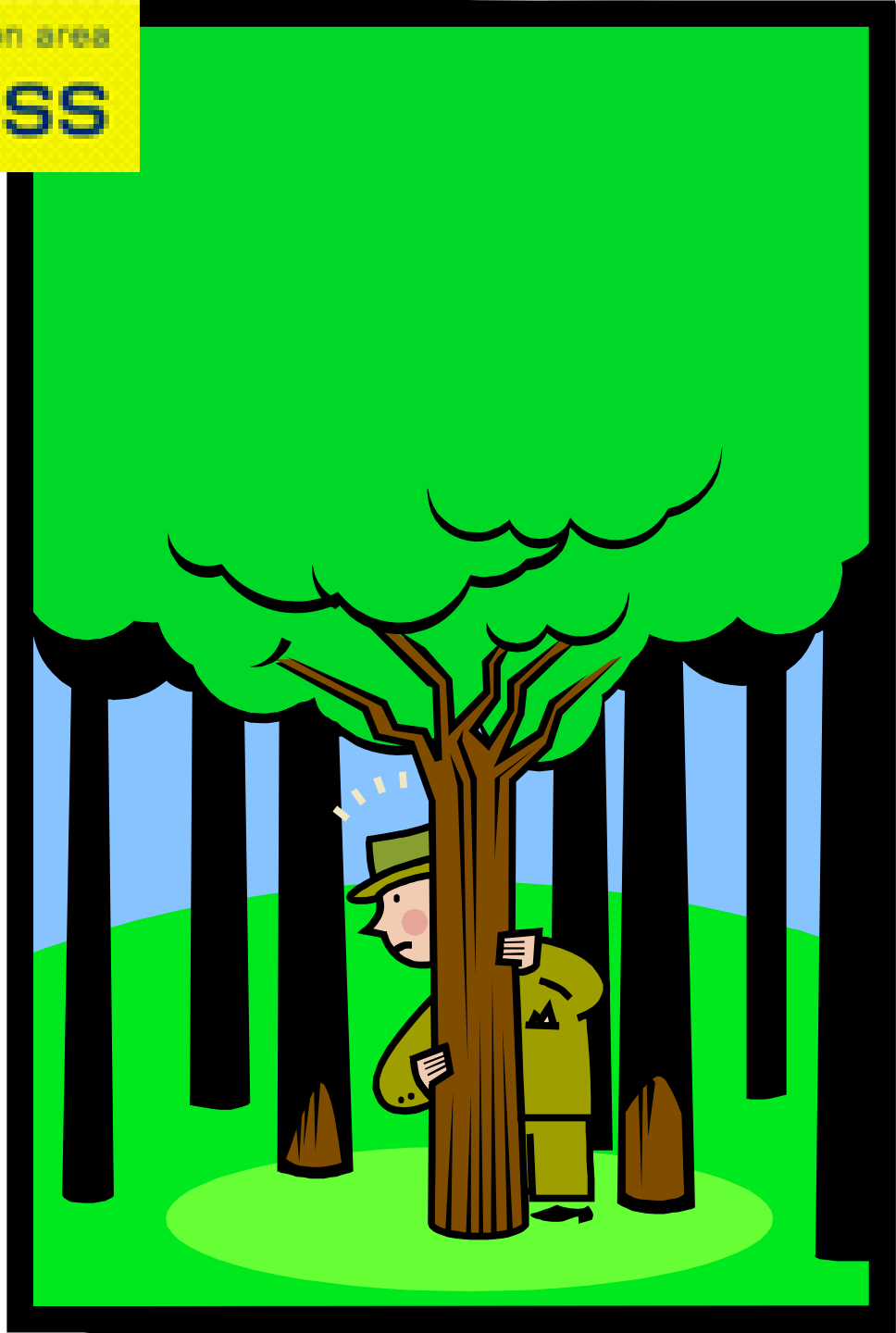
towards the european higher education area
bologna process

Development of Forest Science Curricula in Europe

Prof. Dr. Siegfried Lewark

SILVA Network
Annual Conference 2009

at Aristotle University
of Thessaloniki



What to present and discuss ...

- Bologna process – some background
- The state of the Bologna transformations
- Trends of development
- Conclusions

Die ältesten europäischen Universitäten bis zum 15. Jahrhundert
Uppsala
Aberdeen
Glasgow
Andrews
Kopenhagen
Rostock
Greifswald
Cambridge
Oxford
Mainz
Löwen
Leipzig
Köln
Erfurt
Trier
Würzburg
Prag
Krakau
Paris
Heidelberg
Ingolstadt
Freiburg
Tübingen
Poitiers
Basel
Wien
Padua
Fünfkirchen
Santiago de Compostela
Modena
Grenoble
Pavia
Ferrara
Florenz
Bologna
Toulouse
Perugia
Valladolid
Montpellier
Camerino
Coimbra
Salamanca
Barcelona
Rom
Lleida
Madrid
Neapel
Lissabon
Sevilla
Catania

European universities of the Middle Ages

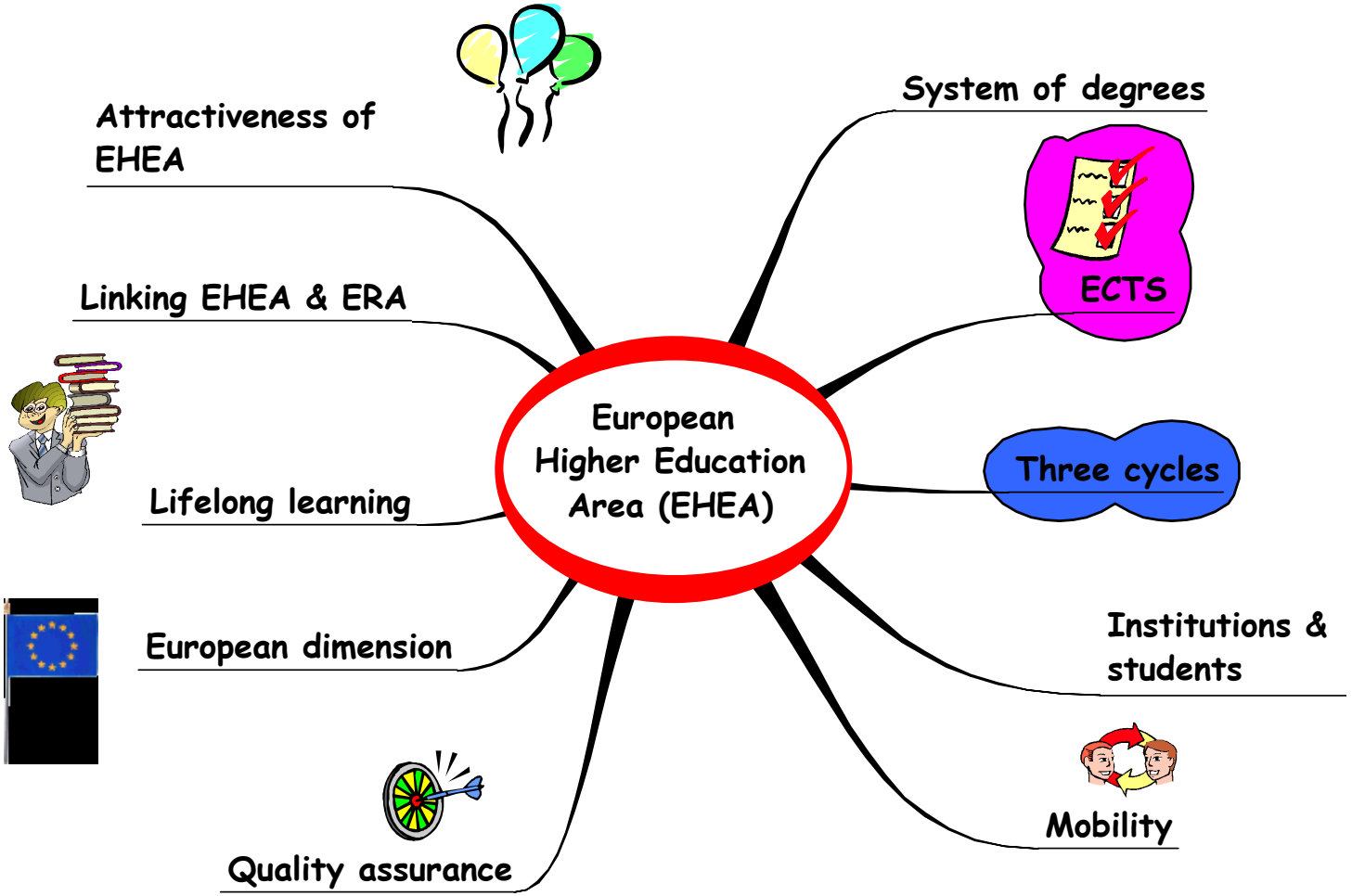
founded: year city country

	1088	Bologna,	*Italien*
um	1170	Oxford,	*England*
	1175	Modena,	*Italien*
um	1209	Cambridge,	*England*
	1218	Salamanca,	*Spanien*
	1222	Padua,	*Italien*
	1224	Neapel,	*Italien*
	1229	Toulouse,	*Frankreich*
	1240	Siena,	*Italien*
	1253	Paris,	*Frankreich*
	1254	Sevilla,	*Spanien*
	1276	Perugia,	*Italien*
	1289	Montpellier,	*Frankreich*
	1290	Coimbra,	*Spanien*
	1290	Lissabon,	*Portugal*
	1297	Lleida,	*Spanien*

- **Bologna process**

  The Bologna conference in 1999 initiated far-reaching changes of the complete system of higher education in Europe and started a process of a dimension not known hitherto.

- *“Ministers take into due consideration the conclusions of the European Councils in Lisbon (2000) and Barcelona (2002) aimed at making Europe ‘the most competitive and dynamic knowledge-based economy in the world, capable of sustainable economic growth with more and better jobs and greater social cohesion’ and calling for further action and closer co-operation in the context of the Bologna Process.”*


European Higher Education Area (EHEA)
Attractiveness of EHEA
Linking EHEA & ERA
Lifelong learning
European dimension
Quality assurance
System of degrees
ECTS
Three cycles
Institutions & students
Mobility

What to present and discuss ...

- Bologna process – some background
  - The state of the Bologna transformations

Bologna conferences

- 1997 Paris, Sorbonne
- 1999 Bologna
- 2001 Prague
- 2003 Berlin
- 2005 Bergen
- 2007 London
- 2009 Benelux

Bologna Process - Main Documents - Windows Internet Explorer
http://www.ond.vlaanderen.be/hogeronderwijs/bologna/documents/
Datei Bearbeiten Ansicht Favoriten Extras ?
Frankfurter Rundschau - Na... | Bologna Konferenz Leuven -... | Bologna Process - Main ... | Bologna Process Stocktaking | Eurydice - Network on educ...

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The official Bologna Process website 2007-2010

News
Calendar of Events
About the Bologna Process
Participating Countries and Organisations
Bologna Work Programme / Bologna Action Lines
Bologna Seminars
Main Documents
2009 Ministerial Conference
2009 Bologna Policy Forum
2010 Ministerial Conference

bologna process
benelux

Main documents

Documentation of the 2009 Ministerial Conference

Ministerial Declarations and Communiqué

Lisbon Recognition Convention

Standards and Guidelines for Quality Assurance in the European Higher Education Area (ESG) - adopted by Ministers in Ma

A Framework for Qualifications in the European Higher Education Area - adopted by Ministers in May 2005

A Framework for Qualifications in the European Higher Education Area - background report

Strategy for the EHEA in a global setting - adopted by Ministers in 2007

Report on the Bologna Process in a global setting - background report

Other relevant documents

Booklet on Bologna Process and EHEA: web version, print version, professional printing

General reports prepared for ministerial conferences

Stocktaking reports 2005, 2007, 2009

National reports 2005, 2007, 2009

EUA Trends reports

Bologna with Student Eyes 2005, 2007, 2009

Eurydice: Focus on the structure of higher education in Europe. National trends in the Bologna Process 2006/07

Working group reports 2007

Internet
Start | 9 Microsoft ... | 6 Internet ... | Skype™ - sie... | 4 Windows ... | 6 Microsoft ... | PC - Bibliothek | 11 Adobe R... | INBOX - Opera

Bologna Scorecard

GERMANY

> DEGREE SYSTEM <

1. Stage of implementation of the first and second cycle
2. Access to the next cycle
3. Implementation of national qualifications framework

> QUALITY ASSURANCE <

4. National implementation of *Standards and Guidelines for QA in the EHEA*
5. Stage of development of external quality assurance system
6. Level of student participation
7. Level of international participation

Bologna Scorecard

NORWAY

> DEGREE SYSTEM <

1. Stage of implementation of the first and second cycle
2. Access to the next cycle
3. Implementation of national qualifications framework

> QUALITY ASSURANCE <

4. National implementation of *Standards and Guidelines for QA in the EHEA*
5. Stage of development of external quality assurance system
6. Level of student participation
7. Level of international participation

Bologna Scorecard

GREECE

DEGREE SYSTEM

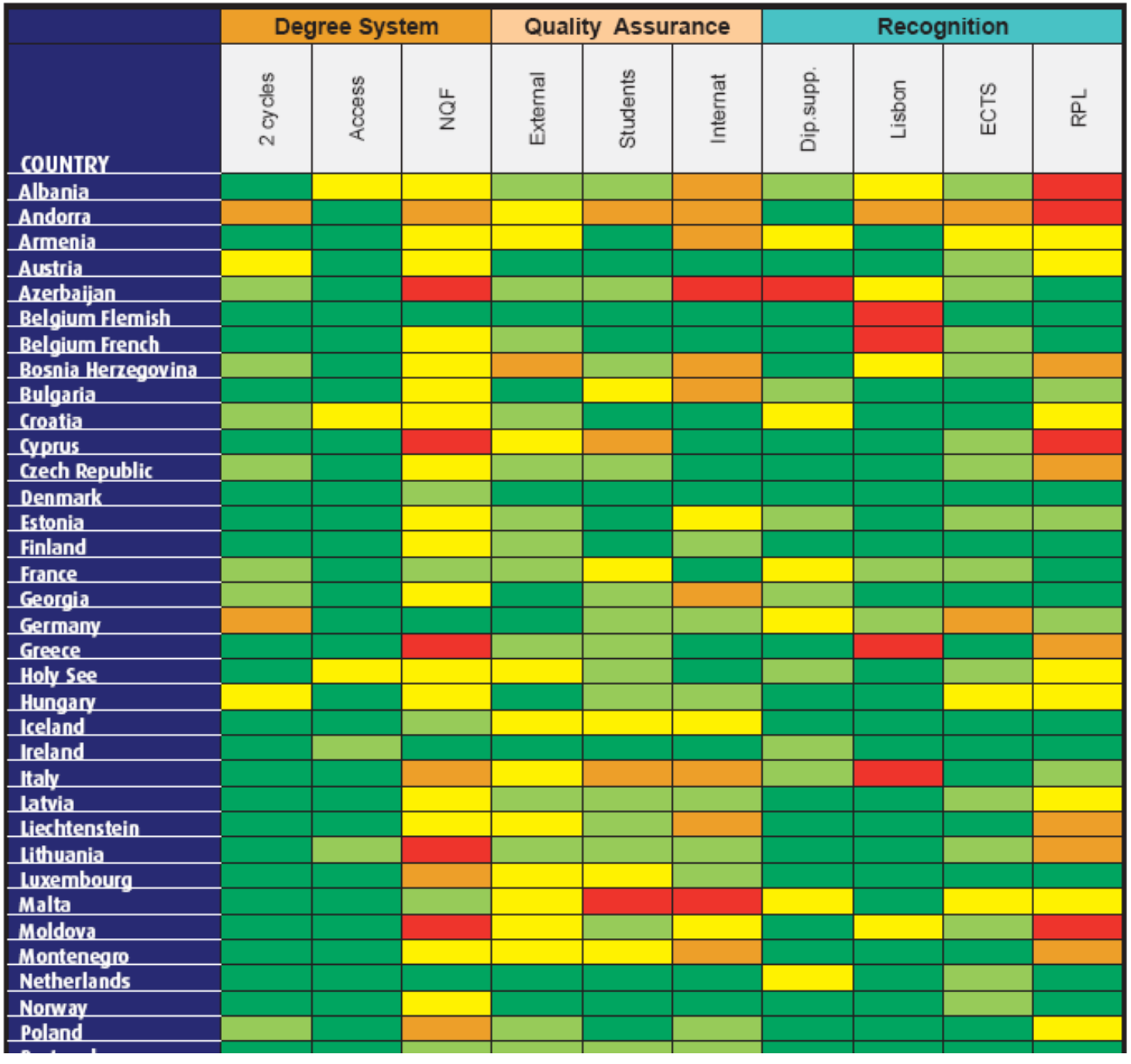
1. Stage of implementation of the first and second cycle
2. Access to the next cycle
3. Implementation of national qualifications framework

QUALITY ASSURANCE, ESG

4. Stage of development of external quality assurance system
5. Level of student participation in quality assurance
6. Level of international participation in quality assurance

RECOGNITION

7. Stage of implementation of diploma supplement
8. National implementation of the principles of the Lisbon Recognition Convention
9. Stage of implementation of ECTS
10. Recognition of prior learning

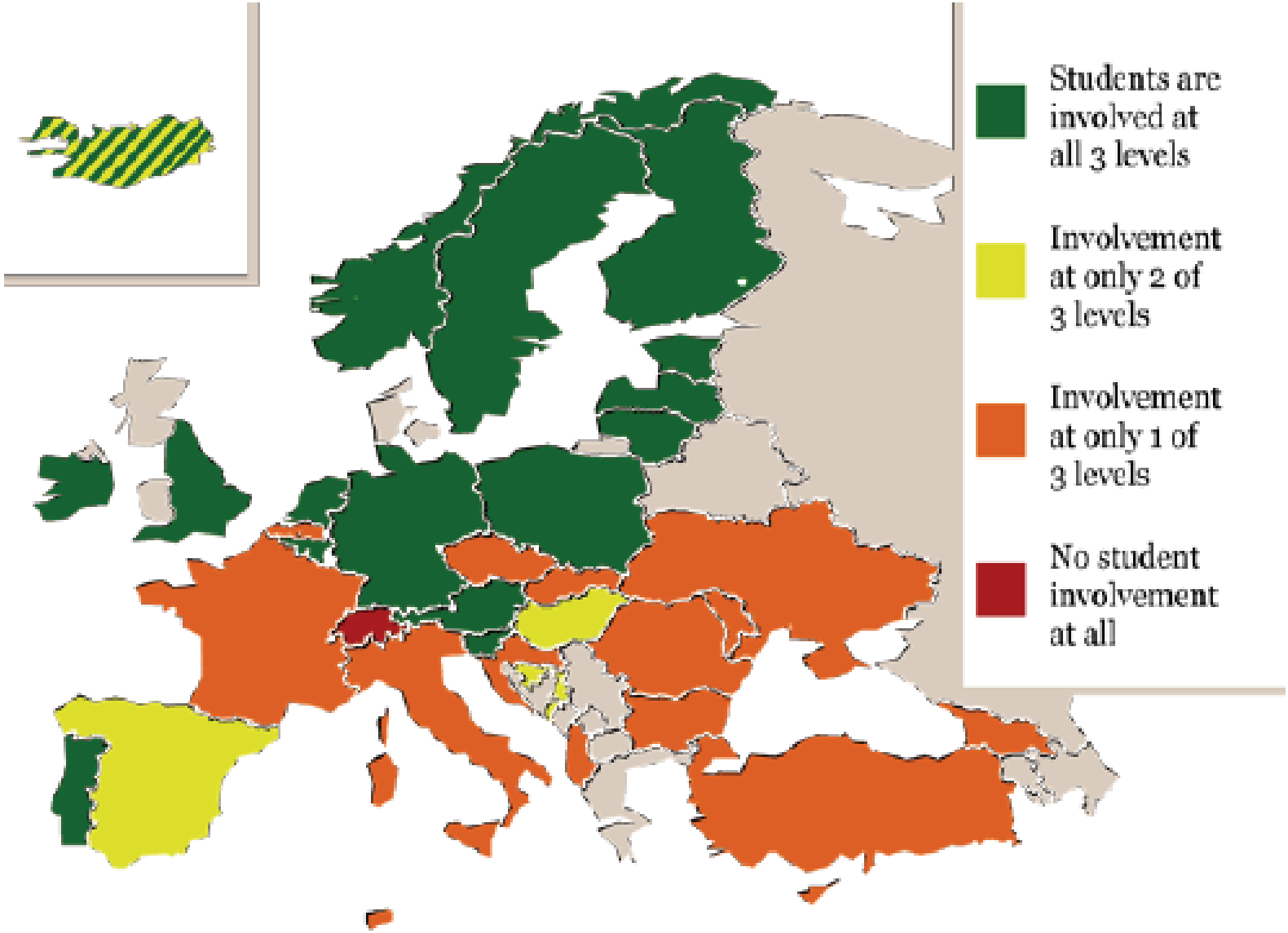

Degree System
Quality Assurance
Recognition
COUNTRY
2 cycles
Access
NQF
External
Students
Internat
Dip.supp.
Lisbon
ECTS
RPL
Albania
Andorra
Armenia
Austria
Azerbaijan
Belgium Flemish
Belgium French
Bosnia Herzegovina
Bulgaria
Croatia
Cyprus
Czech Republic
Denmark
Estonia
Finland
France
Georgia
Germany
Greece
Holy See
Hungary
Iceland
Ireland
Italy
Latvia
Liechtenstein
Lithuania
Luxembourg
Malta
Moldova
Montenegro
Netherlands
Norway
Poland

BOLOGNA WITH STUDENT EYES

2007 EDITION

ESIB - The National Unions of Students in Europe

Fig.3: map student participation in QA



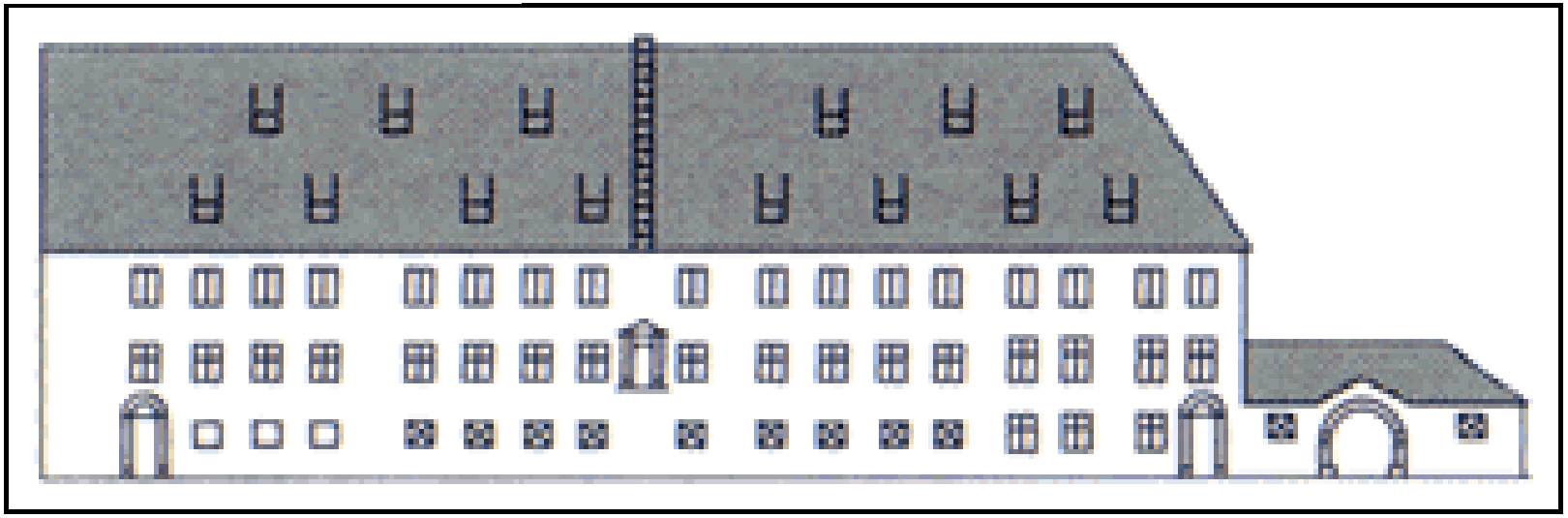
•Objectives and reality

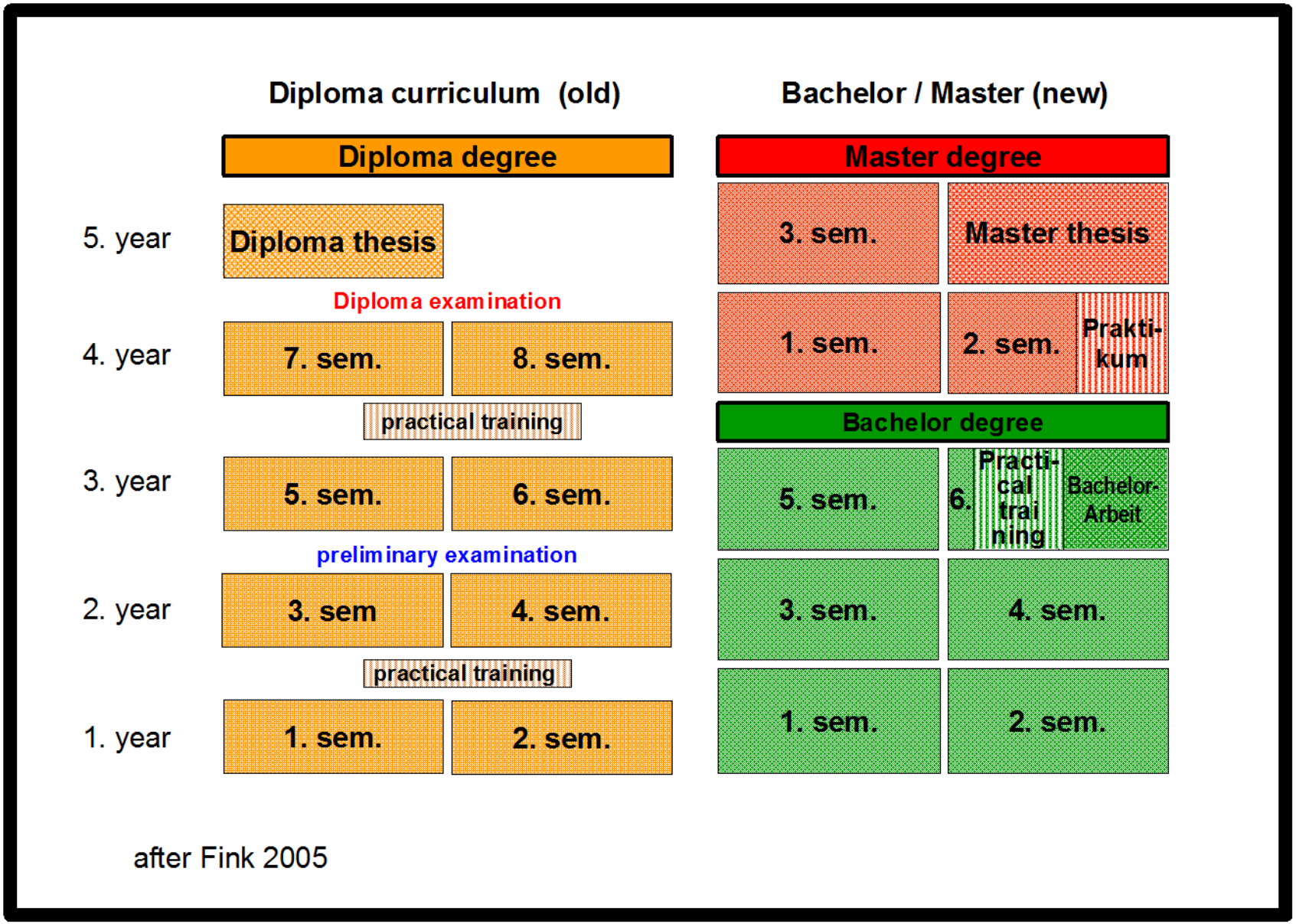
•A main objective of the Bologna process is shortening the study time for the majority of students, who would be ready for the labour market with a BSc, whereas the others would go on with a master’s programme or come back for a master’s programme after some years of occupational experience.

In reality it seems that the labour markets are not well prepared for BSc graduates in many European countries.

The example of the forestry & related curricula at the University of **Freiburg**

University from 1457
Faculty of Forest Sciences 1921
Faculty of Forest and Environmental Sciences 2002
by merging with Geo Sciences Faculty




Diploma curriculum (old)
Bachelor / Master (new)
Diploma degree
Master degree
5. year
Diploma thesis
3. sem.
Master thesis
Diploma examination
4. year
7. sem.
8. sem.
1. sem.
2. sem.
Prakti-kum
practical training
Bachelor degree
3. year
5. sem.
6. sem.
5. sem.
6.
Practi-cal trai ning
Bachelor-Arbeit
preliminary examination
2. year
3. sem
4. sem.
3. sem.
4. sem.
practical training
1. year
1. sem.
2. sem.
1. sem.
2. sem.
after Fink 2005

Master

4 semesters

(new in 2008)

120 ETCS credits

- Geography of Global Change
- Hydrology
- **Forest Sciences**
- Renewable Energy Management

Master

4 semesters

(start in 2005)

120 ETCS credits

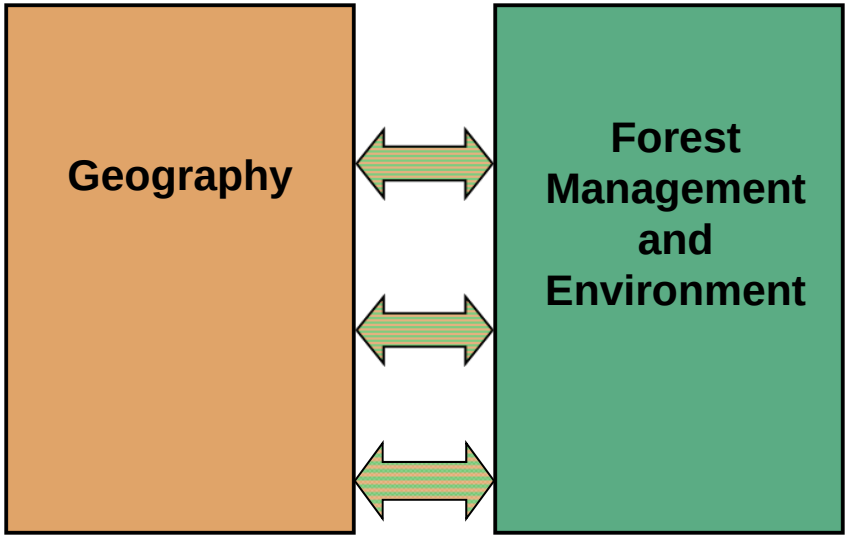
- Forest Ecology and Management
- European Master of Forestry
- Environ-mental Governance

Bachelor

6 semesters

(start in 2005)

120 ETCS credits



Minor fields of study (within faculty of forestry and environmental sciences) (40 ETCS credits):

e.g.

- **Nature protection and landscape management**
- **Wood and bioenergy**
- **International forestry**
- **Meteorology and climatology**
- **or minor fields outside faculty)**

plus transferable skills courses (20 ETCS credits)

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- Bologna process – some background
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The Bologna process

- some trends in forestry curricula

- diversification
- reform of reform: 4 years BSc?
- third cycle: PhD
- internationalisation
- centralized functions
- Alumni taken in view

some conclusions ...

- shape the process!
- see the graduates outside of forestry
- learner in the center
- we are stronger together

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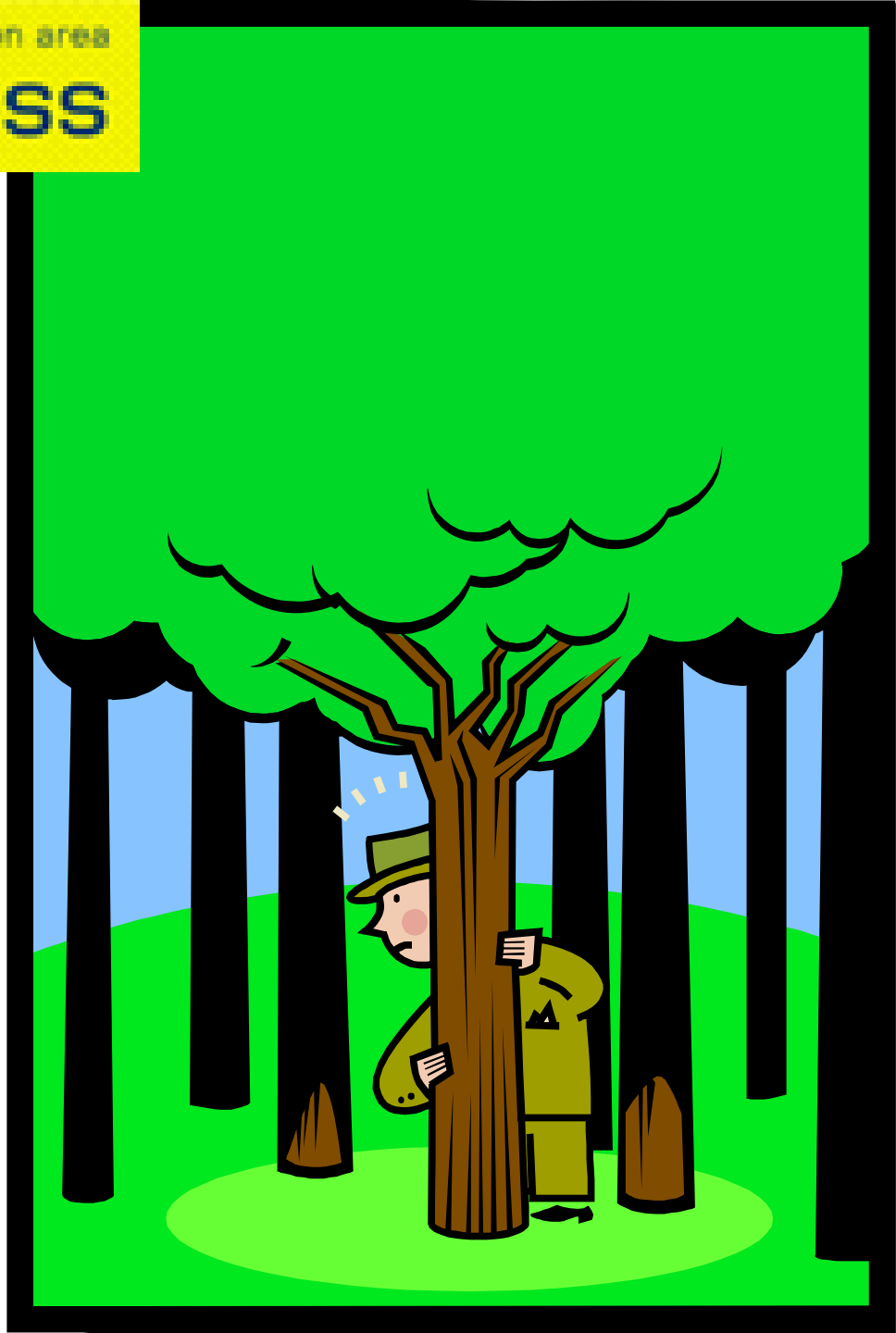
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