

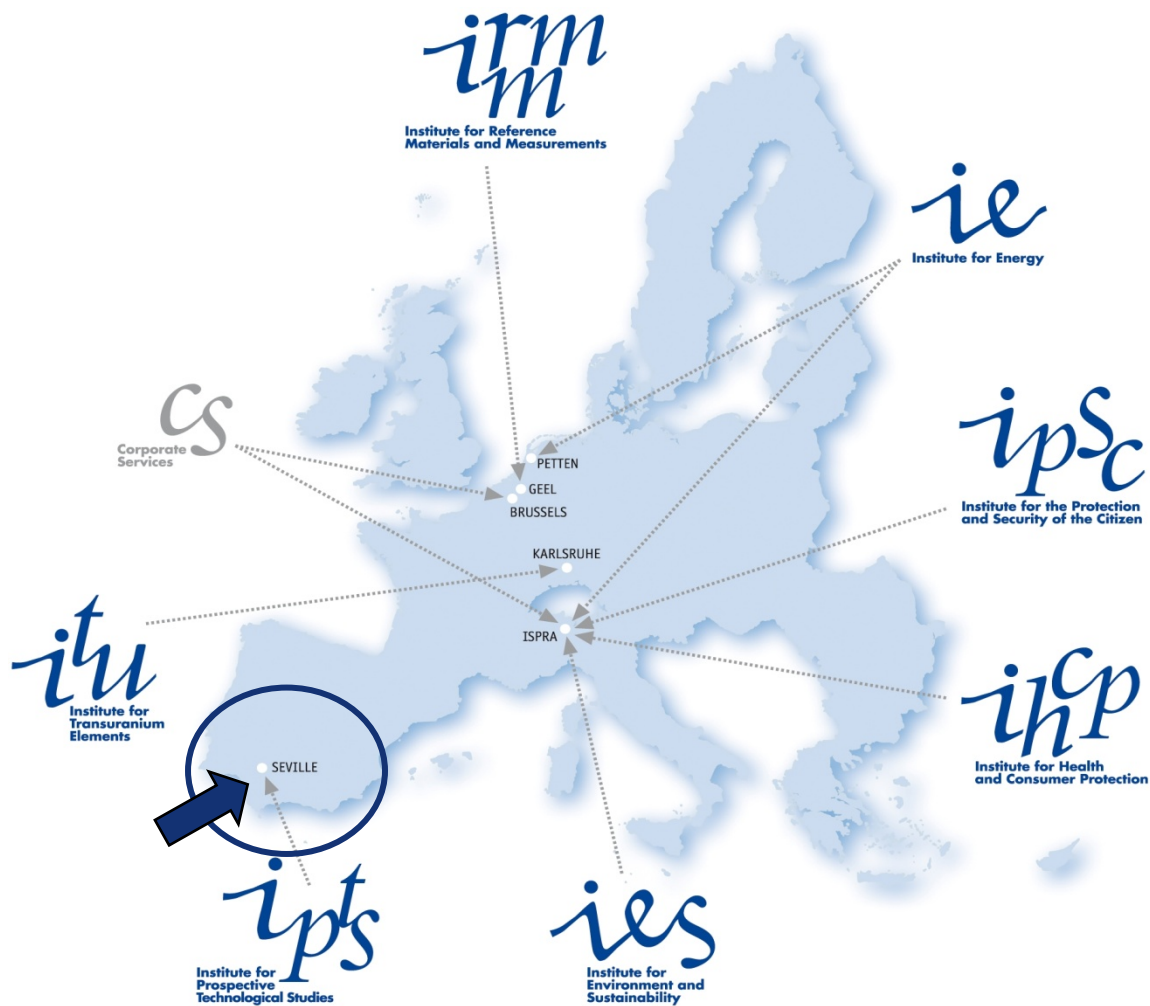
New Learning for a New Society: Challenges and Opportunities for Europe

Models of ICT Integration in Education
Spanish Presidency conference, 16-18 March 2010
www.eu2010.es

Yves Punie,
C. Redecker, A. Ferrari & R. Cachia

Joint Research Centre (JRC)
Institute for Prospective Technological Studies
The European Commission's Research-Based Policy Support Organization





Part of Joint Research
Centre of the EC

IPTS: Research Institute
supporting EU policy-making
on socio-economic, scientific
and/or technological issues

**Have you been
paying attention?**

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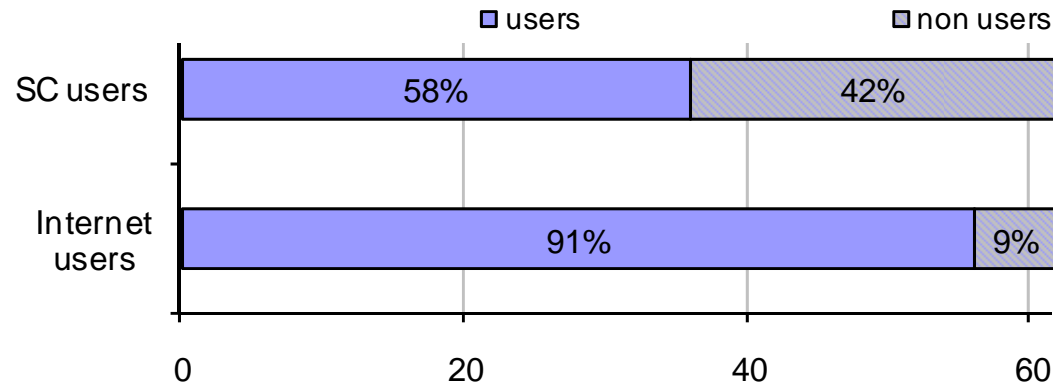
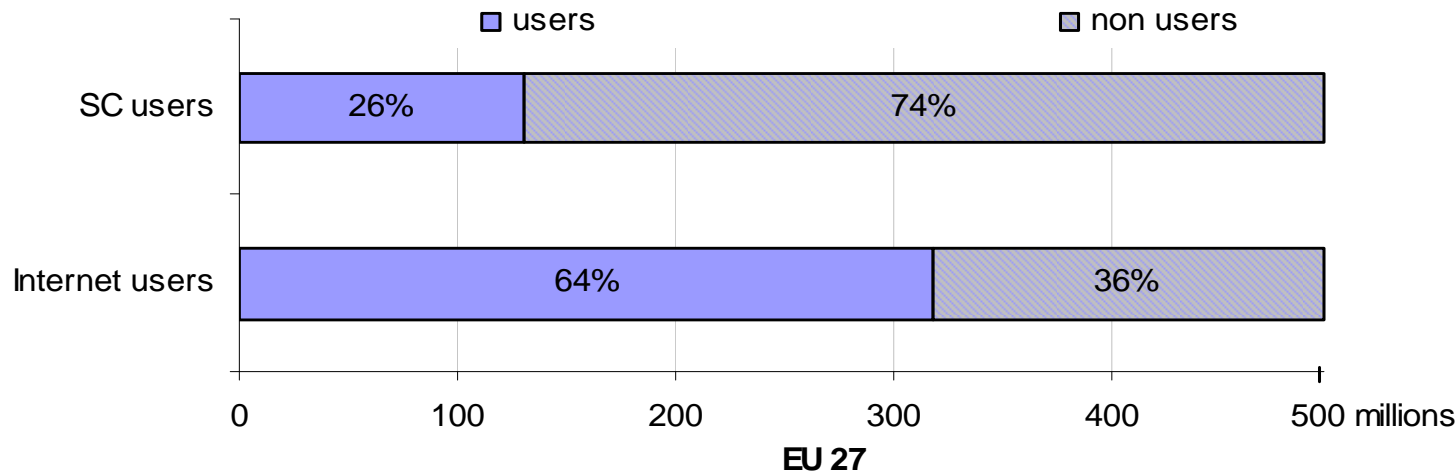
http://www.youtube.com/watch?v=gT2E2F0DmyE&feature=channel_page

In terms of numbers

- > 1 billion Hits a day on **YouTube** (9 Oct 2009, BBC Online)
- > 400 million **Facebook** users worldwide; > 120 million in Europe; ~ 50% of active users log on daily (2010, Facebook)
- > 61 million **Netlog** users in Europe, in 20 languages, > 150 million visitors per month, 80% between age 14 & 25 (2010, Netlog)
- 14 million articles on **Wikipedia**, > 3 million in English, ~240 active language versions, 1 million contributions, 85.000 people contributed 5 times or more in Sept09 (Wikipedia)

In terms of uses: % of active internet users worldwide (03/2009 Social Media Tracker)

- 80% watch **video** clips online
- > 70% visit a friend's **social networking** page
- 70% read blogs, 46% left a comment and 35% started own **blog**



Young (15-24)

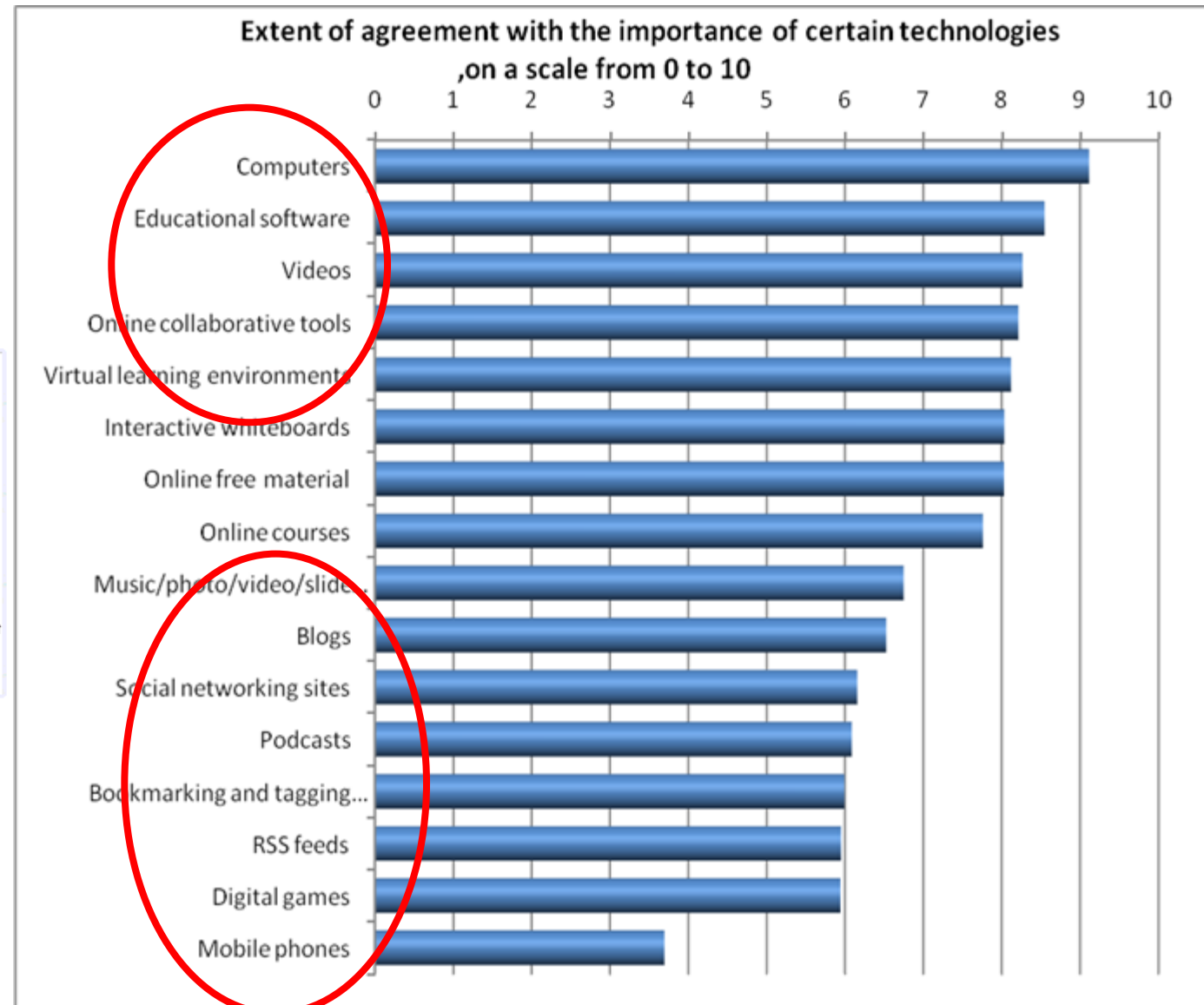
millions

=> Social Media part of mainstream Internet use

=> Implications for learning and E&T

Source: IPTS estimation based on EUROSTAT 2008 & Flash EB N.241

Untapped potential of



62% received training in **innovative** pedagogies

41% received training in **creativity**

IPTS-EUN survey with Teachers in Europe,
Oct. 2010

36% received training in **ICT**

> 50%: Bulgaria, Cyprus, Czech Republic, Greece, Latvia, Malta, Romania, Slovakia

25% and below: Belgium, Germany, Portugal, Spain, Sweden



2010 ICT Cluster Report, DG EAC

“Teacher Education and Training: a changing mindset”

- Turn Digital Competence into a key priority for TT
- Conceive teacher as a learner (also informal learning)
- Focus on ICT-enabled innovative pedagogies and new skills

LEARNING,
INNOVATION and ICT

*Lessons learned by the ICT cluster
Education & Training 2010
programme*

Content: New resources for learning (access and diversity)

E.g. Wikipedia, Academic Earth, Videolectures.net, RSS, bookmarks, etc.

Access to information and knowledge becomes **less exclusive** and **less hierarchical**

Learning shifts from know-what **to know-how** and **know-where**

Creation: Constructionalist learning becomes real

E.g. Blogs, Youtube, TeacherTube

Learners become **co-creators** of meaning (empowerment)

87% of teachers (prim. educ): pupils are more **motivated** and **attentive** with ICT (STEPS 2009)

Connecting: Learning through connecting

E.g. language learning, LinkedIn, Wikiversity, eTwinning

Emergence of new **informal** learning networks and communities

More **relevant** and **flexible** learning opportunities (Cf. Lifelong Learning)

Collaborating: learning through collaboration (not instruction)

E.g. Wikipedia, Wikiprojects, blogs, eTwinning

More active **participation** and meaningful learning

=> More active, participative, meaningful, inclusive and innovative learning

Print this page   Search English



[Forgotten your password?](#)

 **NEWS** **INSPIRATION** **PROFESSIONAL DEVELOPMENT** **TOOLS** **AWARDS** **HELP**

Welcome to eTwinning
The community for schools in Europe
[★ Get started ★](#)

REGISTER NOW!

Today in eTwinning
There are:

-  64768 active members
-  1704 active projects

Latest member:

-  **Vannia Gutarra**
Gesamtschule Bahrenfeld
Germany

Latest project:

-  **Gesundes Essen. Ja klar, aber doch lecker!**

What does creativity mean to you?
15.09.2009
 Let us know how you perceive the role of creativity in education and you could win a trip to the European Union's Creativity conference in Stockholm.

A new TwinSpace!
15.09.2009
 A new version of the TwinSpace has now been launched for eTwinning projects.

Browse schools, people, projects

By subjects **By location**

- Art
- Citizenship
- Environmental
- Education
- Foreign
- Languages
- Geography
- History
- Informatics / ICT
- Language and Literature
- Media Education
- Music
- Natural Sciences
- Social Studies / Sociology



 **Creativity and Innovation**
European Year 2009

 eTwinning is part of Comenius, the EU programme for schools

<http://www.etwinning.net/en/pub/index.htm>

- 68.859 registered schools
 - 90.823 members
 - 4.832 active projects
 - 10.260 schools participating in projects
- Source: eTwinning, March 2010

Social Language Learning - Online!

- Learn languages online at your own pace with fun language lessons
- Connect with foreign language partners around the world



I Speak:

I am Learning:

Get Started ▶

<http://www.livemocha.com/>

5 million members (March 2010)

> 220 countries

> 100 different languages



[anavarrete](#) 26 Female From Mérida Mexico

Teach: [Spanish](#) ||| [English](#) |||

Learn: [Japanese](#) ||| [Portuquese](#) ||| [French](#) |||



[munna](#) 26 Male From Hyderabad India

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Learn: [Japanese](#) ||| [Arabic - Middle Eastern](#) ||| [Chinese - Mandarin](#) |||

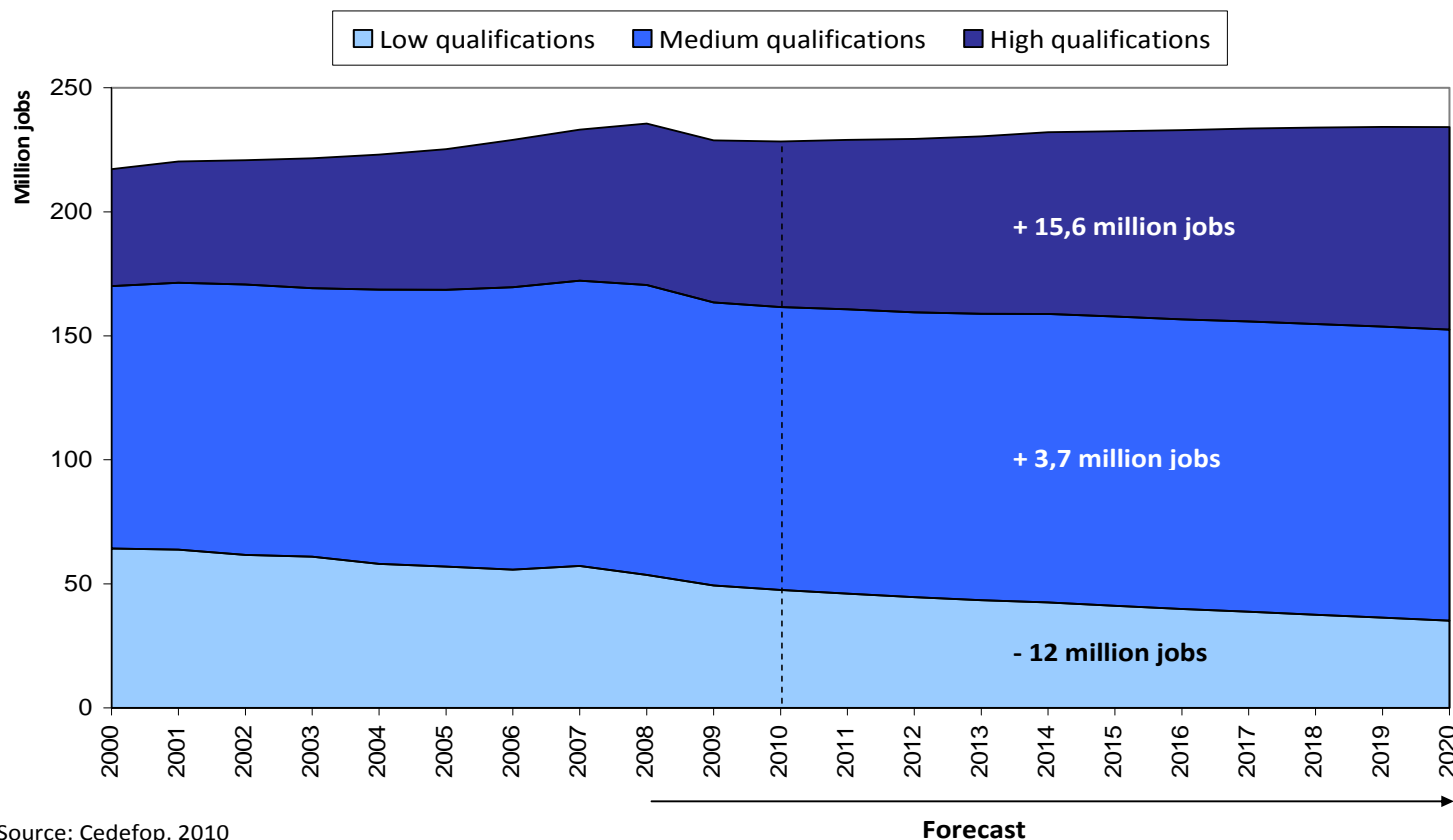


> 1 million members

> 133 countries

> 115 different languages

An urgent need for envisioning future learning that is more efficient, equitable, innovative and meaningful than it ever was in the past



In 2020, of all jobs
 35% high qualifications
 50% medium qualifc.
 15% low qualifications

Cedefop, 2010

Source: Cedefop, 2010

According to European companies, 90% of jobs in 2015 will require some sort of ICT skills (IDC, Nov 2009)

One important change of Education in 20 years will be...

IPTS foresight project **FORLIC** – with
TNO-NL, Open University NL and Attic
Media-UK

Expert consultation Phase 1:

- Group Concept Mapping
- 203 unique statements
generated by 13 experts
- 12 clusters: key changes in
education in 20 years

Individual & social nature of learning
Tailor made & profession driven education
Formal education goes informal
Lifelong Learning
Pedagogical concepts
Tools and services enhancing learning
Assessment, accreditation, qualification
Globalisation of education
Roles of institutions
Roles of teachers
Open education and resources
Technology in education

Importance

4.06

3.21

Expert ratings on....

Importance

4.06

- Individual & social nature of learning
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3.21

Feasibility

3.91

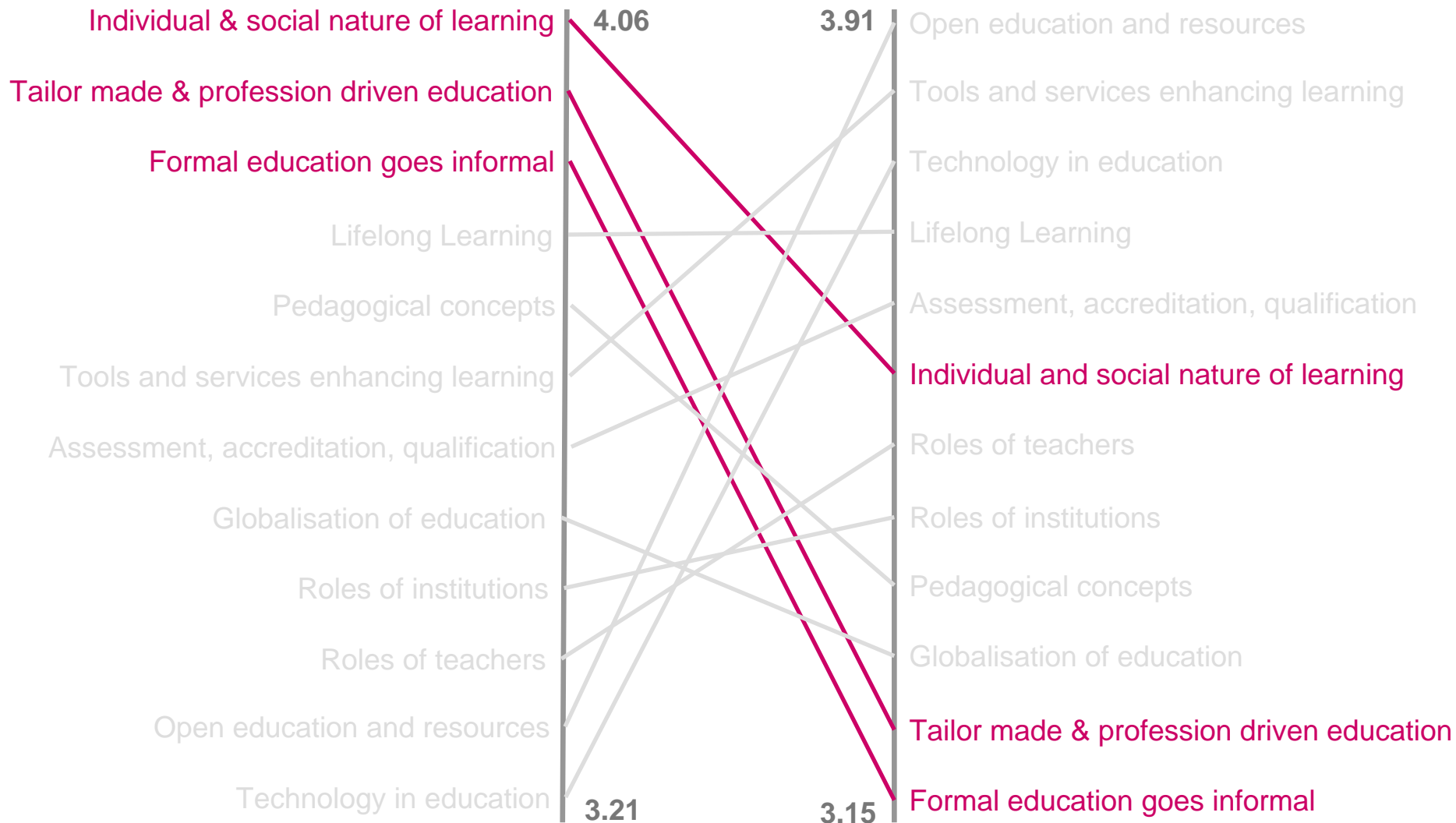
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3.15

Expert ratings on....

Importance

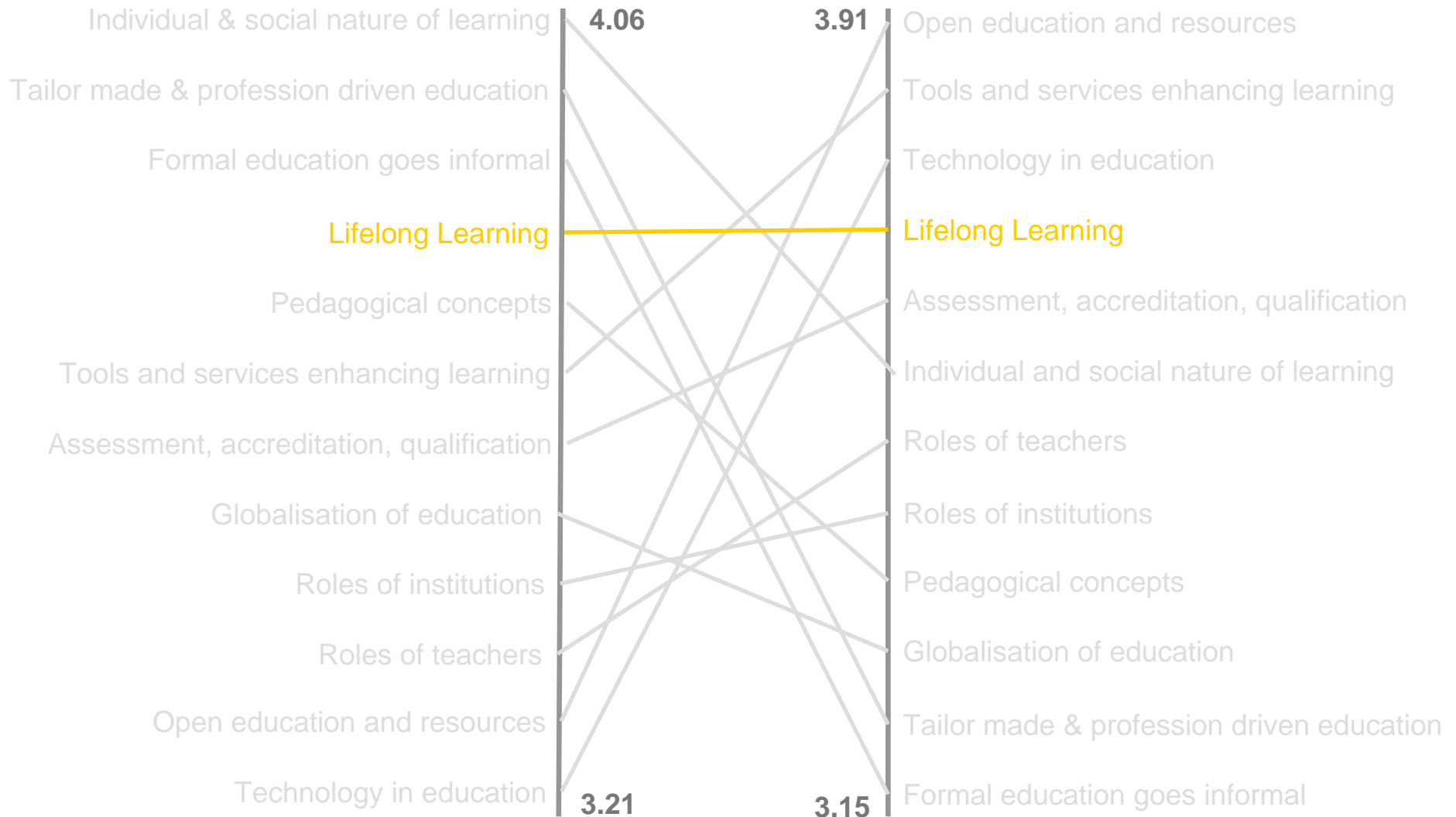
Feasibility



Expert ratings on....

Importance

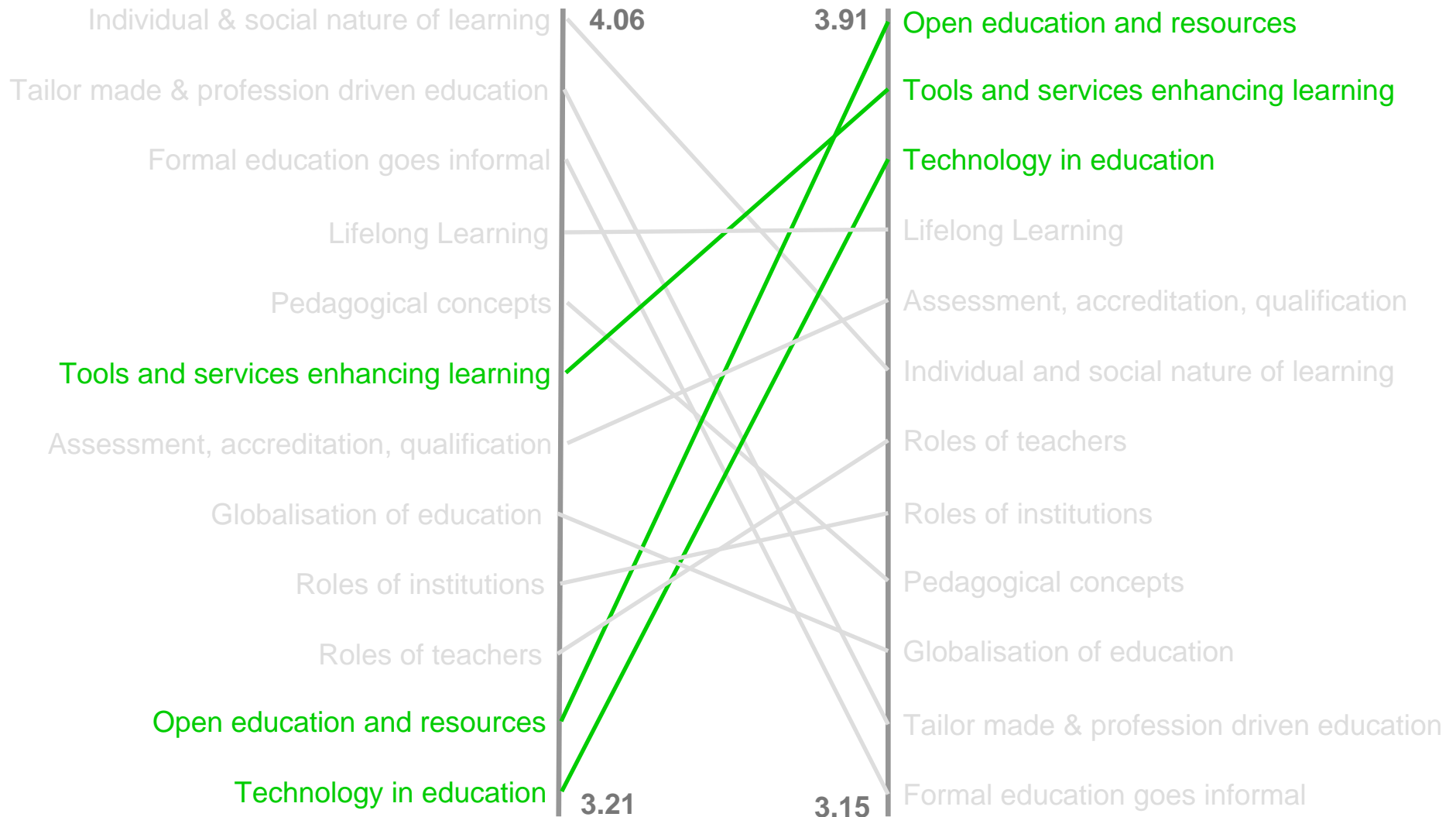
Feasibility



Expert ratings on....

Importance

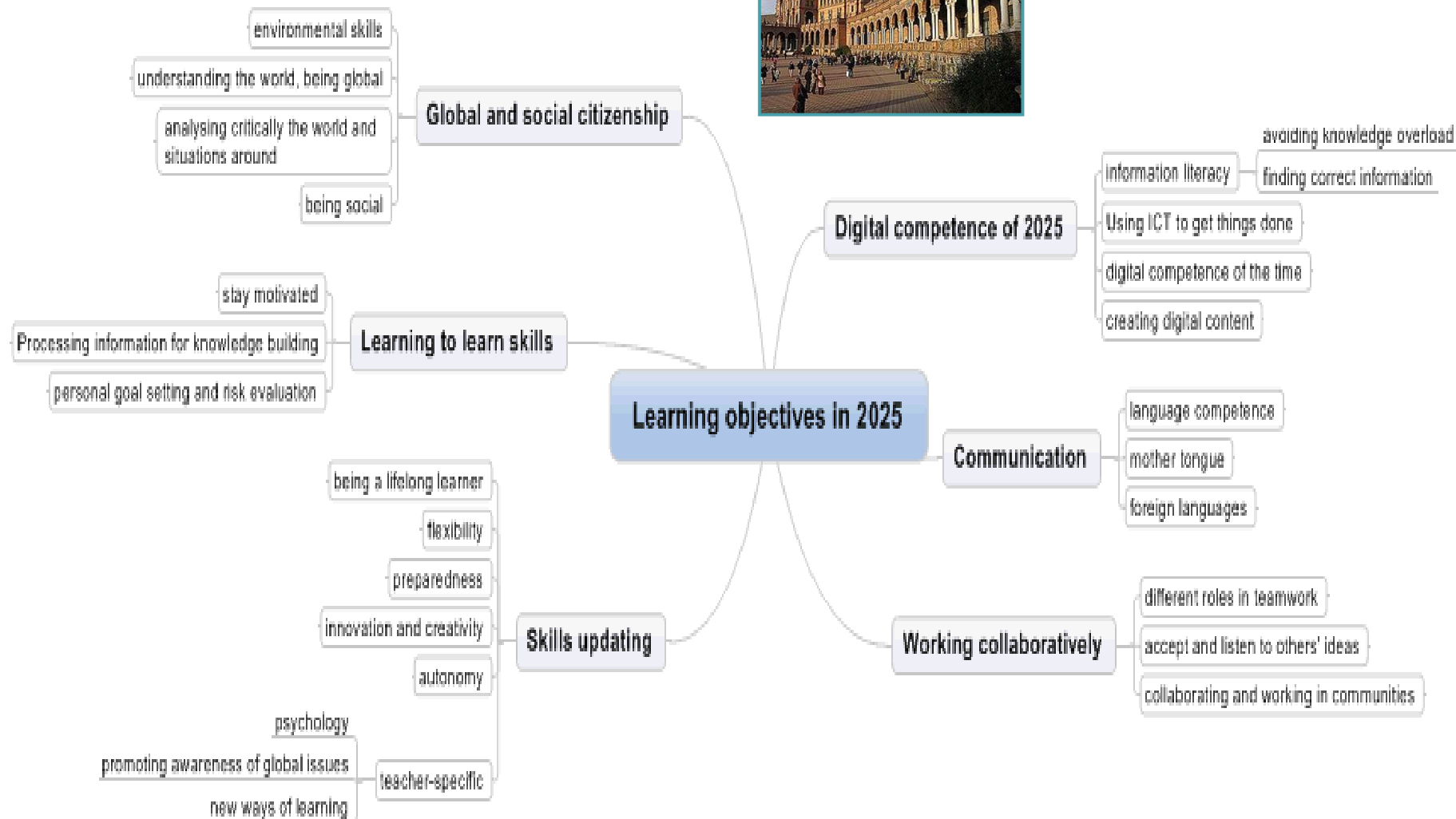
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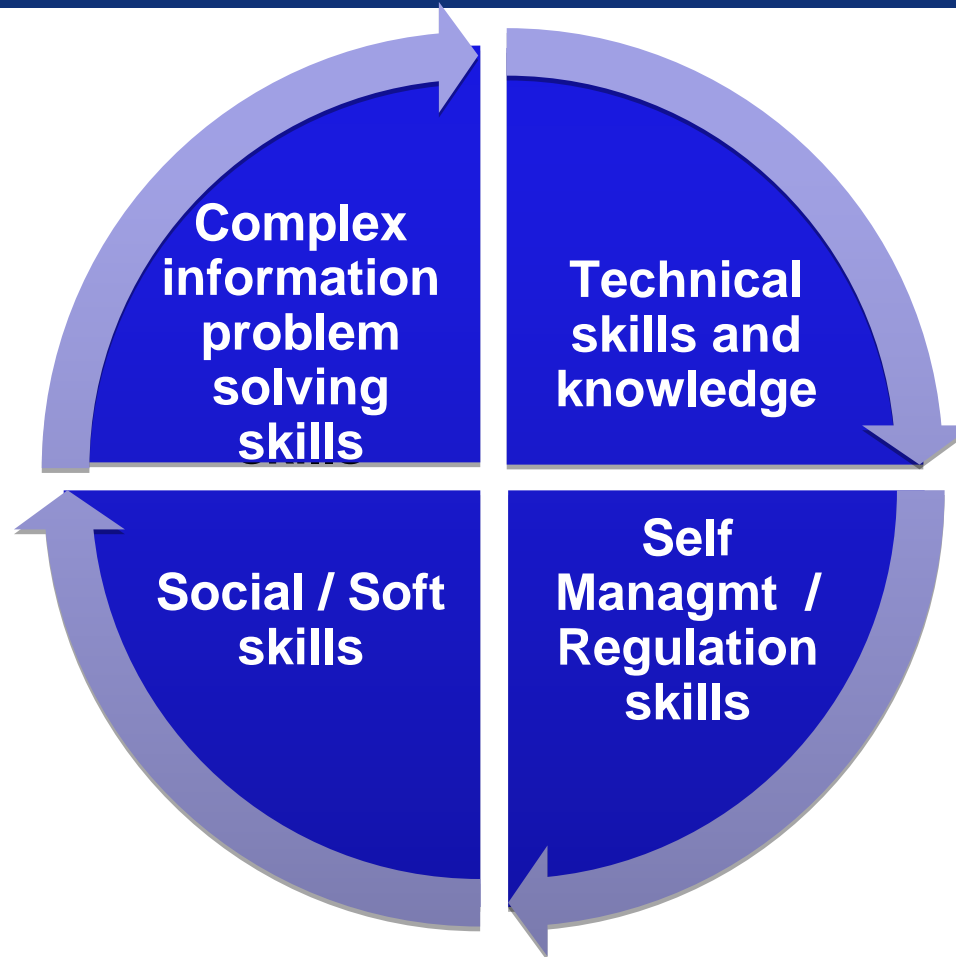


eTwinning Conference 2010: Celebrating 5 years!

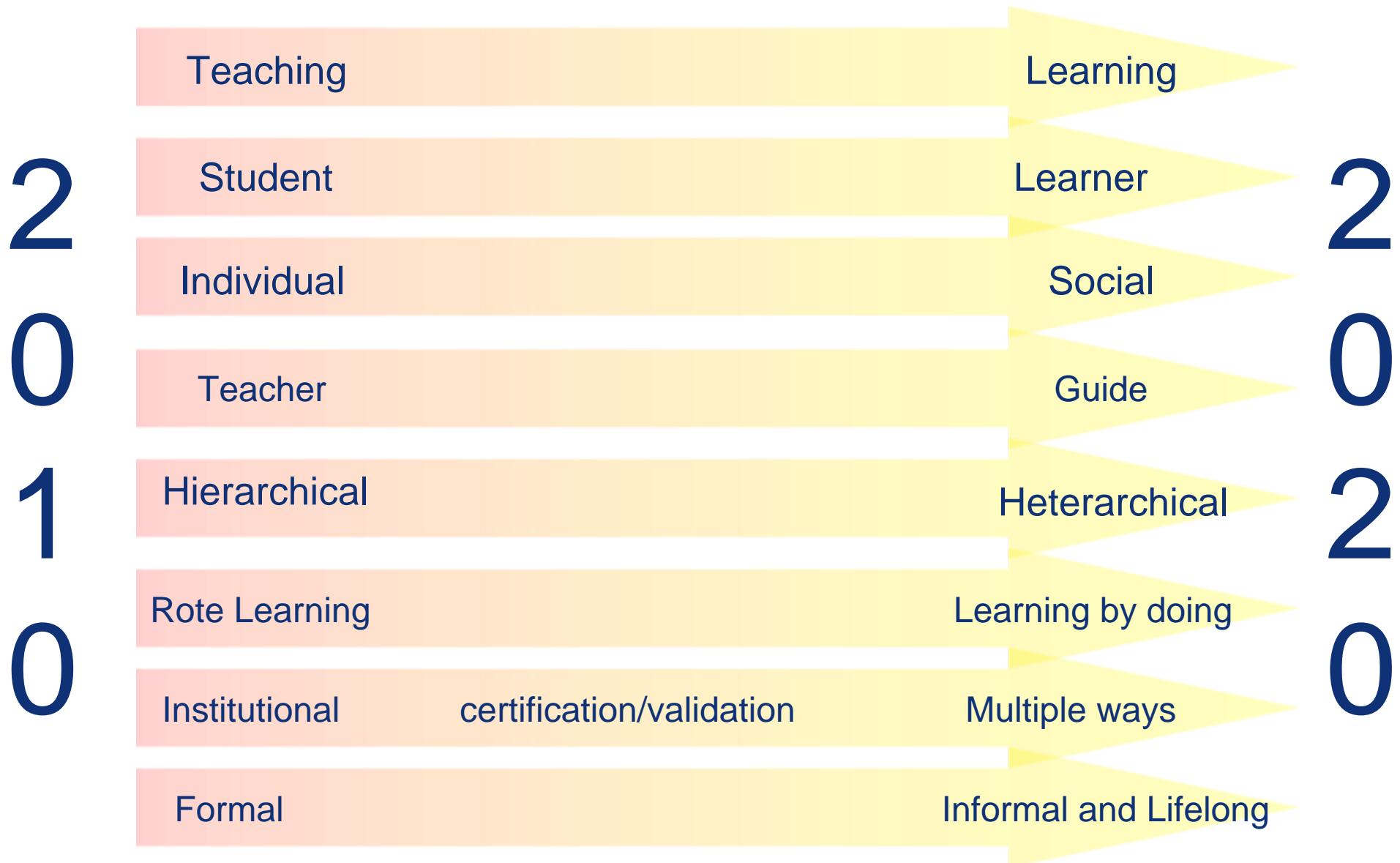


This year's annual conference will take place in Seville, Spain, from 5-7 February. For those unable to attend, live online streaming will be available.





Wrap up



Moving towards a **paradigm change in E&T**

- Need to combine technological, organisational and pedagogical change
- Open up E&T institutions and practices to work, everyday and LLL
- Blurring boundaries between informal, non-formal and formal learning
- Continued attention and focus on ICT for Learning
- **Untapped potential** of Social Media: more active, participative, meaningful, inclusive, innovative and creative learning

Urgent need for **digital competence & Information literacy** for all:

Teacher training: from basic ICT skills towards critical and creative use of ICT

Ensure **quality, reliability and safety** of online and user-generated content

Thank you

yves.punie@ec.europa.eu

<http://is.jrc.ec.europa.eu/pages/EAP/eLearning.html>