

The Rockefeller Foundation

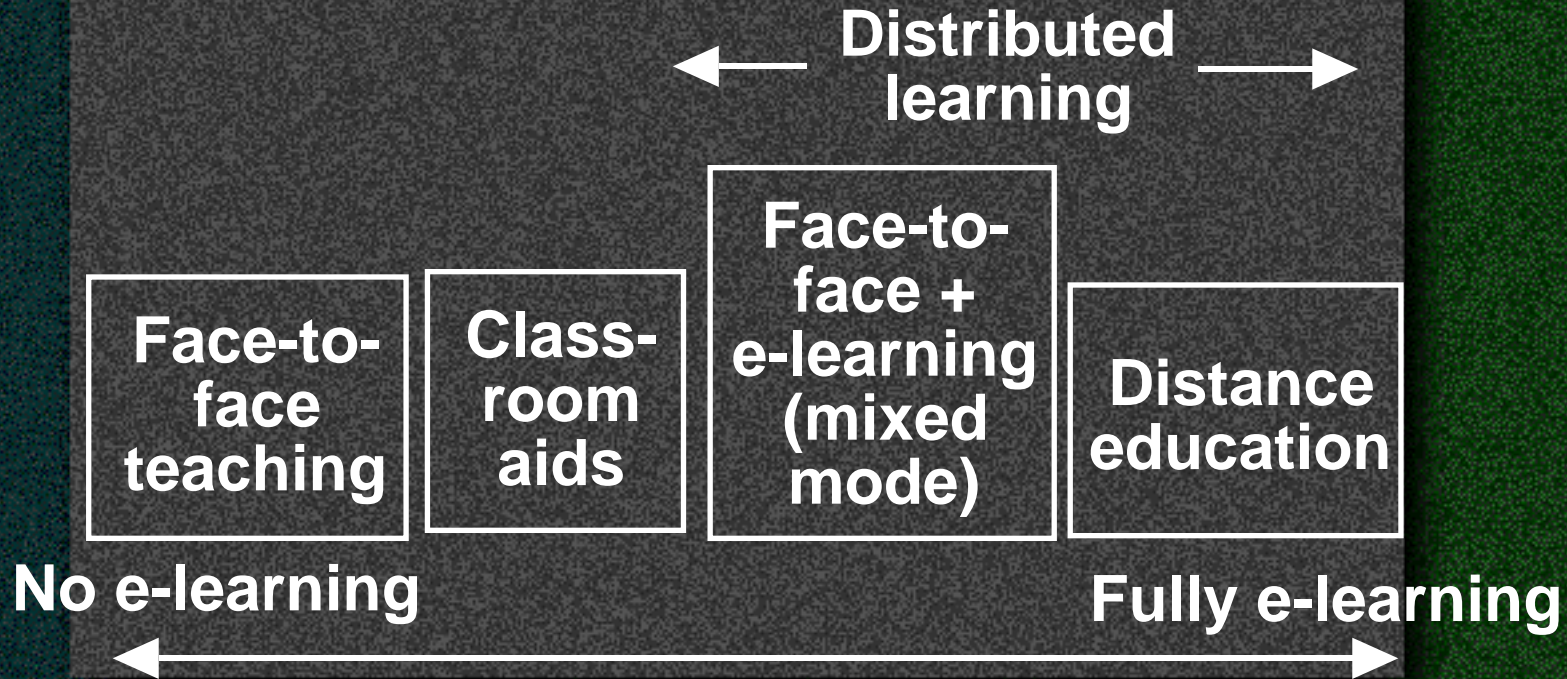
Distance education and e-learning for developing countries

Definitions

distance education: students physically separate from (main) instructor

e-learning: Web-supported learning, from entirely online to Web-enhanced classroom teaching

Technology and flexible learning



Models of distance education

Educational broadcasting

Open universities/schools

Dual-mode universities

Virtual universities/schools

Corporate training

How big is distance education?

Distance learners	9 m
Public distance	5 m
Private distance	4 m
Print + broadcasting	5 m
Fully online	4 m
Public fully online	0.6 m
Private fully online	3.4 m
E-learners on campus	3-4 m

Types of technology

Broadcast: one way

Communications: two-way

Synchronous: real time

Asynchronous: on demand

Distance education technologies

Print

**Broadcast TV and radio
(inc. satellite)**

Tele-conferencing

● **audio-, video-, web-**

Asynchronous web

Technology

Media	Technologies			
	Broadcast (1-way)		Communication (2-way)	
	Synch.	Asynch	Synch.	Asynch
Face-to-face	lecture	notes	seminar	
Text		books		mail
Audio	radio	cassettes	phone	
Video	TV	cassettes	video-conf	
Digital	Webcast	Web site	chat	e-mail

Appropriate target groups

independent learners

working adults

- **farmers/office
workers/teachers/health
professionals/SMEs**

**strengthening weak
education systems**

Greatest need

rural/remote regions

slums/barriadas

adult literacy

**workforce development
(SMEs)**

Appropriate technology

low cost technologies, easy maintenance

- **home/office technology**
- **radio, print, cassettes**
- computers for specific target groups**
- **'leaders'/SMEs/IT training**

Conditions for success

strong instructional design

appropriate technology

interaction/learner support

- **tutor/student ratios**

- **local support**

efficient admin systems

Conditions for success

integrated with existing systems

- **local learner support**
- local language/materials**
- capacity building**
- sustainable funding**

Conclusions

no replacement for basic education

DE answer for specific tasks
success conditions demanding
choose appropriate technology
capacity building essential

Books

**A.W.Bates 'National
Strategies for e-Learning'
Paris: UNESCO/IIEP**

**A.W.Bates 'Managing
Technological Change' San
Francisco: Jossey Bass
2000**

Books/contact

**A.W.Bates 'Effective
Teaching with Technology
in Higher Education' San
Francisco: Jossey Bass
2003**

**<http://bates.cstudies.ubc.ca>
tony.bates@ubc.ca**