

Education and Training 2020

Working Group on Adult Learning

Brussels January 20, 2015

Jan Hylén

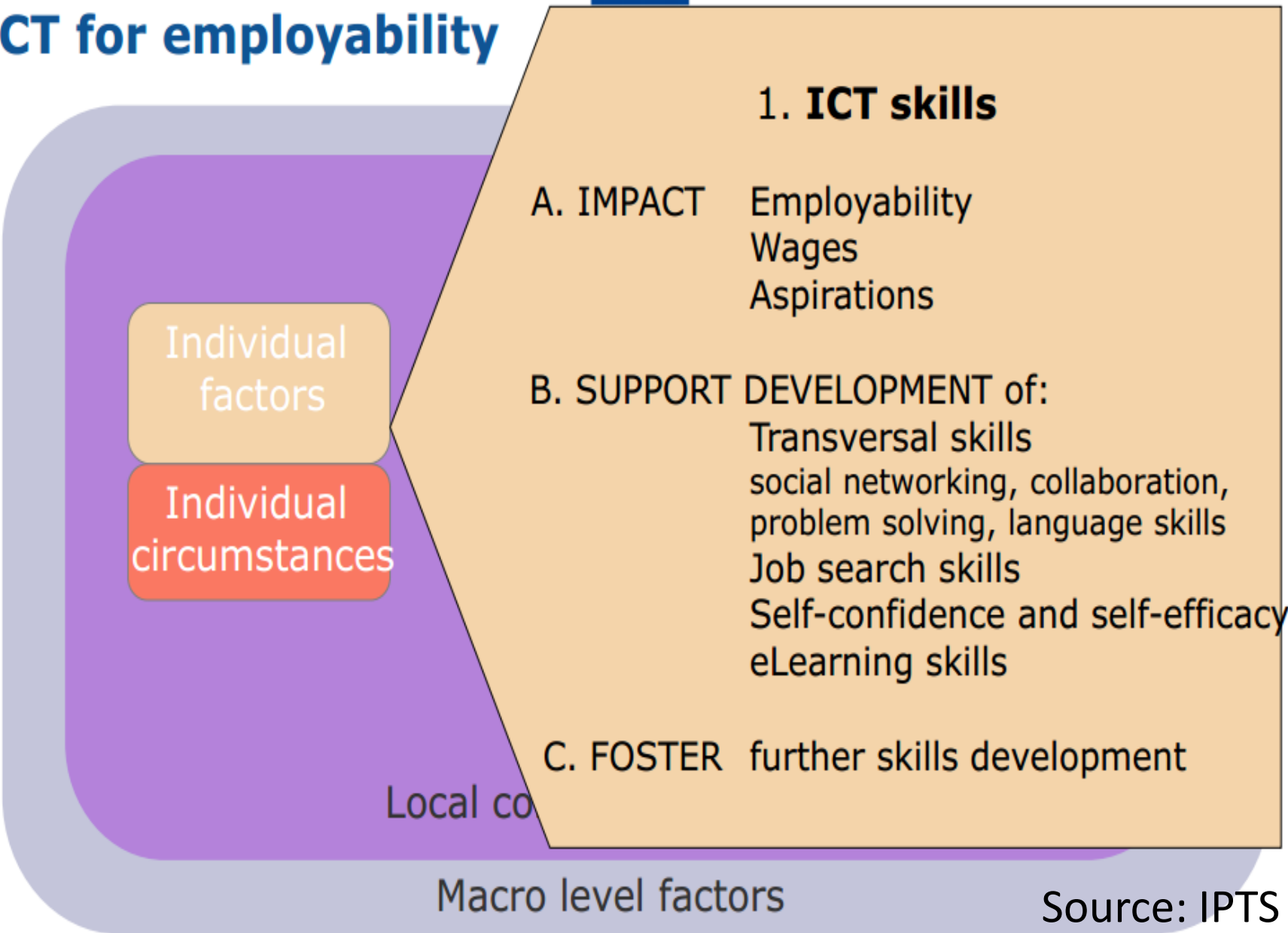
Jan Hylén

- Sweden
- Ph.D. in Political Science
- Ministry of Education, National Agency for Education: 11 years
- OECD / CERl: 2 years
- Independent educational analyst: 12 years
- OECD, UNESCO and EU
- Agencies, municipalities and universities

Why ICT in Adult Learning?

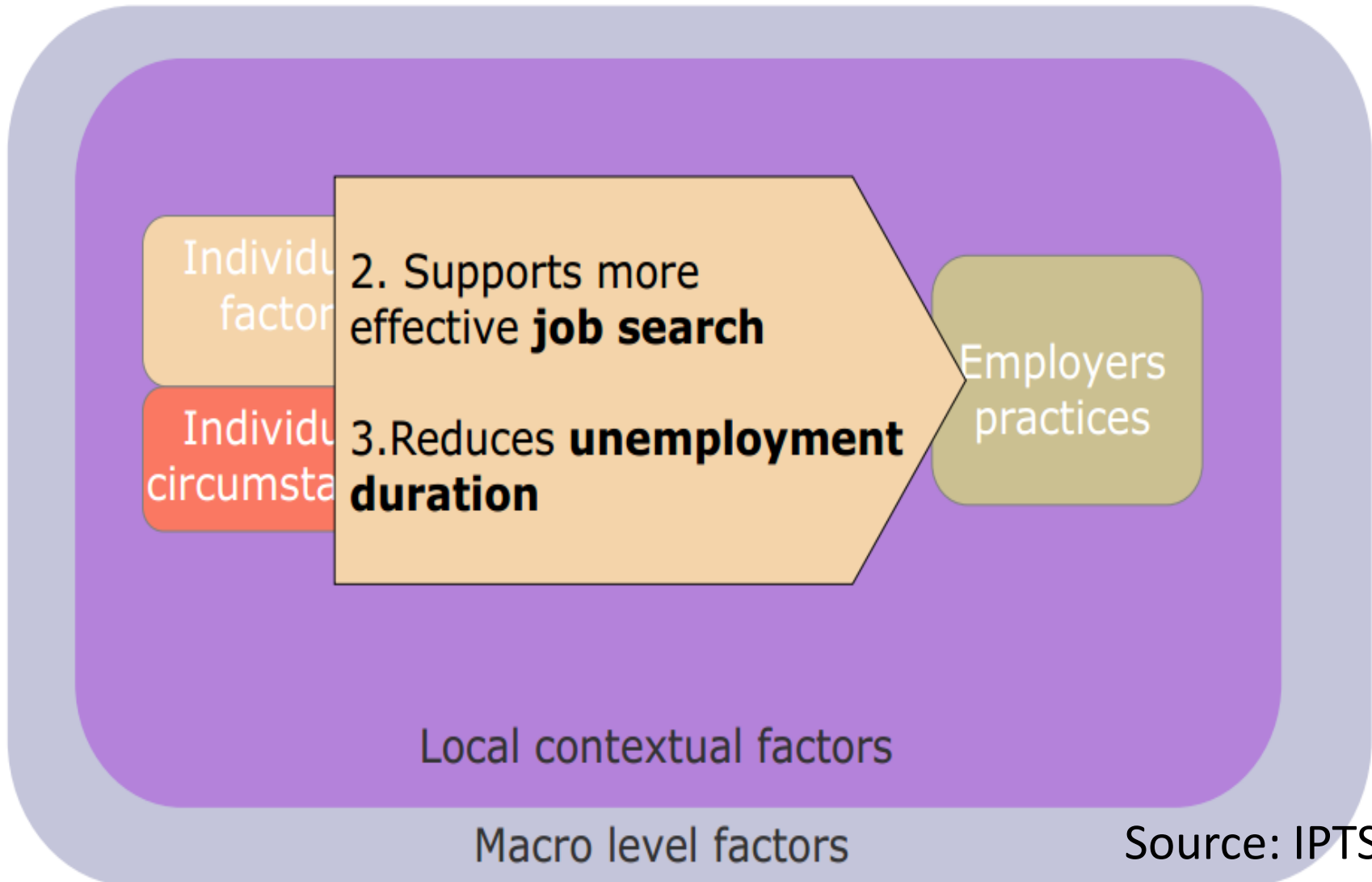
- Policy target to strengthen participation in adult learning to 15 % by 2020
 - ICT instrumental in reaching the goal
- 25 % of adult population are lacking digital skills (PIAAC)
 - Hinders productivity and innovation
- ICT skills are needed in today's society and labour market
- ICT is a way to enhance learning

ICT for employability



Source: IPTS

ICT for employability



Source: IPTS

ICT and the Learner

- Empowers the learner
- Makes the learning more learner-centred
- Promotes:
 - creativity,
 - problem-solving abilities,
 - informational reasoning skills,
 - communication skills,
 - and other higher-order thinking skills

Digital divides

- Access to equipment – or not
- Knowledge and skills – or not
- Access to ICT enhanced education – or not



Benefits of using ICT in learning (1)

- Increased flexibility and wider access
 - Overcomes geographical distances
 - Makes it possible to study at own pace
 - Makes it possible to study on hours suitable to the individual
 - Makes group learning possible even on distance and on odd hours
- Personalises learning
 - Learning Analytics

Learning Analytics

- “Collecting (digital) traces that learners leave behind and use those traces to improve learning” (Eric Duval)
- Learning Analytics Community Exchange – www.laceproject.eu



Benefits of using ICT in learning (2)

- Blended learning most efficient
 - US Department of Education (2009)
- Motivation
- Enhanced learning
 - Active learning improve results (Freeman et al, 2014)
 - Actively engage in learning, actively reflect on learning
 - Flipped classroom

OLD

(Before the Flip)



Students read over materials

**BEFORE
CLASS**

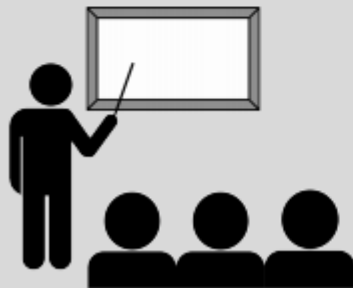
NEW

(After the Flip)



Students complete interactive learning module.

**DURING
CLASS**



Students listen to a lecture.

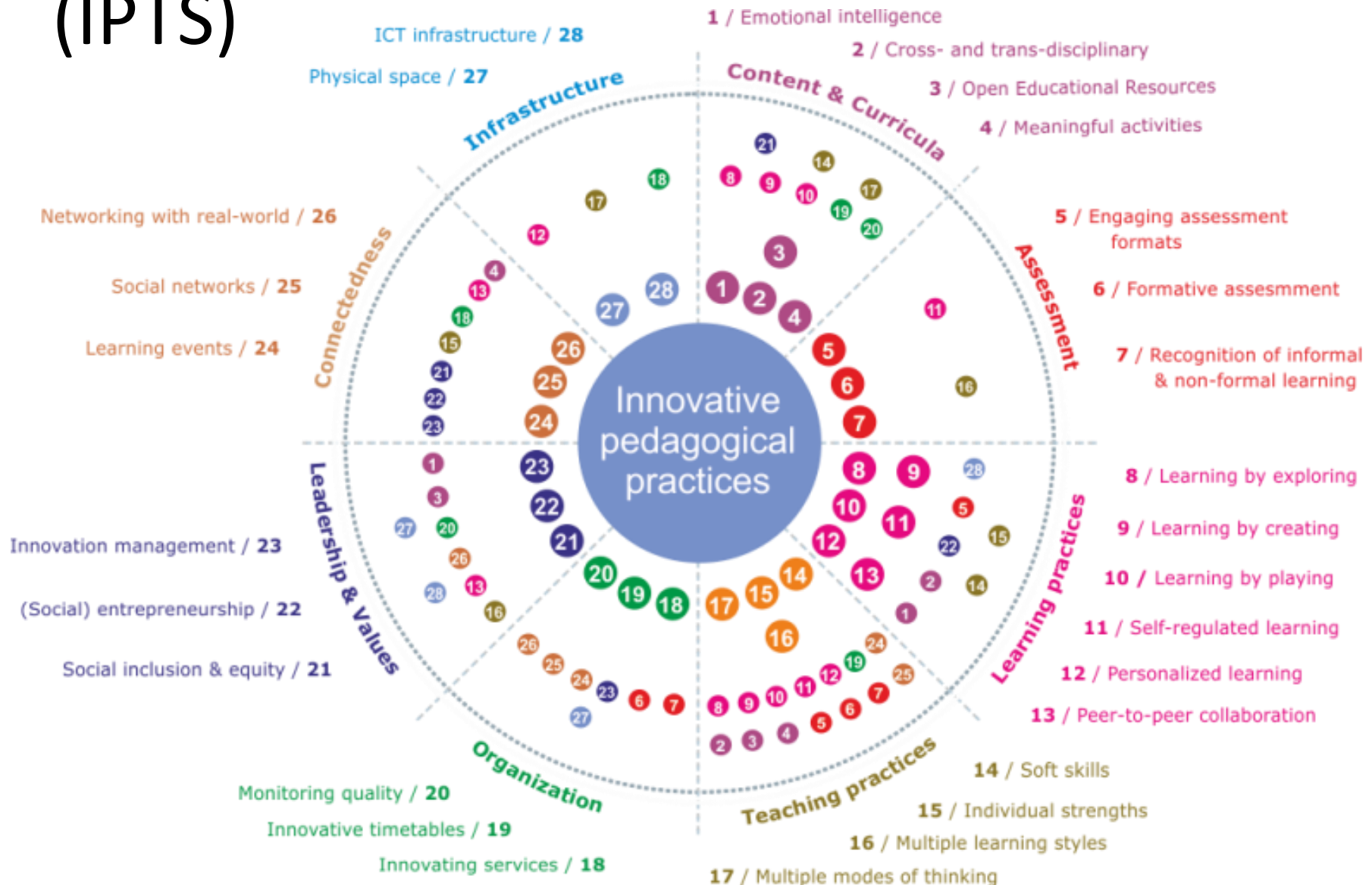


Students practice applying key concepts with feedback.

There are a lot of good reasons for increased use of ICT enhanced learning in adult education

POLICY IMPLICATIONS?

Creative Classroom Building blocks (IPTS)



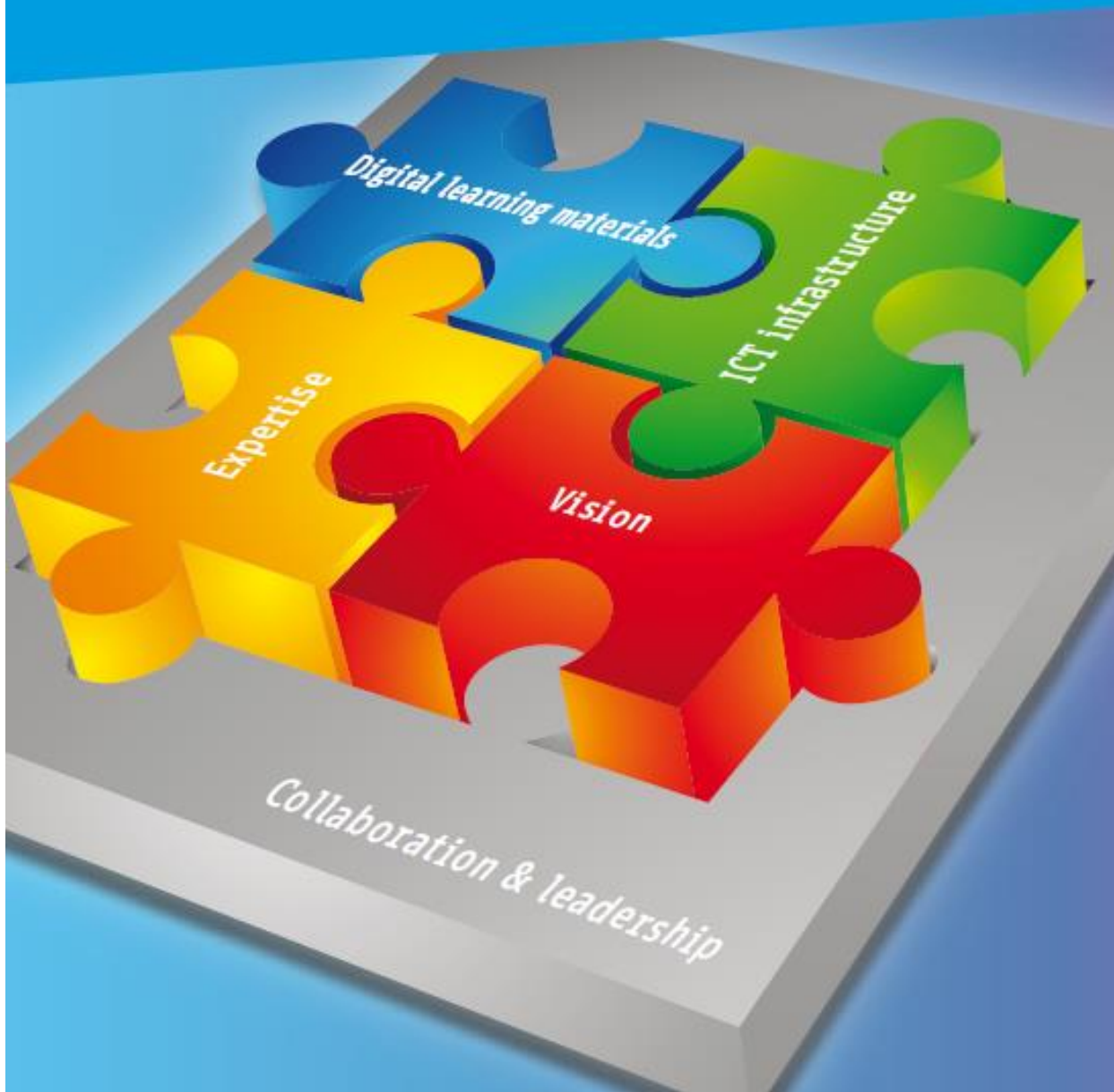
4 in Balance

- Infrastructure and hardware
- Content
- Knowledge and expertise
- Vision and leadership



Four in Balance Monitor 2010

ICT at Dutch schools



4 in Balance

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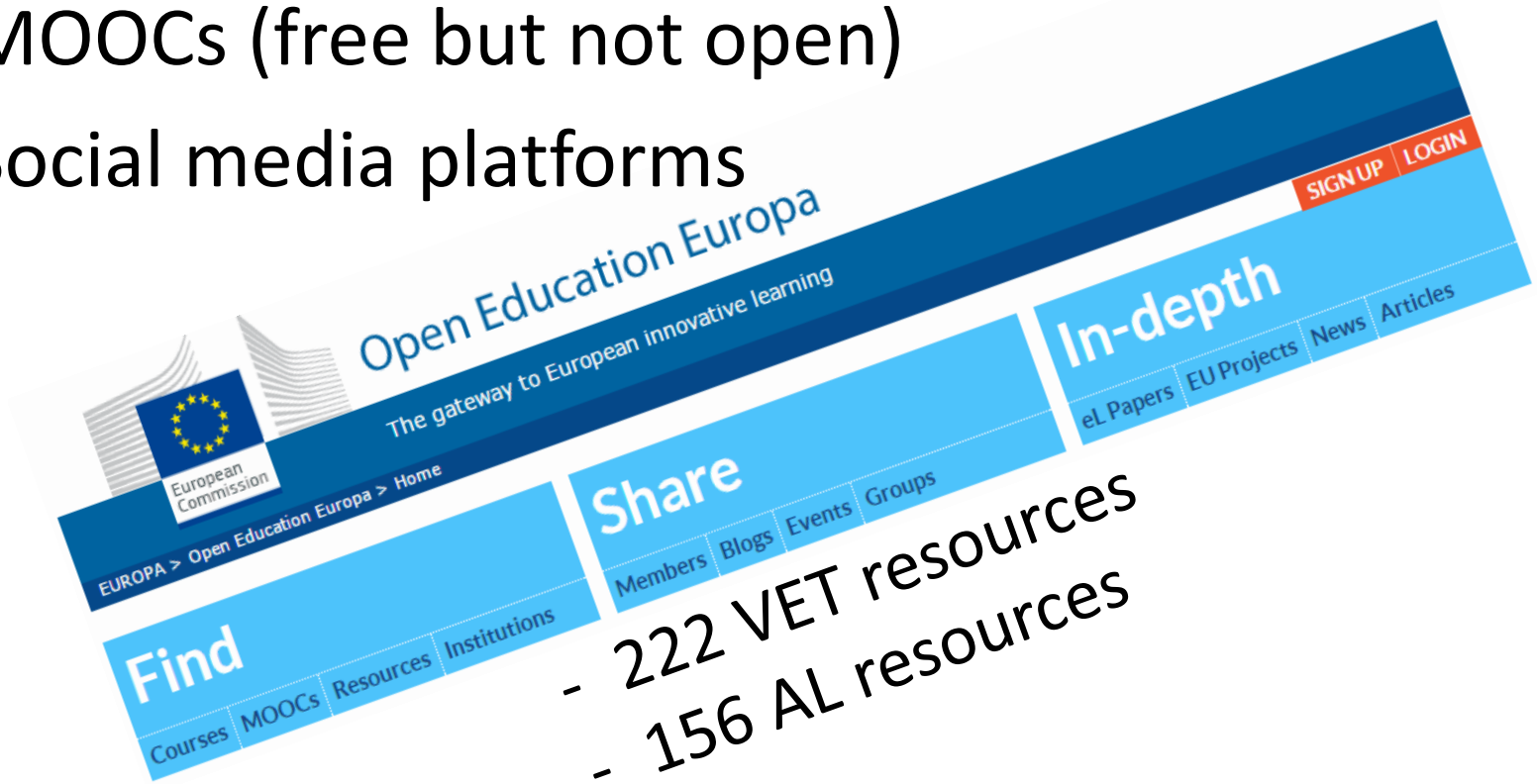
1) Infrastructure and Hardware

- Identify needs
 - Adult Learners in Digital Environments
- Unorthodox solutions
 - SchoolNet Canada for schools and SMEs built by Industry Canada
 - BYOD



2) Content

- Digital textbooks
- Open Educational Resources / Practices
- MOOCs (free but not open)
- Social media platforms



OER/OEP Inventory (2013)

- 114 initiatives in Europe relevant to adult learning
- 17 different European countries (and 26 elsewhere)
- Dominant language is English (66%) and French (16%). Czech, Dutch, Finnish, French, German, Greek, Italian, Norwegian, Polish, Spanish also represented

Source: Falconer, McGill, Littlejohn, and Boursinou 2013

3) Knowledge and Expertise

- Teachers AND principals need to have digital competence
 - 70 % of teachers in EU would like to have prof. dev. (TALIS)
 - Teachers' competences influence if, how and how much ICT is used
 - Principal's need to be role models and to lead change
- Change management – to digitise education is a change process, not a technology project

4) Vision and Leadership

- EU 2020 Strategy
- Opening up Education
- Digital Agenda
- New Skills New Jobs
- ...

- 27 % of adult learning institutions have an ICT strategy (Adult Learners in a Digital Environment)
- National strategies?
- Kozma (2007): “National ICT policies will have the greatest impact if they are aligned with other strategic and operational policies.”

THANK YOU FOR YOUR ATTENTION

jan.hylen@educationanalytics.se