

Decentralised Qualifications' Verification and Management for Learner Empowerment, Education Reengineering and Public Sector Transformation: The QualiChain Project

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Scope



- Formal and non-formal education credentials play an important role in today's society
- Digitisation in the domain is slow and ineffective
- Scope:
 - Consider blockchain for the development of trustworthy solutions
 - Consider analytics and decision support to develop value-adding services
- Presentation of QualiChain, a project that aims to disrupt the way education and other qualifications are <u>archived</u>, <u>managed</u>, <u>shared and</u> <u>verified</u>

Current Challenges



- Education certificates are still largely-paper
 - Dependence from issuing organisations
 - Susceptible to loss and damage
 - Easy to counterfeit
- Low degree of standardization and interoperability
 - Diverse formats
 - Siloed databases
 - Time-consuming processes for issuance and verification
- Affects student mobility, recruitment and competency management

Proposed Solution





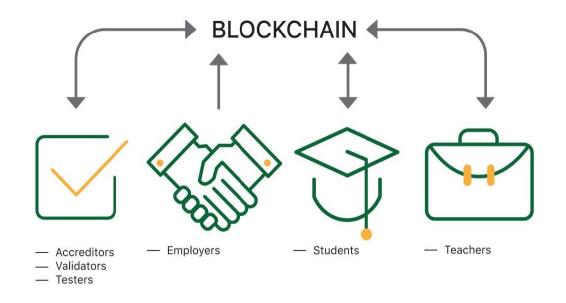


- Certification archiving and management
- Qualification verification and validation
- Career counselling
- Recruitment and HR

QualiChain Concept



- Investigate the transformative impact of disruptive technologies in the domains of education and the labour market
- Develop a distributed platform targeting the storage, sharing and verification of academic and employment qualifications
- Potential to bring forward solutions that will affect almost every stakeholder in the domain



QualiChain Services



Pillar I. Baseline Services



Awards' / Qualifications Archiving

- Education/training providing & awards'/certificates' issuing institutions (public or private) and their personnel:
 - o Universities, Colleges, Schools
 - o Research Institutes
 - o Private Companies



Awards' / Qualifications Validation & Verification

- Private Companies
- Public Organisations
- Universities, Colleges, Schools
- ➤ Research Institutes (and their personnel)



Qualifications' Portfolio Management

- > Individuals
 - o Learners
 - o Employment seekers

Pillar II. Value Adding Services



Career Counselling

- > Individuals
 - o Learners
 - o Employment seekers



Intelligent Profiling

- Individuals
 - o Learners
 - o Employment seekers



Recruitment

- Public Organisations
- > Private Companies (incl. HR consulting companies)
- ➤ Education / training providing institutions (and their personnel)



Competencies' Evaluation and Development

- Public Organisations
- ➤ Private Companies (incl. HR consulting companies) (and their personnel)



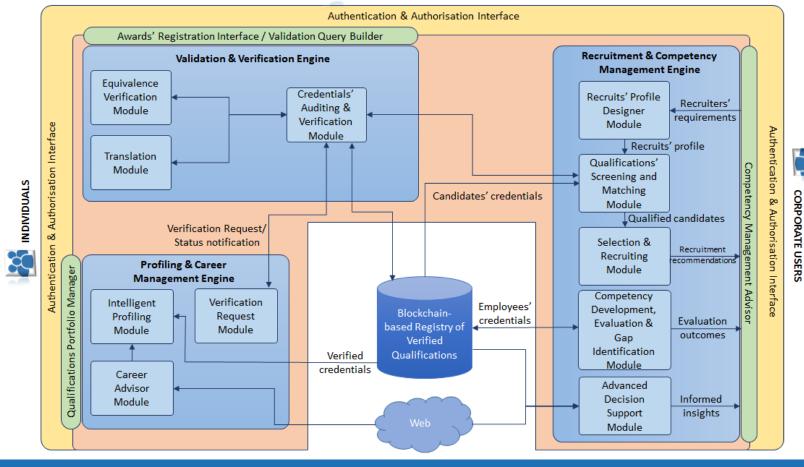
Consulting & Decision Support

- > Education/training providing institutions (public/private)
- Policy makers
- Public Organisations
- Private Companies (incl. HR consulting companies)
 (and their personnel)

QualiChain Architecture







https://qualichain-project.eu/

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Pilot Cases and Platform Validation



- Cross University Degree Equivalence Verification UK
- Smart Curriculum Design and University Process Optimization -Greece
- Staffing the Public Sector
 - Greece
 - Portugal
- Provision of HR Consulting and Competency Management Services
 - Portugal

Conclusions and Next Steps



- QualiChain has drawn the attention of the research community
- Strong innovation potential through an innovative combination of technologies
- Disrupting any of the targeted areas can have great impact

• Next steps include the release of the platform's 2nd version, the pilot execution phase and the platform validation



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