

CEN/ISSS Workshop on ICT-SKILLS

e-Certification in Europe

ILB 2° presentation

Roberto Bellini

Brussels

January, 21st 2009



Positioning



Characteristics of e-certification at project start up

- Certification jungle ?
- Parallel universe ?
- Vital and fertile eco-system supporting the parent labour and product markets ?

The universes converge

- SAP University Alliance
- Portugal MoU – Cisco Network Academy
- Holland MoU for secondary schools
- Italy – EUCIP Syllabus in Institutions, Companies, Universities, Professional Schools
- UK – public funding for industry certifications
- Ireland – Higher Education & Training Awards Council
- UNESCO – ICT Competence Framework for Teachers
- Scotland – Digital Media & ICT Vendor Alliance
- US Department of Defense use Vendor Certification

... and lots of others...

Actions

Action 1.	Update e-certification statistics
Action 2.	Country maps of main organisations involved in e-certification
Action 3.	Methodology for positioning certifications onto emerging e-Competence Framework
Action 4.	European Model for e-certification schemes

Action 1: Metrics

- Update HARMONISE data (at country and European level)
- Standardised metrics
- Top 10 to 12 certifications
- Seven large countries
- Data sheet
- Mid 2008, and again mid-2009
- Annual process

Microsoft
Cisco
Novell
Sun
IBM
ISEB
ITIL
Eucip
SAP
CompTIA
Oracle
ISACA

UK	Germany	Italy
Poland	France	Spain
	Netherlands	

	2000 Adelman	Mid 2007 Harmonise	Mid 2008	Mid 2009
Cisco	35	600	700	
Microsoft	1048	3200	4351	
IBM		800		
Novell	563			
Oracle	24	350	440	
HP		130	130	
SAP		185		
Sun		456		
Other vendors	52		50 +	
CompTIA	166	800	1000	
CISSP	1.5	50	60	
ISEB		220	279	
EXIN		350	456	
ISACA		56	69	
EUCIP		1.5	2	
Other	68			
TOTALS	1957	7198	Est: 9000	

**Number of
certifications
worldwide**

000s

3.7 fold
growth
2000 to 2007

Source up to now

- The web
- Informal relations

Iceberg effect



- Test-to-train ratio 20 %
- Pass ratio 30 to 50 %
- These metrics substantially understate total volume of learning

Action 2: Country Maps



United Kingdom



Germany



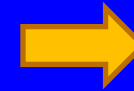
Italy



Ireland



Belgium



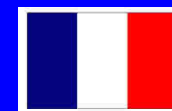
Poland



Netherlands

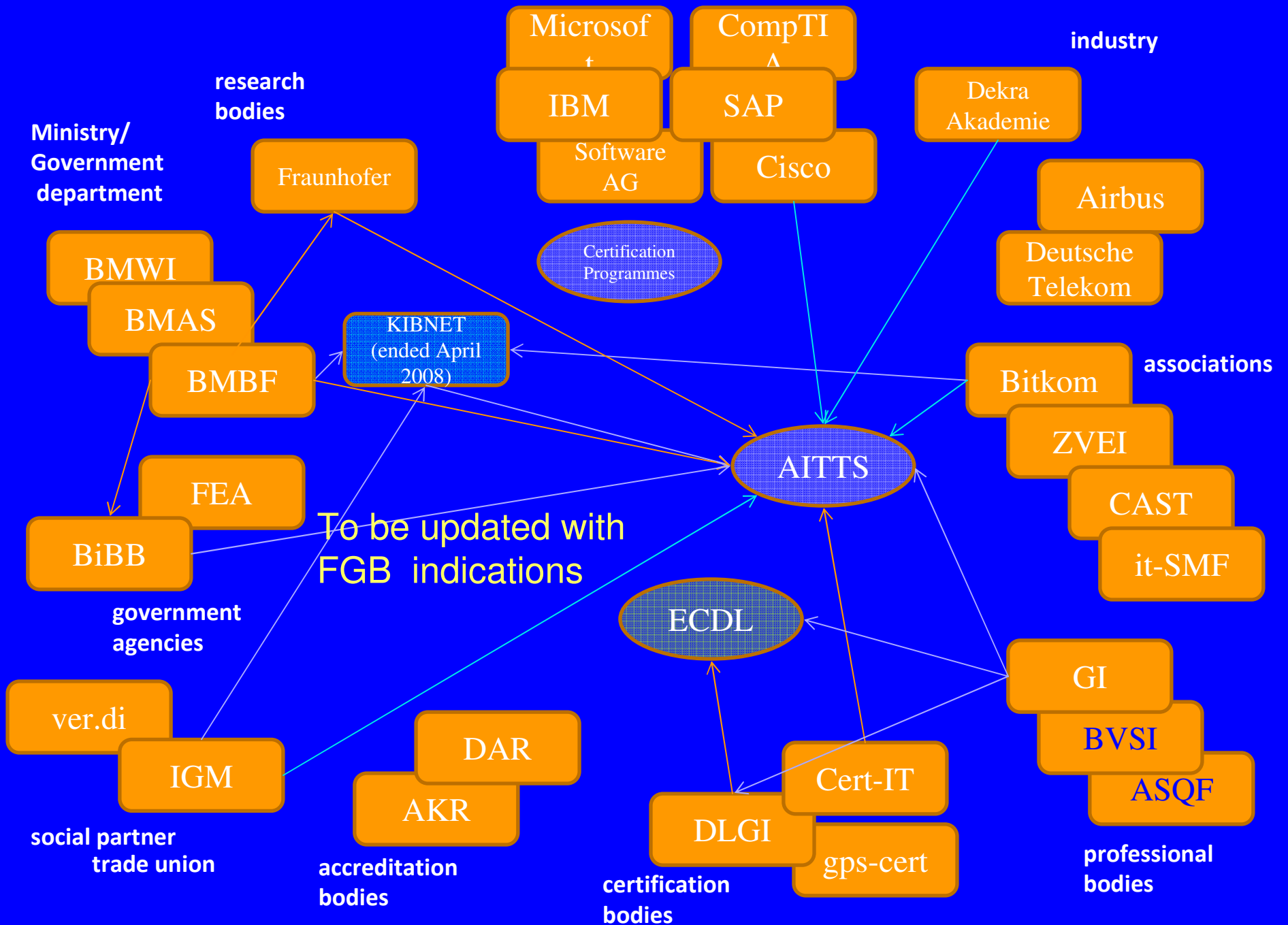


EU

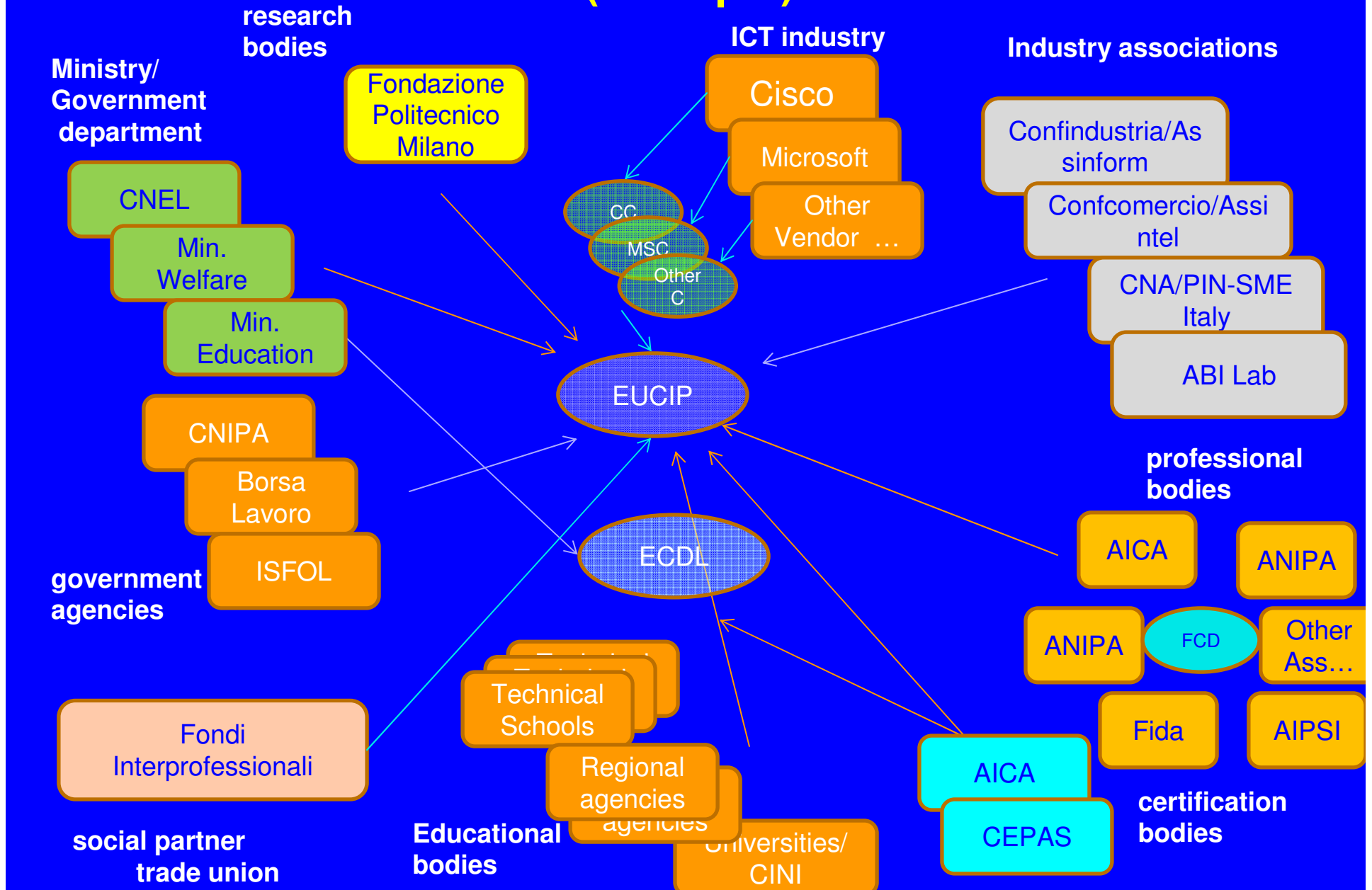


France

Map of German Organisations in e-Certification



Map of Italian Organisations in e-Certification (example)



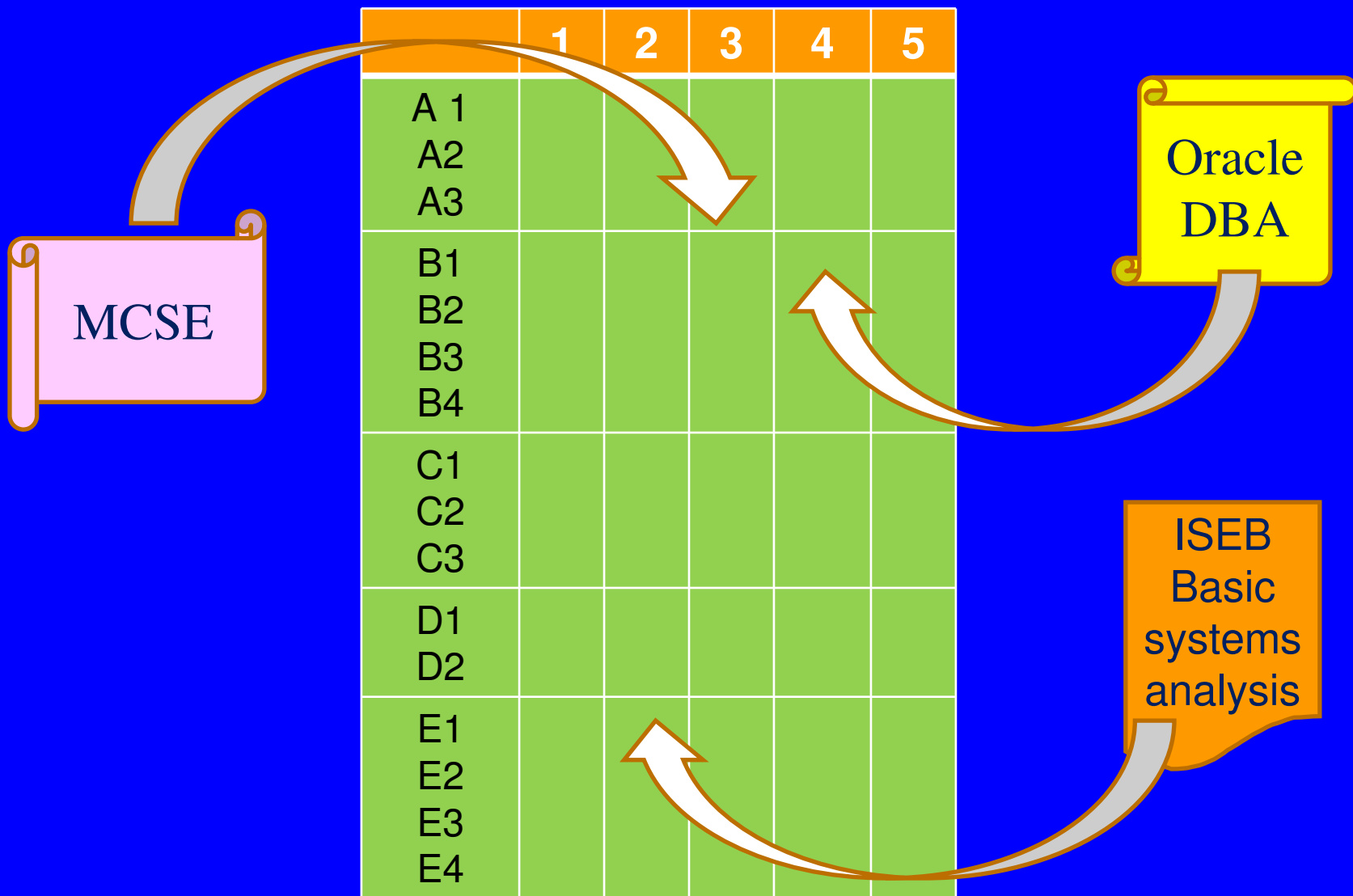
Action 3: Positioning e-Certification

- Methodology for positioning e-certifications against new e-Competence Framework (and hence to EQF)
- Mapping results for 2-3 worked examples

Work with Framework and Career Service projects

Most difficult task: obtain trustworthy information

Examples of positioning to e-CF



Action 4: European Model

~~Regulation~~

~~Laissez-faire~~
certification jungle

**European Model
for e-Certification**



Work with e-certification suppliers and all stakeholders

Elements of the model

“Standard” / Guidelines / Principles

- Trustworthy means of positioning individual qualifications (and justifying that)
- Quality assurance of the qualification (eg ISO 17024)
 - Maintaining the syllabus
 - Marking and verification
- Scheme for annual collection of market statistics
- Clear information to prospective candidates
- “Open” – allow entry from other schemes
- “Recognition”

CEN/ISSS Workshop on ICT-SKILLS e-Certification in Europe

**European
Model
for
e-Certification**

Dissemination

Previous Focus Groups

- 1.UK, BCS, London, 10th July 2008
- 2.Italy, CNEL, Rome, 11th September 2008
- 3.Germany, GI, Bonn, 19th January 2009

Other presentations

- 1.World Computer Congress, Milan, Sept 08
- 2.European e-Skills Conference, Thessaloniki
- 3.European Informatics, Zurich, 10 Oct 08
- 4.I-PROF 09, Arnhem, February 09

www.ict-certification-in-europe.eu

Some initial results

- Statistics: ILB involvement
- Country Maps: awareness and shared view per country
- Certification Positioning: indications to be processed
- Model: indications

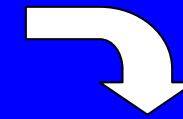
Presentation of the questionnaire for
Certification Market Data
at the attention to the members of
ILB Certification Council

Integration of ISO standards



CEN 15893:
2008

e-
Competence
Framework



CEN xxxx
2009

e-
Certification



ISO 24773:
2008

Certification
of Sw Eng
Professionals



NP 17024

ISO 17024:
2003

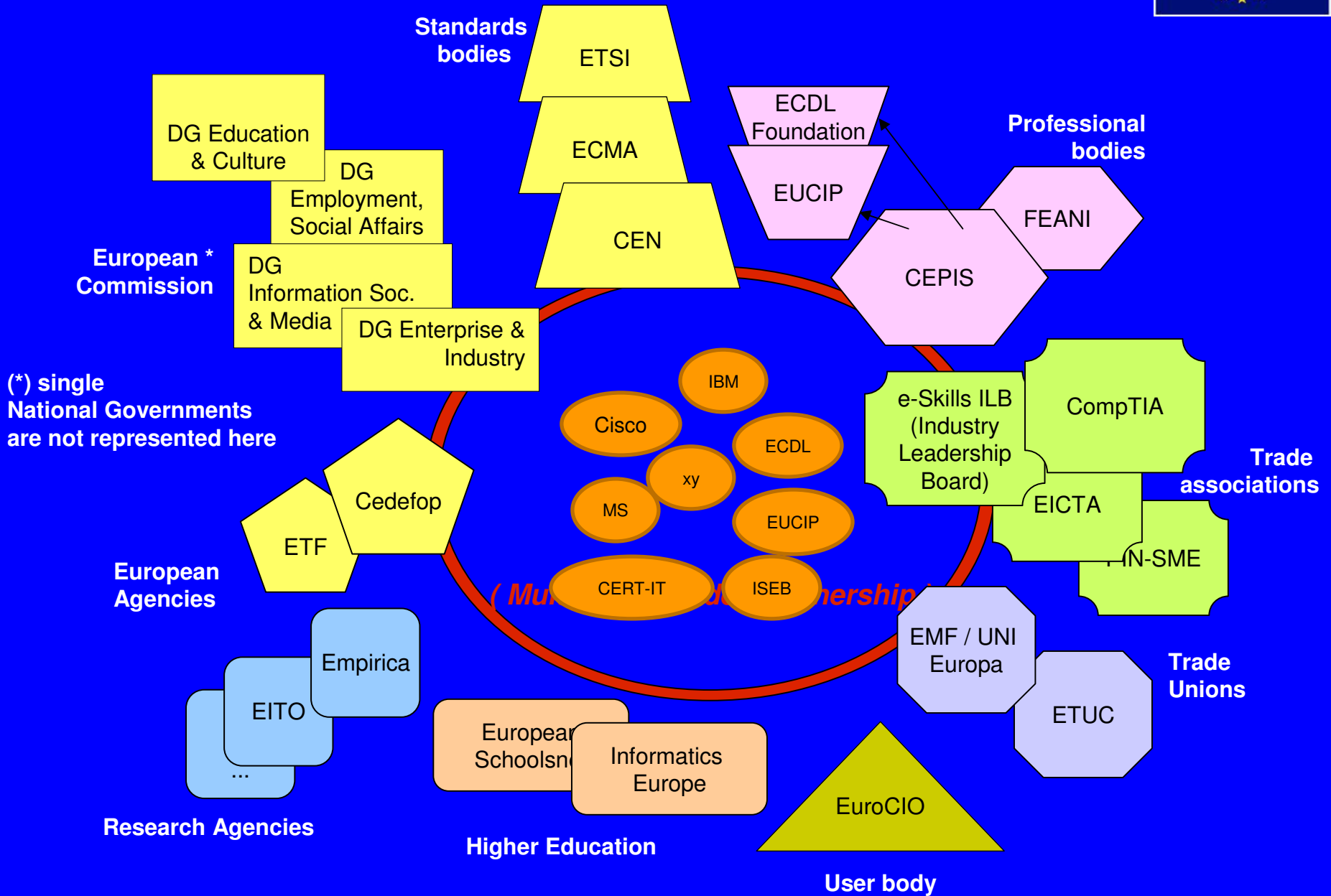
General
requirements

ISO
19759:
2005

SWEBOK



Map of European organisations in e-Certification



Purpose of the model

- To “articulate” individual qualifications against e-Competence Framework
 - By level and by topic
 - And thus against EQF too
- Help learners and employers to select appropriate qualifications
- Improve value and recognition of qualifications
- Hence increase the market by improving inter-operability

Who is the model for ?

- Certification providers
 - Vendor, eg Microsoft, Oracle, Cisco
 - Neutral, eg CompTIA
 - Independent, eg ISEB, EUCIP
- Certification users
 - Practitioners
 - Students
 - Teachers

**4. and Last Focus Group
in conjunction with ILB Certification Council**

European Level, focused on Vendor
Certifications

Brussels, 22nd April 2009 or 23rd April 2009