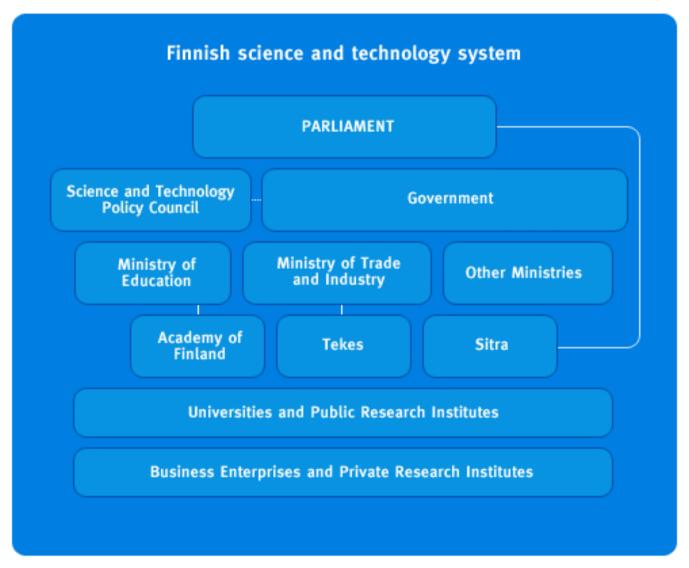


ICT in university education:

eLearning in the Finnish Way

Case Finland and Helsinki University of Technology Heikki Hallantie/TKK



Source: http://www.research.fi

University as an institution of Institute Dipoli Information Society

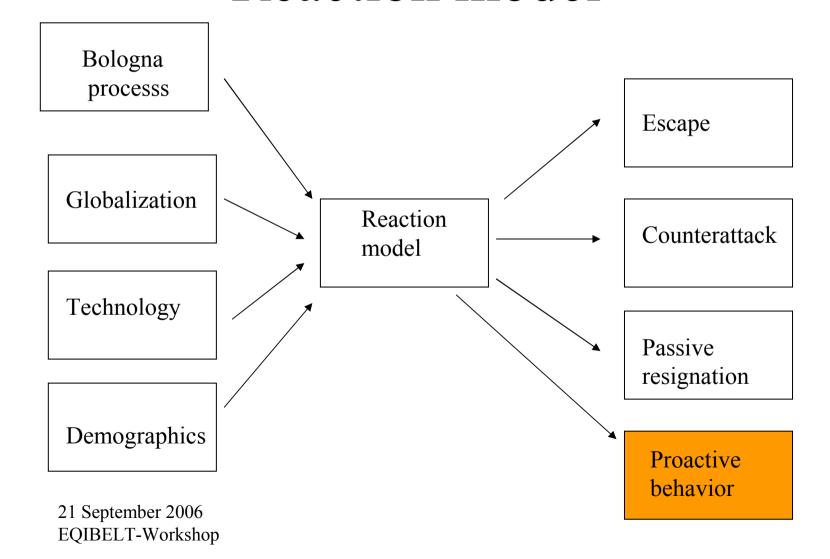
- ICT considered as social communication system instead of technology
- focus on systemic level from individualistic teacher-learner centric approach
- ICT will be an essential part of new education system
- e in e-learning should be read "enhanced"
- Source: Dr. Jyrki Pulkkinen/Dissertation 2003



- Technology trends
 - price/performance getting better
 - ubiquitous computing
- Globalization
- Demographic factors
- Bologna process
- Big changes in education systems unavoidable



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- Early adoption in pilot courses
- Student database in 90's
- Web-based course registration system in 90's
- Finnish Virtual University initiative 1999
- Common Learning (Optima) platform in 2004
- MLE- project in 2005



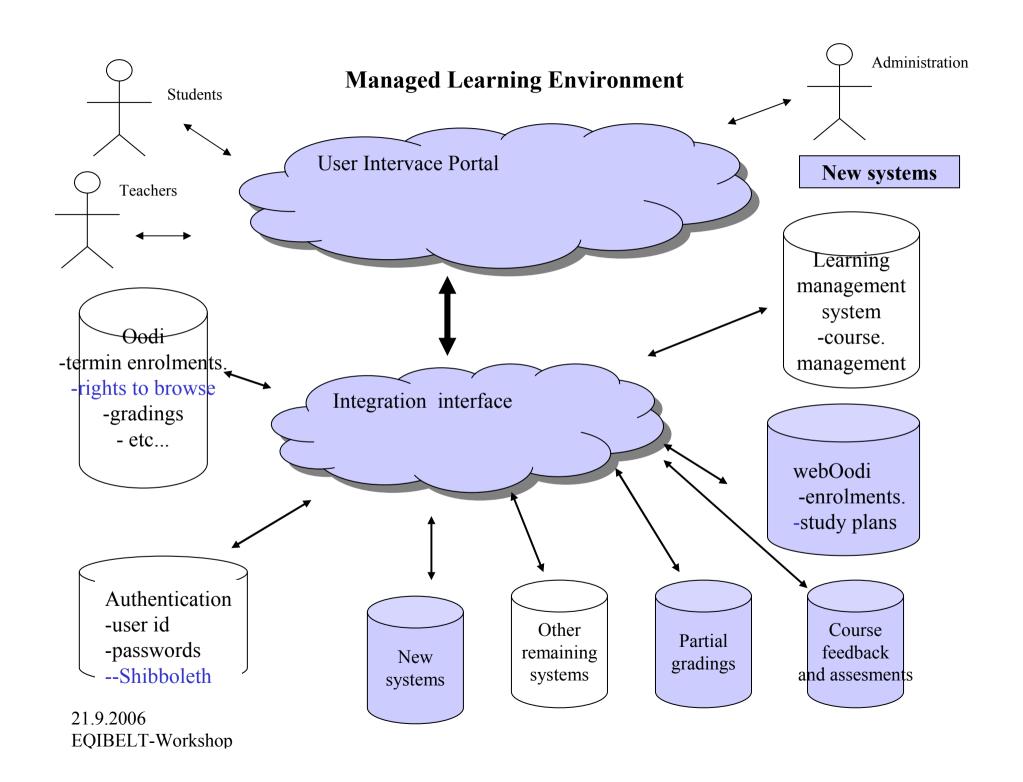
electronic environment@Helsinki University of Technology – eTKK

www.tkk.fi/eTKK (in finnish only)

Project coodination (M.Melin / M.Sipilä)				
eAGE – electronically Administrated Generic Environment	MLE - Managed Learning Environment	CMS – Content Management System	Quality system	URTHA – Project Management System
M.Pirttivaara J. Salmela	H.Hallantie T.Toivonen	M.Melin J.Lahtinen	M.Melin	I.Lähteenmäki
Shibboleth (A.Tontti)= SSO user recognition				

Existing systems, that must work in cooperation with the new systems:

- •Employee information system
- •Study systems
- •Billing system
- •Travel system
- •Electric phonebook
- •Machine registry
- •Economy management system
- •Resource management system





- Autonomy of the University
- Autonomy of Departments
- Autonomy of laboratories
- Consequence: weak central administration
- Lots of individual solutions
- Internal competition



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- Usage of central learning platform is increasing rapidly (3600 user accounts)
- MLE- portal is at requirement planning phase
- Lots of integration needs
- Single sign-on and Web services as solution



- Progress is much slower than anticipated
- Avoid technology push
- Involve users
- Process re-engineering is necessary
- Paradigm change in education necessary



- University as an institute of Information society
- Universities as regional players
- From formal hierarchies to open networks
- Global competition and co-operation of Universities