

Estonia

- is a small country
 - by area ~ Denmark, Switzerland, the
 Netherlands
 - by population 8% of the Netherlands
- 11 universities (5 private)
 - public universities have 11 colleges
 - 67,325 students (2004) 50% Estonian governmental financing
 - TUT: 10,327 students
 - Distant learning is not long distance learning



Estonia & IT

numerous wide-spread Internet and mobile

applications:

- banking
- parking
- ticketing
- car security
- positioning
- Skype
- voting



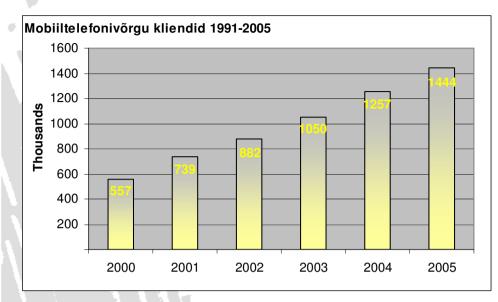


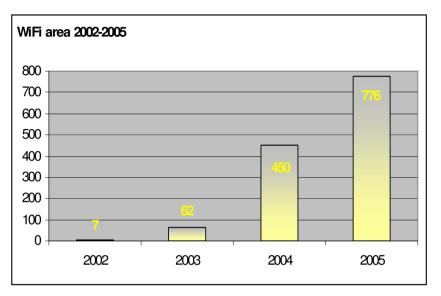
Estonia & IT (2005)

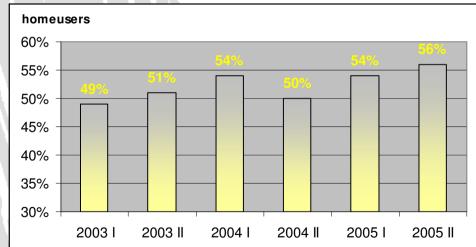
(siia tuleb võrdlusdiagramm kuni 5 aastat)

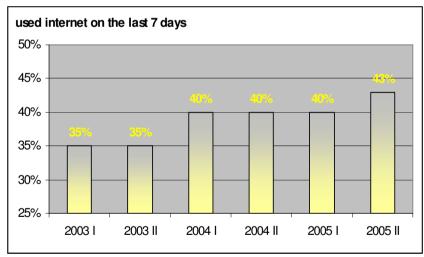
- Mobile phones: 107 per 100 habitants
- 776 free WiFi zones
- 54% of population uses the Internet (90% at the age of 10-24)
- 34% of homes have computers at home, 82% connected to the Internet
- 90% students reported they use their own computer













Estonian e-University

- Estonian e-University is a consortium of universities and universities of applied sciences.
- Estonian e-University was founded in February 2003.
- Membership: Ministry of Education and Research, IT Foundation,
 4 publicand 4 privat universities



e-University: functions

- Coordination of e-learning activities
- Financial support (through universities)
 - training teachers
 - course development
- Projects
 - UNIVE ("Creating network-based e-university model for the small countries in the context of e-learning in Europe")
 - REDEL ("Regionally accessible qualitative higher education via e-learning development")



REDEL

The main purpose of the project is

- to improve the accessibility of qualitative higher education to all target groups (with special attention to disabled people and people in peripheral regions) and
- to create a possibility for lifelong learning by developing web-based courses.



Support for staff

Since September 2004 when the REDEL project was launched, new staff were employed:

- 18 educational technologists in Estonia
- 2 educational technologists at TUT



e-Learning at TUT

- WiFi at TUT campus 100%
- WebCT Campus
- Moodle





WebCT Campus



Tere tulemast kursusele Mikro-ja makroöko

Teaduskond	kasutajaid	kursuseid
Eelõppeosakond	50	5
Ehitusteaduskond	6	1
Energeetikateaduskond	44	5
Humanitaarteaduskond	247	7
Infotehnoloogia teaduskond	695	15
Kuressaare Kolledž	112	3
Majandusteaduskond	79	5
Matemaatika-loodusteaduskond	972	4
Mehaanikateaduskond	300	9
Tallinna Kolledž	225	4
Virumaa Kolledž	27	2







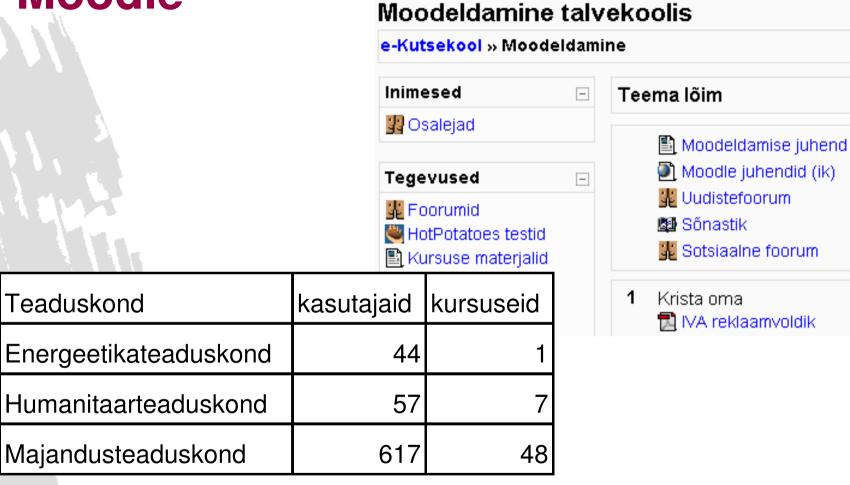
Õppurid



Muud vahendid

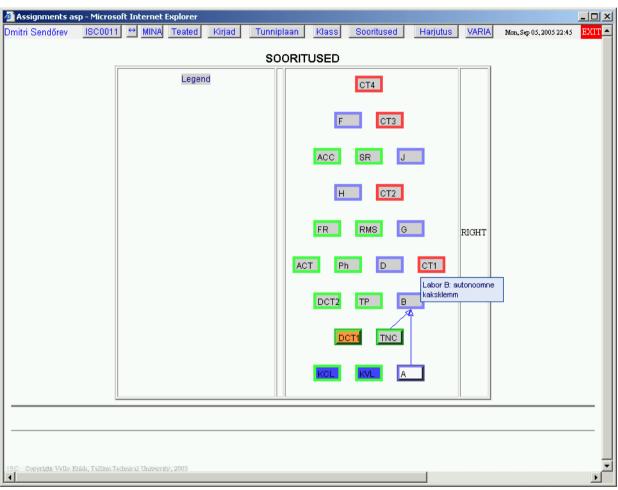


Moodle

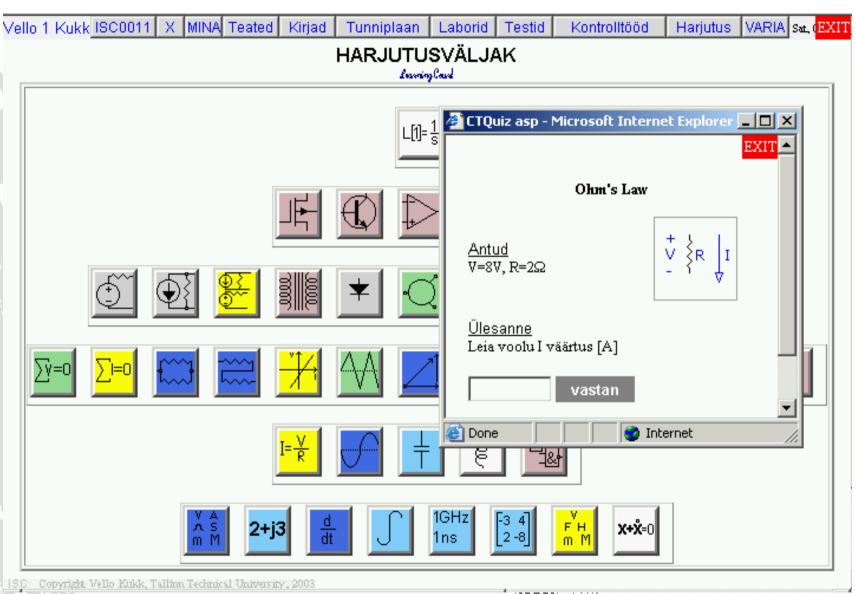














Problems with e-learning

- Complexity of lab tasks encountered in transfer to e-learning environment
- High quality software packages are typical of very high volume. Thus, they need powerful servers.
- e-learning leads to a demand for optimization of contact hours



Video in different forms at TUT

- Videoconference
- Videostreaming
- Video materials



Videoconferencing equipment



Convenience and innovation are combined in a compact, entry-level powerhouse.

Picture from: http://www.teamsolutions.co.uk/

Polycom VX7000





Videostreaming

- TUT promotional events
- TUT news
- Research and development conferences
- Lectures
- Study materials



VIDEO TRANSMISSION OF LECTURES 2004/2005

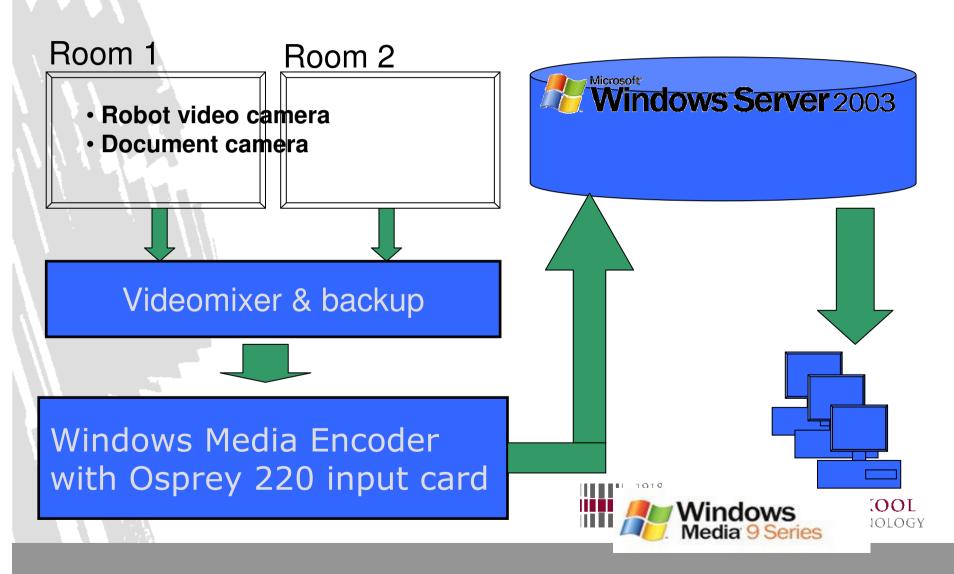
- 8 courses transmitted and stored
- 123 lectures transmitted
- 246 hours of lecture transmissions
- 10 743 viewers of stored lectures
- 123+67=190 stored video clippings
- video clippings viewed for 48 290 times







Videostreaming equipment



Video materials

- Extend electronic materials using visual content
- Visualize laboratory work
- Short and concentrated video clips of lectures that can be used in other subjects



Labs

- Conventional
- Home labs
- Remote labs
- Virtual labs





TUT's e-learning strategy 2006-2010

- indicators
 - percentage of e-support courses from the total of courses 90%
 - cp percentage acquired in e-learning from total cps - 50%
- TUT's e-learning <u>strategy</u>



Thank you!

