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

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1. Scope
2. Current Challenges
3. Proposed Solution
4. QualiChain Concept
5. QualiChain Services
6. QualiChain Architecture
7. Pilot Cases and Platform Validation
8. Conclusions and Next Steps
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 archived, managed, shared and verified
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:
    - Universities, Colleges, Schools
    - Research Institutes
    - Private Companies

- **Awards' / Qualifications Validation & Verification**
  - Private Companies
  - Public Organizations
  - Universities, Colleges, Schools
  - Research Institutes (and their personnel)

- **Qualifications' Portfolio Management**
  - Individuals
    - Learners
    - Employment seekers

**Pillar II. Value Adding Services**

- **Career Counselling**
  - Individuals
    - Learners
    - Employment seekers

- **Intelligent Profiling**
  - Individuals
    - Learners
    - Employment seekers

- **Recruitment**
  - Public Organizations
  - Private Companies (incl. HR consulting companies)
  - Education/training providing institutions (and their personnel)

- **Competencies' Evaluation and Development**
  - Public Organizations
  - Private Companies (incl. HR consulting companies) (and their personnel)

- **Consulting & Decision Support**
  - Education/training providing institutions (public/private)
  - Policy makers
  - Public Organizations
  - Private Companies (incl. HR consulting companies) (and their personnel)
QualiChain Architecture
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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