

**Ministeriet for Videnskab
Teknologi og Udvikling**

**IKT-støttet læring
på universiteterne
København 27 februar 2008**

**New technology and
market positioning: the
challenge for universities**

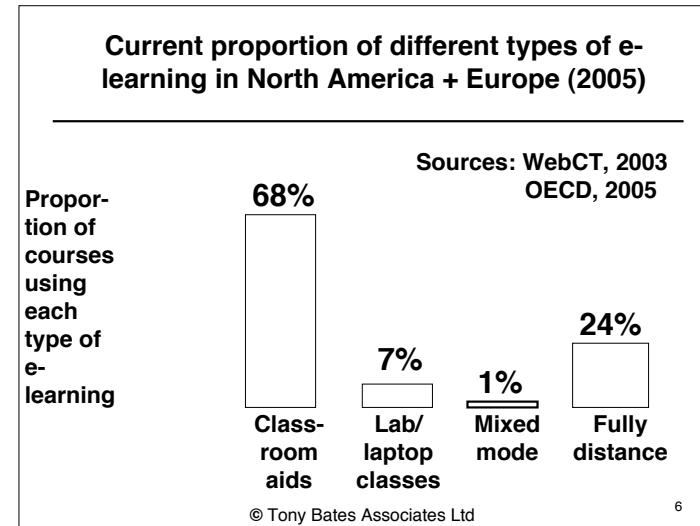
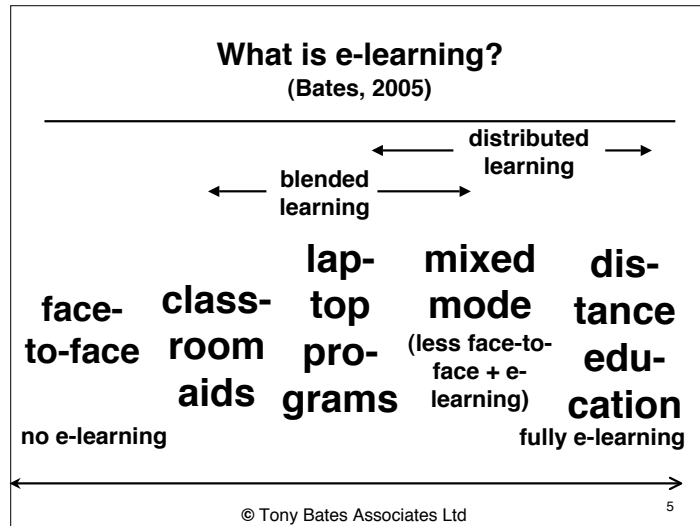
Overview

- 1. Introduction**
- 2. What is e-learning?**
- 3. Why use ICTs for teaching/learning?**
- 4. Meeting the needs of the workforce**
- 5. New business models for HE**
- 6. Conclusions**

1. Defining e-learning

What is e-learning?

**My definition:
all computer and
Internet-based
activities that support
teaching and learning
- both on-campus and
at a distance**



Making choices

For any program:

- Where on the continuum of e-learning should this program be?
- Should this continuum reflect course sections or students?
- Who should make this decision?

To answer these questions, we must look at the reasons for e-learning

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2. Why use ICTs in higher education?

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Why use ICTs in higher education?

1. Access/distance
2. Access/flexibility
3. Quality
4. Productivity
5. Market positioning

Access: distance

Not strong rationale for Denmark except:

- specialized subjects not available locally
- poor quality of local provision
e.g. distributed learning in B.C. school system

Access: flexibility

UBC: 83% DE students live <1 hour from campus

Shift of time/location away from campus

- full-time students working part time (countries with high tuition fees)
- part-time students (18-27)
- older lifelong learners (27+)

Quality

Jury still out

Depends on:

- learners (readiness/independence)
- subject matter
- pedagogy used
- quality standards: design, professional web support, etc
- major course re-design

Productivity

e.g. simulations for problem-solving;
integration of academic and
administrative services (UBC)

More administrative than academic

Same conditions as quality +

- strategic investment in ICTs
- major institutional re-organization

Market positioning

To differentiate from other HE
providers (same market e.g. Tec de
Monterrey)

To attract new or un-served markets

E-learning not attractive as 'core'
function of prestigious research
universities

More attractive to lower status
institutions for 'positioning'

3. Meeting the needs of the workforce

Different economies

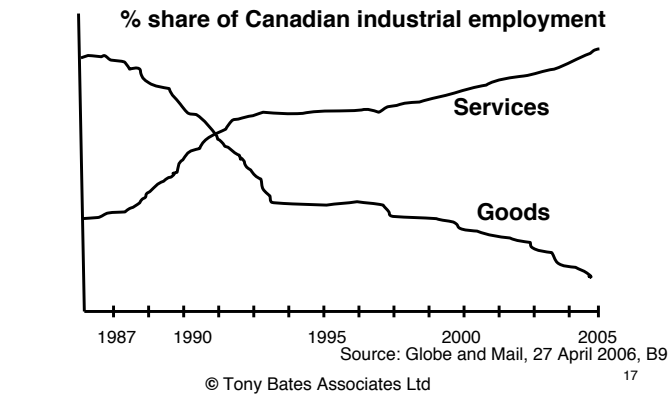
**Resource-based: agricultural, mining,
fishing:** land/sea-based, local

Industrial: manufacturing: urban, factories,
hierarchical, economies of scale, specialist
skills

**Knowledge-based: financial, bio-
technology, ICTs, telecoms,
entertainment:** 'virtual', global, networked,
multi-skilled

All three economies in parallel

Shifting economy



Skills of knowledge-based workers

- **problem solving, critical thinking**
 - **communication skills**
 - **computing/Internet skills**
 - **independent learners**
 - **entrepreneurial, initiative**
 - **flexibility/adaptability**
 - **team-work/networking**
- AS WELL AS subject expertise**

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Lifelong knowledge workers: a major new market

**NOT the same market as folkeskole
Graduates in workforce who need
professional up-dating: essential for
economic survival**

3 months training over five years

**In Canada, nos. = univ. entrants from
school**

They need access to latest research

They do NOT want traditional offers

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Lifelong knowledge workers: a new market?

Denmark demographics

| Age-group | 1990 | 2030 |
|-----------|-------|-------|
| 17-24 | 12.2% | 8.8% |
| 25-66 | 54.2% | 53.8% |
| 67-79 | 10.0% | 12.3% |

Source: Denmark Statistical Office
Average age of full-time students: 25
Completion rate: 45%

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Profile of lifelong learners

Graduates (already state-subsidized)
Working, often with a family
Maximum study time per week: 10 hrs,
Strong life/work experience, specialist knowledge
'Virtual' learning essential, from home/work
Leaners/employers willing/able to pay

New programs for lifelong learners

Modules, certificates, industry accreditation leading to masters
Inter-disciplinary, 'topic-based'
New knowledge since they graduated
Flexibly delivered:

- **Part-time (evenings/weekends/half-days)**
- **Blended (campus + online)**
- **Fully distant (home or workplace)**

5. New business models

The need for new business models

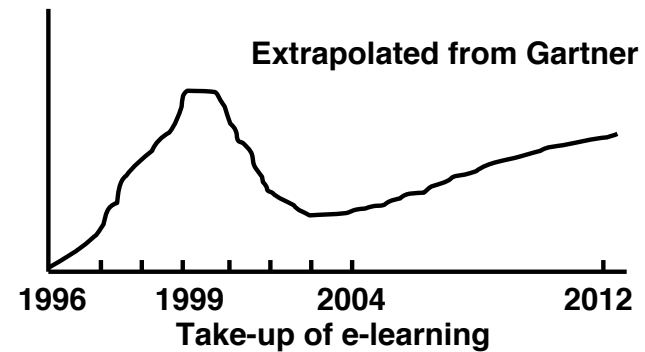
All citizens should have chance of a state-funded higher education
Universities designed mainly for young full-time, campus-based students: still this need

Graduates need to go on learning
Professors don't want more teaching
New models of funding needed

The big myth: e-learning will make money and globalize the market

Late 1990's: e-learning frenzy
e-learning for profit; global markets
Many for-profit initiatives failed (e.g. New York University, Temple University, FATHOM, Open University in USA)
US\$20 million lost on average

Where e-learning has succeeded (cont.)



Where e-learning has succeeded

Profit in niche markets, e.g.
University of Phoenix Online: 26,000 students, vocational
corporate e-learning
MBA's (Queens, Athabasca, Canada)
Continuing professional degrees
A (limited) option for regular students
Focus on knowledge-worker market

Where e-learning has succeeded (cont.)

Masters in Educational Technology
(for teachers - school or HE)
University of British Columbia (public)
fully online; international
certificates + master
4 'core' courses + 6 electives from 12

**Where e-learning has succeeded (cont.)
UBC Masters in Educational Technology**

**certificates since 1996: masters
opened 2002**

**80 students a year: 250 graduates
(2007)**

**fee: 675 euro per course, 6750 in total
program financed as a loan
new research faculty funded from
program: full costs recovered**

Where e-learning has succeeded (cont.)

Students choose known brands:

e.g. UBC's MET degree

UBC on-campus students: 20%

rest of province: 24%

rest of Canada 23%

international (31 countries) 33%

Where e-learning has succeeded (cont.)

Lessons:

**different financial strategies for
different markets**

economies of scale are important

- **high development costs**
- **lower delivery costs**

quality matters

- **new designs to exploit e-learning**

Where e-learning has succeeded (cont.)

Lessons (cont.)

**students want the real thing: don't
exclude the star professors from
online programs (but protect them)**

integrity matters: don't dilute brand

**cost-effectiveness matters: project
management + quality assurance**

institutional collaboration is difficult

Developing a business model for continuing education programs

Develop a business plan

- revenues as well as costs
- project management
- track, allocate and project costs (including time) over several years
- identify risks and options
- evaluate after five years

What's in a business plan/budget?

Depends on institutional methods

Best strategy: 5 -7 year budget plan

Key assumptions:

- academic and support staff time
- enrolments per course/semester
- student-teacher ratios

What's in a business plan/budget?

Revenues:

- allocated resources (staff time) expressed as cash (could be government grant)
- tuition fees
- special grants (e.g. for development)
- loans/other (sponsorship, alumni)

What's in a business plan/budget?

Expenditures (fixed):

- prior planning
- programme co-ordinator
- production costs
 - academic + support staff time
 - media production
- course maintenance (15-25%)
- LMS maintenance

What's in a business plan/budget?

Expenditures: variable costs

- • LMS licence fees
 - delivery: professors + tutors time
 - materials
 - student administration
- interest/capital repayment (if loan)

Balancing the budget

Calculating the 'break-even' point between revenues and expenditures (over six years):

Break-even when revenue = expenditure

Fee = expenditures (- grants)/no. of students over length of programme

Margin for safety (15%)

Useful even for 100% grant-funded

Possible strategy

- undergraduate degree: mainly on-campus (blended); a few courses fully online in last year; govt-funded
- 'traditional' masters/Ph.D.s: on campus; blended; govt-funded
- graduate education for knowledge-based workers: online; self-financing; modules, certificates, masters

Focused e-learning

e-learning a tool, not a panacea
need to identify where it will bring most benefit

depends on type of students, nature of topic

program teams to develop vision of teaching/learning + role of e-learning that drives funding

Determining the role of e-learning (at the academic dept. level)

**What new markets can we serve?
What new programmes do we need?
Where on the continuum of e-learning
should this programme be?
How will e-learning change the way
we teach?
What support do we need for quality
e-learning?**

The rationale for e-learning

**E-learning supports the development of
skills needed in knowledge-based
societies, e.g. how to seek, organize, analyse
and apply information
Using technology for learning prepares
students for knowledge-based work
E-learning is particularly good for
lifelong learning**

Further information

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