Learning analytics & blockchain

Decentralised Qualifications’ Verification and Management for Learner Empowerment, Education Reengineering and Public Sector Transformation

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https://qualichain-project.eu/
About me

Lambert Heller
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QualiChain Vision

Transform the domains of education and labor market by changing physical archives of educational credentials:

- Develop a decentralized framework for permanent and unchangeable storage of academic credentials and professional qualifications.
- Exploit the features of blockchain, semantic technologies, and data analytics for validation, privacy and data sovereignty
- Integrate automated unstructured and structured data into the QualiChain framework
QualiChain Stakeholders

- Individuals as learners
- Individuals as employment seekers
- Educational/training institutions
- Public sector and public authorities
- Private sector organisations/Companies
- Society at Large

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QualiChain Overview

QualiChain

Accreditors
Validators
Testers

Employers
Job Agencies

Students
Employees
Job seekers

Universities
Teachers

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QualiChain Pilots

- Cross-University Degree Equivalence Verification
- Smart Curriculum Design
- Staffing the Public Sector
- Provision of HR Consulting & Competency Management Services

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Smart Curriculum Design

National Technical University of Athens Pilot

- Harvest big data from job offers and students credentials stored and accessible via QualiChain
- Find skills that are in demand but neglected in curriculum
- Adapt curriculum / university courses
- Check impact of changes

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... Towards Smart Student

- Students and professionals can use the same technique to select curriculum / courses
- 3rd party advising solutions can be developed that rely on QualiChain Big Data
- Can also be used by government agencies to monitor job market requirements
Open Badges

- [https://openbadges.org/](https://openbadges.org/)
- developed 2011 at Mozilla
- funded by McArthur Fdtn
- 2017 hand over to IMS Global Learning Consortium
- used by IBM
  - [https://www.ibm.com/training/badges/](https://www.ibm.com/training/badges/)
- Linked data
- JSON-LD context (v2.0)
- can include images
- validation online or inline
...please ask & discuss!
TIB - Leibniz Information Centre For Science And Technology
University Library

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