



ORGANISATION FOR ECONOMIC  
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# E-learning in tertiary education: what difference for the future of learning?

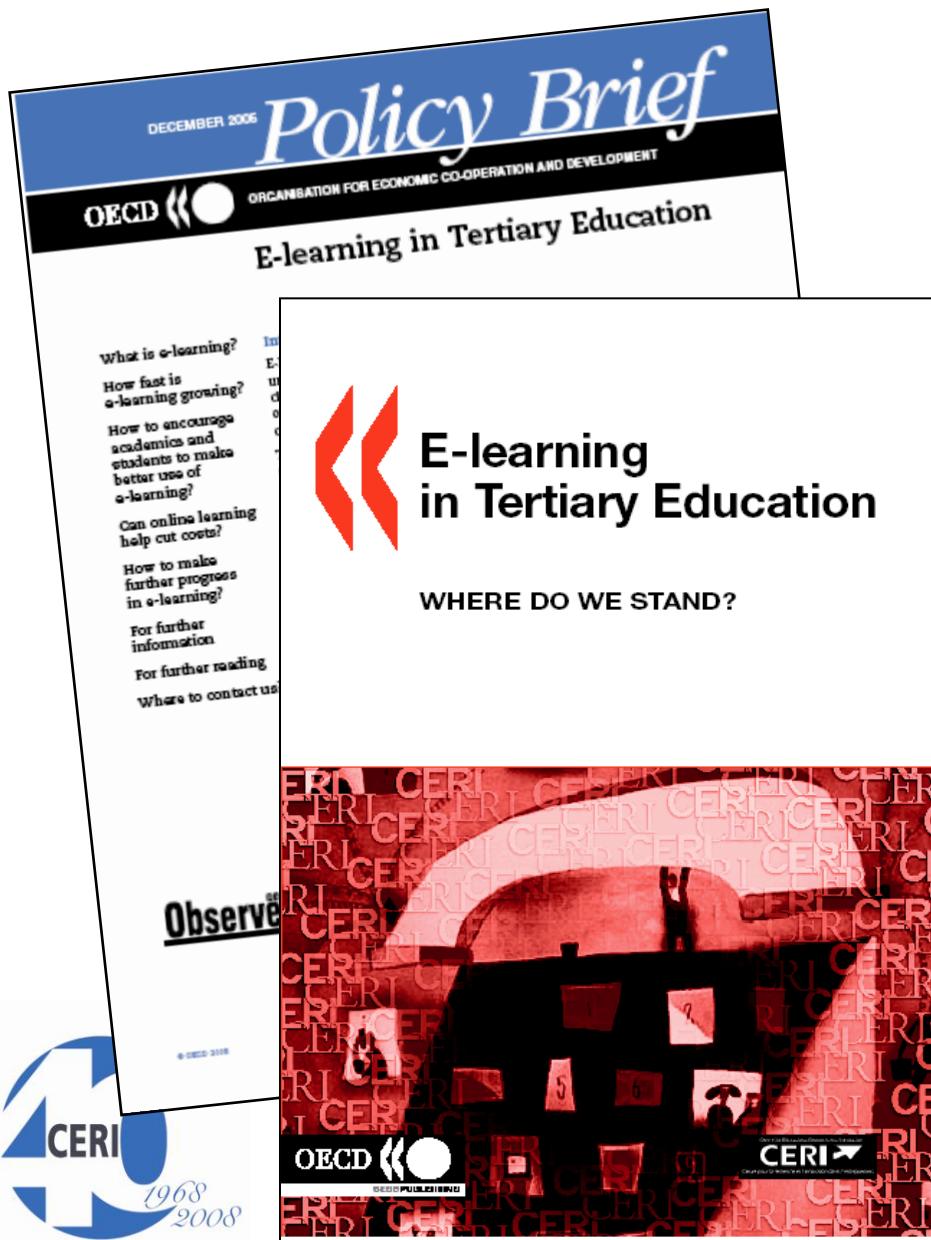
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# Outline

- Some findings of the 2005 E-learning study
- What have we learnt meanwhile?
- What does e-learning change for learning?

# Related CERI publications



Forthcoming (2008):

*Higher Education 2030*  
Vol. 2: Technology

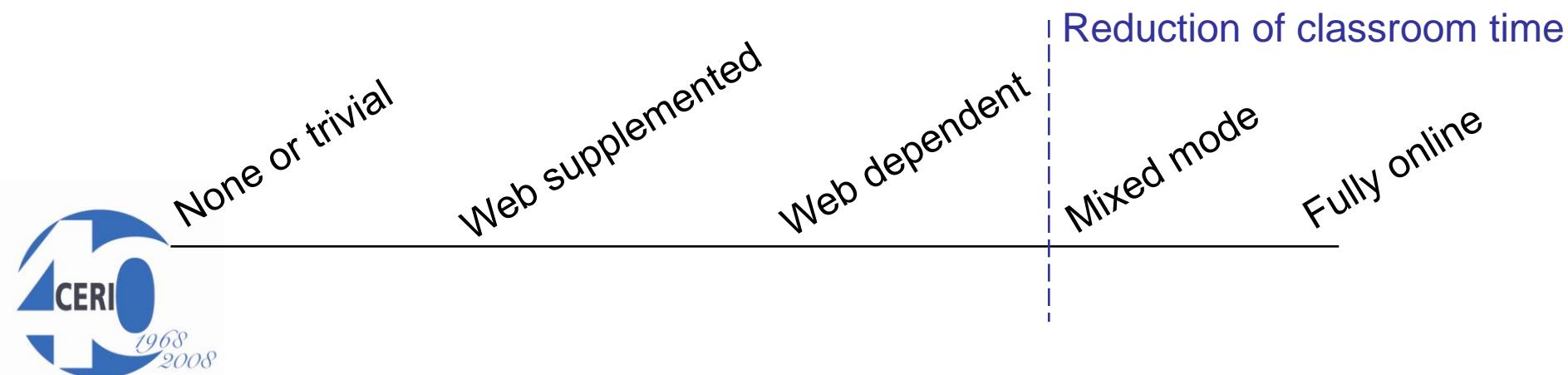
1. Cyber-infrastructures
2. E-learning
3. OER
4. Gaming
5. New Millennium Learners

## Some of the questions of the E-learning study

- What is e-learning?
- How fast is e-learning growing?
- How to encourage academics and students to make better use of e-learning?
- Can online learning help cut costs?
- How to make further progress in e-learning?

# What is e-learning?

- E-learning refers to the use of information and communications technology (ICT), notably online learning, to enhance and/or support learning in tertiary education
- Activities ranging from the most basic use of ICT through to more advanced adoption, reducing or simply supplementing time spent in the physical classroom:

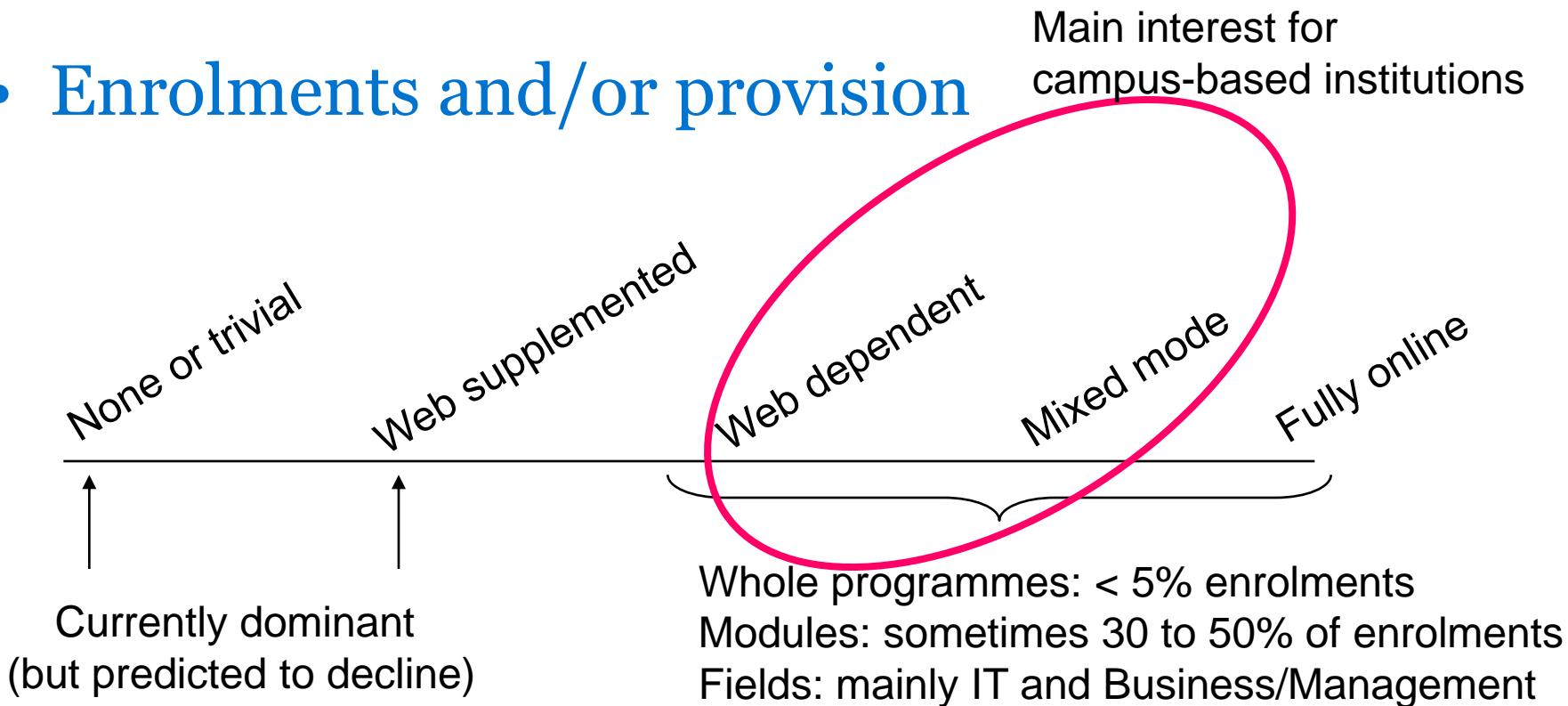


# How fast is e-learning growing?

- Key message: e-learning is growing, slowly but surely, mainly outside the classroom, as an add-on to face-to-face teaching and learning
- Evidence:
  - Reports on enrolments and/or provision
  - Reports of institutional strategies
  - Reports on software adoption (Learning Management Systems – LMS)

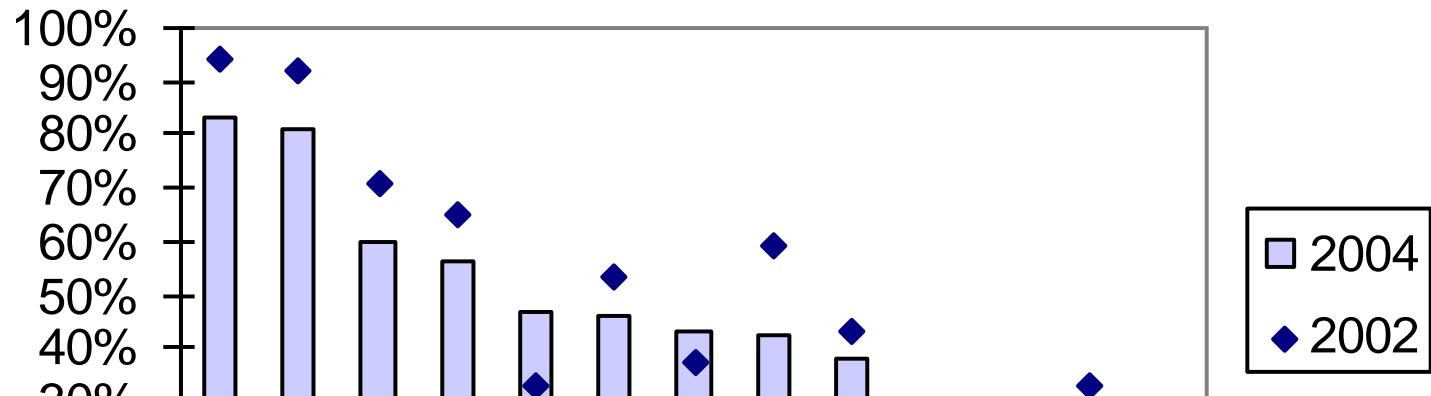
# How fast is e-learning growing?

- Enrolments and/or provision



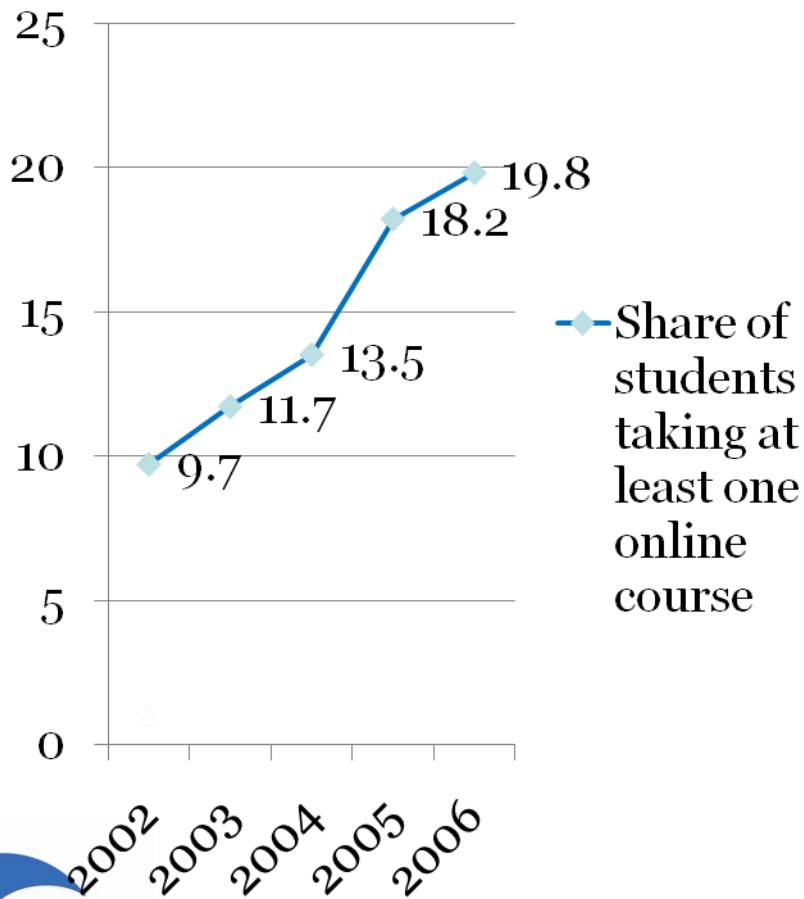
# How fast is e-learning growing?

- 91% of OBHE respondents had or were developing an institution-wide online learning strategy in 2004 (up from 82% in 2002), with the following key rationales:

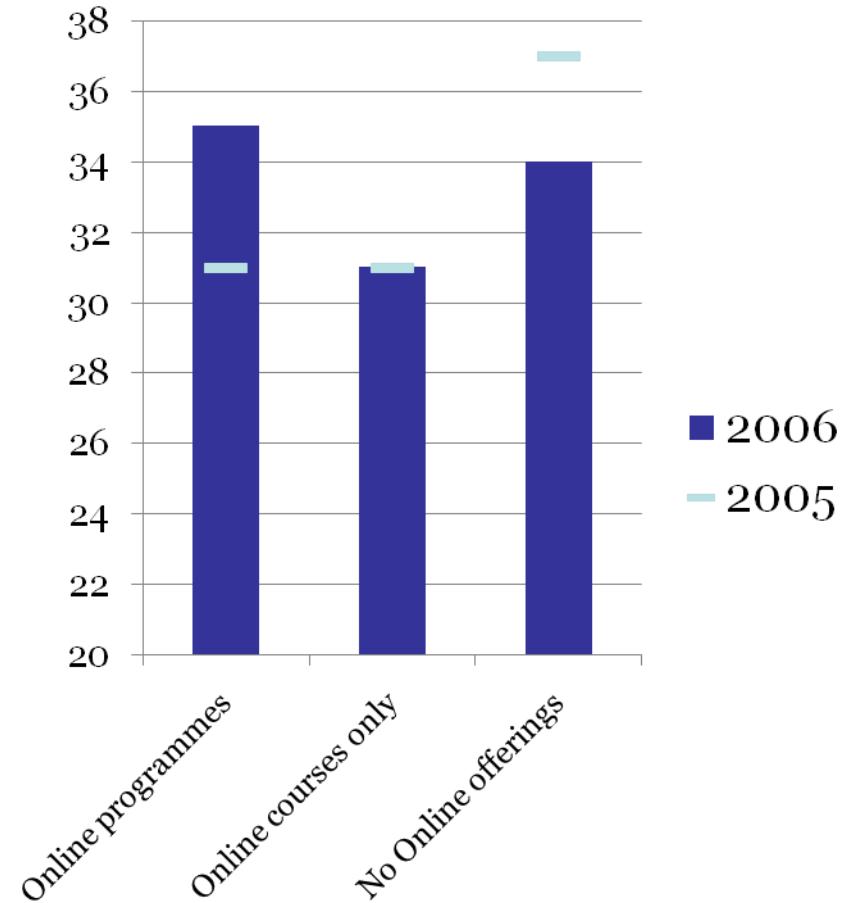


Source: OBHE

# Enrolments in and offerings of online education in the US



◆ Share of students taking at least one online course



Source: Sloan Consortium

# Online courses and Learning objects

- Learning objects = model of materials development that manipulates and combines/recombines discrete « chunks » of material designed to be re-used and repurposed for different needs
- Openly accessible examples of good practice:
  - Carnegie Mellon's Open Learning Initiative ([www.cmu.edu/oli](http://www.cmu.edu/oli)): online courses and course materials, including specific techniques like StatTutor (intelligent tutoring system)



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# What difference does it make for student learning?

