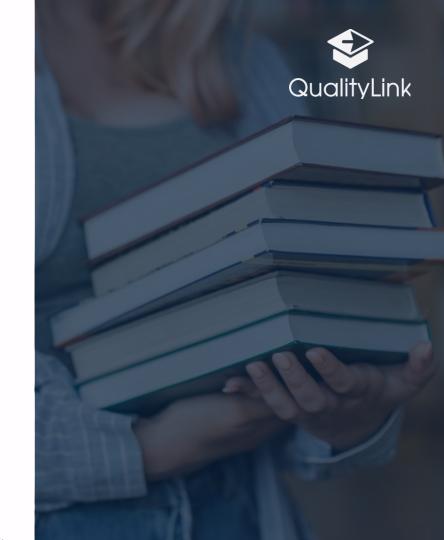


Creating an Open Ecosystem for Quality Data

Micro-Credentials Masterclass 20 March 2025, Zagreb

Ronald Ham (SURF) & Colin Tück (KIC)



Current challenges



Diversity of microcredentials and other short courses



Other data (ratings, recognition history, certifications, ...) rarely published using open standards



Basic course data often not published in open & structured form

Potential learners, guidance



Mapping and benchmarking

Use cases



Recognition and labour market



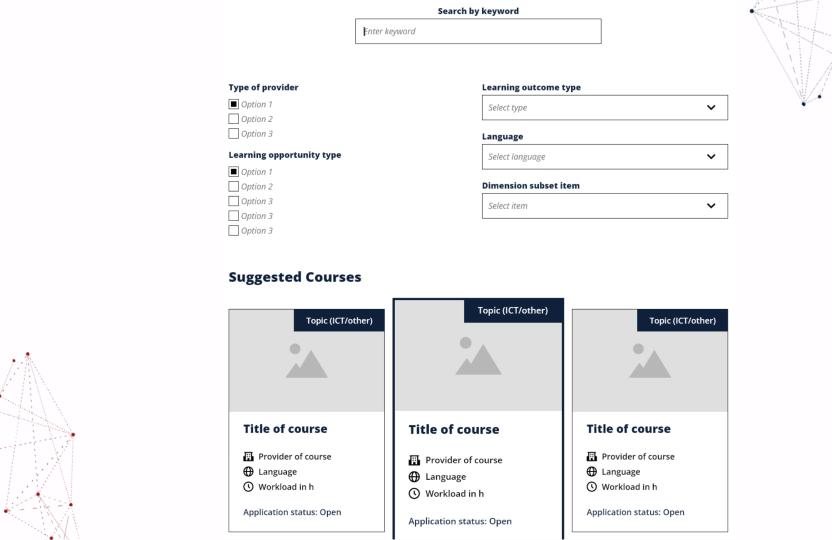
Interoperability for other apps



Alliances' joint catalogues



Europe-wide visibility



		Course 1	Course 2	
	Title	Honey Bee Health (Apiculture)	Fundamentals of Accessibility	MARKE
	Outcomes	Apis mellifera Identify current parasites of honeybees in Ireland and more widely, considering potential threats to honeybee health from imported bees and other products Describe the life cycle of the main honeybee pathogens Explain the importance of plants to honeybee health Link the diversity of microbes associated with honeybees with their influence on honeybee health Discuss human-mediated factors involved in decline of honeybee health.	student will know: - The main accessibility concepts and terminology, - different stakeholders and their needs, - principles of legislation, - technologies to support accessibility ranging from traditional accessibility solutions to new ones such as AI and robotics, - principles of accessible translation methods and digital services, - how to apply theory to practical accessibility solutions	
	ехр	laining what the a type represents	6	
	Language(s) of instruction	English	English	
	Costs (fee)	500 EUR	Free	
	Accurate and up-to-date information: learning outcomes in ESCO ontology	No (ESCO skills generated) ¹	No (ESCO skills generated) Disclaim noting ar consider about pro	ny
	Type of assessment	Continuous Assessment	unclear, grading scale: pass-fail	

Vision for an open quality data exchange architecture

(in particular, but not only for micro-credentials)

Basic course data (HEI)

Trusted data (e.g. DEQAR)

Other sources (e.g. ratings)

course identifier, ontology, converters, transport standards

data aggregated & published as open data

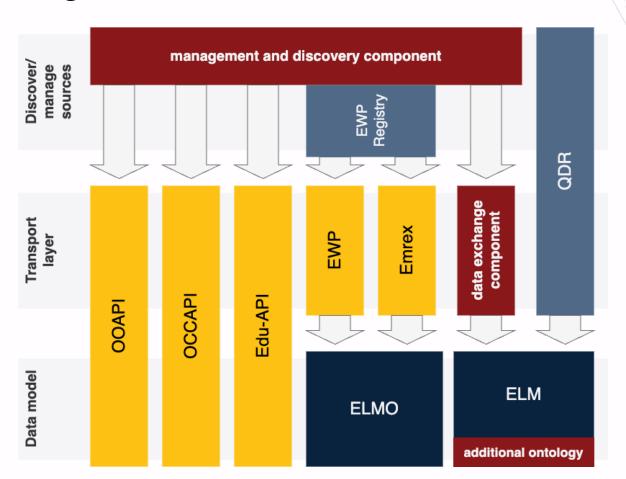


Architecture – principles



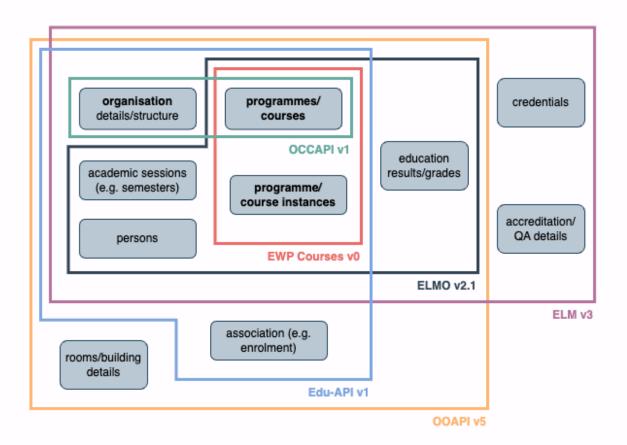
- Integrate seamlessly with existing standards/systems
- Ensure a low bar to adoption by HEIs
- Create flexibility (e.g. different routes) where helpful
- Open to future extensions (e.g. additional types of data)
- Any new components released open source

Architecture - high level overview





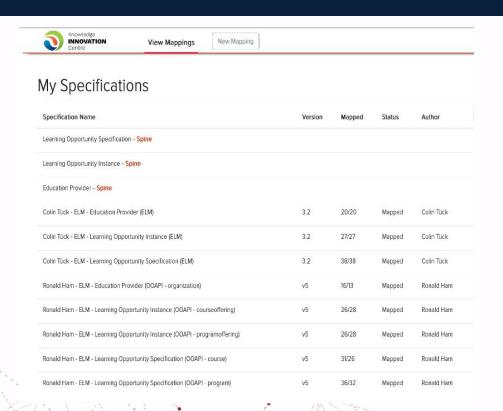
Landscape of technical standards





General findings





On the tooling:

- Starting with the tooling has a learning curve
- DESM only maps RDF:
 - OOAPI yaml
 - ELM SHAQL

On the specifications:

 ELM LOQ and OOAPI have different granularities



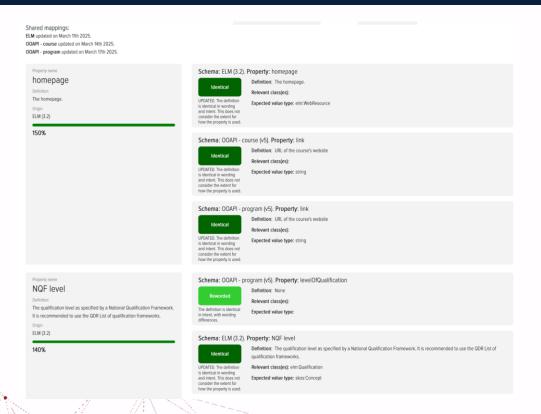
High level mapping





High level mapping (visually in DESM)







list?abstractClass=Learning+Opportunity+Instance&cp=4

Findings: Learning Opportunity Specification



- How to deal with data that is provided once in OOAPI and used multiple times in ELM o How do you split the data? Should business rules / best practices be created?
- How to deal with data that is provided multiple times in OOAP and once in ELM
 Simple concatenation? But what about the other way around?e.g. Learning outcomes and learning outcome summaryWorkload/study load and credits
- How to deal with missing data:
 - should it be added should model be extended (Lacuna management)
- What to do with enumerations and vocabularies
 - Abbreviations, codes and identifiers Mode of study/mode of delivery
- Consumers (OOAPI) vs ELM target group

Findings: Learning Opportunity Instance



What are the criteria for this data, what attributes are needed?

Does a course catalog need to support enrolment information?

- Enrolment/application dates
- Duration
- Student numbers





Findings: Education Provider



In general not in full scope as information should be present before providing learning opportunity specification or learning opportunity instance data

Biggest differences:

OOAPI misses some attributes that could be added:

- eIDAS identifier
- tax/fiscal identifier
- accreditation



Further work



- Improve DESM workflow
- Add other specifications:
 - o Edu-API
 - DigiVisio
 - ELMO (EWP course API & ELMO/EMREX)
 - OCCAPI
 - 0 ...
- Align on vocabularies

https://op.europa.eu/en/web/eu-vocabularies/europasstables

How to engage or contribute?



- Now: tell us which quality indicators are the most relevant to you
- Soon: review our draft specifications and share your feedback
- Later this year: expose your own course catalogue in our pilot platform



https://quality-link.eu/





THANK YOU FOR YOUR ATTENTION!



Short description of QualityLink

QualityLink aims to address all stakeholders' needs by furnishing them with all relevant information about courses and micro-credentials from a diversity of sources to improve recognition decisions and allow learners to follow flexible learning pathways. To make sure that the standards are of high quality and have ownership in the community, the consortium will create a Standards Consultation Board – a group of higher education interoperability experts from across different countries. Through creating open standards and collaboration, the project aims to establish the infrastructure for aggregating quality information from a wide range of sources.











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