1st June 09.30 - 16.30

#LELLE17

LELLE Regional Conference 2017 Learning to Learn: Beyond 2020

Open University of the Netherlands, Heerlen

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Learning to Learn: Beyond 2020



University of Pannonia www.uni-pannon.hu



BEST

Wrocłav University of BEST Institut für berufsbezogene Economics Weiterbildung und Personaltraining GmbH

www.best.at



The Open University of Netherlands

www.ou.nl



Europa Consortium Regional Development Non-profit Ltd.

www.europaconsortium.eu

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The Digital Age

Two core factors:

Globalisation &
 Worldwide Internet



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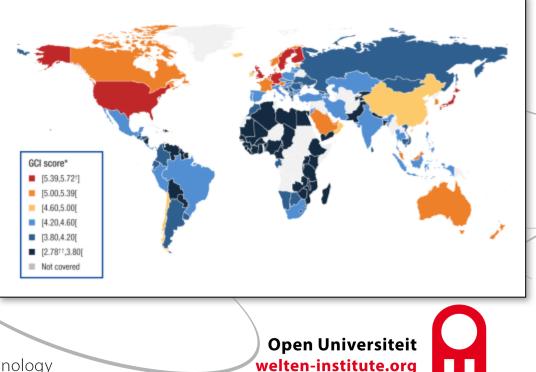
Photo: https://ec.europa.eu/digital-agenda/en/digital-life/education

Internationalization

Global Competitions and societal changes

Close the gaps & open new opportunities

Challenges: Learn to Learn



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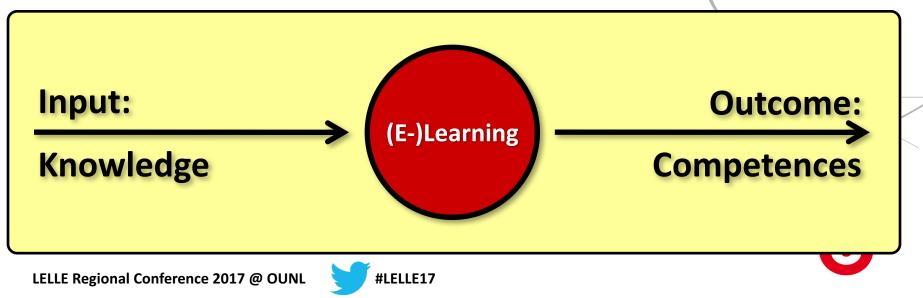


Figure: http://www.weforum.org/issues/global-competitiveness

Learning cha(lle)nges

Not knowledge but competences are required to meet future jobs and tasks still unknown today

Change from input to outcome orientation



Research Context



- 1. Technological Advances & Global Connectivity
 - Borderless classroom
 - Virtual workplace
 - Employability
 - Mobility

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Research Context





2. Future Competences & 21st Century Skills

| | Social Skills | Meta-cognitive Skills | Cognitive Skills | |
|---|---|--|--|--|
| | ✓ Virtual collaboration ✓ Cross-cultural competency ✓ Social intelligence | ✓ Novel & adaptive thinking ✓ Sense-making ✓ Cognitive load management | ✓ Transdisciplinary ✓ New media literacy ✓ Design mindset & computational thinking | |
| F | (Davies, Fidler, & Gorbis, 2011) Welten Institute Research Centre for Learning, Teaching LELLE Regional Conference 2017 @ OUNL | and Technology | Open Universiteit welten-institute.org | |

Research Context



- 3. Future Readiness & Trends in Europe
 - Europe: Education & Training 2020 strategy to promote growth & job
 - Internationalisation in higher education
 - Higher Education Institutions' commitment to provide training in practical & vocational contexts

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Research Questions



- What are the core skill-sets a graduate would need to possess when he or she enters the workforce?
- 2. What would be the best practices (methods or tools) to develop and to evaluate the core-skill sets in our graduates?

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Stage 1: Phase 1

- Desktop research on core skills: critical thinking, problem solving & managing one's own learning
- Insight card to collect good practices on learning to learn skills (formal & non-formal educational institutions, as well as training agencies)

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Stage 1: Phase 2

72 structured interviews were conducted via face to-face interviews, Skype and other electronic forms over a period of three months (from Feb to April, 2016): 34 educational institutions, 19 noneducational institutions & 19 training agencies

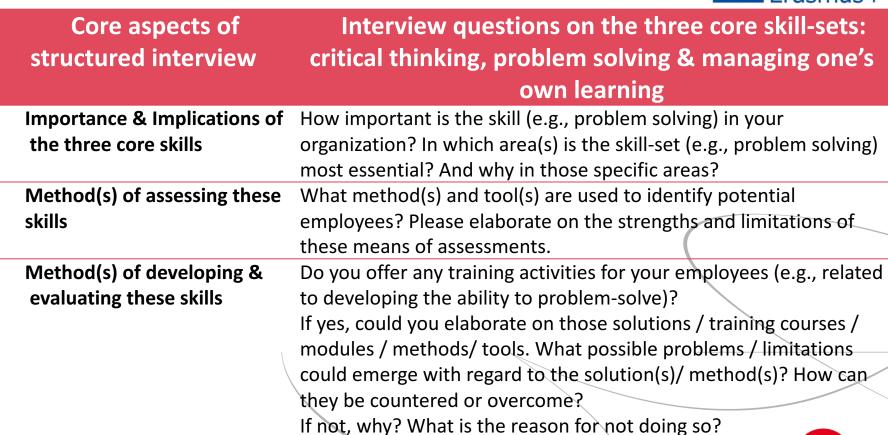
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Data Analysis





Data Source: audio recording & field notes Five Thematic Categories

- 1. Importance of the three skills
- 2. Areas/fields where the skill(s) is/are critical
- 3. Method(s) of assessing/verifying the skills
- 4. Method(s) of developing the skills
- 5. Method(s) of evaluating the acquired skills

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Findings



RQ 1 Importance of core skill-sets at workplace

 "Learning to learn" encompasses capacity to leverage new experiences to explore unchartered territories: an important asset for progress & development in companies/ industries

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Findings



RQ 1 Importance of core skill-sets at workplace

- Critical thinking: pivotal for effective and efficient project task planning and execution.
- Problem solving: intricately linked to critical thinking; more of a right attitude & mindset an important aspect to develop & nurture.

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Findings



RQ 1 Importance of core skill-sets at workplace

 *Managing one's own learning: selfknowledge, and reflective learning, lifelong learning mindset & setting specific career goals as important determinants for progress at the individual & collective level

Note: *as most challenging to define

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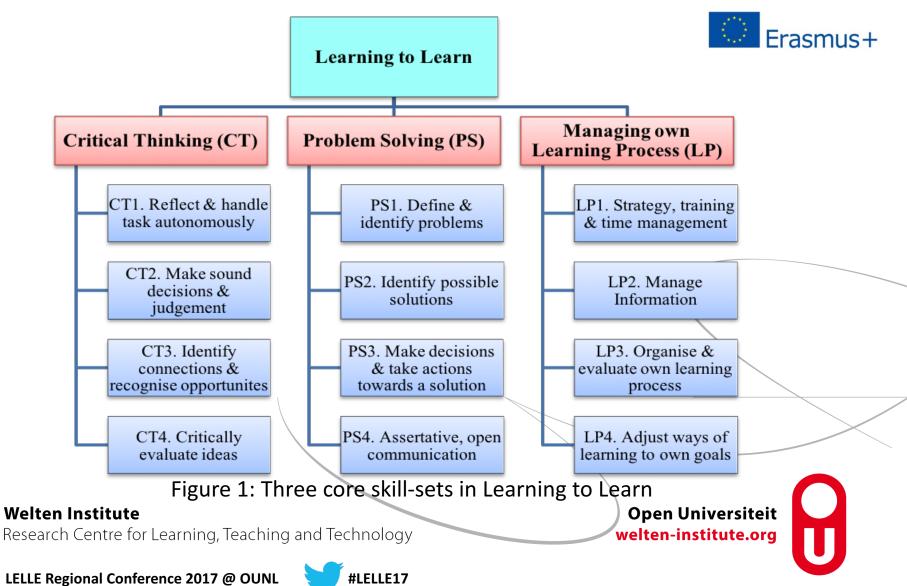
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The Profiling Concept



Lelle





Stage 2:

- Development of the profiling tool: 48 survey items covering the three core skill-sets (prepost self-report measure)
- Design and development of training materials: objectives and lesson scenarios

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Lesson Structure Problem Solving



Erasmus+

| Activity | Objective | Method | Estimated Duration |
|----------|---------------------------|--|-----------------------|
| Starter | Focus & Engage | Plenary Discussion | 30 min |
| Hands-on | Hands-on Practise & Apply | Case Study (Individual) | 30 min |
| | | Plenary Discussion | 30 min |
| | | Role Play (Group) | 15 min |
| | | Case Scenario I (Group) | 25 min |
| | | Case Scenario II (Group) | 50 min |
| Review | Summarise & | Self-evaluation | 20 min |
| | Reflect | Plenary Discussion | 10 min |





Pilot the training materials (WUE & UP)

- Pre-post survey
- Train the mentors/ lecturers to implement the skill-based lesson materials in their seminars
- Provide individual coaching sessions to guide students to manage their own learning process

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Sample & Design

University of Pannonia (UP)

- 53 year one students from tourism course
- 2 Business Communication seminars
- 5 lecturers
- Skills adjusted to course tasks; methods built into the syllabus

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Source: Students' portfolio & reflection questionnaire Activities/methods that helped develop critical thinking & problem solving skill-sets:

- Interactive seminars & gamifications
- Role-plays, case studies, learning scenarios
- Pair & group work
- Simulations

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Source: Feedback sessions with lecturers

| + | - | | | | | |
|---|---|--|--|--|--|--|
| New methods | Short time of the course | | | | | |
| Lesson plan | | | | | | |
| Scoring rubric | More time needed for | | | | | |
| Different topic, same aim | preparation | | | | | |
| Motivated students | Hard to distinguish problem solving and critical thinking | | | | | |
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Sample & Design

Wroclaw University of Economics (WUE)

- 34 students
- 2nd year students majoring in Management ;
 3rd year students majoring in Logistics; students from Design Thinking Research Club
- Skills adjusted to exercises/ tasks + added extra activities into existing curricula

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Source: Feedback from students

Activities/methods that they find useful

- Enjoyed the critical thinking (analysis of a text)
- Critical thinking rubrics applicable to any text
- Enjoyed problem solving activities in groups; creative learning environment
- Prefer defining a problem using a question to statement

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Source: Feedback from students

Shortcomings on existing instructional programmes:

- Knowledge acquisition is not always as important as obtaining good grades
- Lack of systematic learning & external motivation: students only learn intensely prior to exams
- Insufficient collaborative tasks/ activities
- Quantitative assessment is preferred to qualitative
- Lack of students' diagnostic tests & analysis of students' progress to "assess" teaching methodology correctness

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Source: Feedback sessions with lecturers

- Lack of specific subject area related to learning to learn overarching competence + core skill-sets
- Difficult to integrate materials into qualitative subjects
- Lack of measurement tools to track students' progress
- Lack of incentive for lecturers to incorporate the lesson materials into their classes

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Final Product





LELLE Kit:

- Instructional manual
- Framework on integrating core skill-sets into existing curricula
- Mentor training concept & coaching method
- Lesson materials
- Profiling filter survey
- Best practices

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Thank you...

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LELLE Regional Conference Feedback Questionnaire:

http://bit.ly/LELLE17questionnaire

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