



About me - and my bubble

Deputy Vice-Chancellor Education at Deakin University 2013-18

Pioneered three types of micro-credentials since 2013 Led implementation of full degrees on FutureLearn

Now working independently

Researching and advising on micro-credential and digital education strategies

tiny.cc/agc

ASSURING GRADUATE CAPABILITIES

HOME

CAPABILITIES

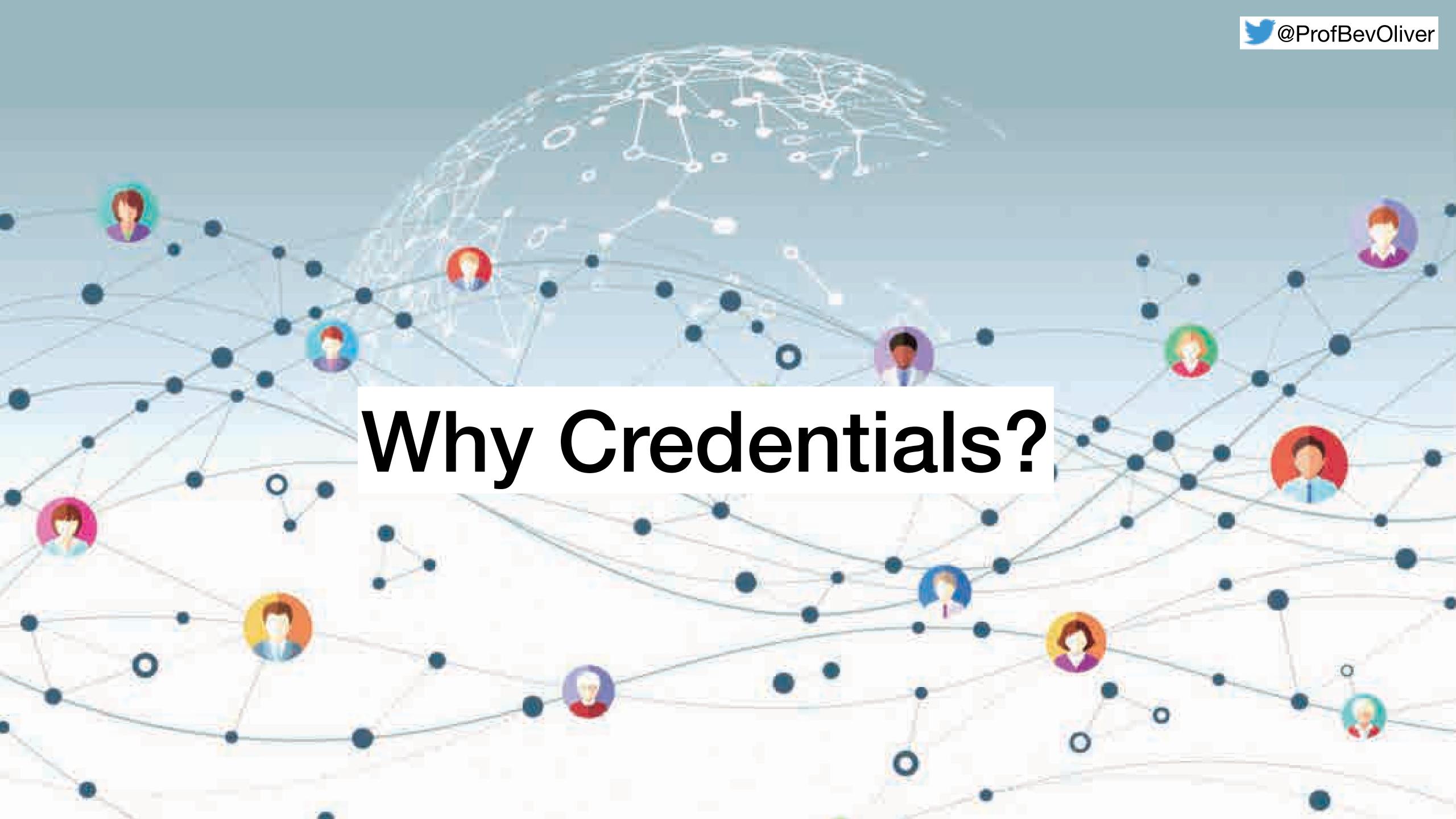
EMPLOYABILITY

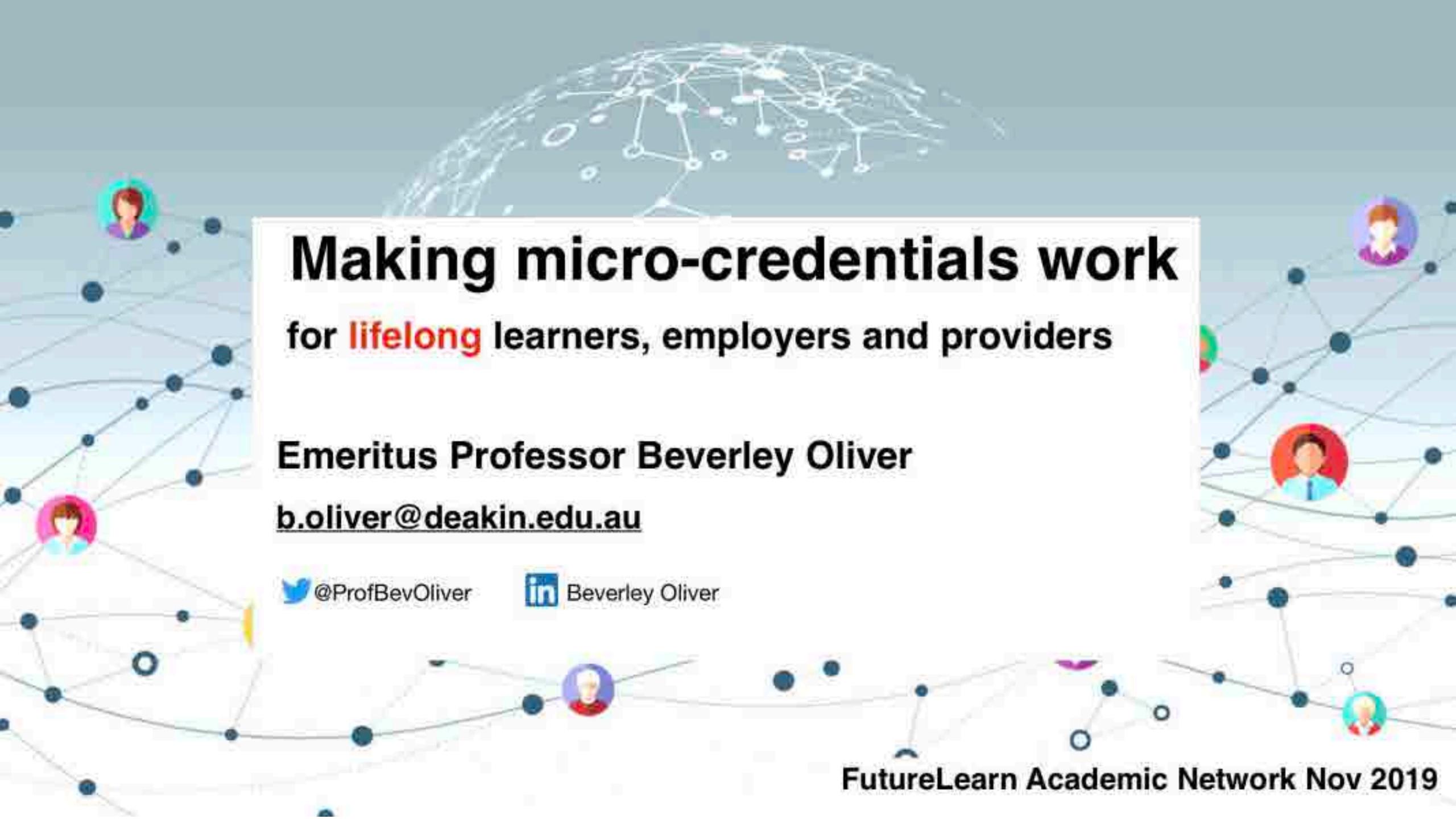
MICRO-CREDENTIALS

QUALIFICATIONS

GOOD READS

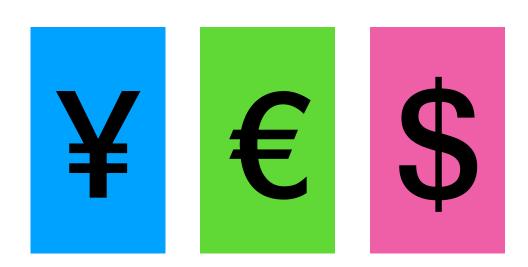
CONTACT







An analogy





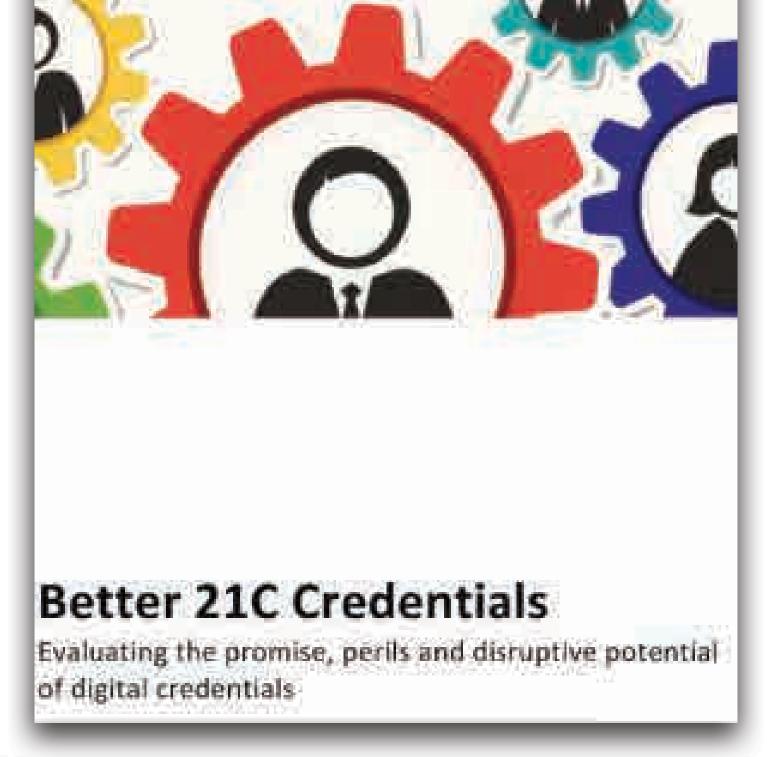
Money

Credentials

Global system
Enables exchange of value
Bankable and re-useable
Major recognisable currencies
New currencies can be added
Increasingly digital - even bitcoin
Fraud

Could be more global and interoperable system
To enable exchange of value - learning certification
Building on recognisable types: Bachelor, Master, Doctor
Adding new currencies - micro and macro - that build over the lifespan
Increasingly digital - online or blended
Better verification, less fraud - universal challenge
A means to improving your circumstances





January 2016

Are digital badges, micro credentials and MOOCs leading to 'better' twenty-first century credentials?

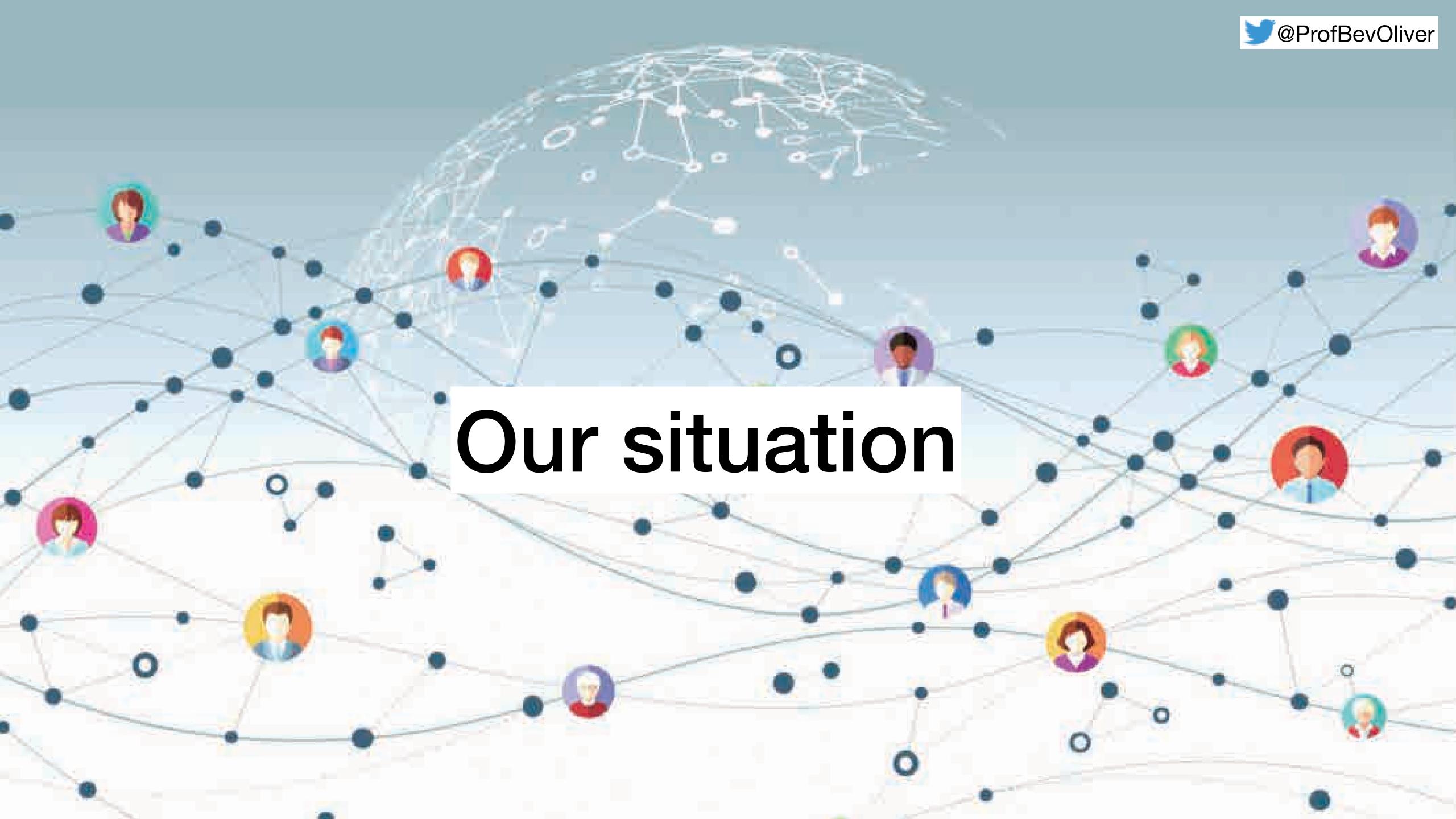


August 2019

How to make micro-credentials work for

- learners
- employers
- providers

And for the future of work... a global view focussing more on the mature learner





Highest educational attainment - selected countries

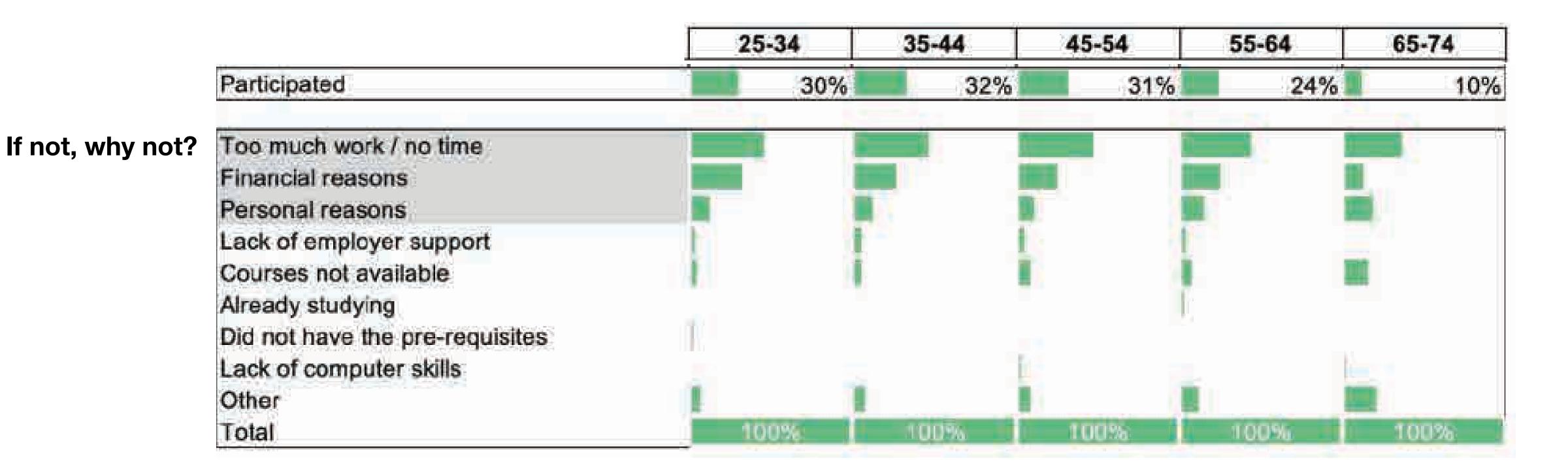
Table 1: Educational attainment of 25–64-year-olds (2017) Percentage of adults with highest level attained

	Lower secondary	Upper secondary	Short-cycle tertiary	Bachelor's or equivalent	Master's or equivalent
Australia	14	30	12	26	7
Belgium	15	35	0	22	17
Denmark	16	42	5	21	13
Finland	9	43	12	17	15
France	14	43	14	10	10
Germany	10	46	1	15	12
Iceland	23	27	3	21	17
Ireland	12	22	10	25	10
Israel	7	36	14	23	12
New Zealand	21	27	4	28	5
United Kingdom	17	19	10	23	12
United States	6	44	11	23	11
Key:	0-9%	10-19%	20-29%	30-39%	40%+

Source: OECD Education at a glance, 2018



Who engages—or not—in non-formal learning?



Non-formal learning activities are structured training or courses that do not form part of an award or qualification (e.g. Degree or Certificate) recognised by the Australian Qualification Framework (AQF).



Will our current level of engagement in post-compulsory formal and non-formal education set us up for a better future and future work?

What are the key barriers and disincentives?

How can we change them?



Chaos and confusion

Why bother with a degree? What are degrees so expensive?

What is a micro-credential?

What do all these micro-credentials mean?
What is their standing?
Which should we invest in?
Which should we trust?
Will they bring value?

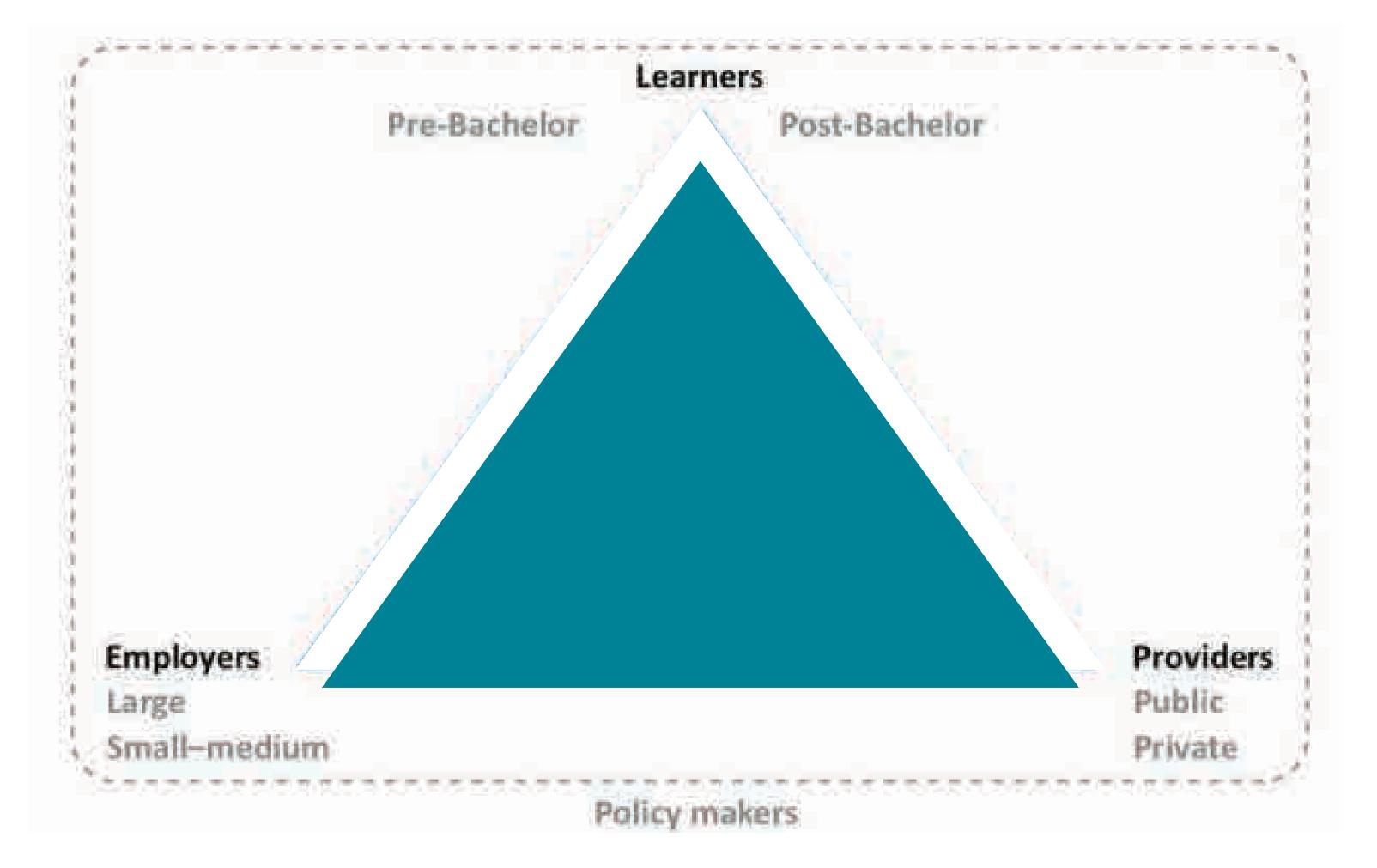


Qualification distopia

For traditional learners, displaced workers, and displaced migrants



Distopia - a degree of dissatisfaction for stakeholders



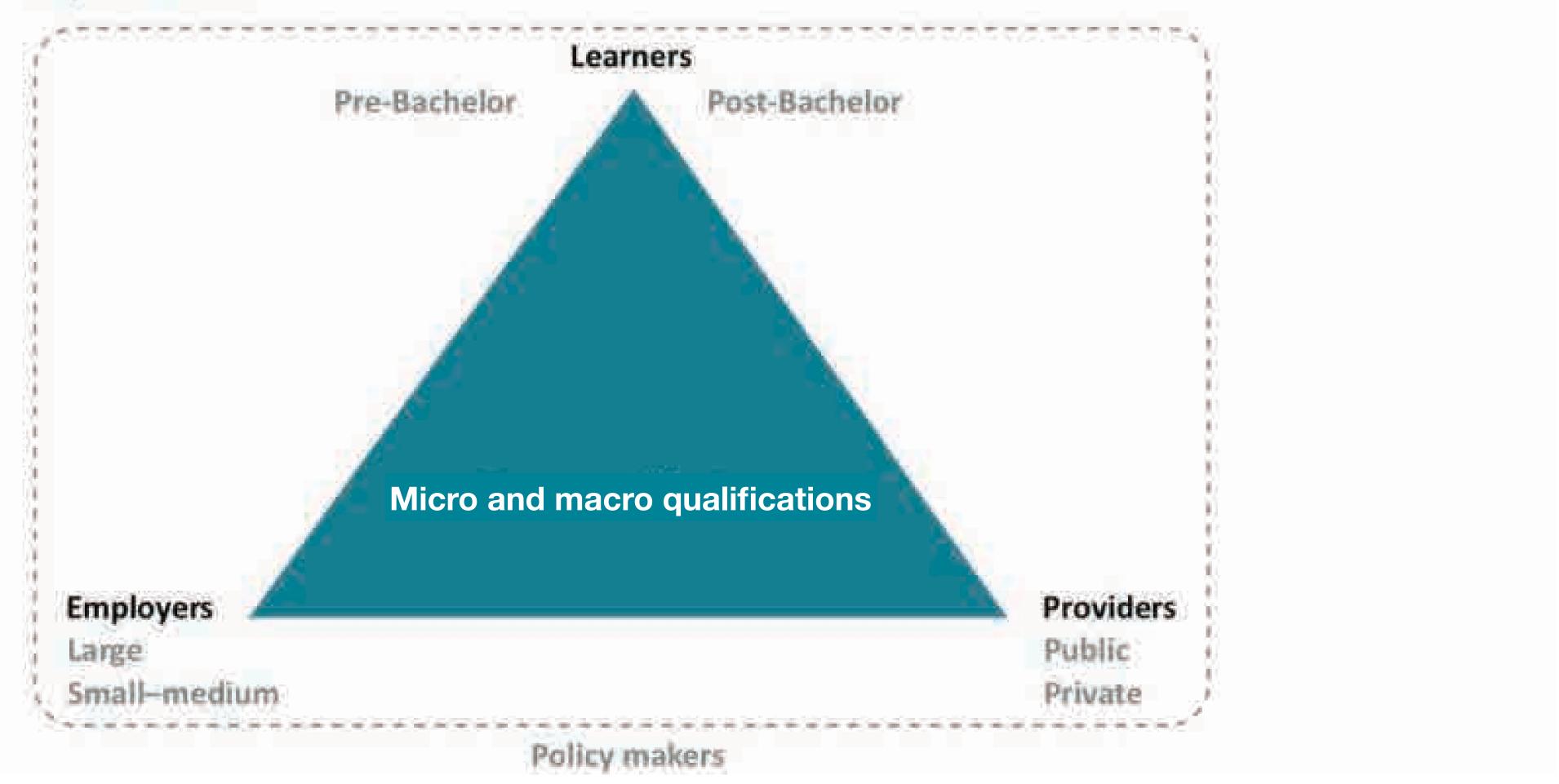
Cost outweighs value, inc. career outcome Trustworthy?

Not interoperable across the lifespan, life stages and borders



Edutopia

Figure 1: In an ideal qualifications system, policy makers manage levers to incentivise equitable benefits for the major stakeholders

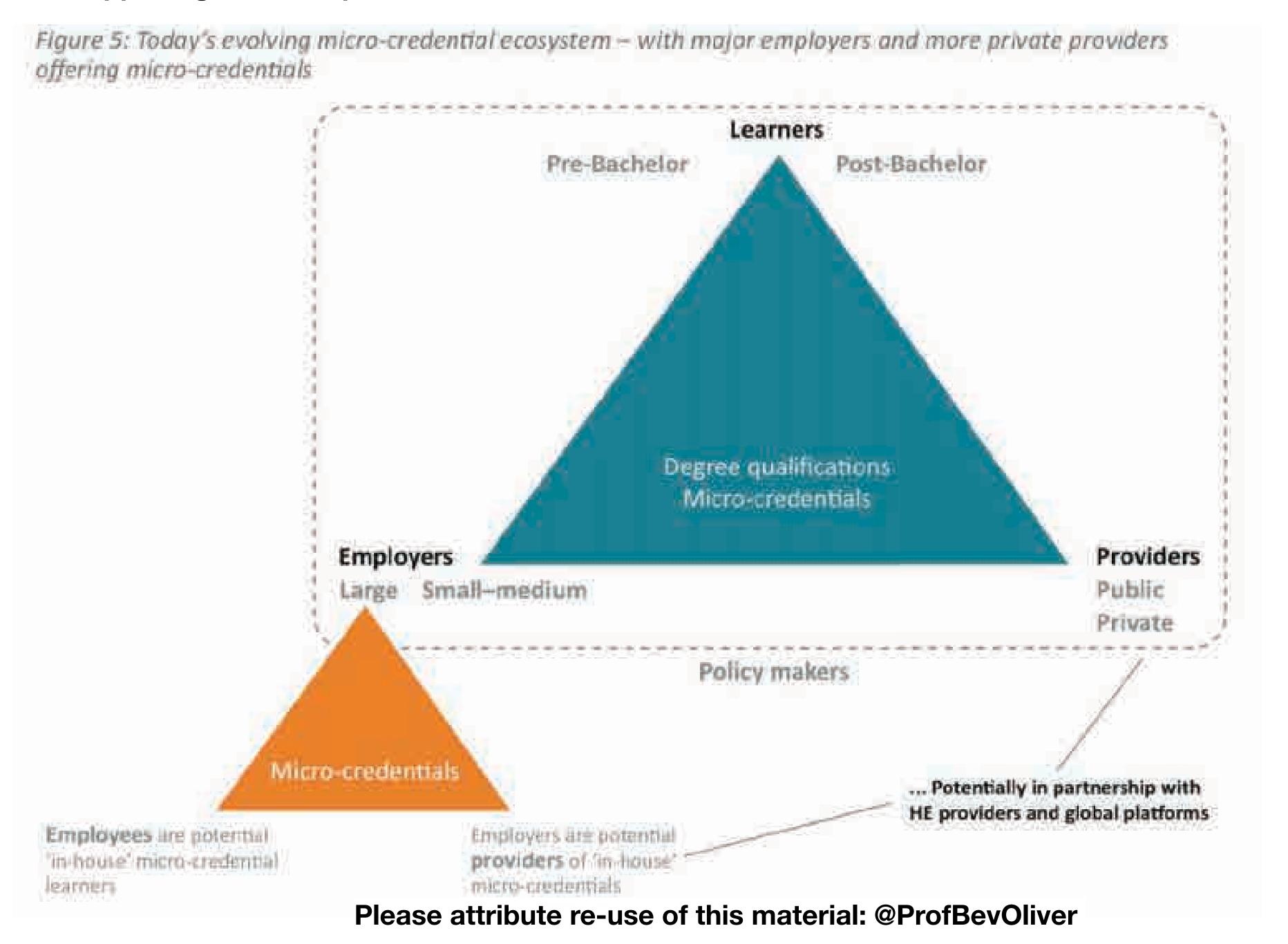


Value outweighs costs
Trustworthy: verified
Interoperable across the lifespan, life stages and internationally



Now what's happening...it's complicated





Badge system 'future-proofs' EY employees

Edmund Tadres

EY has issued hundreds of digital budges to local stuff for developing new skills; as part of a mascent in-house training program designed to provide on-demand education at a lower cost.

The EY Hadge system, bunched in late 2017, allows stuff to corn badges for completing courses ranging from data visualisation through to design thinking and cyber security.

The firm, formerly known as Ernet & Young, has issued almost 400 budges ucross 18 courses to stoff locally as part of the internally designed and assessed training system.

The model cuts down on the cost of classroom based training by emphasising online learning combined with internal and client based application of the knowledge.

"The budges are designed around the modern way of learning. So that's moving towards bite-sized content on demand. You can learn whatever, whenever," said Anne Remwick, the firm's learning and development loader.

The budges have four levels - bronze, selver, gold and plattaum - and require the staff member to complete a combination of deline learning and application of the knowledge.

The original design of the levels has been leasured to make the system more accessible to staff members. A brooze budge still demonstrates basic inawyledge in an arco. But the silver

and gold bodges, originally designed for stuff with significant client responsibility and subject matter experts, are now available more broadly.

to a similar way, the platinum budges, originally designed to be for the i per cent of EY staff globally who are industry experts, is available to any staff member who fulfils the learning requirements.

There's three dimensions to the budges. There's the learning component and for the brungarlevet, you've got to demonstrate a basic understanding of the skills by doing about 20 hours of learning. There's a portal which curntre different types of learning, whether it's with webcusts, Ted Talke, it might even be chantoom learning that you can use to contribute to that backge,' Ms Benwick said.

Then you have to apply it, you have to activate that skill through different experiences, and there is nome structure and ideas around what type of experiences you can use.

"And then the Wird dimension is around contribution, So, how do you give back to the firm, to our community in the application of that learning?"

The firm has designed its own curriculum for medilevel of budge, and the assessment is also done internally.

"An individual's controllor, which is like their development leader, reviews the [staff member's work] and then the badge's [subject matter expert] reviews it to make sure that it's relevant, that it's deep enough...[the] level of review gets

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etral	345	27	146.6	3	368



a little bit more strangest the higher bidge level is," she said.

Casey flury, a sensor committant in the firm's tax technology and transformstion business, has taken advantage of the budges system in pirot away from his economics background. The 25-year-old has already earned two platinum backgrs, in robotic process automation and data visualization.



EY's Anne Renwick says the system is designed around the modern way of learning; and Casey Bars; who has taken part. FHOTO: DOMING LONGMES

I don't have a rethinology buckground, that's why I parmed these because I work at EY day in, day our doing this work.

"For me, it's a way to future-poolmyself," he said.

The plotinum bidges required at least 80 bours of training, which he did at bone and at work.

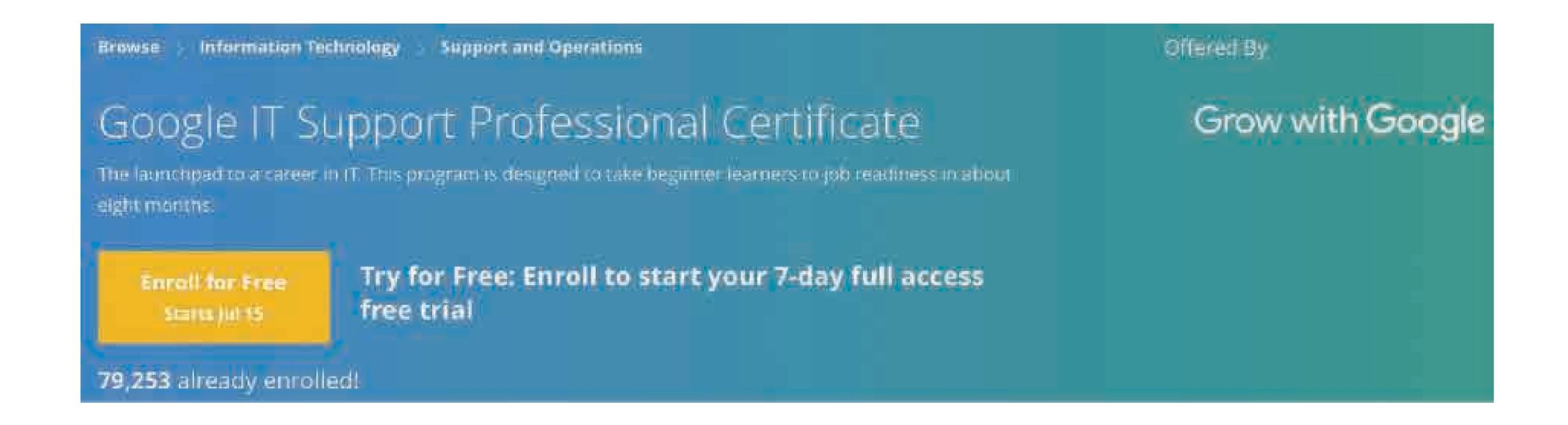
The online fracting tends to be our side of work linurs, the contribution and experience tends to be ducing work hours. Mr Barr said.

The data virtualization, I had to work on a really high number of engage ments and apply the entire spectrum of tasks. I had to have used Josephicstonaj Tableau, Power III and Qlik I also had to contribute to forums, I had to write a piece that was published within EY on my views on how visualization is changing the industry."

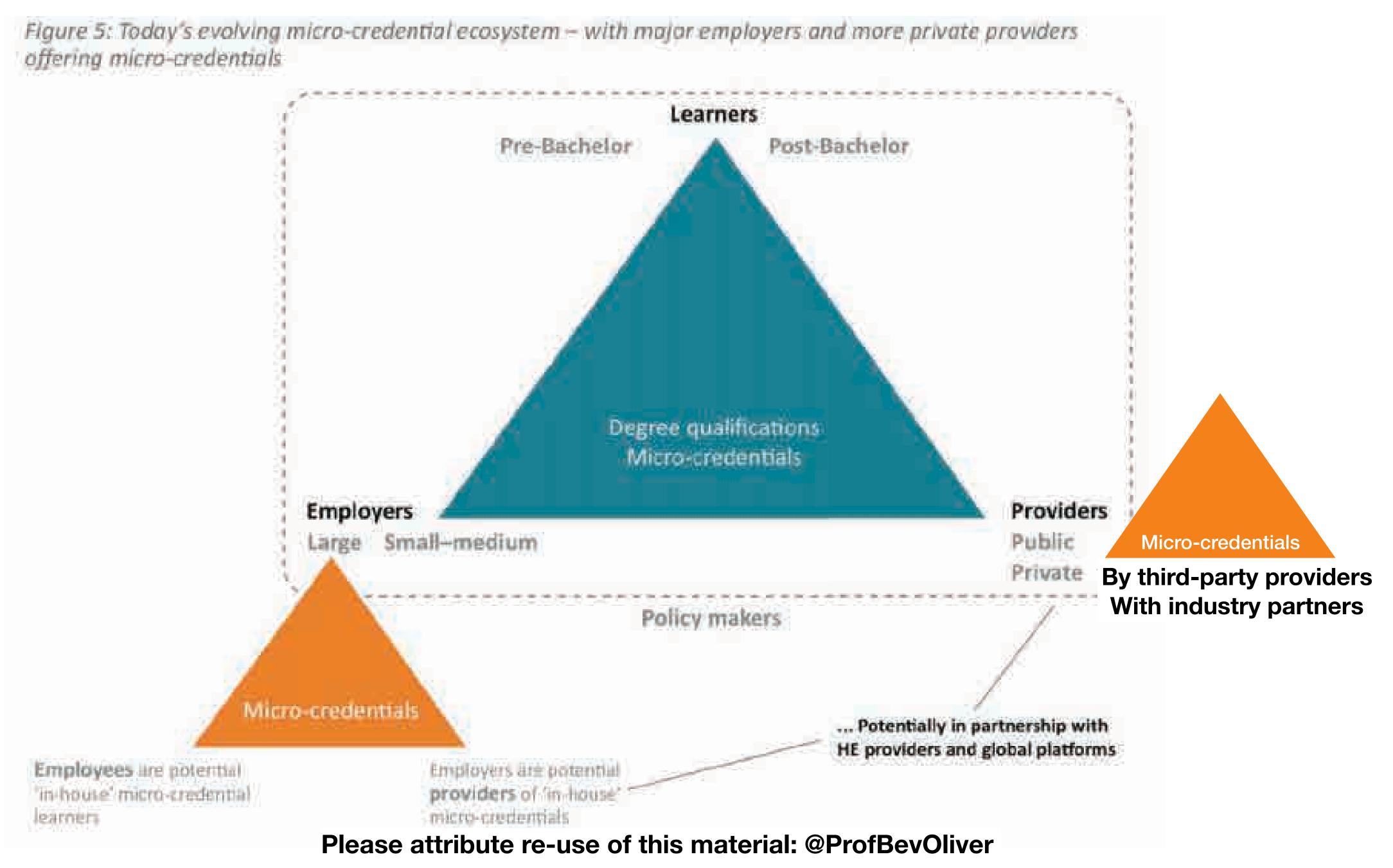
Ms Remvick said the budges carrently all alongside traditional clausroom-based learning, which is "probably the most expensive way to learn because you generally have to fly people into one location".

These are tailored to what [the stuff inember] awads and I think that this idea of 'choose your own adventure', that's absolutely what we have that people want."









What graduates receive



BECOME A WEB DEVELOPER IN 24 WEEKS

- A robust portfolio of projects to demonstrate your working knowledge of web development.
- Graduates benefit from a Project Demo Day—quarterly networking event with local professionals to showcase their final projects.
- Continued one-on-one career coaching with your Career Director post-graduation.
- A Certificate of Completion from Monash University showcasing your accomplishments to future employers.

The Monash University Coding Boot Camp is offered in partnership with Trilogy Education Services (Australia) Pty Ltd., a 2U, Inc. brand.

About Trilogy Education Services

Trilogy Education is a workforce accelerator that empowers the world's leading universities to prepare professionals for high-growth careers in the digital economy. Thousands of people around the globe have completed Trilogy-powered programs, and more than 2,000 companies—including 50% of the Fortune 100—employ them.

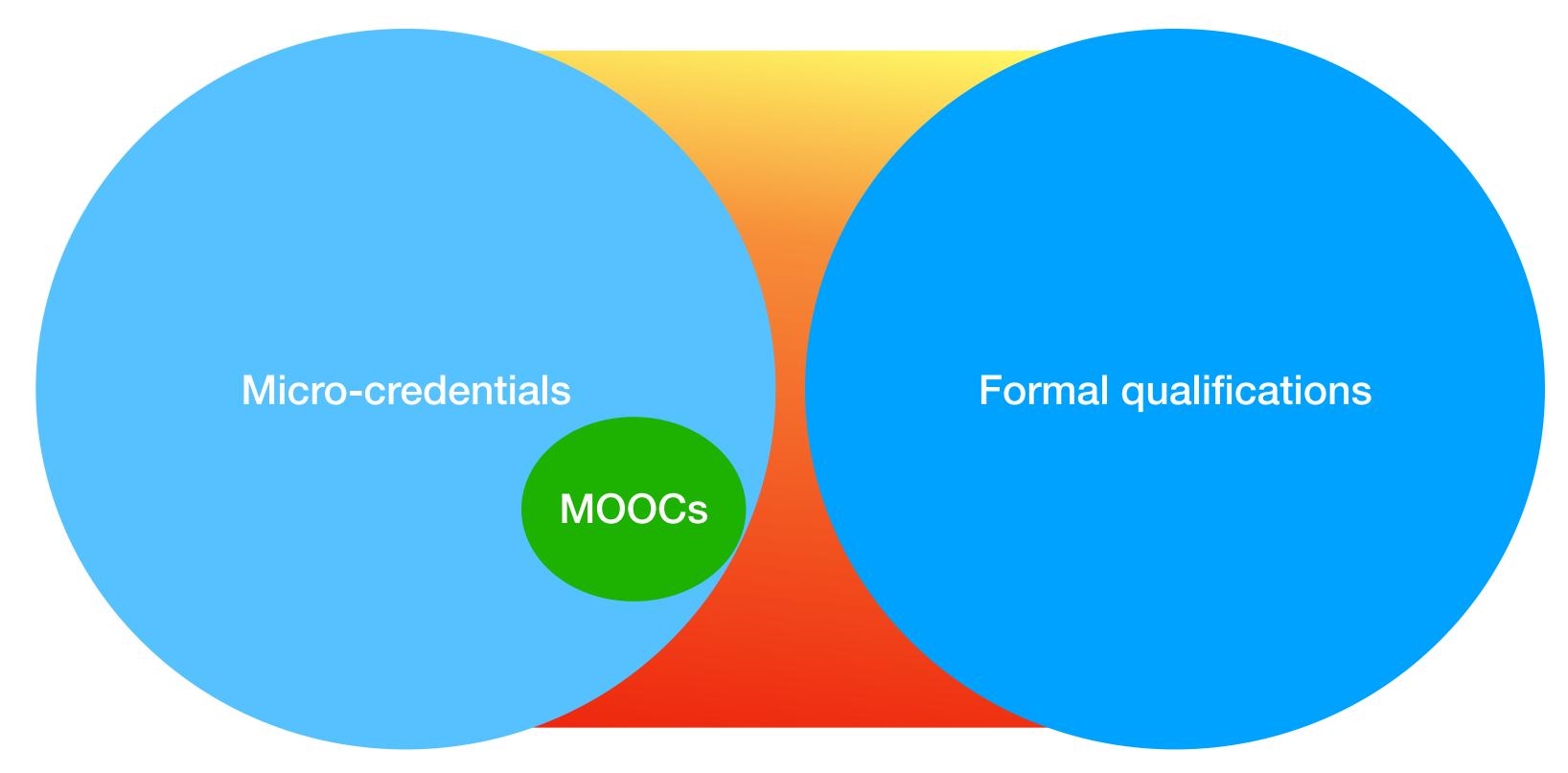






Micro-credentials

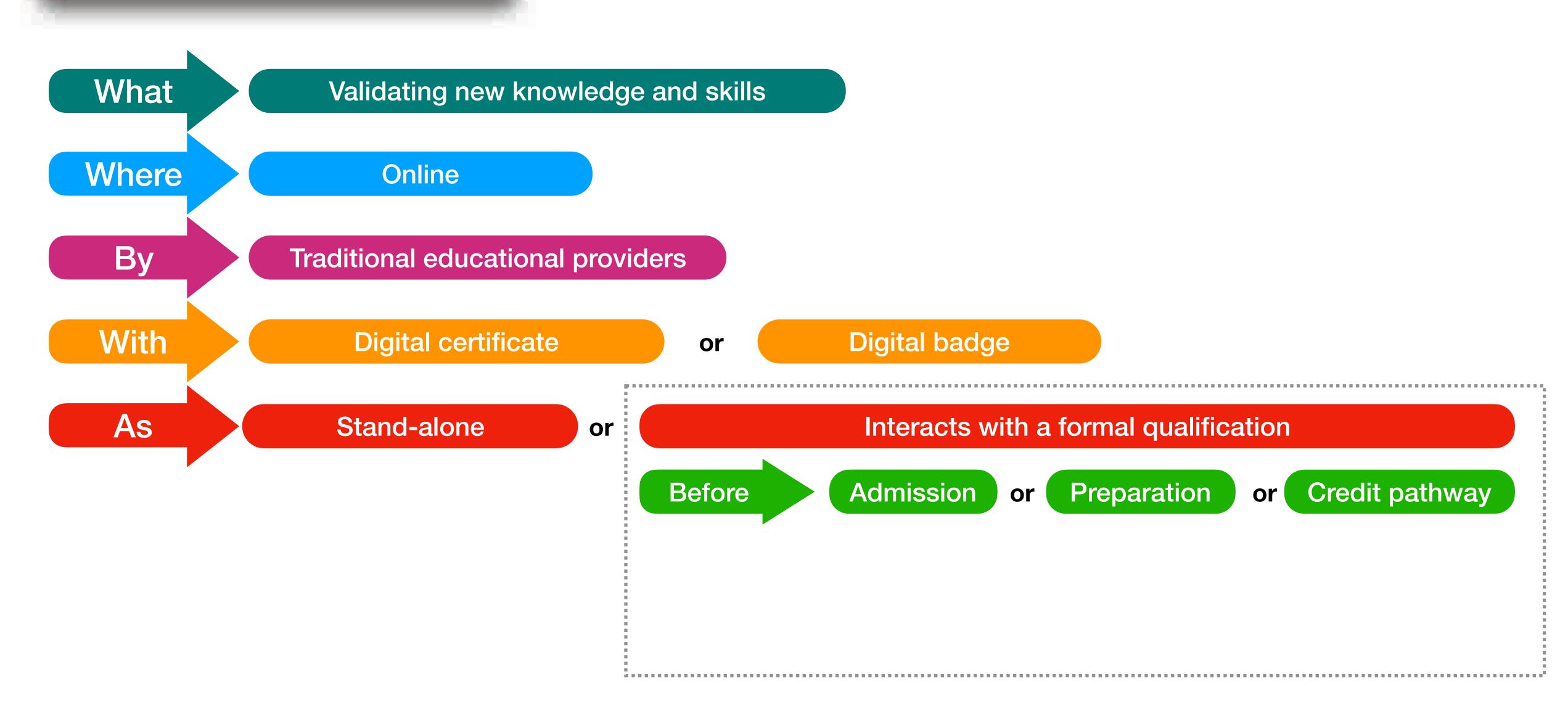
A micro-credential is a certification of assessed learning that is additional, alternate, complementary to or a component part of a formal qualification.



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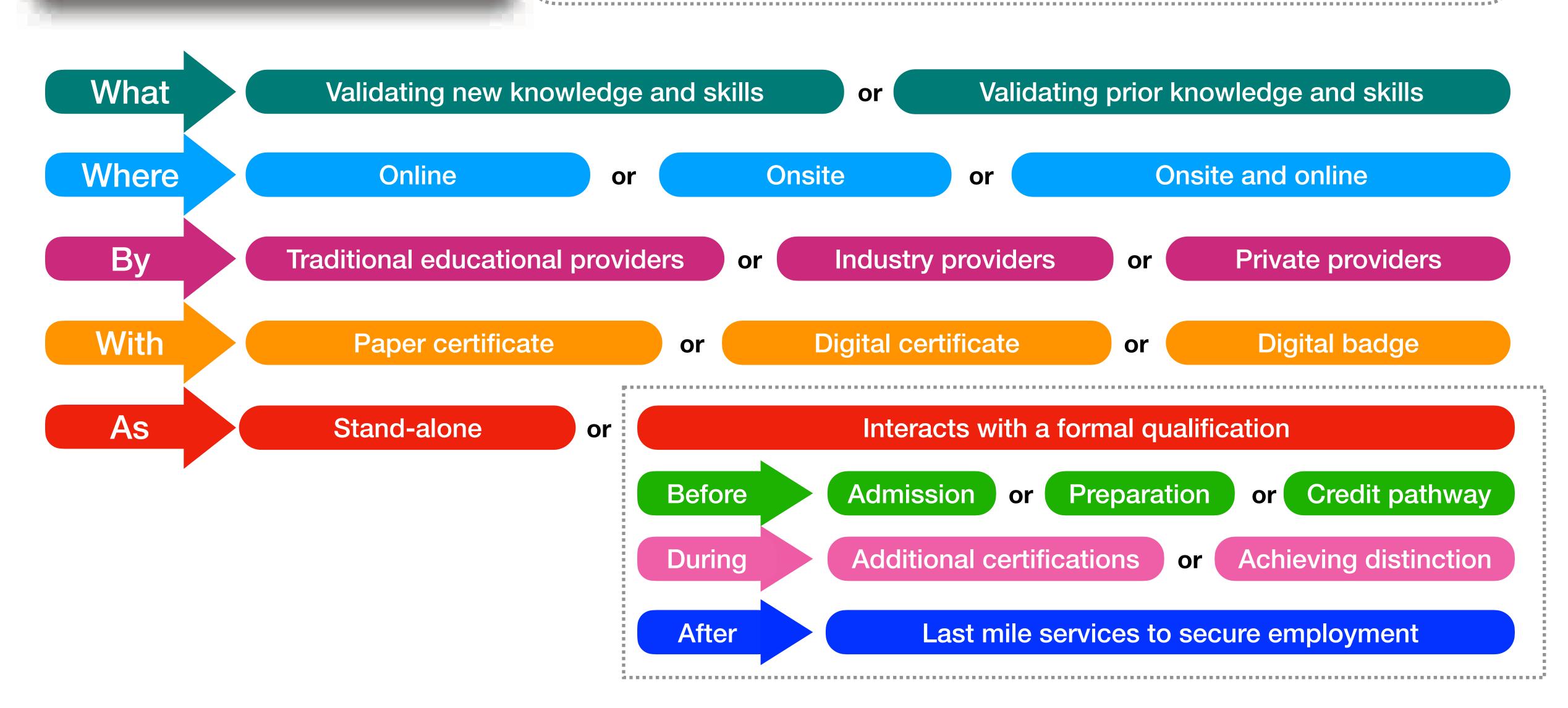


MOOCs



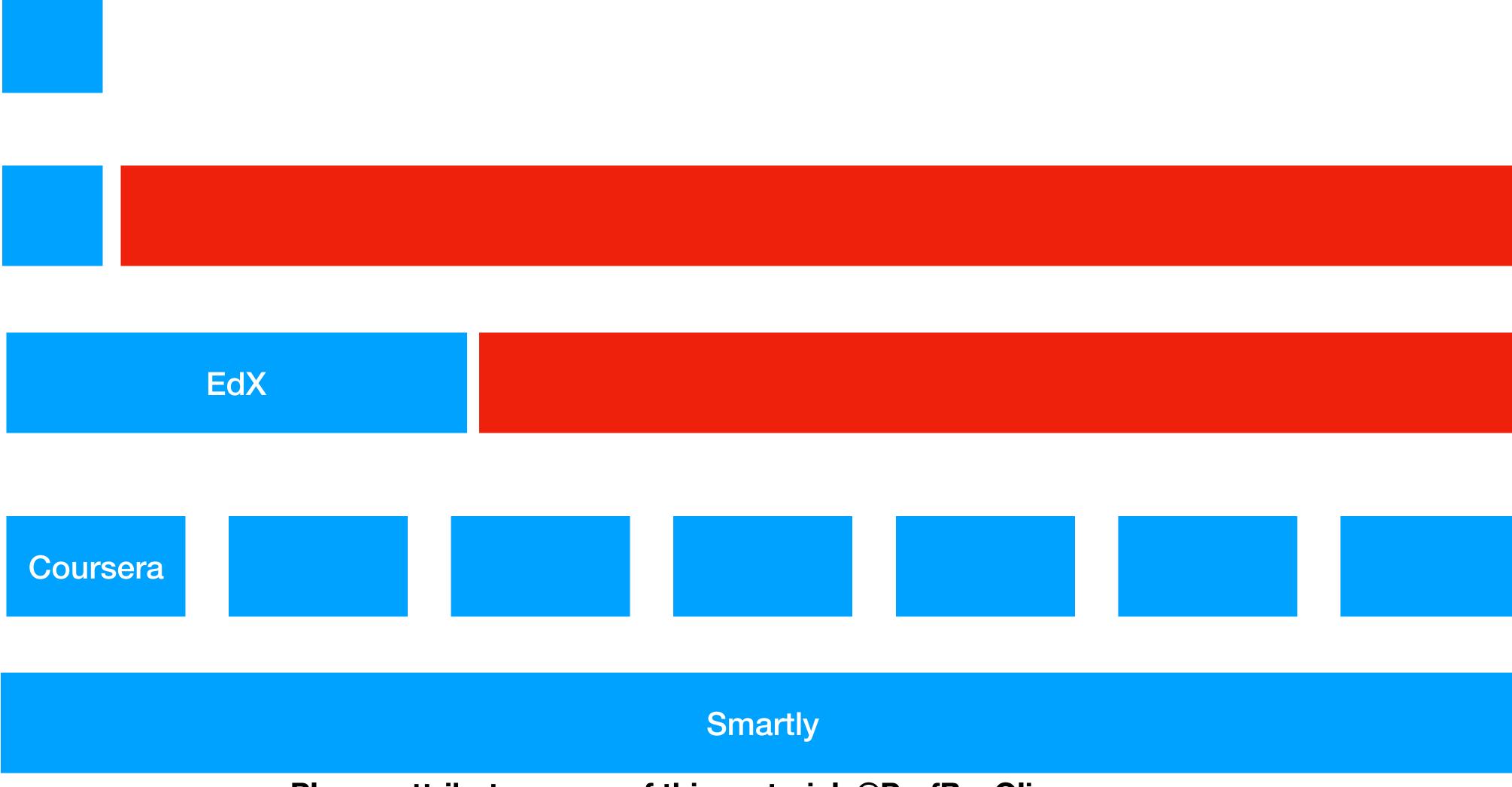
Micro-credentials now

Also known as alternative credentials, MOOCs, certifications, short courses, bootcamps, intensives, MicroMasters, masterclasses, nano degrees, Specializations...





What's a micro-credential, and what is not (in the world of 'MOOCs')?





Two definitions

A micro-credential is a certification of assessed learning that is additional, alternative, complementary to or a component part of a formal qualification.

Credit-bearing micro-credentials lead to an offer of admission to or credit towards at least one formal qualification, regardless of whether or not the offer is taken up by the learner. They mirror and contribute to the academic standards required in the target qualification. The duration and effort required are in keeping with the amount of credit earned.

Table 3: Information that could be included in a critical information summary	
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	SI IOIDE
Title and brief description (30 words)	Insert name of certificate
Certified learning	In up to 100 words, describe what the successful learner knows and can do based on their assessed learning
How learner participated	Choose one: Online only, Onsite only, Both onsite and online
Effort required (including assessment)	Insert number of hours (for typical learner)
Complexity of main assessment task	Choose one (best fit): No assessment Testing recall of facts Application of a skill to a routine problem Application of a skill to a complex problem Application of multiple skills to routine problems Application of multiple skills to complex problems Portfolio and reflective evidence for validation of proficiency
Supervision and identity verification	Choose one (best fit): Unsupervised, no identity verification

How could we make the value clearer?

Critical information summaries

	Fortiona and reflective evidence for validation of p	Tonciency	
Supervision and identity verification	Choose one (best fit): Unsupervised, no identity verification Supervised online or on-site, identity not verified Supervised online, identity verified (one factor) Supervised online, identity verified (two factors) Supervised onsite, identity verified (one factor) Supervised onsite, identity verified (two factors)	dentity verification or on-site, identity not verified identity verified (one factor) identity verified (two factors) identity verified (one factor) identity verified (two factors) identity	
If assessed, equivalent level (main task)	Choose one: Not at degree level/Pre-Bachelor/Bac Pre-Masters/Masters/Doctorate		
Quality assurance	Nil, or insert names of governing or endorsing bod		
 Successful learner earns: admission to a degree program credit towards a degree program If yes, how much credit? 	Choose one: No/Yes – state degree(s) and institution Choose one: No/Yes – state degree(s) and institution State credit in units (a unit is a typical semester of degree program). For example:		
	Credit is less than one unit:	0.4 unit	
	Credit is one unit:	1.0 unit	
fBevOliver	Credit is more than one but less than two units:	1.5 units	





Jain course feeting

					Title and brief description (30 v	vords)
Overview	Topics	Start Dates	Requirements	Educations	Certified learning	
		110				
100						
		N.				

•	Certified learning	Successful learners can: describe partnership-centred care; explain the benefits of a partnership-centred model of care for older people, their family and healthcare teams; explore how partnership-centred care strategies can be developed and applied to best support the needs and preferences of older people.

Critical information summaries

The state of the s				
Online				
Application of a skill to a routine problem Unsupervised, no identity verification Not at degree level				
				Deakin University supported by the Wicking Trust
				Disc.
				No
No				

Caring for older people: a partnership model.

Deliver value

Offer micro-credentials that deliver the promised benefits, particularly a path to decent work through quality education



Building peace in the minds of

WHERE WE WORK

PARTNERS

Promise Harrison Programmers of English educations of English Conventions on the Secondition of English Enconi

Global Convention on the Recognition of Higher Education Qualifications Project





CHAPTER 1.

World Reference Levels for lifelong learning: A tool for comparison and recognition of learning outcomes

CHAPTER 2.

Beyond qualifications as we know them today: Digital credentials and interoperability

CHAPTER 3.

The role of learning outcomes in governing and reforming education and training: Reflections on strengths and limitations

CHAPTER 4.

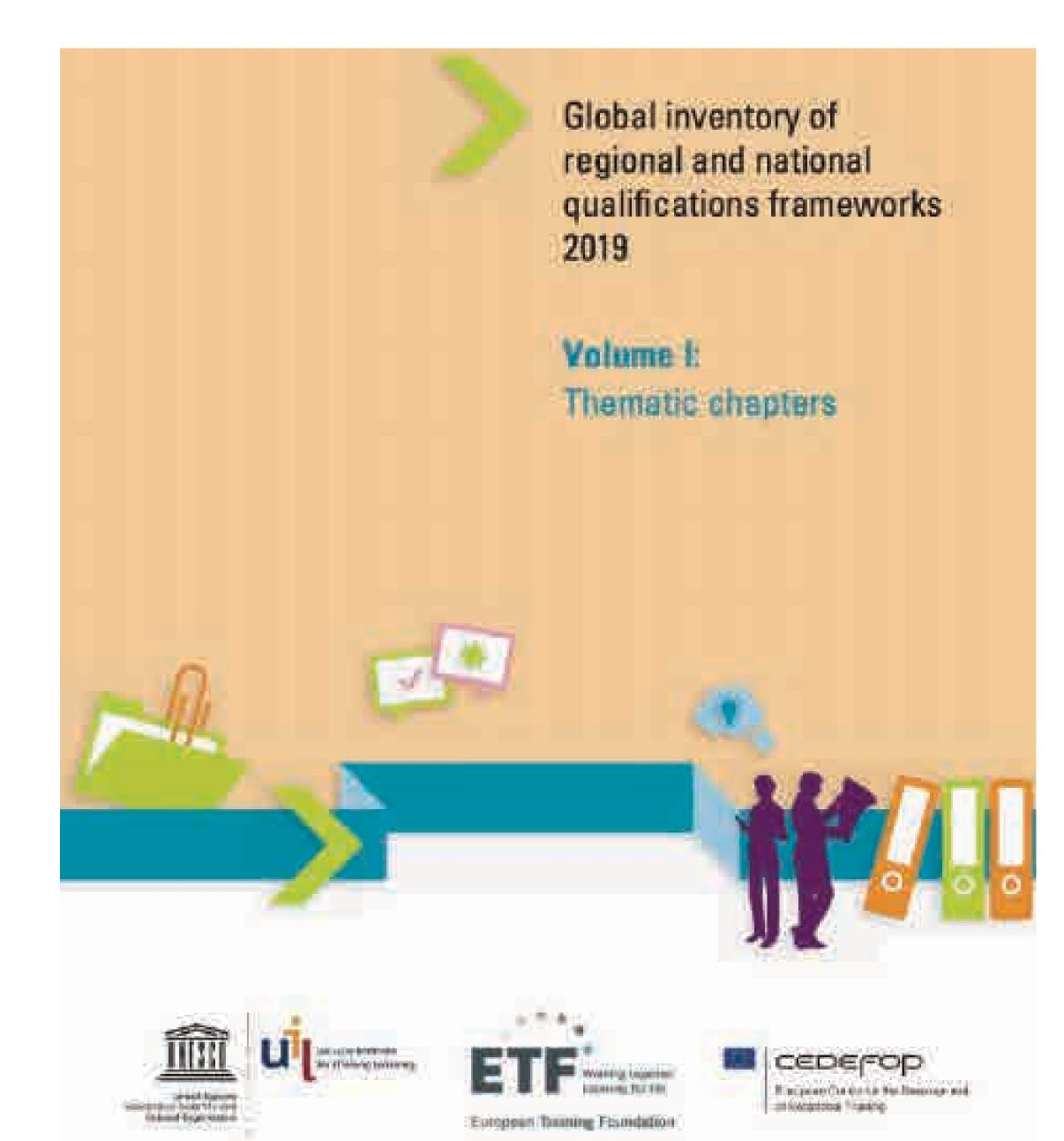
RVA that counts: What data do we need to nurture recognition, validation and accreditation of prior learning?

CHAPTER 5.

Recognising prior learning experiences of migrants and refugees for inclusion

CHAPTER 6.

Accessing and acquiring skills and qualifications: Connecting people to national qualifications frameworks







Push for greater tertiary value on micro-credentials



STUART McEVO



More and better recognition of prior learning and experience

Why a national strategy for validation?

Sweden

To meet the demands of today's working life, a higher level of competence and professional skills are needed. But learning does not only take place in formal study programmes. It also takes place informally at work and during leisure time, and through non-formal learning in, for example, staff training and study circles. Validation means recognising and making skills visible, regardless of how the individual has acquired them.

Lifelong learning accounts Credit banks

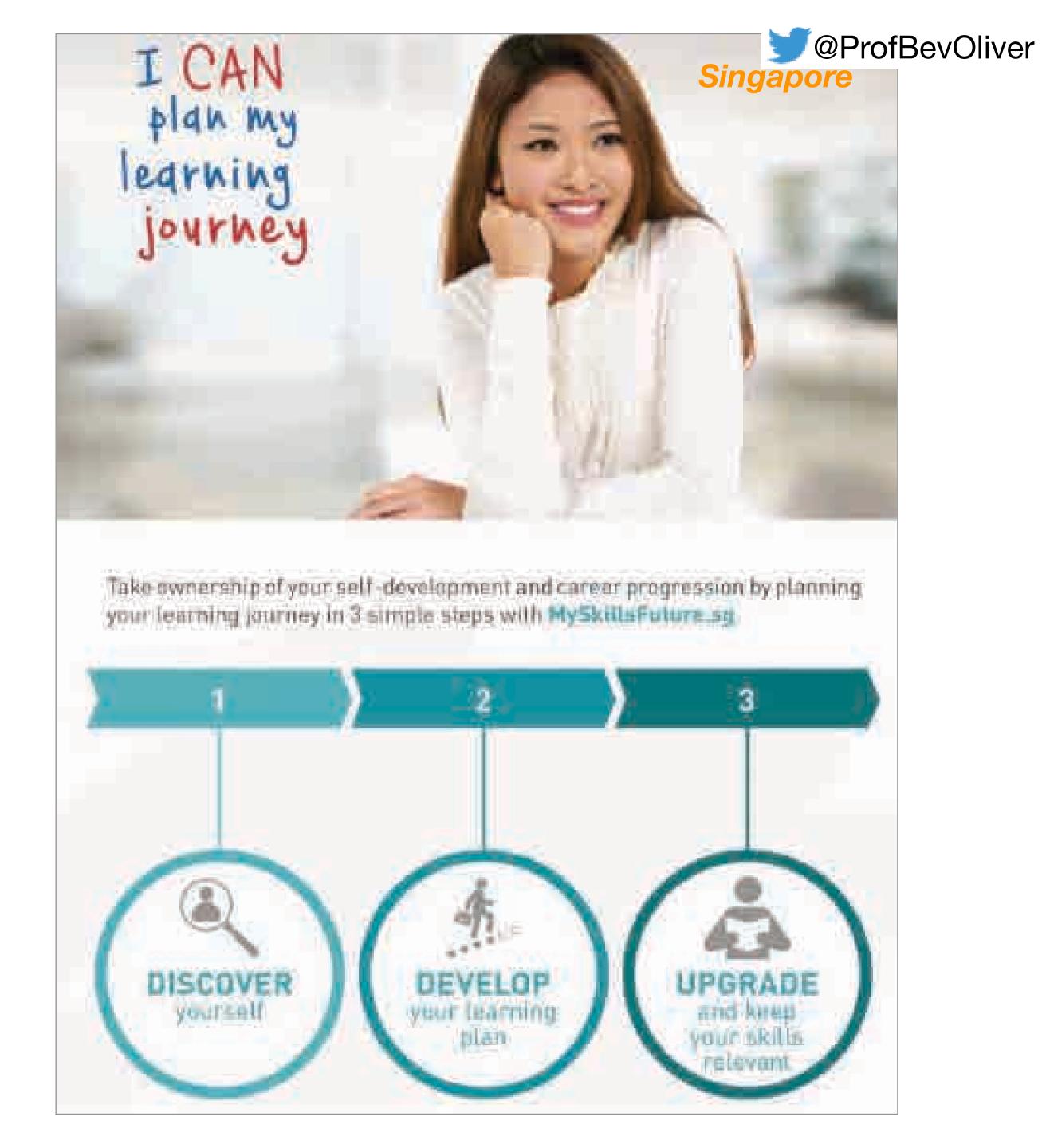
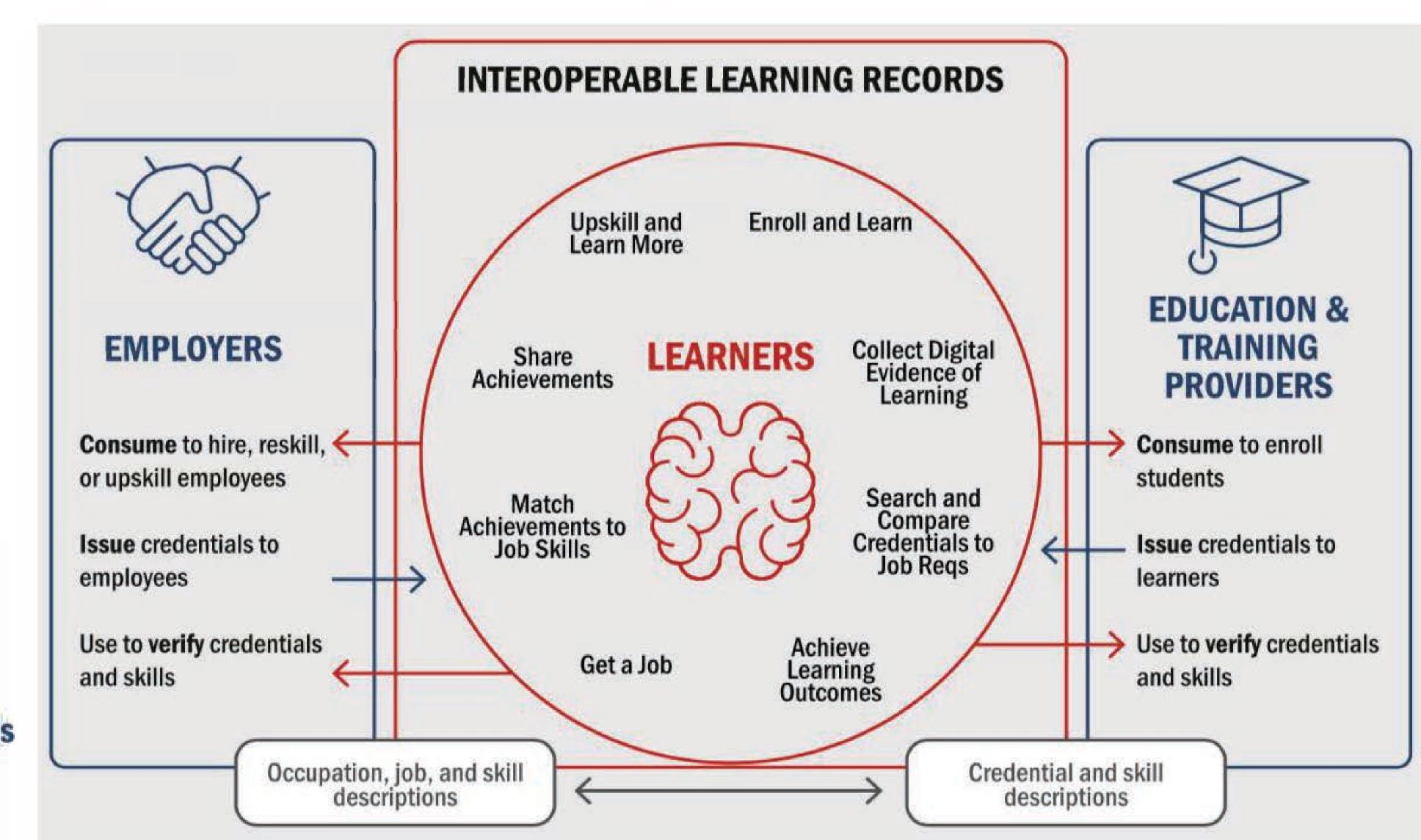




Figure 1 | Interoperable Learning Record Ecosystem



AMERICAN

White Paper on Interoperable Learning Records

Data Transparency Working Group

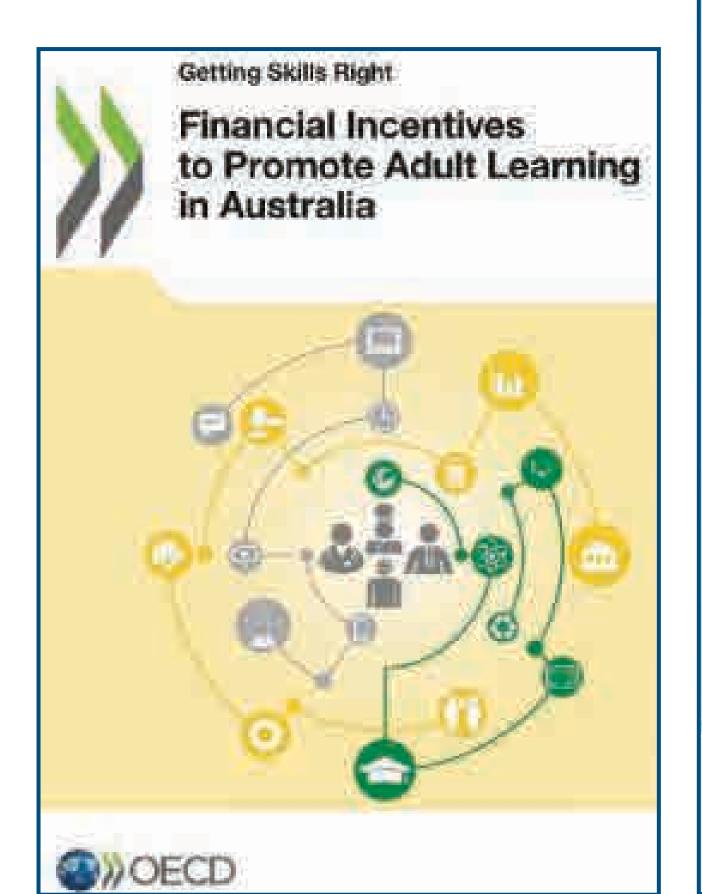
Adult learning systems should be more inclusive

Greater alignment with changing skill needs is needed

Provision must be of high quality

Adequate and sustainable financing

Good governance





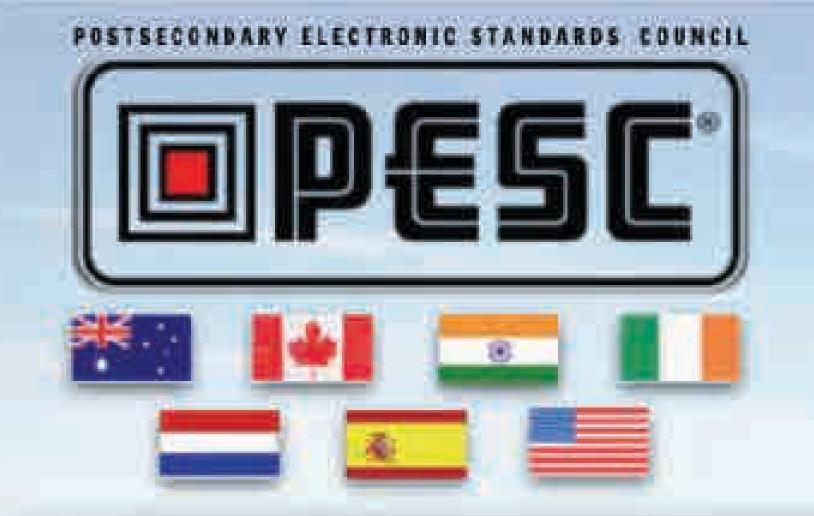
Getting Skills Right



Future-Ready Adult Learning Systems







Standards - across borders



COMPETENCIES & CREDENTIALS

COMPETENCIES & CREDENTIALS USER GROUP

ADVANCING LEARNER ACHIEVEMENT WORLDWIDE

HOME

ABOUT US

GROUPS AND INITIATIVES

PESC APPROVED STANDARDS

EDEXCHANGE

GEO CODE

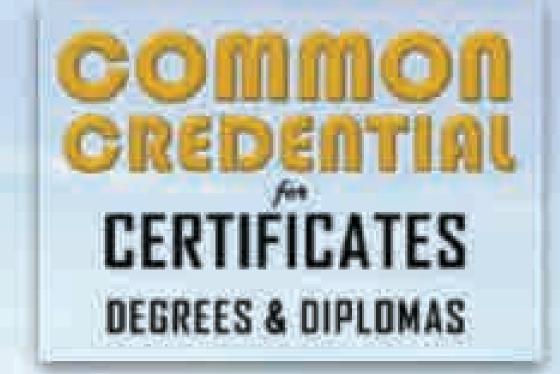
EVENTS



PESC USER GROUP

an open, collaborative group of PESC Members that produce, collect, process, research, report, store, consume, issue and share competency & credential data.





The Competencies & Credentials User Group is the principal Group within PESC comprised of PESC Members.



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