

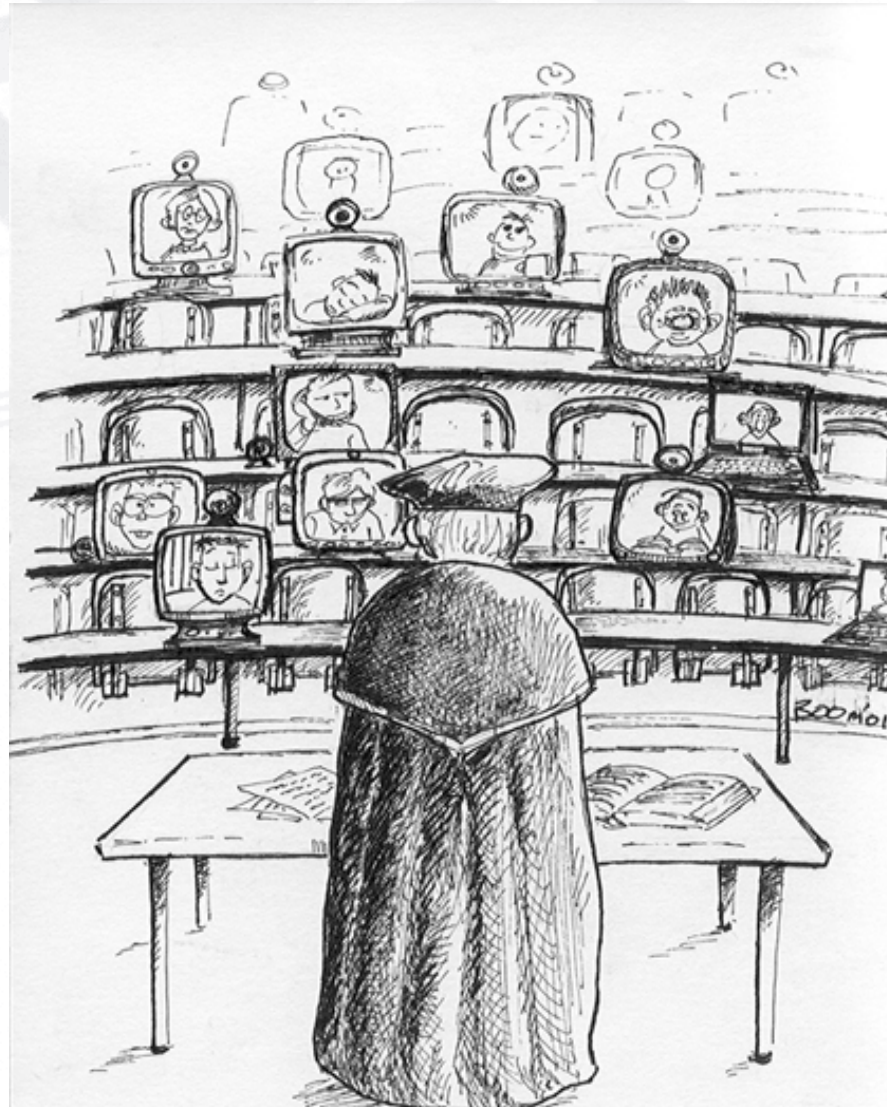


KATHOLIEKE UNIVERSITEIT
LEUVEN

Guided Independent Learning at K.U.Leuven: Implementation and support by ICT

Wim Van Petegem
K.U.Leuven, AVNet
26 October 2007





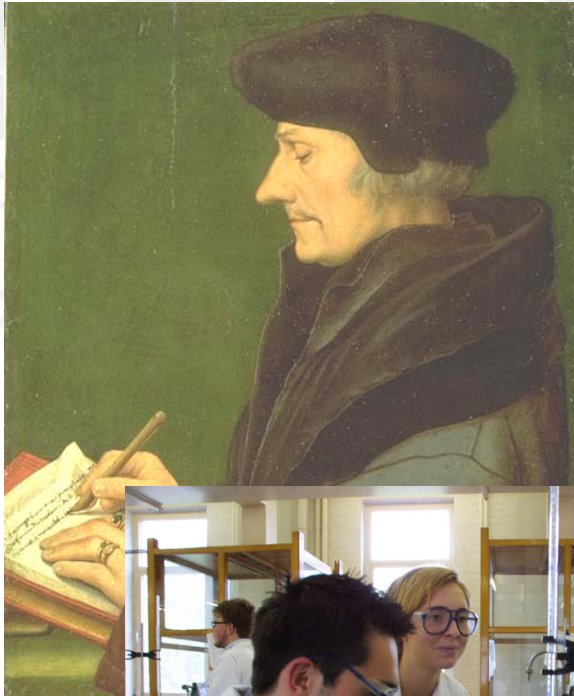
Listen carefully...
I will download this only once

Context: K.U.Leuven

- Founded in 1425
- > 30.000 students
(± 12% international students)
- > 15.000 staff members
(4500 researchers: 1250 sr + 3250 jr)
- 3 groups, 14 faculties, 50 departments
- 30 libraries
- 5 hospitals
- Association with 13 university colleges



Research and education @ K.U.Leuven

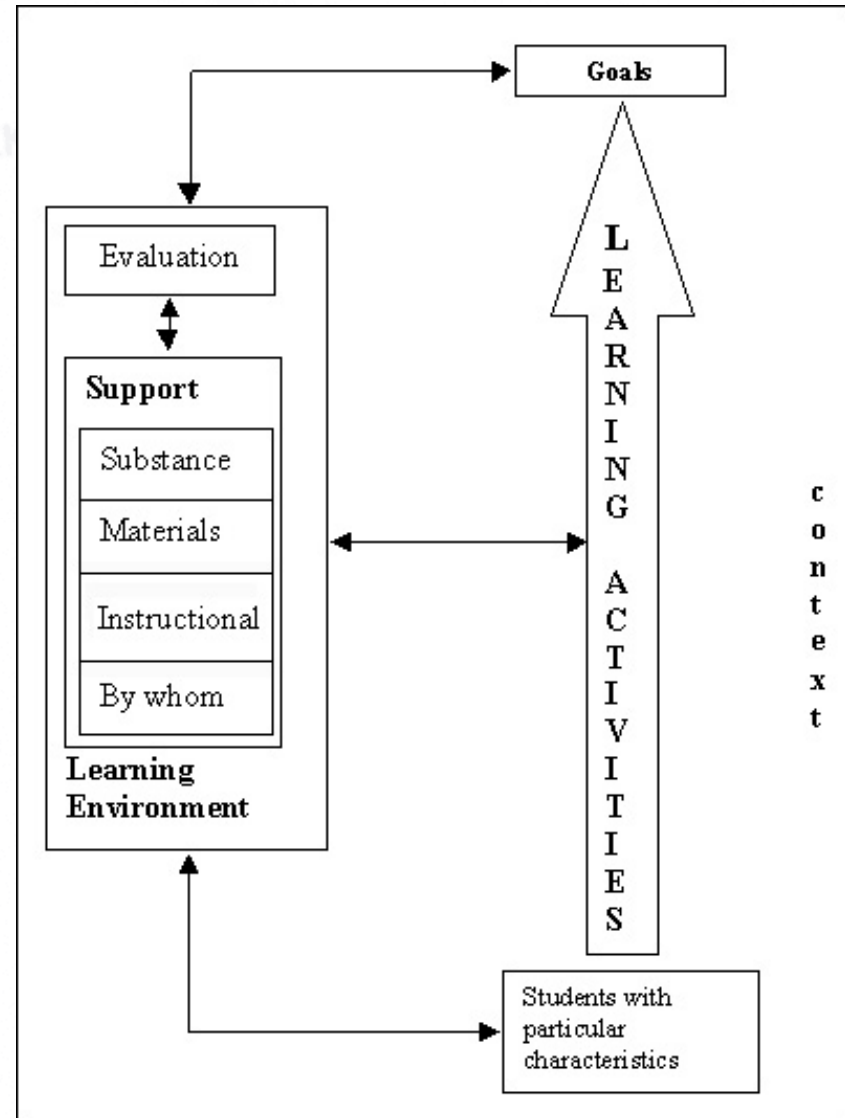


Pedagogical framework: GIL

- Learning is an active, constructive, cumulative, goal-oriented, self-regulated, contextualised, social process
- Students should acquire a critical scientific attitude and become actors in knowledge creation and sharing
- Graduates should be able to take up responsibility in society and articulate original viewpoints
- **GUIDED INDEPENDENT LEARNING**

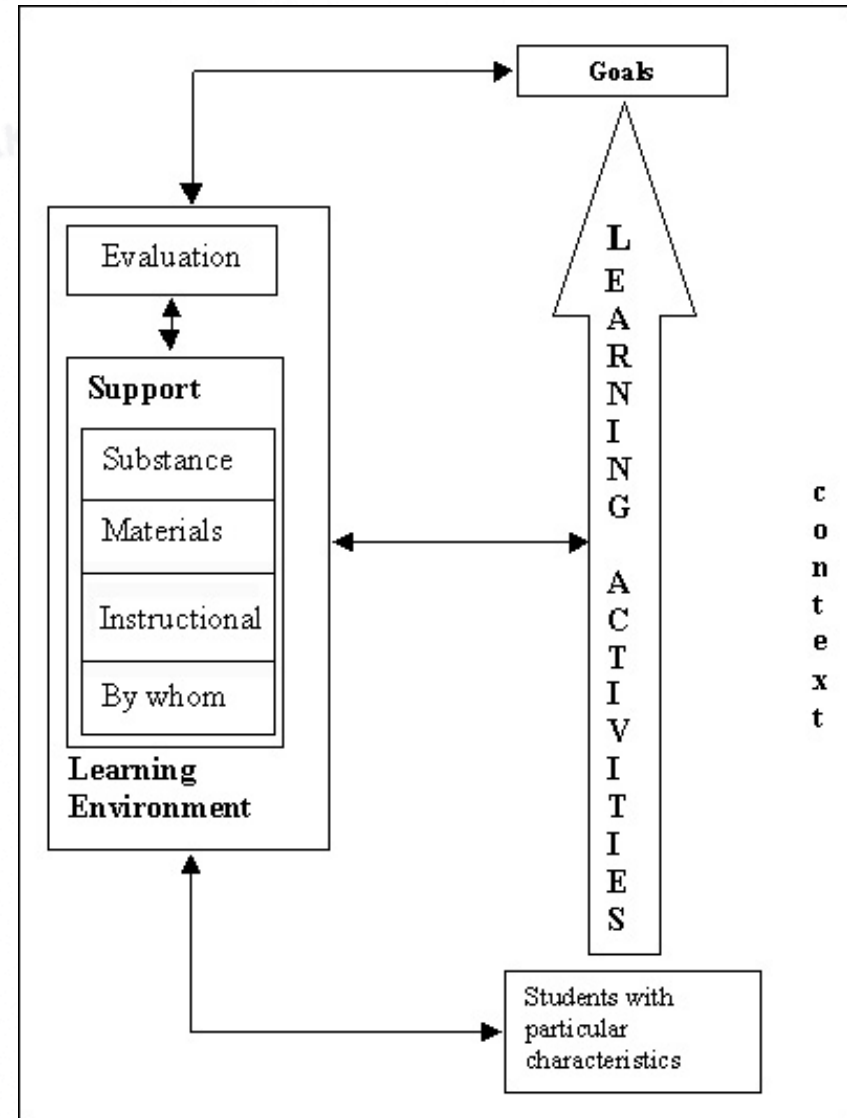
Pedagogical framework: GIL (1)

Students'
responsibility:
The learning process



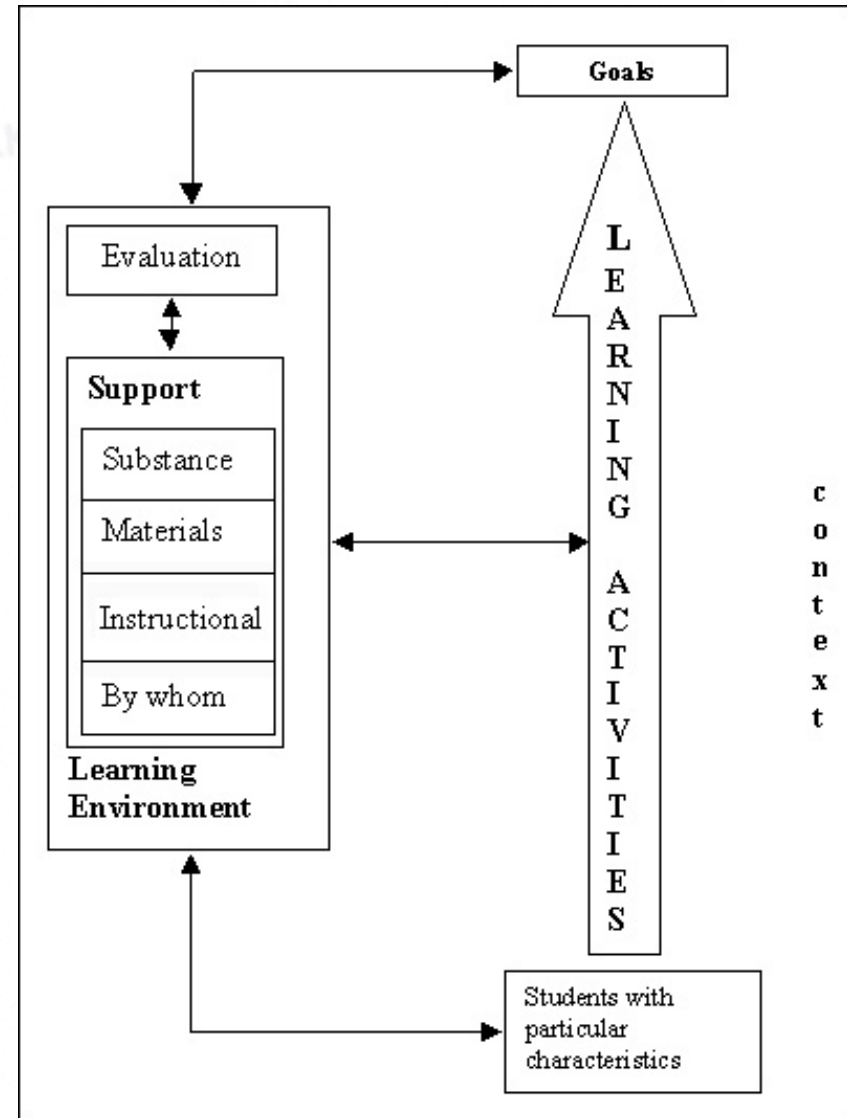
Pedagogical framework: GIL (2)

Teachers' responsibility:
Coaching the students' learning process



Pedagogical framework: GIL (3)

Organisation's
responsibility:
Support students and
teachers in the
learning process



Toledo: digital learning environment

Logo

Alcatara-bridge in Toledo

Bridge between students and faculty

Acronym

Toetsen en Leren Doeltreffend Ondersteunen

Effectively supporting Testing and Learning

Aim is

to implement and support (technically and pedagogically) a digital learning environment for all students and faculty at the K.U.Leuven



5 year Toledo > 2001

2001

2002

2003

- Start Toledo!



- Implementation Blackboard



- Implementation Questionmark Perception



2001
2001

5 year Toledo > 2002

2001

2002

2003

- Start automisation
 - Subscription module
 - PUC (Perception Upload Client)
- Start Communities
- More curricula

2002
2002

5 year Toledo > 2003

2001
2002
2003

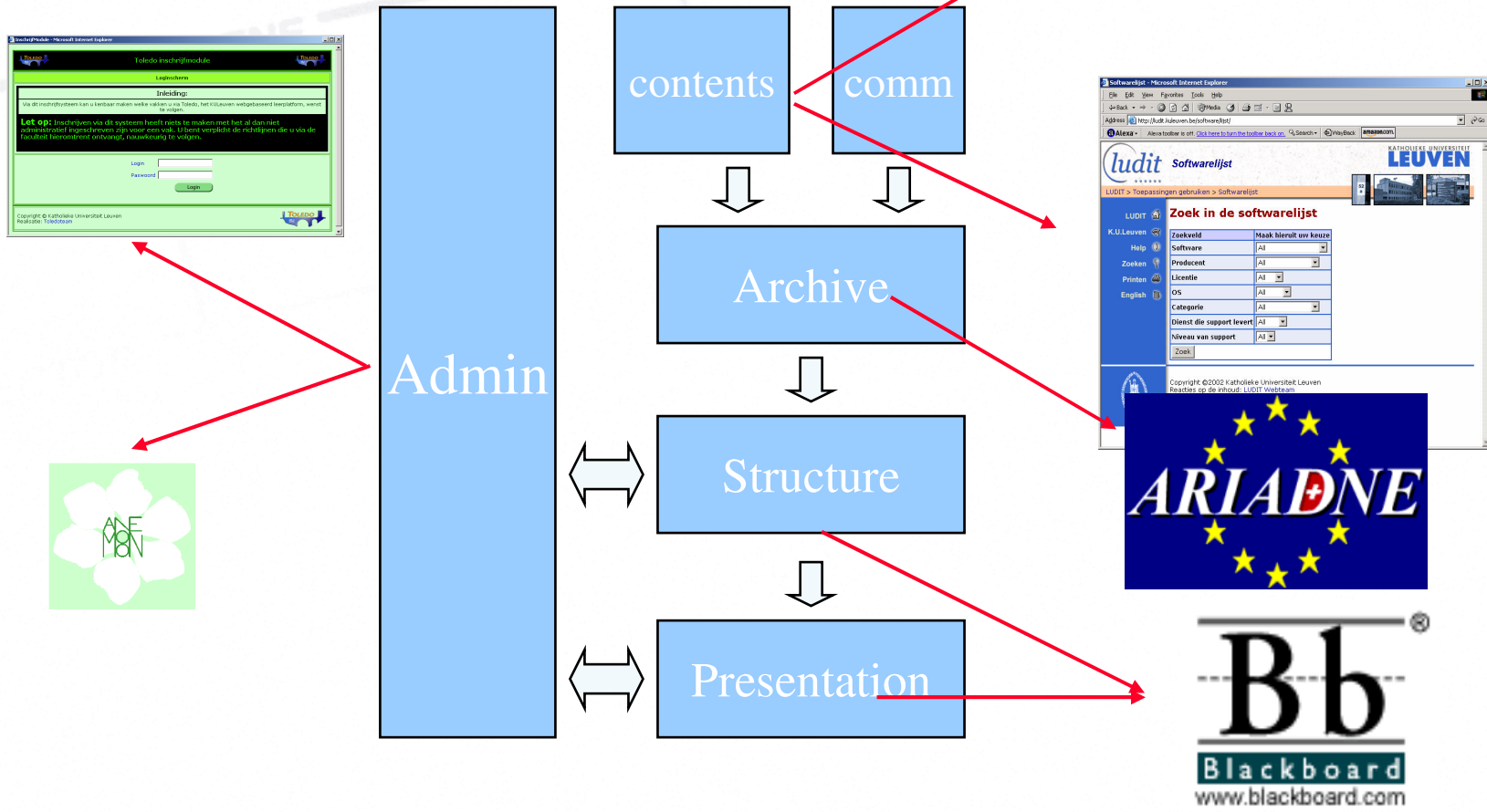
- Link with Campus Management System
- Blackboard 6
- Building blocks



2003
2003

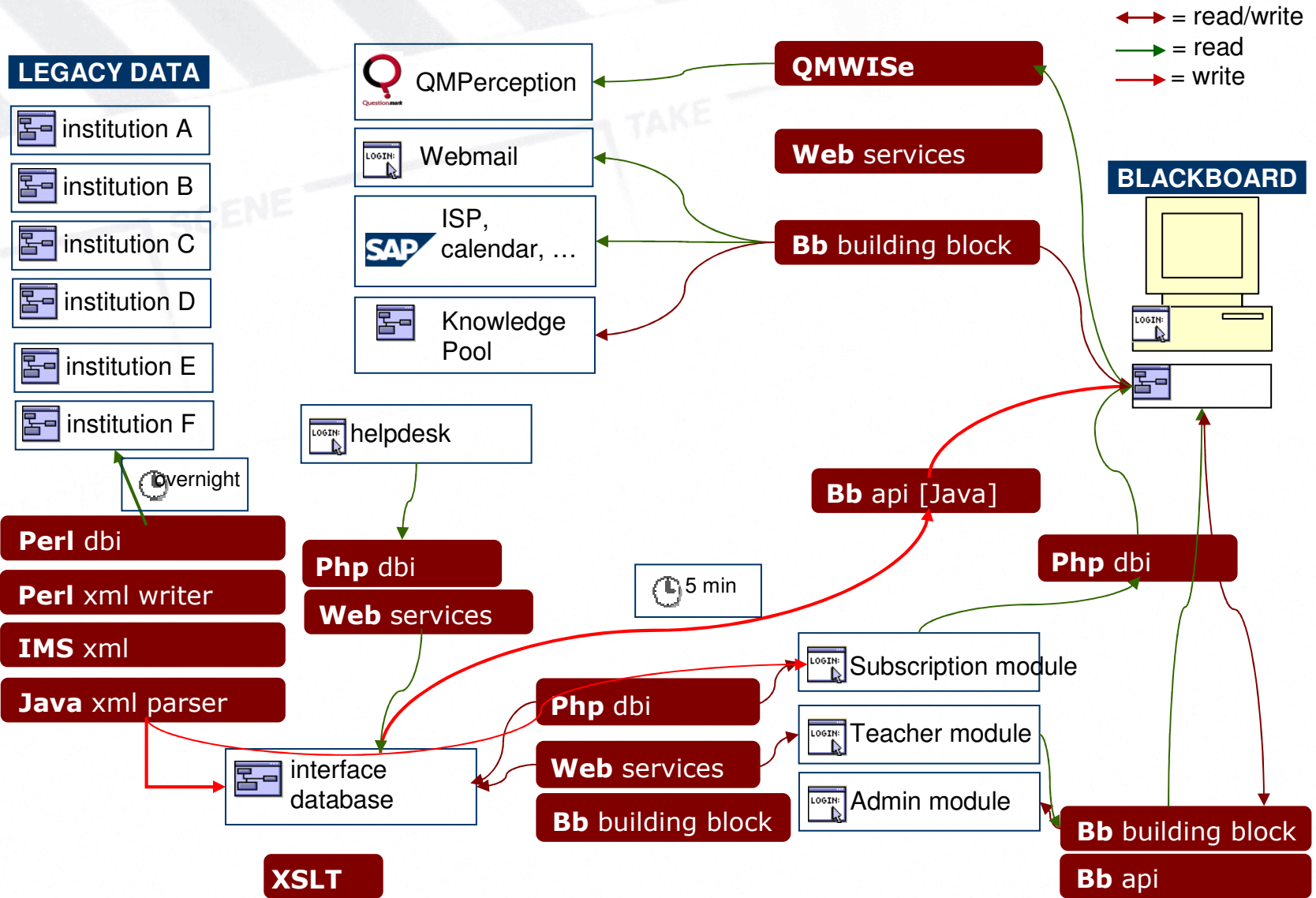
5 year Toledo > 2003 > Building blocks

2001
2002
2003



5 year Toledo > 2003 > Building blocks

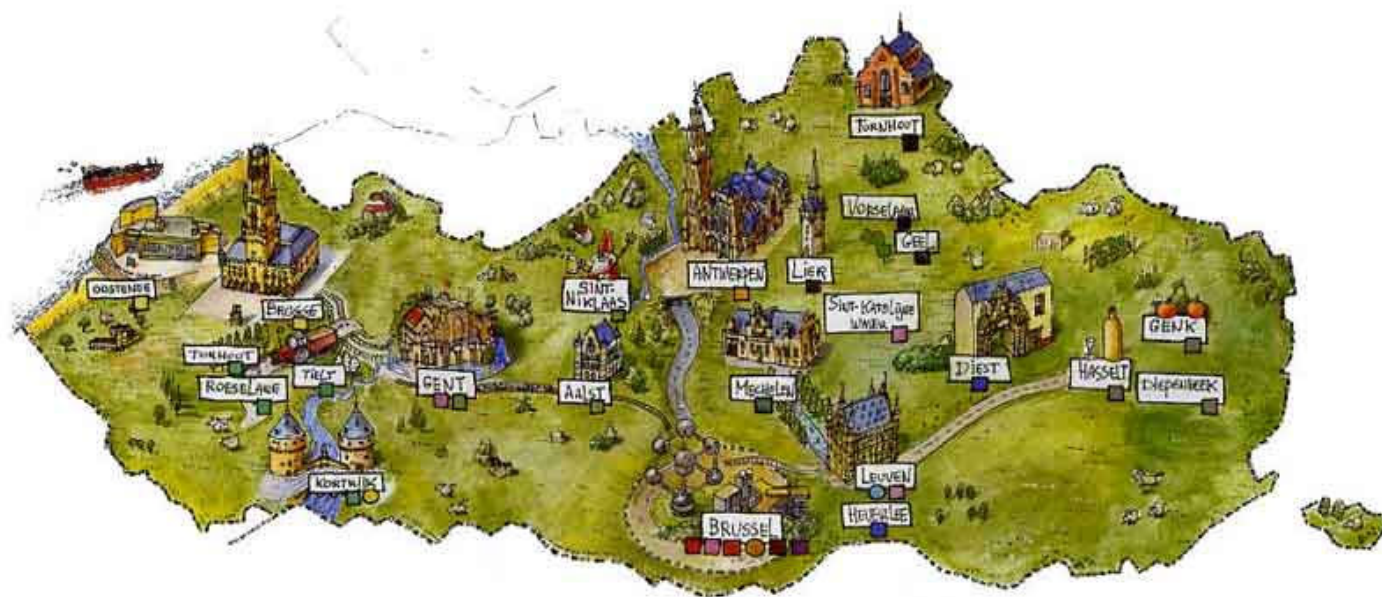
2001
2002
2003



5 year Toledo > 2004

2001
2002
2003
2004

Expansion to the Association K.U.Leuven

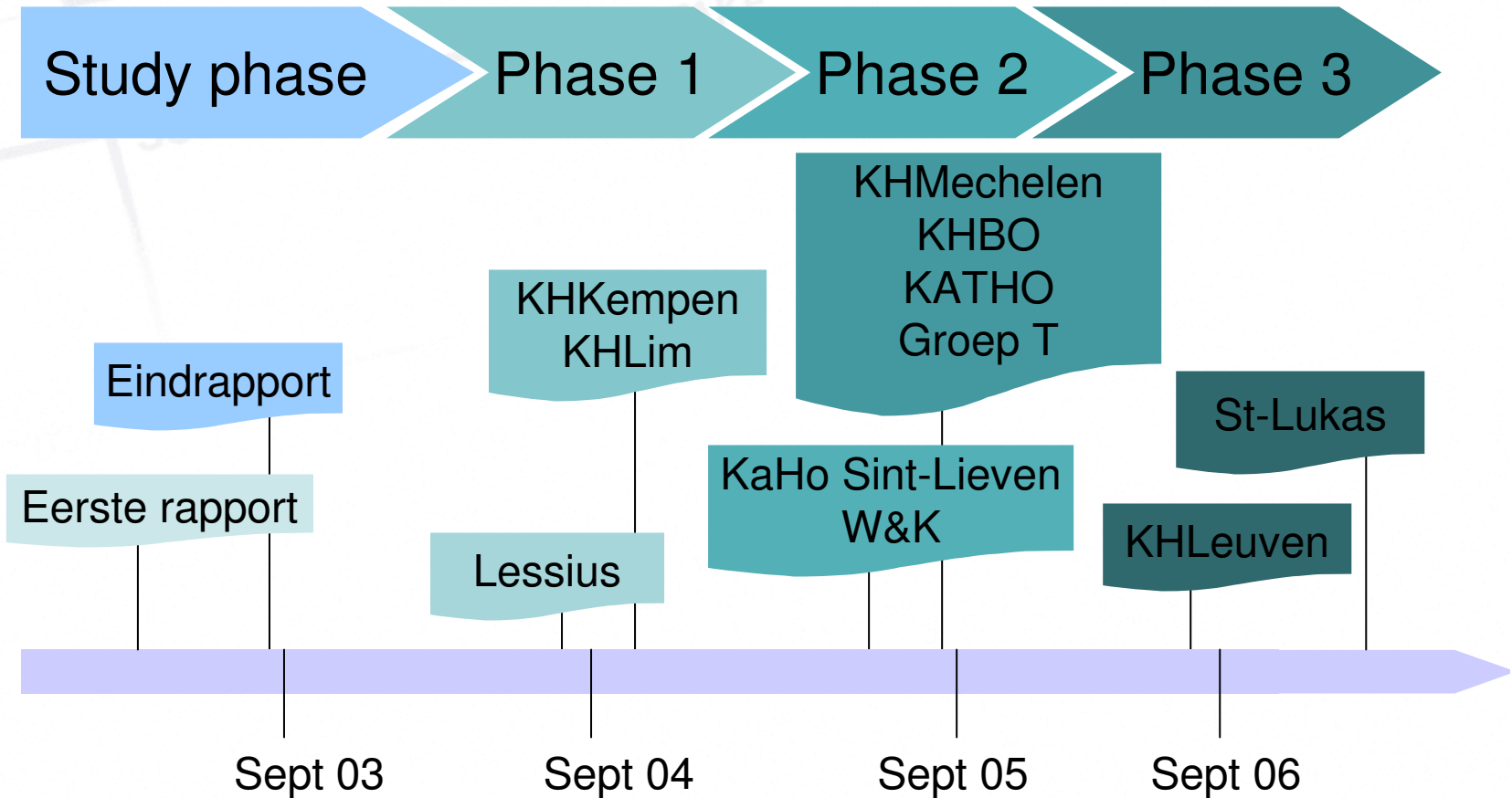


ASSOCIATIE
K.U.-LEUVEN

2004
2004

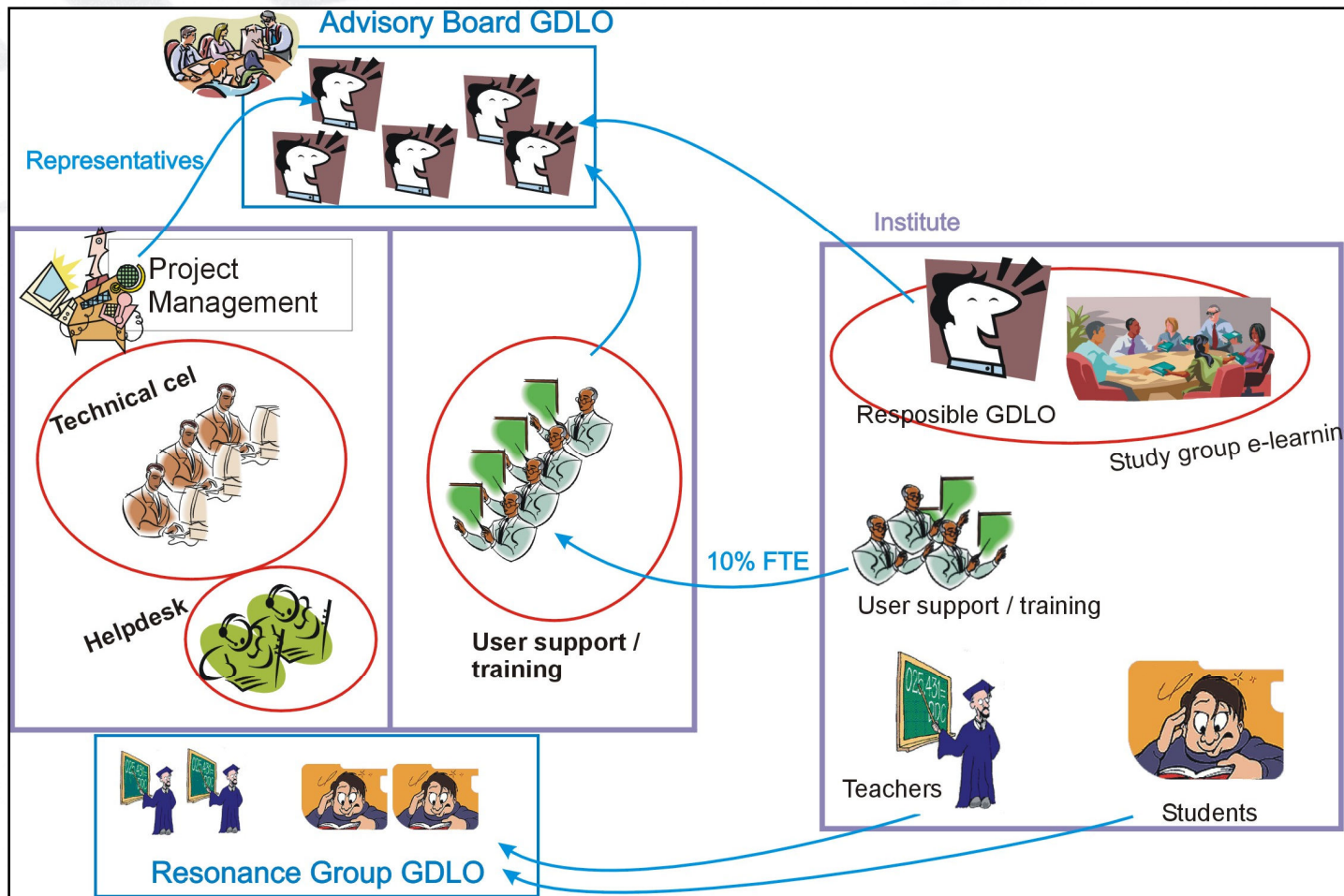
5 year Toledo > 2004 > Association

2001
2002
2003
2004



5 year Toledo > 2004 > Association

2001
2002
2003
2004



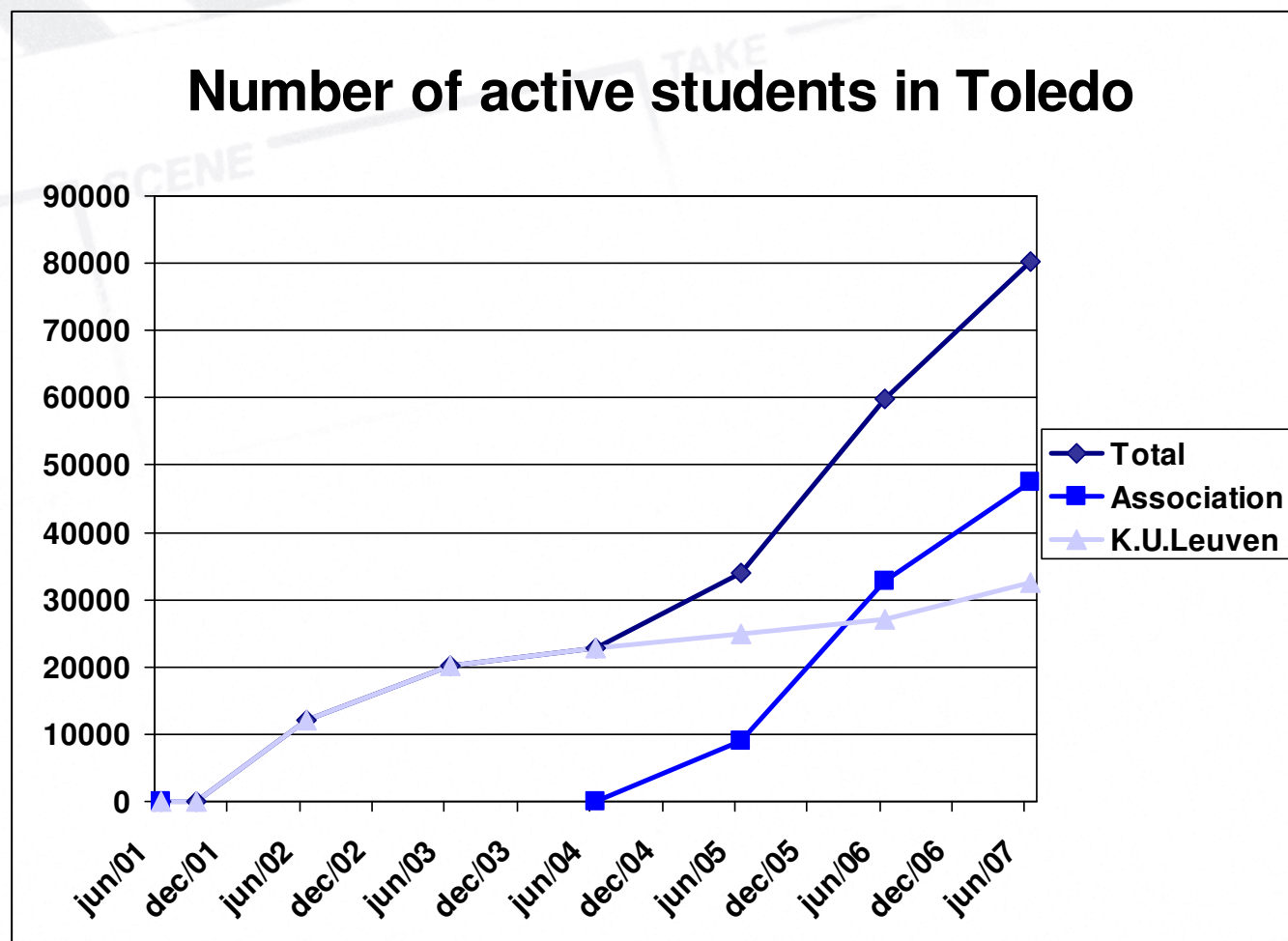
5 year Toledo > 2004 > Association

2001

2002

2003

2004



5 jaar Toledo > 2004 > Association

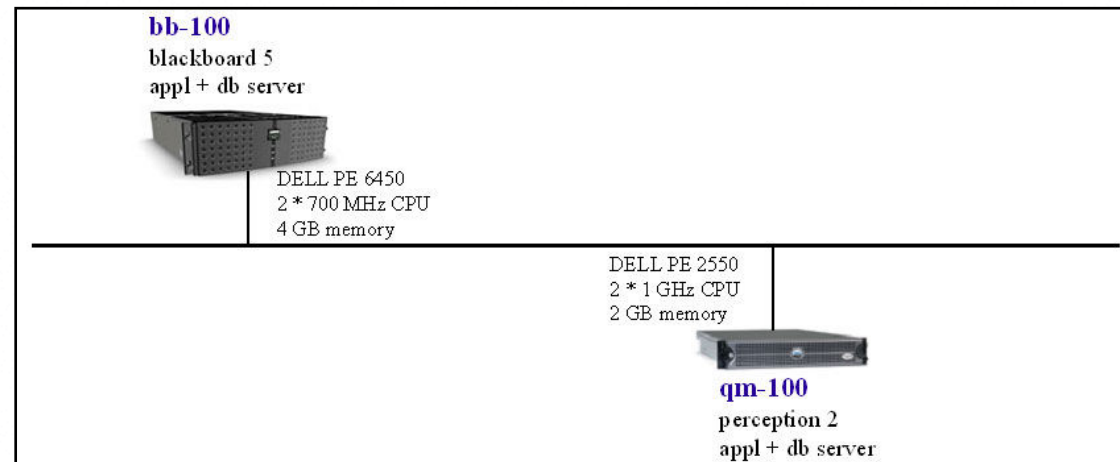
2001

2002

2003

2004

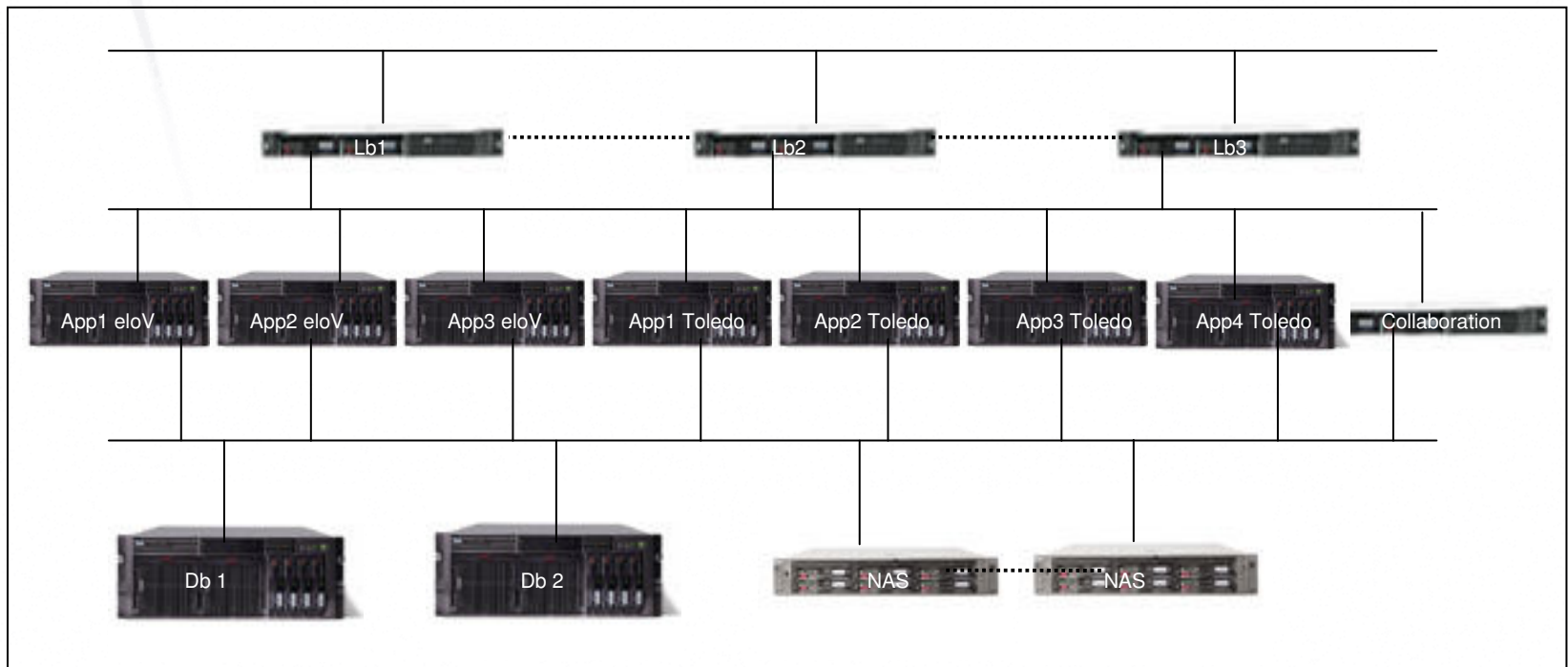
Server park Toledo 2001



5 year Toledo > 2004 > Association

2001
2002
2003
2004

Server park Blackboard 2007



5 year Toledo > 2005

- Blackboard 6.3
- Link ISP (Individual Study Program)
- Further development GDLO
- eloV

2005
2005

5 year Toledo > 2005 > eloV

2001
2002
2003

PROD
2005
ROLL



5 year Toledo > 2006

- Further development GDLO
- Toledo⁺
 - Innovation
 - From knowledge to competence
 - From teacher to student
 - Coaching and guiding internships, papers, ...
 - E-portfolio
 - Coaching group work
 - Collaboration between teachers
 - ...
- Conferences

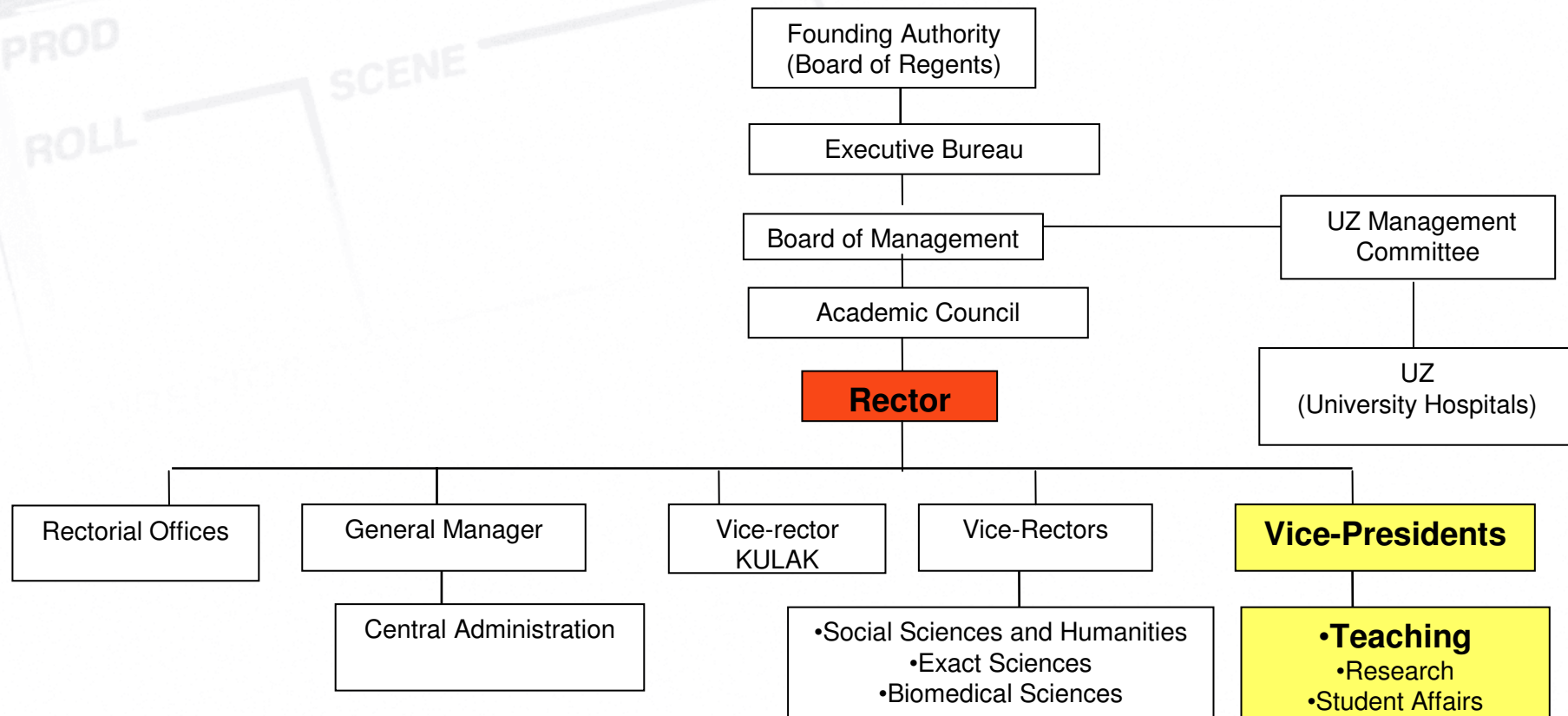
2006
2006

5 year Toledo > 2007

- 5 year Toledo
- Revision of support structure

2007
2007

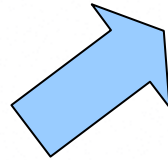
Management organisation



Mixed management groups

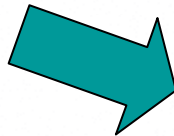
ICTS board

ICT management



ICTO advisory board

Education Management
General management
Teaching staff and experts



TOLEDO

DUO/ICTO educational support service
LUDIT ICT support
AVNET support
Teaching staff
Educational support staff

GDLO

Institutions' management
Toledo representatives

Internationalisation

Think Tank

5 year Toledo > ...

2001
2002
2003

And the future?

2010

2009

2008

2011

2012

2013

AVNet

Audiovisual and New Educational Technologies

- **Audiovisual Services**

Production of interactive multimedia (learning) material

- **eLINK**

eLearning in an International Network of Knowledge -
support of multicampus education

- **Study centre Open University**

Distance learning

Our mission

To develop multimedia products and systems in higher education, and

To support the proper use of AV and MM technologies in multicampus education (and other communication processes)

Within the Knowledge and Competence Network K.U.Leuven

Multimedia

- Production
 - Audio
 - Video
 - Interactive multimedia
- Presentation
 - In the real world (class room)
 - In the virtual world (mobile learning)

Class room service



Multicampus: definition

- K.U.Leuven in itself
- + Kortrijk (satellite campus)
- + Association
- International (incl. development cooperation)
- Individual students in Open University context
- Social networking: virtual communities of practice and learning communities

Multicampus: activities

- Common learning materials (e.g. OER)
- Common (lab) infrastructure
- Common learning activities
- Common courses
- Common programs
- Distance education
- Virtual mobility
- Supporting activities

Our dual role

Not only:

Technological aspects

Teaching and learning support centre

Experiments and pilots

Well-defined, structured and embedded support

But also:

Pedagogical and organisational issues

Academic expertise and competence centre

Mainstream and sustainable implementation and support

Flexibility, openness, chaos, ad hoc support

Our vision

- An integrated, multidisciplinary approach with attention to media, organisational, pedagogical, and technological aspects,
- An academic profile, with own initiatives in research, education and scientific community service
- A project-based working culture with emphasis on quality in products, processes and personal relationships

Our position at K.U.Leuven

- Vice-president teaching
 - Main and overall responsibility
 - Focus on education
- Other:
 - Education support centres
 - DICTS (Directorate ICT & systems)
 - International Relations Office
 - Technical Services
 - Etc...

For whom?

- **For personnel at K.U.Leuven**
Teachers, education teams, central services,
AVNet team members
- **For students at K.U.Leuven**
Regular students, doctoral students, trainees,
working students
- **For the Association K.U.Leuven**
Students, teaching staff, managers

Our infrastructure

- video and sound studio
- 6 video editing suites
- multi camera production facilities
- recording facilities (OpenNet, lectures)
- videoconferencing (ISDN en IP) and interaction room
- streaming media server
- documentation and information centre
- AV rental service
- Social software?



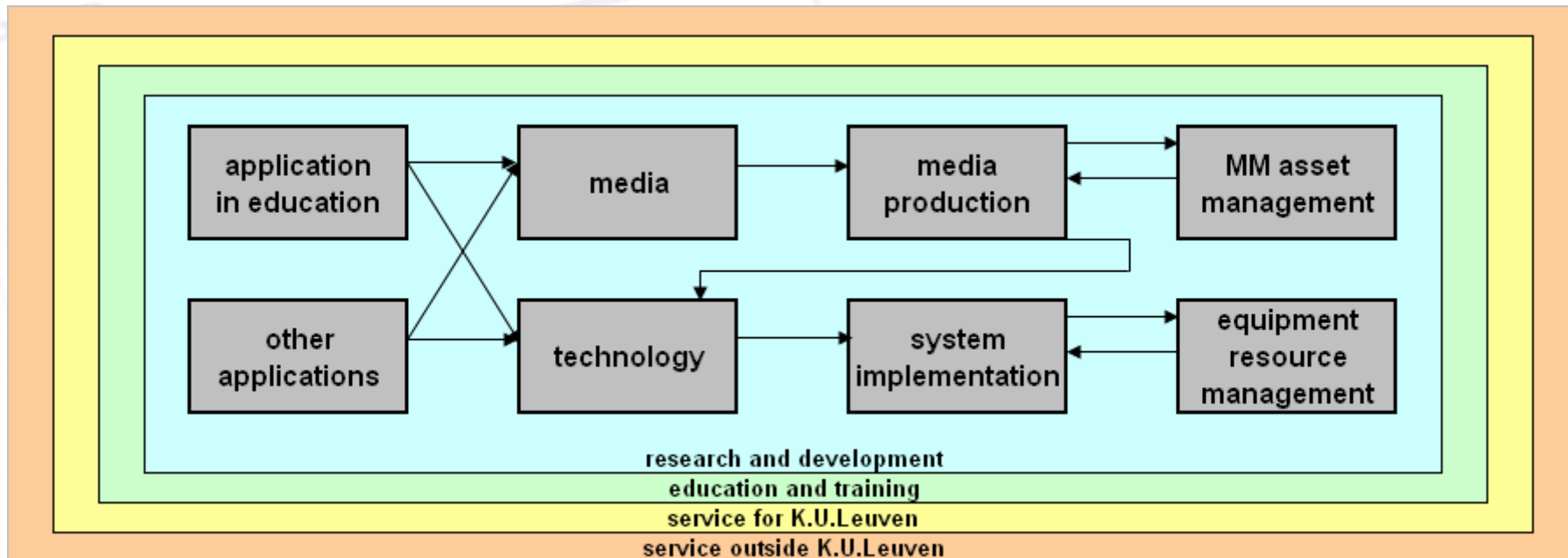
Our team (and competences)



Our three-tier support model

- 1. Do it yourself:**
We stimulate teachers (students) to produce AV/MM materials or to develop e-learning projects on their own: focus on simple and cheap solutions
- 2. We do it together:**
We offer teachers (students) advice and facilities (for free) at AVNet to work on their own with professional tools and our infrastructure
- 3. We do it for you:**
We deliver professional service to you (not completely for free) for more complicated projects

Our internal workflow



Our expertise

Through:

- Interactive MM production work
- Experiments and pilots with MM and NET
- Research, development and implementation projects
- Collaboration with other centres and departments
- Networking and representation
- Education and training
- Internships for students
- Knowledge sharing

Our projects

On virtual mobility:

- Being Mobile Handbook:
European Cooperation in Education through
Virtual Mobility - Best practices
<http://www.being-mobile.net/>
- REVE (Real Virtual Erasmus)
Virtual Mobility Manual:
<http://reve.europace.org/drupal/>
- VICTORIOUS: Student Mobility in a Digital World
<http://www.coimbra-group.be/victorious/>

Our projects (cont.)

On virtual mobility:

- VM-BASE: Virtual Mobility Before and After Student Exchange
<http://vm-base.europace.org/>
- VENUS (Virtual and E-mobility for Networking Universities in Society):
<http://www.venus-project.net/>
- SPUTNIC (Seminars Promoting the Use of Technologies for Networking and International Collaboration):
<http://sputnic.europace.org/welcome.php>

Our training: for whom?

Aimed at different target groups:

- New faculty members
- Teaching assistants
- Members of educational innovation teams
- Faculty members at large
- Students
- Partners (Association K.U.Leuven, development cooperation,...)

Our training offer

- Academic courses:
 - AV/MM in Toledo
 - Informatics and media
 - Video production
 - Multimedia Production Management
 - Webworkability
- Study counseling
Open University



Our training offer (2)

- On-line course:
 - www.avnet.kuleuven.be/toledo/en

The screenshot shows a Microsoft Internet Explorer browser window displaying the website <http://avnet.kuleuven.be>. The page title is "The use of moving images and sound in Toledo". The website has a blue header with the AVNet logo and the text "online course". The main content area is titled "2.2 Lighting" and contains text explaining the importance of lighting in video production. It includes three sub-sections: "2.4.1 Various light sources" and "2.4.2 Adjusting white balance". Each sub-section is accompanied by a photograph showing the effect of different light sources on a subject's skin tone. Below the text, there are icons for different light sources: AWB (Auto White Balance), Daylight, Neon light, and Artificial light. The browser's address bar shows the URL, and the taskbar at the bottom displays the Windows Start button and several open applications.

http://avnet.kuleuven.be - Video en geluid in Toledo - Microsoft Internet Explorer

File Edit View Favorites Tools Help

online course >>>

The use of moving images and sound in Toledo

AVNet

Nederlandse versie

Inhoud cursus

Inleiding

Cursus opbouw

1. Juiste media keuze

1.1 E-leren en Media

1.2 E-leren met Video

1.3 E-leren met Audio

1.4 E-leren met Animaties

1.5 E-leren met Multimedia

2. Opname

2.1 Beeldterminologie

2.2 Belichting

2.3 Geluid

2.4 Overzicht materiaal

3. Digitalisering

3.1 Video

3.2 Geluid

4. Montage

4.1 Voorbereiding

4.2 Project aanmaken

4.3 Materiaal inladen

4.4 Programmaopbouw

4.5 Montage

4.6 Montagesoftware

5. Compressie

5.1 Wat is compressie?

5.2 Aanbiedingswijze

5.3 Codes

5.4 Beeldfrequentie

5.5 Beeldformaat

5.6 Filter

5.7 Conclusie

6. Implementatie

6.1 Richtlijnen

6.2 Aanbieden in Toledo

6.3 Special features

2.2 Lighting

<< Previous | Next >>

Now that we have put everything into vision, there is another important external factor that can really influence the quality of the filmed material, namely lighting.

2.4.1 Various light sources

All in all we distinguish daylight, artificial light and neon light. For our every day perception there is little difference as our brains immediately adapt to these different light sources. Nevertheless, we have to be very well aware of the fact that these sources result in a big difference in colour in a video recording. Daylight has a blue hue, neon light is greenish and artificial light has a red shade. They each have their own colour temperature, 5600 K, 4100 K en 3200 K respectively.

Daylight without adjusting white balance

Neon light without adjusting white balance

Artificial light without adjusting white balance

2.4.2 Adjusting white balance

Let us now adjust the camera for these different colours. We have to calibrate the camera to the light on location. In professional terminology: we make a white balance, so that all white elements in the picture will really be recorded as white without annoying traces of colour.

Cameras are usually equipped with an automatic white balance. The drawback of this is that during the shooting, for example during a movement, colours will automatically change, which makes for a very annoying result. Therefore it is recommended to execute the colour adjustment manually before shooting. You can do this by choosing one of the preselections in the menu, indicated with clear icons that represent the different light sources (Auto/Daylight/Cloudy/Neon light/Bulb). You can also adjust the white balance manually by holding a white sheet of paper under the light on location and adjusting the balance with the appropriate key (see camera manual). Each time you go to a new location with a different kind of light, the white balance should be readjusted.

AWB

Daylight

Neon light

Artificial light

start

FO... De... Mic... W z M... 3 I... 15:56

Our training offer (3)

- Hands-on Training:

- AV/MM in Toledo
- Use of editing suites
- Use of the video and sound studio
- Use of AV/MM equipment in lecture halls
- Development of audiovisual learning materials
- Videoconferencing
- Mediatraining



Our training offer (3)

- Summer school
 - VENUS
- Seminars
 - VENUS
 - SPUTNIC
 - IMHO (Interactive Multimedia in Higher Education)
<http://www.impulscentrum.be/imho> (in Dutch)
- Internships
 - For Flemish and international students with different backgrounds

Our representation

- Within K.U.Leuven
 - ICTO, ICTS, Architecture cells, Network commission, Permanent Working group OOI-projects
- Within Association
- In Flanders
 - Ministerial Steering Committee Open Higher Education
 - Vlir Expert group ICT/OLL
- International networks
 - EuroPACE, EUNITE, NAP (EDEN), IAMS, ICEM, SEFI, CAWO

Our resources

- +35 team members (with contract)
 - + pool of working students, trainees, freelancers
- central financing (operations + infrastructure)
- partial financing by commissioners
 - 100% out-of-pocket cost +
 - 50% of personnel cost and infrastructure
- project finances
 - Flemish government
 - European Commission

Oh my God... How boring... I'll look if there is something else more exciting on another channel



Contact

More information?

- Link: <http://www.avnet.kuleuven.be/en/>
- Mail: info@avnet.kuleuven.be
- Call: +32-16-32.82.00
- Fax: +32-16-32.82.70
- Visit: Kapeldreef 62, 3001 Heverlee

(Thanks to the Toledo-team for their slides on
5 year Toledo)