

# TECHNOLOGY ENHANCED LEARNING STRATEGY



Prepared by Siobhán McCarra Technology Enhanced Learning Officer

# TABLE OF CONTENTS



- 02 INTRODUCTION
- 03 BACKGROUND
- 04 VISION
- 04 OBJECTIVES
- 05 STRATEGY AIM
- 06 STRATEGY THEMES
- 11 GOALS AND ACTIONS
- 16 INDICATORS OF SUCCESS
- 17 IMPLEMENTATION
- 18 GLOSSARY OF TERMS





### INTRODUCTION

This document specifies Cavan and Monaghan Education and Training Board strategy for the implementation of Technology Enhanced Learning in all FET teaching and learning practices. This strategy is intended to support CMETB in developing flexible learning opportunities and provide access to Further Education and Training for all learners. It aims to build a shared vision that will inspire staff and students in the use of technology for learning, teaching and assessment and promote a positive change in CMETB.

"It is anticipated that the impacts of current and future technological advances on our working lives will be stark, with significantly increased use of Automation, Smart Technology, Artificial Intelligence, Big Data, Augmented Reality and Virtual Reality." (Solas, Future Ready Learning, The Further Education and Training Strategy 2020-2024 (Draft), 2019)

DESI recorded in 2018 that 52% of Ireland's population did not have the basic digital skills, which poses challenges for individuals, society and the economy.

There has been a focus in recent years across FET to build capability in technology enhanced learning and it can be expected that future FET will be delivered using more blended and online approaches. (Solas, Future Ready Learning, The Further Education and Training Strategy 2020-2024 (Draft), 2019)

### BACKGROUND

Technology Enhanced Learning is learning that is enhanced, supported or assessed using educational technologies. In recent times, Technology Enhanced Learning (TEL) has taken the place of other recently popular terminologies such as e-learning, computer-based learning, learning technology and information and communication technology (ICT).

Technology can be used to enhance learning on initial engagement, as part of course delivery and assessment, and in supporting career progression. Learners may access technology in all course areas and models of provision, including in-class, full or part-time provision, blended learning and exclusively online learning. The figure below represents how technology can enhance each area of provision:



Pedagogically, digital learning can be highly motivating, engaging and rewarding for learners and particularly learners who find the more traditional teaching methodologies challenging and constraining.

A blended learning approach to education that incorporates the best practices of traditional teaching and learning with technology has been shown to increase student engagement and learning outcomes.

### VISION

Our vision in CMETB centres on a balanced approach, ensuring digital technologies are integrated into lessons, where appropriate, and used to enhance the learners learning experience.

We also strive to ensure our learners develop an appreciation of digital technologies and the role technology can play in society. Learners will leave CMETB as confident, creative and innovative users of technology.

### **OBJECTIVES**

- Foster a culture in CMETB that fully embraces digital learning and its contributing factor in education.
- Digital platforms, resources and tools are utilised to enhance teaching, learning and assessment.
- Digital tools are utilised to connect and communicate with current learners and prospective students.
- Digital literacy and digital skills of both teachers and learners are supported and developed.
- Teachers will be fully enabled to use digital technology and resources, where appropriate, to enhance student learning.
- Ensure technology is considered in all areas of curriculum development and delivery.
- Document and share good practice and expertise.

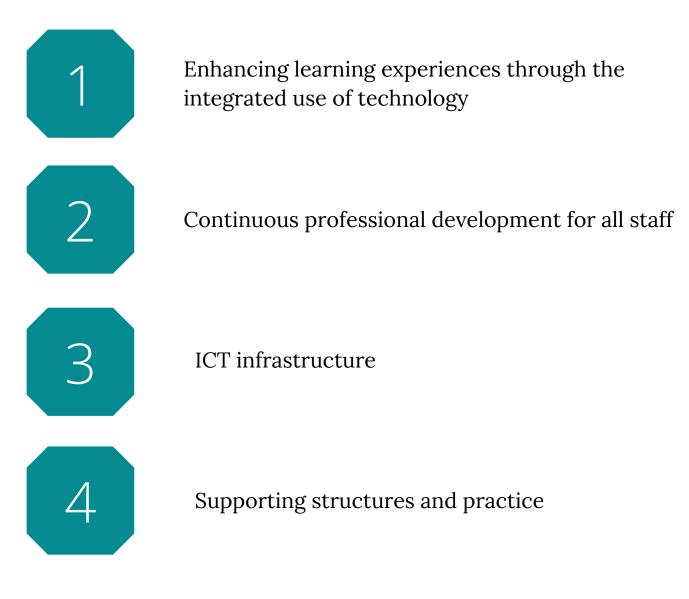


### STRATEGY AIM



The aim of this strategy is to **enhance** learning, teaching and assessment through the use of technology. 05

### **STRATEGY THEMES**





## THEME 1: ENHANCING LEARNING EXPERIENCES THROUGH THE INTEGRATED USE OF TECHNOLOGY

**Aim:** Further enhance the use of technology in teaching, learning and assessment.

### Features:

- Technology will be integrated into all areas of teaching, learning and assessment, where appropriate. These activities will be aligned with best practice to enhance the student learning experience.
- Content will be easily accessible to all students.
- Assignments will be published online, and the aim will be that students will submit assignments online and receive feedback in digital format in the future.
- We aim to exploit technology so that education can be availed of anywhere at any time.

- Improved student experience
- Improved access to resources
- Access to a broader range of students
- Offer more curriculum

### THEME 2: CONTINUOUS PROFESSIONAL DEVELOPMENT FOR ALL STAFF

**Aim:** Create a positive learning experience for our staff which will increase engagement and implementation of technology.

### **Features:**

- A detailed continuous professional development plan will be prepared for all staff.
- New staff will be supported through a comprehensive induction programme on the use of technologies in the classroom within CMETB.
- Offer a range of workshops covering a range of topics and technologies.
- Develop and deliver online training opportunities that staff can easily access as and when needed.
- Build on current support and further embed the role of the TEL Champions.
- Encourage collaboration and team skill sharing.

- Staff are confident using digital technologies.
- Staff have access to training relevant to their teaching area.

### **THEME 3: ICT INFRASTRUCTURE**

**Aim:** Provide access to relevant equipment and tools to enable the effective use of technology in the classroom.

### Features:

- All efforts will be made to ensure all equipment and infrastructure will be relevant and kept up to date.
- Procedures will be put in place to ensure our
- IT environment can support blended learning and technology-enhanced learning.
- We will fully support the use of Office 365 as the core tool for productivity and storage.
- Utilise data analytics to improve operational efficiency.

- Maintain up to date ICT Infrastructure
- Improved systems through better data and analysis
- Reduce administration tasks

### THEME 4: SUPPORTING STRUCTURES AND PRACTICE

**Aim:** Ensure the effective delivery of technology enhanced learning is supported by relevant supporting structures and practices.

### Features:

- Relevant structures and processes will be put in place to ensure the effective implementation of technology supported learning.
- A robust set of guidelines will be developed that are capable of informing and supporting the selection, procurement, implementation and adoption of suitable technologies and educational resources.
- Adequate funding will be secured to support the plans of CMETB Technology Enhanced Learning Strategy.

- Maximise the use of technology in CMETB.
- All staff are supported and encouraged to use technology.
- Broadens access to CMETB programmes.

Enhancing learning experiences through the integrated use of technology

Aim: Further enhance the use of technology in teaching, learning andassessment.

Goal	Success Criteria	Actions - what needs to be done	<b>Resources and Funding</b>	Responsibility and Timeframe
Develop guidelines and review process or the selection, development and adoption of Open Educational Resources (OER) and other third-party material, taking into consideration copyright and creative commons regulations.	Staff when selecting OER and other third-party material will have the awareness of copyright legislation and creative commons regulations to limit the risk to CMETB.	Guidelines will be produced for the selection, development and adoption of Open Educational Resources (OER) and other third- party material	Online guidelines for staff to access as and when needed	TEL Coordinator Feb 2020 Adhered to by all staff
Support the traditional face-to-face lassroom delivery through the ontinued and extended usage of ducational digital echnologies.	Build on current capacity and further enhance the digital experience for both staff and students.	More support required to introduce technology to areas in Youthreach and Adult Education. Training for all staff across CMETB on Moodle/Microsoft Teams and other digital technologies.	Support training put in place with training materials and resources accessible to all.	TEL Coordinator TEL Champions/Digital Leaders Dec 2020
ntroduce more online tools to the classroom, to include, e-portfolios, online assessment and feedback, ecture capture tools, augmented and virtual reality.	Increased use of digital tools across all FET provision. Explore the area of augmented and virtual reality for curriculum areas such as tourism, electrical and motor vehicle.	Research current digital tools that are not currently being used in CMETB and analyse their benefit Explore and research the use of AR and VR in education. Maximise the impact of assessment by identifying tools and processes that support effective feedback e.g.: e-portfolios – capturing evidence of achievement and practice, online badging, online marking systems	Procure AR and VR equipment. Research, select and procure an effective e-portfolio system.	TEL Coordinator/IT/Curriculum Staff June 2021
Develop a suite of online resources and information that staff can easily access to support their use of TEL.	Build a bank of online resources that can be used by many curriculum areas.	Develop and create online resources for staff across FET that can be used in many different subject areas.	Procure eLearning course development software.	TEL Coordinator/Curriculum Staff June 2021

Continuous professional development for all staff.

Aim: Create a positive experience for our staff which will increase engagement and implementation of technology.

<b>Goal</b> Conduct a skills audit of relevant tutoring staff in relation to TEL and implement CPD programmes where appropriate.	Success Criteria Staff have the relevant digital skills to embed digital technologies into their teaching.	Actions - what needs to be done Regular reviews of teaching staff digital skills set and suggest areas for training and development.	<b>Resources and Funding</b> Ongoing training External trainers when required	<b>Responsibility and</b> <b>Timeframe</b> TEL Coordinator Ongoing
Review the usage of existing TEL rechnologies in each centre and put in place relevant CPD programmes, where appropriate.	Have the most up to date TEL technologies in each centre so our students receive the best experience while attending CMETB.	Regular reviews of TEL technologies utilised in each centre. Develop relevant CPD programmes based on available technologies.		TEL Coordinator/Centre Managers Ongoing
Establish a team of TEL leaders to promote and foster a culture of TEL amongst tutors and learners.	Fully embed the role of TEL Champions	Further enhance the skills of TEL Champions so they can pass knowledge on to other staff. Include TEL Champions in CPD Workshops as facilitators e.g.: FET Meet	Further training required	TEL Coordinator/TEL Champions Dec 2020
Develop a centralised calendar of nternal and externally related training opportunities in conjunction with CMETB's CPD Strategy and Plan.	Integrated TEL/CPD calendar of events	Agree and schedule a range of TEL CPD events throughout the year in conjunction with CPD Coordinator	Internal and external training opportunities	TEL Coordinator/CPD Coordinator Ongoing
Develop a framework process for the dissemination and sharing of good practices.	Good practice is actively shared among curriculum teams and across FET services	Develop and disseminate a framework for the sharing of good practice. Make this widely available to all staff. Recognise/incentivise good practice each year.	Yearly incentive for best use of technology in CMETB FET Services	TEL Coordinator/FET Director/Centre Managers March 2020
Implement a system for recording, monitoring and evaluating learning experience in TEL CPD opportunities.	All staff development in the area of TEL is recorded and monitored. Each training session/workshop will be evaluated.	Develop a recording and monitoring system for the delivery of TEL CPD opportunities.	Recording system. Evaluation form for training created (MS Form).	TEL Coordinator Jan 2020

Continuous professional development for all staff.

Aim: Create a positive experience for our staff which will increase engagement and implementation of technology.

	Caraceae Cariberia	
Goal	Success Criteria	<b>Actions</b> - what needs to be do
TEL support will include workshops, information sessions and seminars that will be delivered according to the specific needs identified by specific FET Services.	Staff will have access to a range of workshops, information sessions and seminars on an ongoing basis.	A range of workshops, information sessions and seminars to be agreed that meets the specific needs of FET Services
Develop and deliver online training opportunities which can be accessed by staff as and when needed.	Staff will be able to access a range of online training materials as when and needed.	Develop and create a bank of online training opportunities for staff, where appropriate.

be done	<b>Resources and Funding</b>	<b>Responsibility and</b> <b>Timeframe</b> TEL Coordinator/TEL
ets the		Champions Ongoing
e training opriate.	eLearning software	TEL Coordinator/IT/CPD Coordinator
	Managed hosted solution for the	
	handling of online courses	Continuous/Ongoing

### ICT Infrastructure

Aim: Provide access to relevant equipment and tools to enable the effective use of technology in the classroom.

technology in each centre to ensure required te	chnology to offer sugge	larly review existing TEL technology and ests areas for ovement/enhancement.		<b>Timeframe</b> TEL Coordinator/IT/Centre Managers Continuous/Ongoing
		lop a framework for measuring effective e of TEL tools/technology.	Analytical software	TEL Coordinator/IT March 2020
Develop a framework for the selection, purchasing and support of TEL tools/technologies.			Framework for purchase of TEL tools/technologies	TEL Coordinator April 2020
	ing all online deve	tinuously monitor and evaluate elopments in IT in relation to TEL vities in the classroom.		TEL Coordinator/IT Continuous/Ongoing

### Organisational Structures and Practices

Aim: Ensure the effective delivery is supported by relevant organisational structure and practice

Goal	Success Criteria	Actions - what needs to be
Develop and support a culture of innovation and experimentation with TEL use in each FET centre.	TEL is encouraged by all Senior Managers in CMETB. A culture of TEL is successfully embedded in CMETB.	Supports and encouragement from all Managers.
Incentivise and celebrate new initiatives around the use of technology to enhance and enrich learning and teaching.	Exceptional uses of TEL will be celebrated and incentivised.	Determine what 'exceptional' usage of T is. Put in place a recognition scheme for § practice.
Secure adequate funding to support TEL activities	Funding will be available for the successful implementation of TEL	Secure funding for TEL tools and techn
Implement a systematic approach to how new technologies are selected, procured, implemented, evaluated and monitored.	TEL tools and technologies will be selected, procured, implemented, evaluated and monitored.	Develop a systematic approach to the selection, procurement, implementatio evaluation and monitoring of TEL tools technologies.

be done all Senior	Resources and Funding	<b>Responsibility and</b> <b>Timeframe</b> Senior Management Continuous/Ongoing
of TEL	Recognition scheme	Management/TEL Coordinator
echnologies	Budget	Management/TEL Coordinator
the ation, ools and		Management/TEL Coordinator

15

### **INDICATORS OF SUCCESS**



- Technology enhanced learning, and blended learning become an integral part of all programmes in FET.
- Staff are confident using technology in the classroom and can reflect on positive experiences using technology.
- Evidence of good practice is shared among FET services.
- Students enhance their digital skills and have the confidence to use technology in the work environment.
- Technology is considered in all new curriculum development and design.

### **IMPLEMENTATION**

The TEL Coordinator will drive forward the implementation of this strategy. The goals and actions will be reviewed on a regular basis and this will be used to inform management on progress of the implementation of this strategy.

A key component of this strategy is that all FET Services will benefit from the goals and actions outlined above and all activities are built on the following values:

Purpose: enhance teaching and learning experiences and activities in meaningful, innovative and engaging ways.
Need: understand the needs, problems and potential solutions in learning and teaching.
Enhance: embedding effective TEL into all aspects of teaching and learning to enhance the learner experience.
Communicate: good practice is recognised and valued.



### **GLOSSARY OF TERMS**

**TEL** – Technology Enhanced Learning

Automation – use of automatic equipment.

Smart technology – adoptive technology, wearable technology, wireless technology, etc.

AI – artificial intelligence – machine learning.

Big Data – large amounts of data that can be with technology.

**Augmented Reality** - an artificial environment created through the combination of real-world and computer-generated data.

Virtual Reality – an environment created by technology.

**DESI** – Digital Economy and Society Index.

**Blended Learning** – mix of traditional face-to-face teaching methods and technology.

**Online Learning** – all learning completed online with the use of technology.



### cmetb

Bord Oideachais agus Oiliúna an Chabháin agus Mhuineacháin Cavan and Monaghan Education and Training Board