Pertinent issues in e-learning

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E-science

- **asynchronous sharing of scientific information**
  - integral part teaching & learning
  - integration of information
  - e-administration

- **competitive landscape**
  - researchers, teachers, students

- **consequences in the value chain**
  - (information) management
R & HE institutions

- e-learning
  - customisation ⇔ massification
    - junior researcher: master-apprentice

- network of institutions
  - network of repositories
  - institution-independent entities
    - accreditation
  - international organisation
    - peer review
Strategic issues

- competition and competitive positioning
  - loss of monopoly in teaching
- teaching & learning
  - content
  - process
  - organisation
  - property issues
- research ↔ teaching
  - internal competition
  - organisation
- division of labour in teaching
- information provision ↔ teaching and research
Competitive position

• **research**
  - excellence $\Rightarrow$ choices
  - networks

• **teaching & learning**
  - excellence $\Rightarrow$ choices
  - networks
  - local supply-oriented $\Rightarrow$ international demand-oriented
  - labour intensive $\Rightarrow$ capital intensive

$\Rightarrow$ **student: customer**

$\Rightarrow$ **student-centred**

$\Rightarrow$ **e-learning**
Relation research and teaching

• organisation
  ° segregation research & teaching
    • segmentation student and teacher needs

• content
  ° integration research and teaching
    • subject & content
Issues teaching

• creation ⇔ coaching
  ◦ quality material
  ◦ professionalism

• sharing & trading
  ◦ new market
    • new content with didactic methods
    • new interactive methods
  ◦ alliances
  ◦ intellectual property rights

• teaching
  ◦ instrument for profiling

• attract best teachers possible
  ◦ how to measure?
  ◦ remuneration
Division of labour in teaching

- **creation**
  - only in subject areas leading in research
  - integration content and didactics

- **coaching**
  - material from internal & external sources

- **autonomy teacher**
  - intellectual property rights
Socrates: the discovery of writing

- ...this discovery of yours will create forgetfulness in the minds of those who learn to use it; they will not exercise their memories, but, trusting in external, foreign marks, they will not bring things to remembrance from within themselves. You have discovered a remedy not for memory, but for reminding. You offer your students the appearance of wisdom, not true wisdom. They will be hearers of many things and will have learned nothing; they will appear to be omniscient and will generally know nothing; they will be tiresome company, having the show of wisdom without the reality.

- Plato, "Phaedros"
Conclusion

• comprehensive and consistent set of strategies
  ° to capture benefits from e-learning
• proprietary roles for research and teaching
• student-centred
• consequent (information) management
  ⇒ strategic transformation
  ⇒ to share information
  ⇒ to enhance learning to educate junior scientists