evaluated							
2	irregularly, a	Limited evaluation occurs, irregularly, addressing only a small number of aspects			Limited evaluation occurs, irregularly, addressing only a small number of aspects					Limited evaluation occurs, irregularly, addressing only a small number of aspects					
3	addressing o	Evaluated regularly but addressing only a small number of aspects			Evaluated regularly but addressing only a small number of aspects					Evaluated regularly but addressing only a small number of aspects					
4	range of asp	Evaluated regularly across a range of aspects addressing a subset of pedagogies			Evaluated regularly across a range of aspects addressing a subset of pedagogies					Evaluated regularly across a range of aspects addressing a subset of pedagogies					
5	Evaluated frequently and across a full range of different pedagogies			ac	Evaluated frequently and across a full range of different pedagogies				Evaluated frequently and across a full range of different pedagogies						
Ove	Overall rating 1			2		3		4			5				

Indicate where you believe you rate above.

Rationale and Evidence:

P9.8. Resources are allocated for the ongoing support and maintenance of the learning space technologies.

Note: This Performance indicator can also be linked to Benchmark 5 and 6

- Support: Can refer to both the user and technology support, either proactive or re-active
- Maintenance: Refers to the ongoing checking, replacing and updating of technologies

	Support							Maintenance							
1	No resou	No resources allocated						No resources allocated							
2	Inadequa	Inadequate resources allocated					Inadequate resources allocated								
3		Moderate resources allocated, incomplete coverage of spaces					Moderate resources allocated, incomplete coverage of spaces								
4		Substantial resources allocated, majority of spaces						Substantial resources allocated, majority of spaces							
5	-	Comprehensive resources allocated across all spaces						mprehens Ices	sive resou	urces allo	cated acr	oss all			
Overal	l rating	1		2		:	3		4		5				

Indicate where you believe you rate above.



P9.9. Processes to collect data that inform continuous improvement in the different ways learning spaces enable and support learning exists.

Note: Processes can be both human driven or technological (automated)

	Systems for data collection							Processes of continuous improvement						
1	No systems and no data						No processes in place							
2	Some systems and limited data						Ad hoc processes in place							
3	Some systems and good data						Li	Limited processes in place						
4	Substantial systems and data						D	Defined processes in place						
5	Comprehensive systems and data						C	Comprehensive processes in place						
Overall rating			1		2		3		4		5			

Indicate where you believe you rate above.



This is where you would pull together all the threads and provide a suite of recommendations for your institution.

Consolidation table

Be	Benchmark 9: Student support for the use of technology enhanced learning				4	5
1.	The size and configuration of available learning spaces are aligned to the institution's learning and teaching strategy.					
2.	Learning spaces and the technologies within are accessible and inclusive.					
3.	Learning spaces have a comprehensive, sufficient, and consistent set of technology affordances supporting the range of pedagogies in use.					
4.	Synchronous hybrid learning involving face to face and online students is supported through a range of collaboration and interaction tools provided in learning spaces.					
5.	Students have self-initiated access to a range of learning spaces equipped with technologies enabling independent learning individually and in groups.					
6.	Good practice examples are provided on the pedagogically effective use of learning space technologies.					
7.	The pedagogical appropriateness of the technologies used in learning spaces is regularly evaluated from student, teacher, and support perspectives, to inform improvements.					
8.	Resources are allocated for the ongoing support and maintenance of the learning space technologies.					
9.	Processes to collect data that inform continuous improvement in the different ways learning spaces enable and support learning exists.					

Interinstitutional Benchmarking Activities

The purpose of the ACODE TEL Benchmarks has always been to support the continuous quality improvement of institutional practices around technology enhanced learning. The approach adopted by this ACODE Benchmarking tool reflects an enterprise perspective, integrating the key issue of pedagogy with institutional dimensions, such as planning, staff development and infrastructure provision. These benchmarks have been developed for use at either an enterprise level, or by an organisational unit, and may also be used for self-assessment, or as part of a broader collaborative benchmarking activity.

Where these benchmarks become most powerful is when they are used in association with other institutions, as part of a collaborative interinstitutional benchmarking exercise that ACODE facilitates every two years. This is where one or more institutions are willing to share their practices and journey in TEL with others, based on the outcomes of their own internal benchmarking activity. Over the last 10 years, 59 institutions across five countries have formally used the benchmarks in this way.

ACODE facilitates the Interinstitutional Benchmarking Summit in the June of every second year, with the next activity scheduled for June 2024, where this second edition will be used for the first time. To participate each institution will first undertake a self-assess of their capacity in TEL against the embedded performance indicators (PIs) that are part of the Benchmarks. They will confidentially share that self-assessment with all the other institutions involved.

As part of this commitment, each institution must participate in a minimum of two benchmarks, but many will do more, with some even doing all nine. During the Summit, each institution will take it in turns to briefly describe how they came to give themselves their rating. This, in many cases, generates lively discussion as to why one has given themselves a particular score, as this in many senses indicates what they see represents good practice. But more importantly, through this open sharing of practice, each institution is then able to make a judgement on the veracity of their own self-assessment.

Here in lies the essence of the Benchmarking activity; having the opportunity to engage in broad ranging discussion around the PIs allowing participants to form clear judgements as to the context of their own institutions practice, thereby allowing them to make qualitative determinations as to the accuracy of their self-assessment.

Ultimately, the following two comments typify the overall sentiment expressed by many of the participants at a Summit:

"Great opportunity to meet and share where everyone is at. The benchmarking exercise is a great self reflective practice that is reinforced through the feedback and deliberation from other institutions"

"I really enjoyed this Benchmarking Summit, I have learned a lot from the inter-institutional activity and will definitely be sharing and pushing for these benchmarks to be accepted at our institution. Thank you for facilitating this and look forward to the institution following up with the benchmarks in the future."

The ACODE Executive therefore invite you to be involved in a future ACODE Interinstitutional Benchmarking Summit and will alert member institutions well in advance as to the dates these will be held. ACODE are also keen for others, outside ACODE to make use of this tool, and we stand ready to provide whatever information you might need to make the most of this instrument.

If you would like to know more, please email the ACODE Executive Officer on <u>secretariate@acode.edu.au</u>

We wish you all the best with the use of this instrument.