



Shaping the futures of learning and micro-credentials

SADE ONLINE AUTUMN CONFERENCE

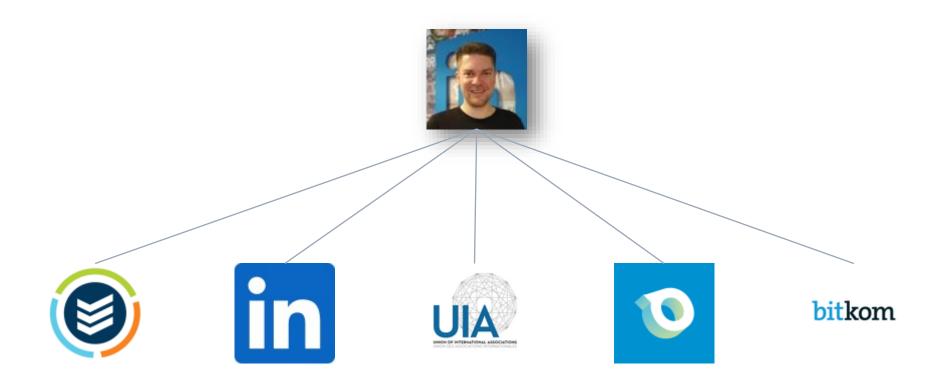
"SHAPING THE FUTURES OF LEARNING"

24/09/2021

ROLF REINHARDT

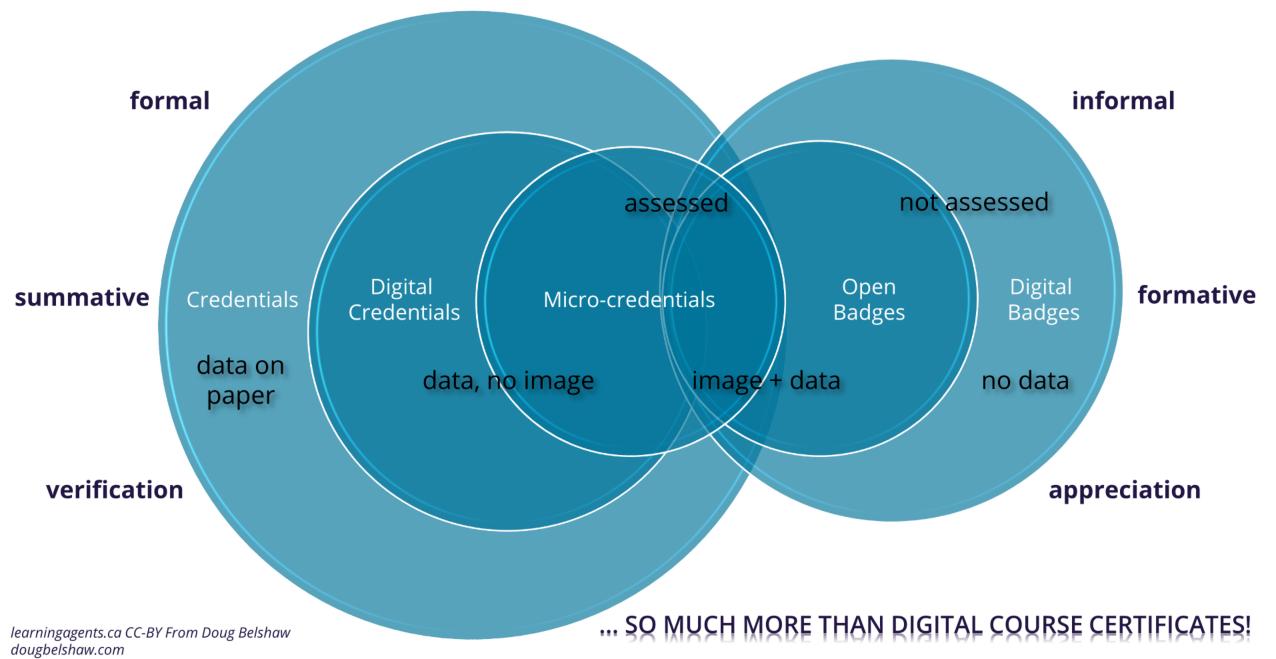
INTERNATIONAL COUNCIL ON BADGES AND CREDENTIALS

About me: enhancing learning with "e"



Unboxing open badges, micro-credentials and digital badges





Just published!

Released on 22/09/2021 by OECD:



Micro-credential innovations in higher education: Who, What and Why?

This Education Policy Perspective is Part A of a two-part series on micro-credentials (Part B can be found at (OECD, 2021(1))). It contributes new empirical evidence on the current offer of micro-credentials across OECD jurisdictions, and provides an account of what is known about the costs and benefits of short learning programmes offered by higher education institutions. The evidence presented can support the work of policy makers who wish to build upon the momentum of recent innovations spurred on by the pandemic, and more deeply understand the models of provision for micro-credentials currently in place across OECD jurisdictions.

Key messages from this Education Policy Perspective:

- There is an increasing learner interest in micro-credentials, and growing activity related to micro-credential development among governments and providers.
- In higher education institutions, the term "micro-credential" is not in widespread use.
 Nevertheless, higher education institutions are offering a diverse range of short learning programmes that would meet the criteria of micro-credentials programmes as commonly defined.
- Higher education institutions tend to develop short learning programmes for advanced, postgraduate and professional education, and short learning programmes provide them with a source of revenue that is less regulated by governments.
- Online provision of micro-credentials is widespread. Digital learning platforms are becoming
 an increasingly important channel for the delivery of micro-credential programmes and the
 COVID-19 pandemic has further strengthened their position. The past year has also seen a
 strengthening of "own-brand" online learning ecosystems and environments provided by
 private companies whose primary business is not education and/or training.
- Learners who avail of micro-credential programmes provided by higher education institutions tend to be more educated, more skilled and have greater levels of financial and social support from employers.
- Evidence on the outcomes of micro-credentials is limited, although some studies indicate that shorter programmes do provide at least a temporary labour-market boost, and stacking microcredentials may improve prospects in the labour market.

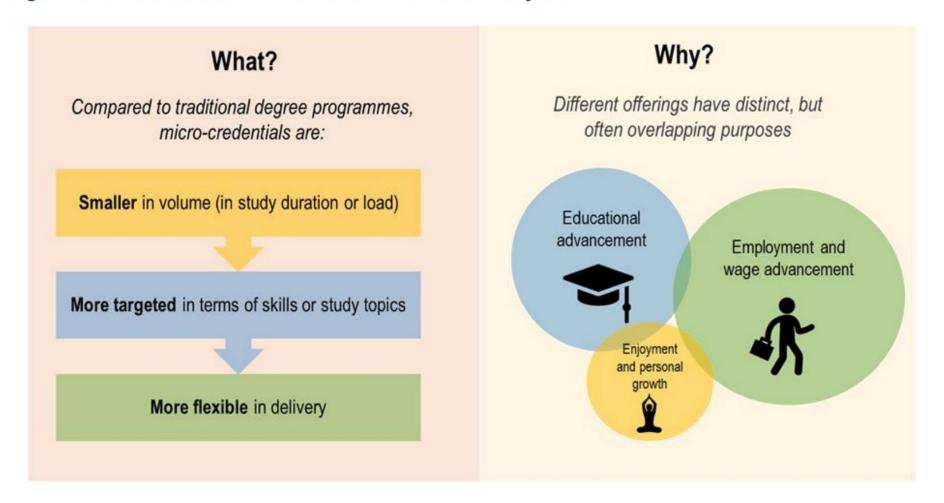




Table 1. Selected definitions of micro-credentials

Source	Definition			
	A micro-credential is a proof of the learning outcomes that a learner has acquired following a short learning experience. These learning outcomes have been assessed against transparent standards.			
European Commission (draft definition)	The proof is contained in a certified document that lists the name of the holder, the achieved learning outcomes, the assessment method, the awarding body and, where applicable, the qualifications framework level and the credits gained. Micro-credentials are owned by the learner, can be shared, are portable and may be combined into larger credentials or qualifications. They are underpinned by quality assurance following agreed standards (European Commission, 2020[3]).			
BloomBoard	Micro-credentials are a form of micro-certification earned by proving competence in one specific skill at a time, via a portfolio of evidence, created through classroom practice (BloomBoard, 2021[4]).			
European University Association	A micro-credential is a small volume of learning certified by a credential (Cirlan and Loukkola, 2020 _[5]).			
International Council for Open and Distance Education	A credential issued for a relatively small learning project that consists of several modules in a given subject (ICDE, 2019[6]).			
MicroHE	A micro-credential is a sub-unit of a credential or credentials that could accumulate into a larger credential or be part of a portfolio. Examples are Verified Certificates, Digital Badges, MicroMasters, and Nanodegrees (MicroHE, 2019 _[7]			

Figure 1. What are micro-credentials, and what are they for?



Source: Authors' elaboration.

Figure 17. What does research tell us about micro-credential learners?

...with differences by field of education General trends.... Lower median age than learners Learners are likely to be of in other courses STEM working age Higher rates of male participation Learners tend to already have a among learners higher education degree Learners tend to be from more **TEACHER TRAINING** Higher rates of female privileged socio-demographic participation among learners groups Learners generally have a higher Large share of learners in level of digital competence management positions **ENTREPRENEURSHIP** Learners are likely to already Vast majority of learners from have some knowledge related to countries with a very high Human the course topic Development Index

Source: Cisel et al. (2015_[50]), Castaño Muñoz, Punie and Inamorato dos Santos (2016_[49]), Hennis et al. (2016_[48]), Bali and Torcivia Prusko (2017_[47]), Viana and Moura Santos (2018_[46]) and Hollands and Kazi (2019_[45]).



WHAT'S A BADGE REALLY WORTH









INDIVIDUAL

ISSUER VALUE











COMPANY



GROUP



INDIVIDUAL

ENDORSEMENT VALUE





MAPPING





COMPOSITE

JOURNEY VALUE





What is JobTech?







Job Seeker

JobTech companies connect job seekers and employment by matching, training and placing candidates into jobs





Education, training or upskilling can be a component of JobTech, but not necessarily

JobTech # HR Tech

HRTech makes HR more efficient by storing data securely, automating routine processes, improving the employee experience and providing analytics for better business decision making – HRTech improves legacy HR but does not change it

JobTech \neq EdTech

EdTech assumes credentials are an end in themselves. It is focused on improving the delivery of credentials (including degrees) for individuals, and institutions



The advent of digital work and digital hiring have given rise to JobTech

Linked in Learning

The Skills Companies Need Most in 2020



Top 5 Soft Skills

- Oreativity
- 2 Persuasion
- 6 Collaboration
- Adaptability
- 5 Emotional intelligence





Top 10 Hard Skills

- Blockchain
- 2 Cloud computing
- 3 Analytical reasoning
- 4 Artificial intelligence
- 5 UX design
- 6 Business analysis
- Affiliate marketing
- 8 Sales
- Scientific computing
- Video production

What are the top soft skills for 2021

The <u>top three areas of missing soft skills</u> for candidates today include:

- 1. Problem solving, critical thinking, innovation, and creativity.
- 2. Ability to deal with complexity and ambiguity.
- 3. Communication.

These skills seem to crop up repeatedly in annual lists of skills most desired by hiring teams. For example, Linkedln's annual release of the Global Talent Trend report puts some of these soft skills at the top of the list for desirable employee traits. Linkedln says some of the more in-demand soft skills this year include:

- Adaptability
- Collaboration
- Creativity
- Emotional intelligence
- Persuasion

JobTech Ecosystem

To date, most JobTech companies are tech-driven point solutions solving select problems like identifying or certifying talent. The next generation of JobTech companies provide full-stack pathways to employment, where employers identify high quality talent directly from sources (e.g., colleges), train them, and audit their capabilities before hiring talent full time

Job Seekers

Platforms for Job Seekers ~\$16b

Marketplaces (Job boards, temp worker platforms)~\$4b **Employers**

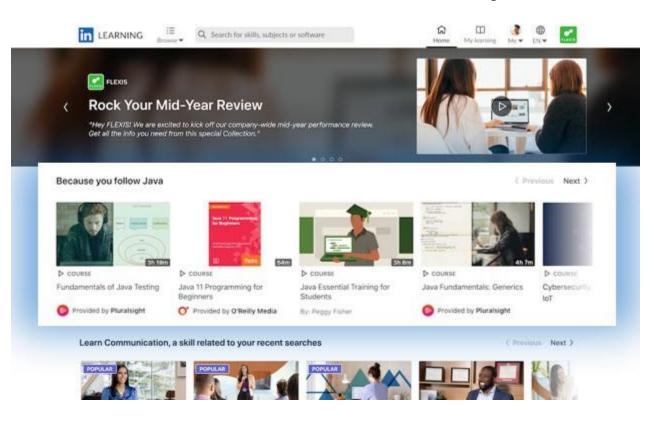
Talent Discovery (Based on Skill, Fit etc.) ~\$1b **Platforms for Employers**

Talent Engagement (Career Coaching, Skill Recognition etc.) ~11b Talent Selection
(Competency Skills
Assessment, Interview
Platforms etc.)
~\$5b

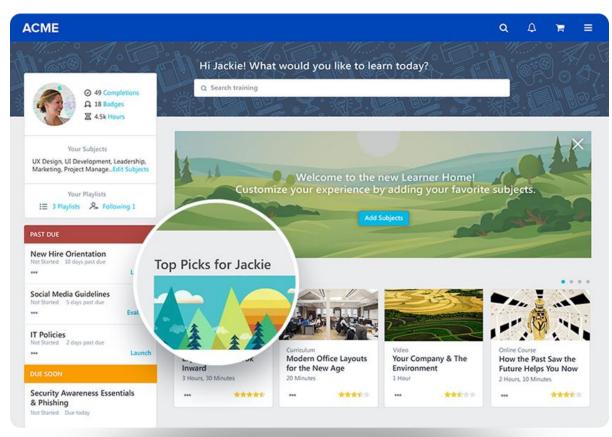
Pathways to Employment (Avenica, TalentPath, WhiteHat) ~\$2b

Labor Market Information

Zwei aktuelle Beispiele für LXPs



https://joshbersin.com/2021/04/in-a-bold-and-aggressive-move-linkedin-unleashes-its-lxp-and-more/



https://www.cornerstoneondemand.de/learning/learning-experience-platform/

One Company's Distributed Learning Platform



By taking a skills-based approach to the hiring process, diplomas and titles can sit alongside assessments, certifications, endorsements, and other alternate methods for determining the capability and fit of a candidate. What's more, by focusing on skills, employers can increase the size of their talent pools, allowing them to pinpoint quality applicants for hard-to-fill roles. Once you've hired them, keep your employees engaged and your company ready to adapt to changing demands by creating a culture of learning. It's how we'll start hiring and developing talent for the future, not the past.



Ryan Roslansky is the CEO of LinkedIn, the world's largest and most powerful network of professionals. Ryan joined the company in May 2009 and has since held leadership roles in every part of LinkedIn's business. He led the evolution of LinkedIn's products into a single, holistic, global ecosystem of 756 million members, 57 million companies, 120 thousand schools, and 38 thousand skills. Under his leadership, LinkedIn has also seen record levels of engagement on the platform and accelerated growth across the company.

0

Competitive intelligence about other applicants

Top applicants



You're in the top 50% of 18 applicants based on your LinkedIn profile

Match based on your LinkedIn profile:

Current Role

Past Experience

Skills

Top skills

You have 5 out of 10 top skills among all other applicants

- Management
- Business
 Development
- ✓ Microsoft Office ✓ Sales
- Business Strategy Marketing
- English
- Negotiation
- Salesforce.com
- Marketing Strategy

Seniority level

7 Senior level applicants

4 Entry level applicants

2 Manager level applicants

1 Director level applicant

Education

46% have a Master's Degree (Similar to you)

31% have a Bachelor's Degree

8% have a Master of Business Administration

15% have other degrees





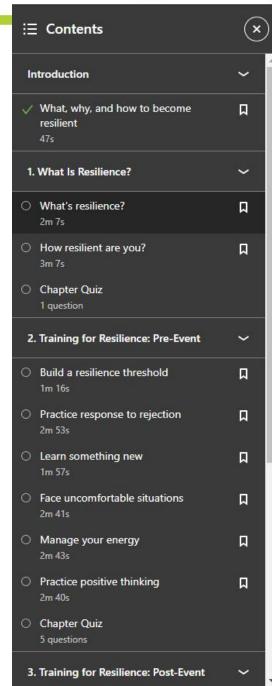








Go to Admin





INSTRUCTOR



Tatiana Kolovou Faculty Member at Kelley School of Business

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RELATED TO THIS COURSE





Certificates · Show all

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Exam · Start Exam

Give feedback

Skills covered

Resiliency

Personal Development

Life Skills

Viewers



20,694 members like this content · 191,892 people viewed this content

CEU - Continuing Education Units (1 certification available)

National Association of State Boards of Accountancy (NASBA)

Continuing Professional Education Credit (CPE): 1

Recommended NASBA Field of Study: Personal Development

Sponsor Identification number: 140940

To earn CPE credits the learner is expected to:

Complete all videos and chapter quizzes

Complete the final exam within one year from completing the course

Score 70% or higher on final exam

Glossary: see PDF file in the Exercise Files area

Program Level: Basic

Prerequisite Education: There are no prerequisites for this course.

Advanced Preparation: There is no advance preparation required for this course.

If you undertake this course for CPE credits, you can leave final comments in the Self Study Course Evaluation.

Skills & endorsements

Add a new skill



Take skill quiz

E-Learning · 68



Endorsed by Gilly Salmon and 30 others who are highly skilled at this



Blended Learning · 30



Endorsed by Asha Kanwar and 1 other who is highly skilled at this

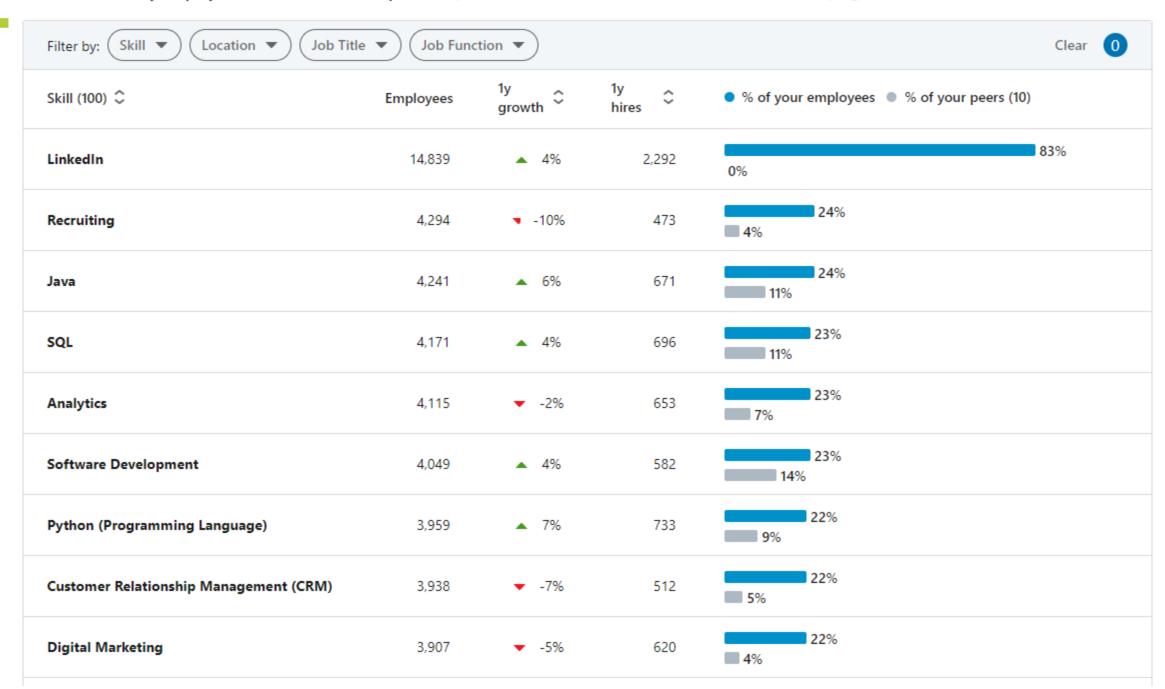


Learning Management · 15



Endorsed by Rebecca Stromeyer, who is highly skilled at this





Hires & Departures By Skill Group

Hires & Departures By Skill Group						
Digital Marketing	1,500	2,447	947	1.63x		
Data Science	1,236	1,492	256	1.21x		
Data Storage Technologies	916	1,058	142	1.16x		
Development Tools	768	1,049	281	1.37x		
Sales Operations	1,000	912	-88	-1.10x		
Web Development	599	882	283	1.47x		
Advertising	766	823	57	1.07x		
Product Marketing	730	686	-44	-1.06x		
Sales Leads	801	618	-183	-1.30x		
Project Management	528	607	79	1.15x		
Recruiting	805	601	-204	-1.34x		
Management Consulting	630	594	-36	-1.06x		
Business Management	571	588	17	1.03x		
Human Resources (HR)	622	580	-42	-1.07x		
Customer Experience	502	544	42	1.08x		
Software Development	376	535	159	1.42x		
Technical Support	403	530	127	1.32x		
Software Development Life Cycle (SDL	380	523	143	1.38x		
Artificial Intelligence (AI)	352	495	143	1.41x		
Enterprise Software	620	482	-138	-1.29x		
	-2,000	0 2,000 Skill Flow	Net Change	Hire : Departure Ratio		

Operations Coordinator Food Server Store Manager Food & Beverage Store Management Operations Coordination Visual Merchandising Teamwork Operations Management Waiting Tables Merchandising **Event Planning** Time Management Loss Prevention Time Management Retail Sales Communication Logistics Management Hospitality Retail Office Administration Inventory Management Customer Service Data Entry Social Media Social Media **Driving Results** Inventory Control Organization Skills Customer Service Multitasking Inventory Management There are over 36,000 unique skills we measure Restaurant Management Event Management across more than 6,000 unique job titles on Public Speaking Teamwork LinkedIn. Here are three different jobs where our Communication Cashiering Customer Satisfaction data shows Time Management - one of the most Teaching **Event Planning** Sales common skills we track - ranks among the top skills. Microsoft Access Team Building Research Big Box Administrative Assistance Interpersonal Skills Fashion Microsoft Access Sales Apparel Public Speaking Merchandise Planning Marketing Catering



Example: Badgr & IDB (& PMI)



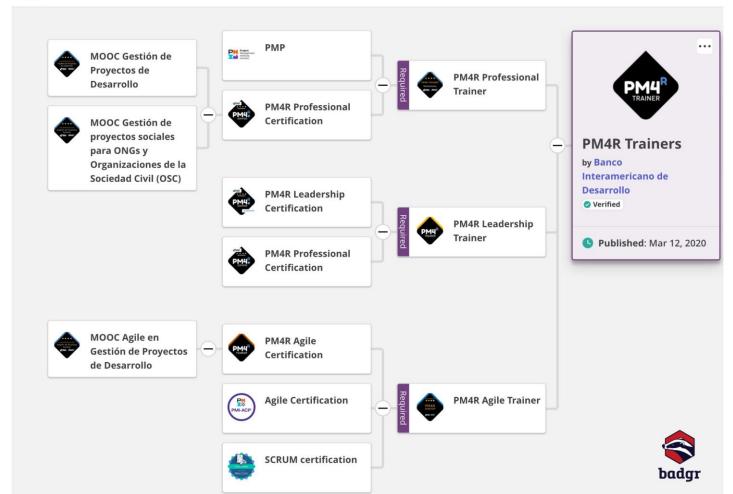






Career pathways with micro-credentials



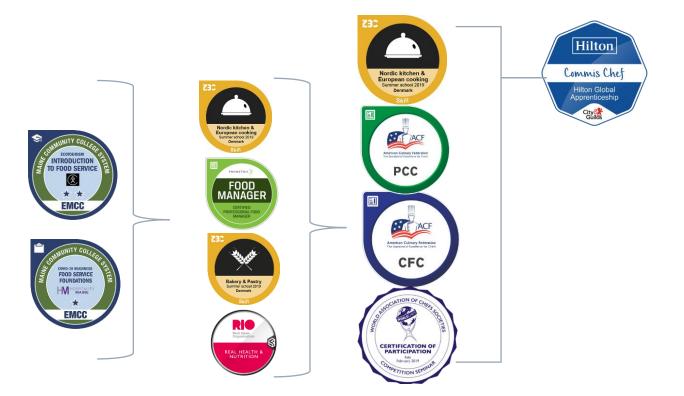


Example: Credly & Hospitality Maine





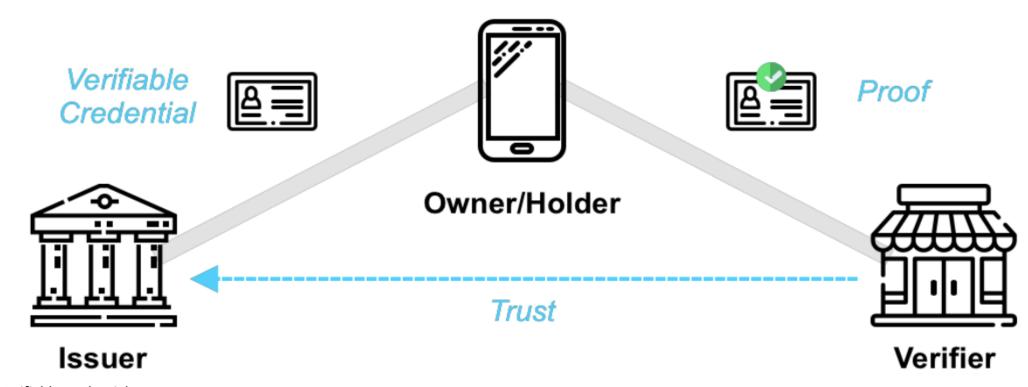
Stackability to employability







What is Trusted Digital Identity?

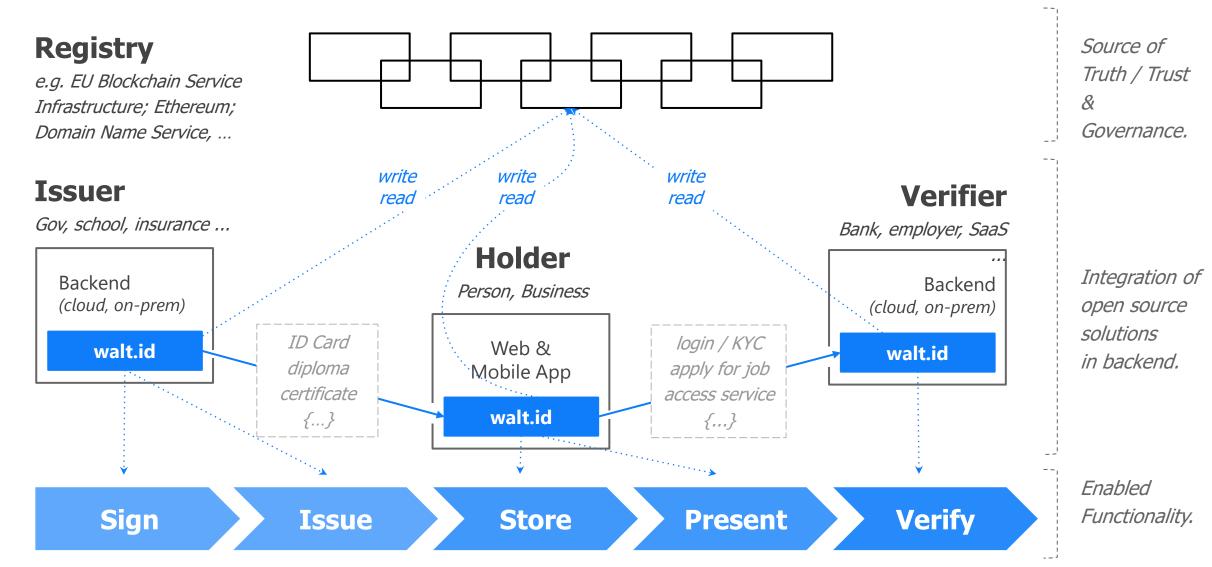


Verifiable credentials are new technology standards for issuing and sharing identity data about **people**, **organizations**, **or things**.

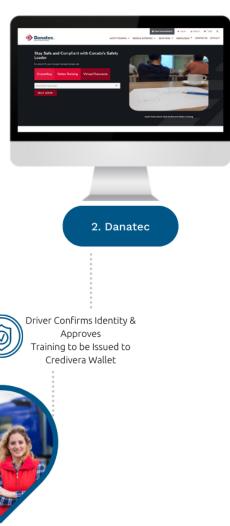
Trusted digital identity confirms that you are who you say you are.

Self-sovereign identity (SSI) keeps the Owner in control of where and how their verifiable credentials are accessed.

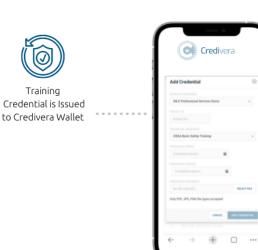
Self-Sovereign Identity (SSI) example via walt.id



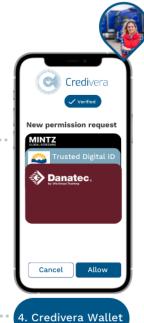
Example: Credivera



1. The Driver



The Driver
Attaches
Additional
Regulatory Proof
to Their Training
Credential



The Driver and the Employer Have a Shared View of the Verifiable Digital Credential



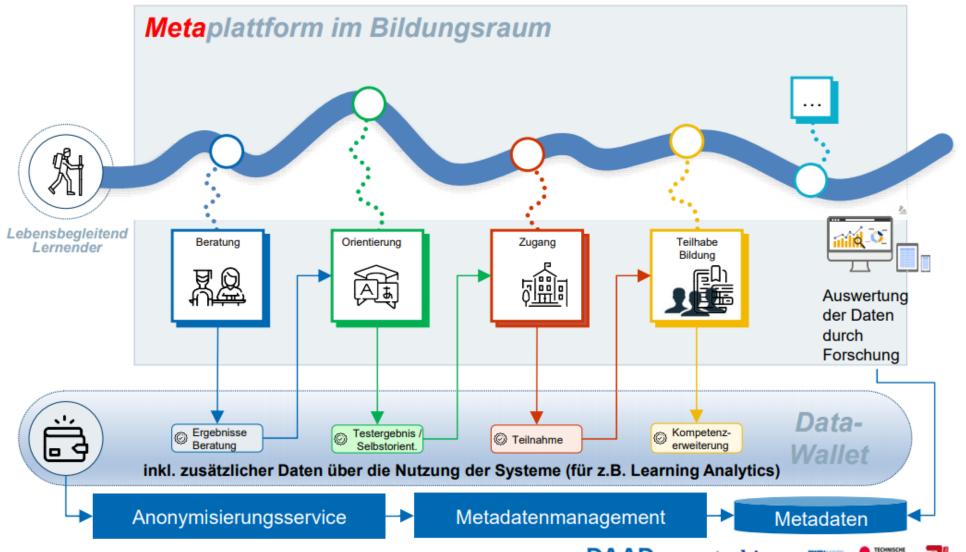


3. Credivera Wallet

5. Employer System



Nationale Bildungsplattform für eine durchgängige Nutzungsreise











Beispiel: Rich Skill Descriptors als Verbundstoff

RSDs & Digital Badges: Achievement Levels





Required fields

Infrastructure Component Security

Author: Western Governors University

Published Jan 26 2021

SKILL STATEMENT

Secure Amazon Web Services (AWS) infrastructure components, including Amazon Elastic Compute Cloud (Amazon EC2), Amazon Simple Storage Service (Amazon S3), and hosted database instances. RICH SKILL DESCRIPTOR

Infrastructure Component Security

Author: Western Governors University

@ Fublished (an 26 2021

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CATEGORY

AWS Certified Security Specialty

KEYWORDS

AWS Certified Security Specialty; AWS Cloud Security

STANDARDS

NICE: Protect and Defend

CERTIFICATIONS

CCSP

OCCUPATIONS

DETAILED OCCUPATIONS

15-1212 Information Security Analysts

O*NET JOB ROLES

15-1122.00 Information Security Analysts

View All Groups

EMPLOYERS

ALIGNMENT

AWS Certified Security Specialty

COLLECTIONS WITH THIS RSD

Cybersecurity Collection



Supporting metadata

CATEGORY

AWS Certified Security Specialty

KEYWORDS

AWS Certified Security Specialty; AWS Cloud Security

STANDARDS

NICE: Protect and Defend

CERTIFICATIONS

CCSP

OCCUPATIONS

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View All Groups

EMPLOYERS

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OPEN SKILLS NETWORK

Skills covered

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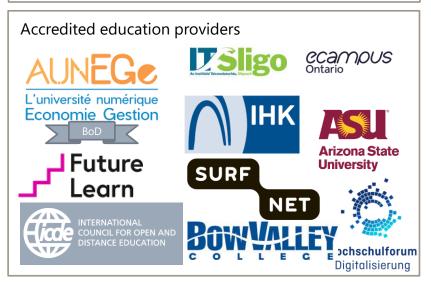














Formal Learning





Non-formal Learning







Informal Learning







Recognition































TERRAHUB Sealing

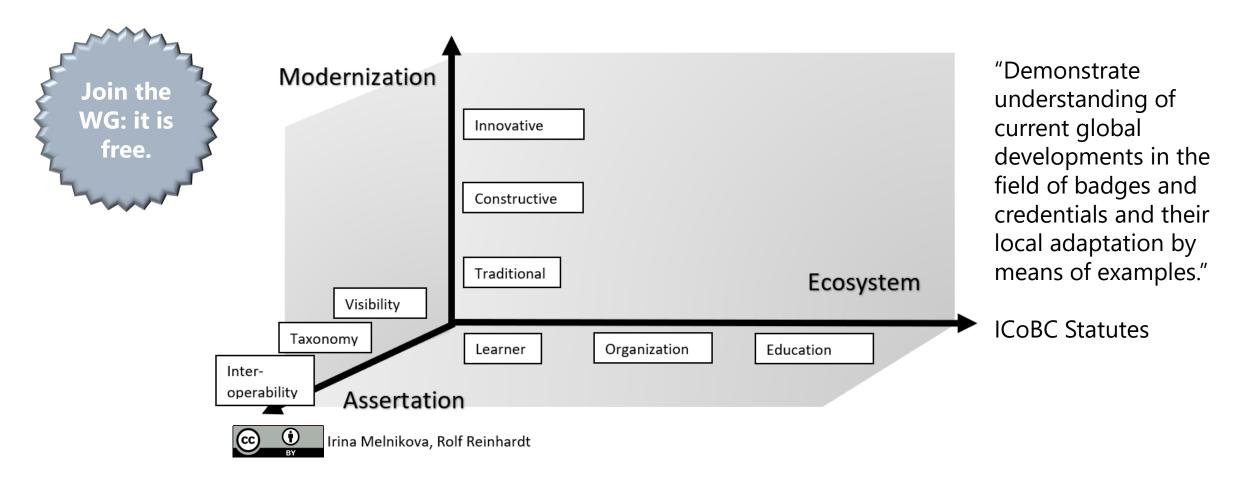








Large Orgs: The BCM-FLO Workshop Format





ICoBC Taxonomy, Quality Criteria, and Quality Grid
AUGUST 2021

Ebba Ossiannilsson, Chair and Abtar Darshan Singh ICoBC

Access via www.icobc.net

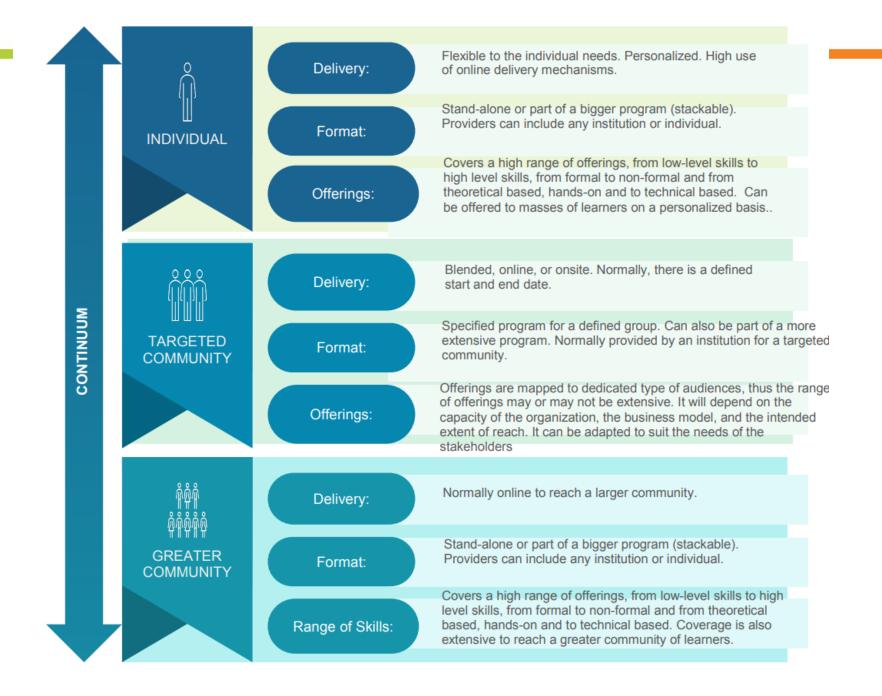


Figure 1. ICoBC Taxonomy for Badges and Micro-credentials

Einladung zu unserem ersten Symposium in Berlin am 30.11. unter anderem mit...









Sheila Jagannathan Global Head Digital Learning & Capacity building World Bank

Klemens Riegler Managing Director Bildungsplattform der WKÖ GmbH

Sue Martin Global Head Personnel Certification TÜV Rheinland

Doug Belshaw Founding Member We Are Open Co-op

