Webinar- Episode 7

Rely on an orchestrated and agile ecosystem
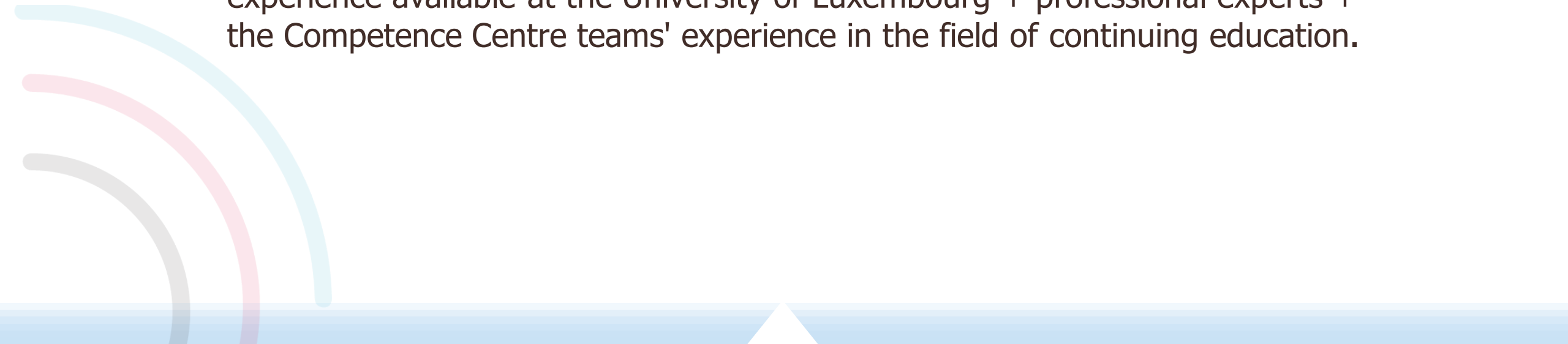
20 May 2020

www.competence.lu

University of Luxembourg Competence Centre

- ➢ Created on October 1st, 2018 by the University of Luxembourg and the Ministry of Higher Education and Research

- ➢ Our missions:
  - ➢ university continuing education
  - ➢ lifelong learning
  - ➢ projects linked to the development of skills

Unlock Knowledge

University of Luxembourg Competence Centre

➢ Flexible and responsive ad hoc institute benefiting from direct contact with professional decision-makers + strong partnerships ->provide courses that meet the needs and requirements of the Luxembourgish labour market ;

➢ Added-value: unique offer on the market: pooling of the academic and research experience available at the University of Luxembourg + professional experts + the Competence Centre teams' experience in the field of continuing education.

Approach by competence hubs

➢ The *Competence Centre* is organized into **pools of expertise**.

➢ This approach makes it possible to capitalize on the experience, knowledge and skills of our teams and to meet the market needs in a proactive, efficient and innovative way.

➤ ICT and Digital Learning Hub - developing talents: examples

Perfect alignment between the opportunities of face to face, digital learning and blended learning, the specific expectations of our participants and stakeholders and the best practices of adult learning, based on research and neurocognitive sciences.

❑ Cisco Networking Academy – partnership with the CSL
- Cybersecurity, IoT, programming and coding,…

❑ NVIDIA:
- Fundamentals of Deep Learning for Computer Vision
- Fundamentals of Accelerated Computing with CUDA Python

❑ HPC Academy

❑ Data science

❑ Cloud computing

❑ Etc.

➤ICT Hub - Being more innovative: example

MOOC on Machine learning in an industrial environment -> in partnership with Cap4Lab. Remote learning, a total workload of 50 hours, 15 remote teaching hours, webinars, individual work.

- Machine Learning Tools
- APIs fundamentals
- Cloud Computing basics
- Data Training Preparation
- Principal Component Analysis (selection of the Algorithm based on context)
- Training a Machine Learning
- Evaluations, assessments and predictions
- Practical examples applied to industry

➤ ICT Hub - attracting and retaining talents: example

Data Science course for the European Commission (2,5 days)-> in partnership with professors of the University of Luxembourg.

Target audience: extensive experience (5-20) years in ICT or in digital transformation.

Content:

- Methodology
- Introduction to R &Python data science programming languages
- Data Exploration
- Data Analytics
- Data Engineering
- Machine learning and practical applications
- Natural language processing
- Data driven decision making: tools and techniques

Before starting with the modules, a half-day session was dedicated to basics in mathematical modelling.

➤ICT Hub- assessing digital skills: example

INAP-> in partnership with the LUCET at the University

Objective: assessing the needs for developing digital skills for civil servants.

To build an efficient and tailor-made training plan

Quantitative and qualitative surveys.

"Anyone who stops learning is old, whether at twenty or eighty." *Henry Ford*

THANKS FOR YOUR ATTENTION !!!

"A learning curve is essential to growth." *Tammy Bjelland*

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