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# TECHNOLOGY DEVELOPMENTS ACROSS THE UK HIGHER EDUCATION SECTOR: REFLECTIONS ON RECENT UCISA RESEARCH

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# UCISA ACADEMIC SUPPORT GROUP

## UCISA Technology Enhanced Learning (TEL) Survey

- National survey, undertaken by UCISA, into matters relating to Technology Enhanced Learning in UK Higher Education (HE).
- Questionnaire sent to all HE institutions across the UK
- Surveys conducted in 2001, 2003, 2005, 2008, 2010 and 2012. At each stage a longitudinal analysis was undertaken.
- 2014 survey launched in January 2014, report due September 2014
- In 2010 and 2012, survey was accompanied by a series of case studies.
- View survey and case studies reports at: [www.ucisa.ac.uk/tel](http://www.ucisa.ac.uk/tel)

## UCISA good practice case studies

- Effective use of mobile technologies (2014): [www.ucisa.ac.uk/publications/effective\\_use.aspx](http://www.ucisa.ac.uk/publications/effective_use.aspx)



# DEVELOPMENTS OVER THE PAST DECADE (2003-2013)

## Capacity building (2003-2008)

- HEFCE Teaching Quality Enhancement Fund
- Pump-priming supported investment in centrally managed TEL services
- Initial investment in Virtual Learning Environments and consideration of Managed Learning Environments

## Consolidation of TEL services (2008-2012)

- Higher Education Academy benchmarking activities
- Reflection of e-learning investment and strategic priorities
- Consolidation of existing services, e.g. VLE, assessment tools (e-submission, plagiarism detection)

## Disruption and renewal? (2012- )

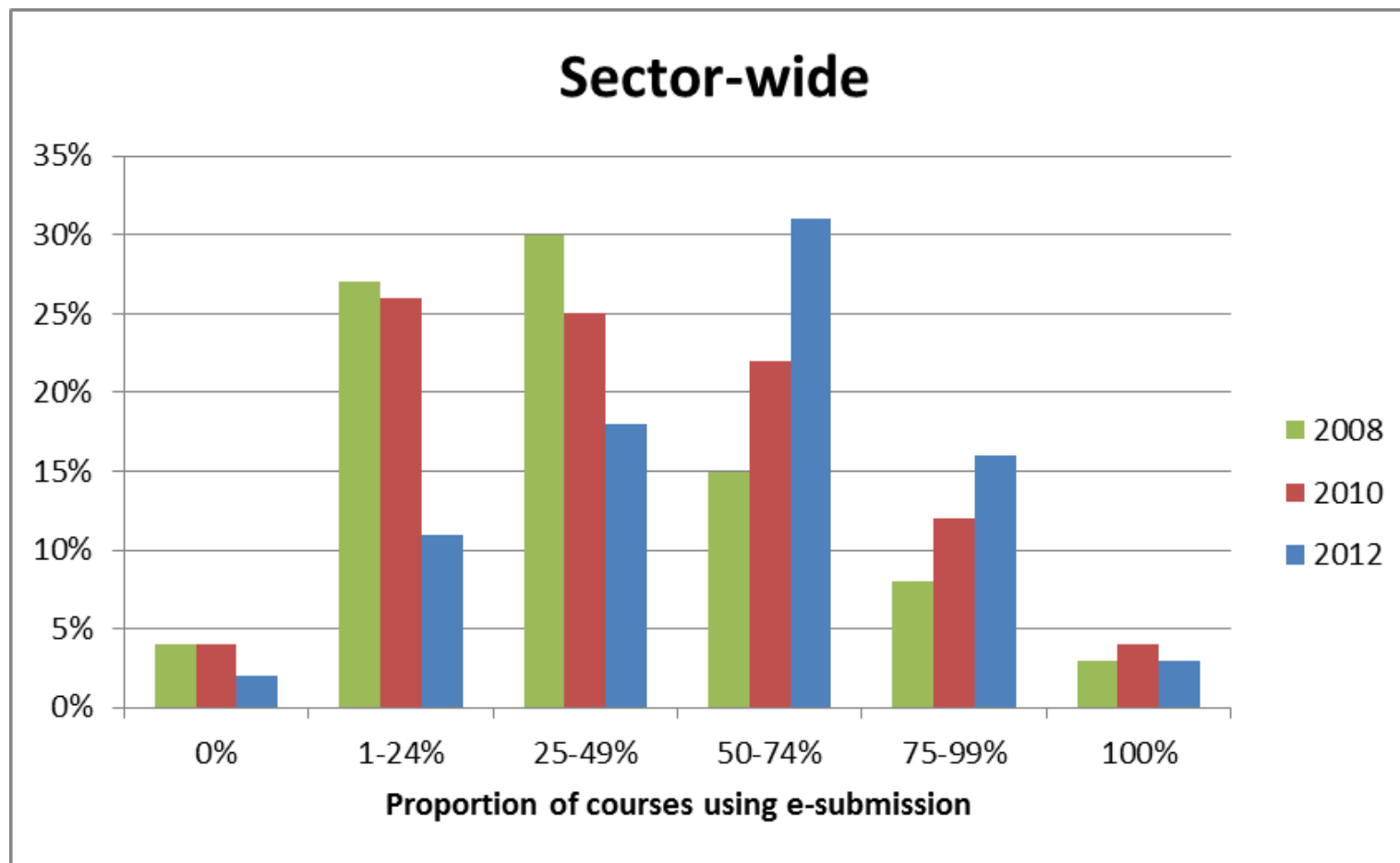
- MOOCs - Increased interest in online provision and outreach
- Flipped classroom
- Mobile technologies
- Increasing demand from students

# INSTITUTIONAL PROVISION OF TEL TOOLS

Tool	2008	2010	2012
VLE	96%	-	100%
Other tools:			
Plagiarism detection	-	92%	92%
E-submission	-	89%	87%
E-assessment	77%	80%	79%
E-portfolio	64%	72%	76%
Wiki	72%	75%	74%
Blog	68%	74%	72%
Podcasting	69%	69%	62%

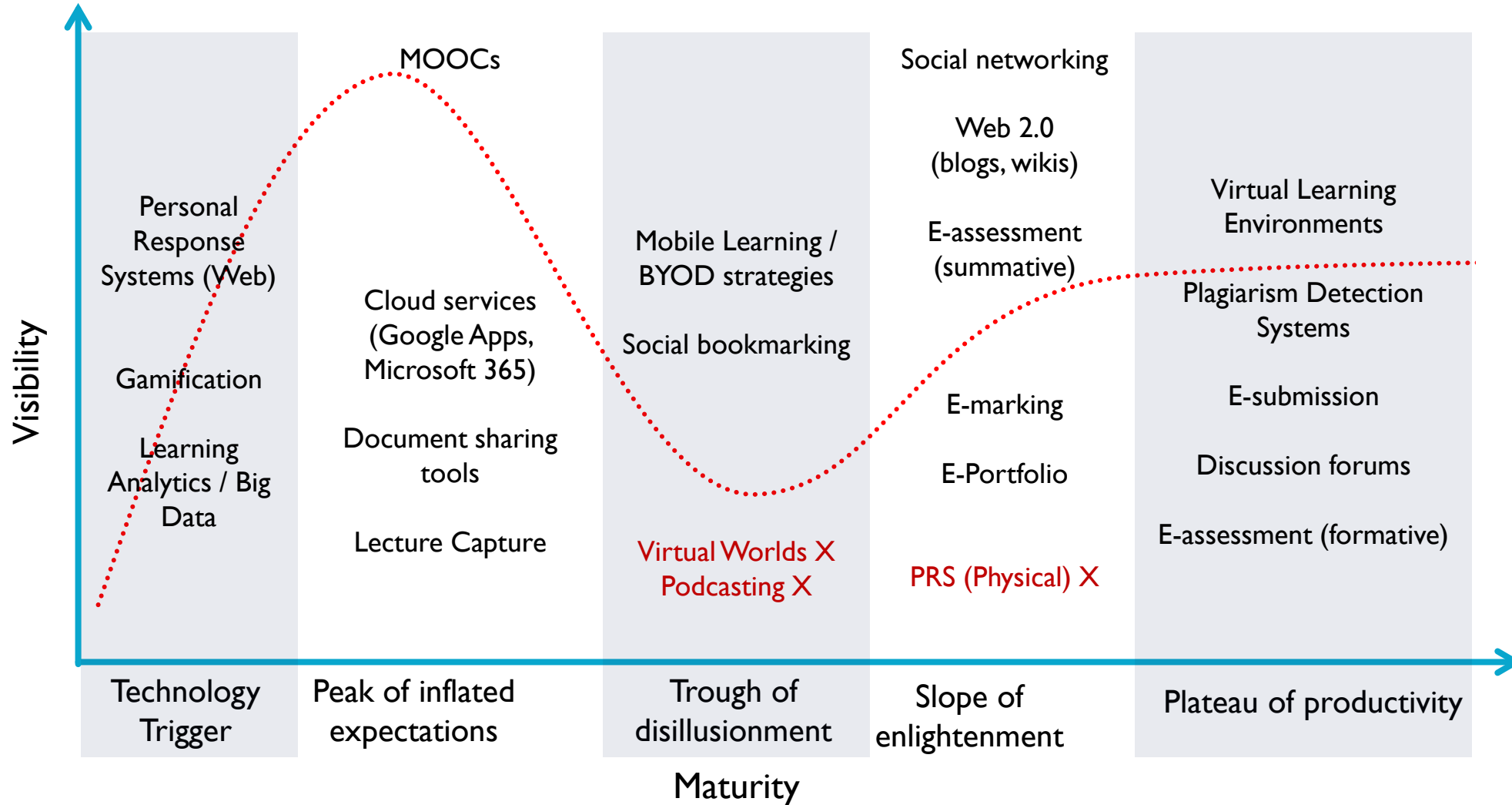
Source: UCISA 2012 TEL survey

# ADOPTION OF E-SUBMISSION TOOLS IN COURSE DELIVERY



Source: Walker, Voce and Jenkins (2013)

# UK HIGHER EDUCATION TEL HYPE CYCLE



# CURRENT AND FUTURE CHALLENGES

- Key challenges:
  - Mobile technologies
  - Bring your own device (BYOD) and services (BYOS)

**Software tools used by students which are not centrally-supported.**

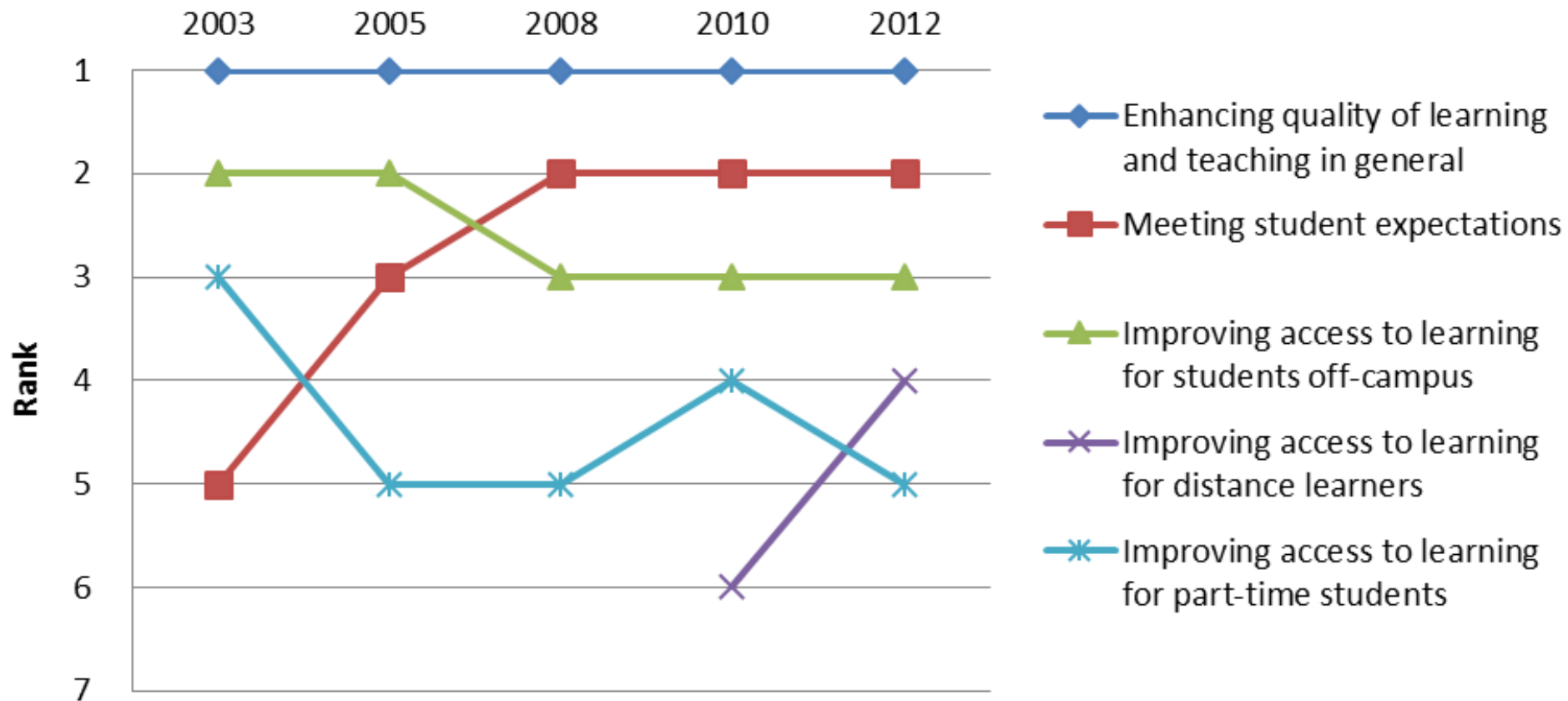
Tool	2008	2010	2012
Social networking	-	81%	73%
Blog	46%	59%	60%
Document sharing tool	-	-	52%
Social bookmarking	30%	48%	40%
Wiki	34%	51%	36%

Source: UCISA 2012 TEL survey



# INCREASING FOCUS ON STUDENTS

## Top five driving factors for TEL development (rankings)





# STUDENT EXPECTATIONS



## Expectation that technology will:

- Enable more flexible learning (National Union of Students, 2010)
- Offer better administration, resource provision and support for independent learning and
- Be applied where relevant, but will not undermine contact time on campus (Bone, 2013)

## Expectation of students as partners, not consumers. Active involvement in

- Scoping and planning TEL developments
- Co-creation - curriculum design (Wenstone, 2013)

# CHANGING BUSINESS MODELS AND STRATEGIC FOCUSES

2012:

- UK introduction of £9,000 fees
- only 3% of courses fully online
- MOOC revolution
  - Launch of initiatives such as Udacity, edX Coursera and FutureLearn
  - Concerns about MOOC business models
  - Sparked interest in online education – accelerator for pedagogic innovation on campus?
  - Now considering benefits of MOOCs for on-campus students



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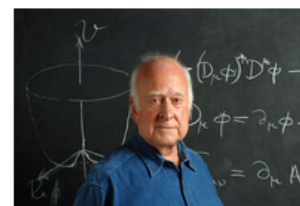


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# NEW APPROACHES TO SERVICE MANAGEMENT

- Outsourcing of TEL support and provision not well established
- But growing uptake of cloud services such as Google Apps for Education and Microsoft 365

## Outsourced support

- Top 3:
  1. Student email (67%)
  2. VLE (36%)
  3. Staff email (33%)

## Outsourced provision

- Top 3:
  1. Student Email (66%)
  2. VLE (28%)
  3. Staff Email (19%)

## LOOKING TO THE FUTURE

- Students as partners in curriculum design and adoption of TEL provision (Wenstone, 2013; Jisc, 2014)
- Embedding of mobile technologies in the curriculum (UCISA, 2014)
- Increased flexible, online provision – taught postgraduate and CPD.
- Transfer of MOOC inspired pedagogies filtering down to on-campus teaching (Yuan, Powell and Olivier, 2014) - e.g. techniques for supporting large cohorts.
- Greater use of learning analytics

# FURTHER READING

- More detail in the related conference paper:  
Walker, R. and Voce, J. (2014) **Technology developments across the UK HE sector: reflections on recent UCISA research**

## References

- Bone, E. (2013). *Improving learning experiences: Student attitudes towards the use of technology*. NUS research study sponsored by Desire2Learn. Insights Roadshow, 16 December 2013. Manchester Metropolitan University, United Kingdom.
- Jisc (2014). Summer of Student Innovation. <http://www.jisc.ac.uk/student-innovation>
- Yuan, I., Powell, S., & Olivier, B. (2014). Beyond MOOCs: Sustainable Online Learning in Institutions. CETIS white paper. Retrieved from: <http://publications.cetis.ac.uk/2014/898>
- UCISA (2014). *Good Practice Guide. Mobile Learning: How mobile technologies can enhance the learning experience*. Universities and Colleges Information Systems Association: Oxford, UK. Retrieved from: [http://www.ucisa.ac.uk/bestpractice/Copy\\_of\\_publications/effective\\_use.aspx](http://www.ucisa.ac.uk/bestpractice/Copy_of_publications/effective_use.aspx)
- Walker, R., Voce, J. & Jenkins, M. (2013). Charting the development of technology enhanced learning developments across the UK HE sector: a longitudinal perspective (2001 - 2012). *Interactive Learning Environments*. Routledge: London. <http://www.tandfonline.com/doi/full/10.1080/10494820.2013.867888>
- Wenstone, R (2013). 'It's all about the learner', Keynote speech at ALT-C 2013, Nottingham, UK. 10-12 September 2013. <http://www.youtube.com/watch?v=cjINstTYw9U>