

# The European Commission's science and knowledge service

Joint Research Centre

**Mesa redonda Blockchain RedIRIS**  
**Universidad de Sevilla**  
**30 mayo 2019**

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*@aisantos*



# ¿ Qué propongo en esa conferencia?

- Que conozcáis las principales iniciativas de la Comisión Europea que incentivan el desarrollo de blockchain en la UE;
- Que conozcáis el trabajo del JRC en Blockchain;
- Que analicemos el desarrollo de un caso específico con foco en blockchain en educación.

Log in



## EU Blockchain Observatory & Forum

Select a group you would like to sign up for:



Community











712 members

<https://eublockchain.mobilize.io/network-groups>



## EU Blockchain Observatory & Forum

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Supply chain...	Commun	Healthca sector	Policy and...	Energy and...	Blockcha innovatio	Governm services.	Tokens and...	Scalabilit interoper	GDPR, ty.data...
100 members	1,028 members	146 members	378 members	177 members	618 members	412 members	381 members	420 members	479 members

### What can you do here?



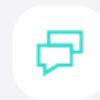
#### Stay in the loop

All your group communication in one place, easily find your posts, group files, events and more.



#### Wherever you are

Stay in the conversation via email or with the app, reply instantly from your preferred channel.



#### Spark a conversation

Meet your peers, search for specific people, learn about them and build meaningful connections.



#### Meet your network

Share knowledge, tips and ideas with your group peers, start private or group chats and keep the conversation going.

# Grupos de trabajo (temáticos)

Bajo la iniciativa **European Blockchain Services Infrastructure**

(EBSI) hay varios **grupos de trabajo** que tienen reuniones frecuentes y tratan de temas relacionados al desarrollo de blockchain y marcos legales. Los grupos de trabajo suelen tener expertos **representando cada Estado Miembro.**

Los grupos desarrollan **casos de uso** en colaboración, y comparten resultados y experiencias. Algunos casos de uso tienen co-financiación de programas europeos (e.g. Connecting Europe Facility-CEF). A través del CEF se producen infraestructuras digitales para establecer interoperabilidad e intercomunicación transfronteriza en Europa.



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



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## About

Are you **looking for a job** and would like to adapt your application to different vacancies? Or maybe you are **training** and you want to manage and verify effectively your certificates?



Are you a company, public administration or HR consulting in the **process of recruitment**? Do you want to count on decision support mechanisms to make the best



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@EUBlockchain

These beautiful spring days look like a perfect time to read our latest report about Scalability, interoperability and sustainability of #blockchains! As always, in our Reports section: [eublockchainforum.eu/reports](http://eublockchainforum.eu/reports)



6h

**HORIZON  
2020**

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

Fact Sheet

### Objective

QualiChain targets the creation, piloting and evaluation of a decentralised platform for storing, sharing and verifying education and employment qualifications and focuses on the assessment of the potential of blockchain technology, algorithmic techniques and computational intelligence for disrupting the domain of public education, as well as its interfaces with private education, the labour market, public sector administrative procedures and the wider socio-economic developments. The project focuses more specifically on the assessment of the implications (technical, political, socio-economic, legal and cultural) as well as the impact - in terms of benefits and risks - of the prescribed solution's utilisation, whose disruptive potential lies both in the exploitation of the innovative features of the aforementioned individual technologies, as well as in their unique combination in a new territory for the provision of a set of baseline services (Awards'/ Qualifications' Archiving; Awards'/ Qualifications' Verification; Qualifications' Portfolio Management) and a number of value-adding services (Career Counselling and Intelligent Profiling and Competency Management including Recruitment; Competencies' Evaluation and Development; Consulting and Decision Support). The proposed solution will be piloted through four representative scenarios, including: (i) cross-university degree equivalence verification; (ii) smart curriculum design; (iii) staffing the public sector; (iv) providing HR consultancy and competency management services.

### Project information

## QualiChain

**Grant agreement ID: 822404**

Status

**Ongoing project**

Start date

**1 January 2019**

End date

**31 December 2021**

Funded under:


**H2020-EU.3.6.2.2.**Overall budget:  
€ 3 993 571,25EU contribution  
€ 3 993 571,25



## NATIONAL TECHNICAL UNIVERSITY OF ATHENS - NTUA

Address

Heroon Polytechniou 9  
Zographou Campus  
15780 Athina

 Greece

 [Website](#)

Activity type

Higher or Secondary Education  
Establishments

 [Contact the organisation](#)

EU Contribution

€ 699 781,25

## Participants (9)

Sort alphabetically 

Sort by EU Contribution 

[Expand all](#)



ATOS SPAIN SA

 Spain

EU Contribution

€ 427 187,50



FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER  
ANGEWANDTEN FORSCHUNG E.V.

 Germany

EU Contribution

€ 433 125



KNOWLEDGEBIZ CONSULTING-SOCIEDADE DE  
CONSULTORIA EM GESTAO LDA

 Portugal

EU Contribution

€ 473 500



THE OPEN UNIVERSITY

 United Kingdom

EU Contribution

€ 560 415



TECHNISCHE INFORMATIONSBIBLIOTHEK (TIB)

 Germany

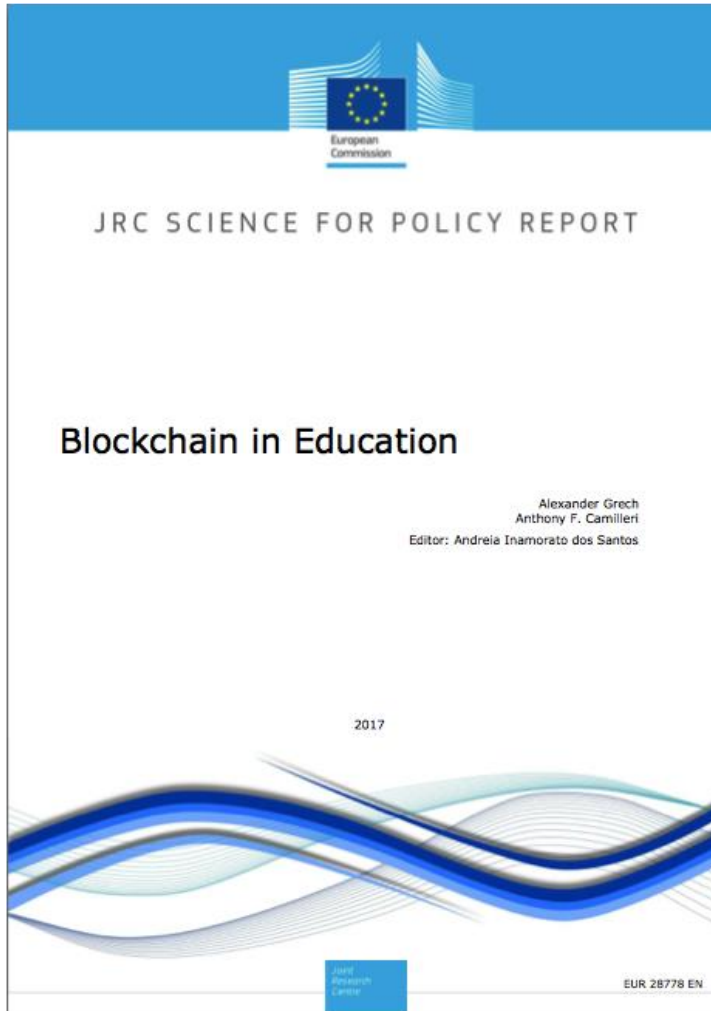
EU Contribution

€ 493 750





# Blockchain en la educación informe JRC



Para descargar el informe:

<http://bit.ly/blockchain4edu>

# Comunicación: Plan de Acción de Educación Digital



The screenshot shows the top navigation bar of the European Commission website. It includes the European Commission logo, the text "EDUCATION AND TRAINING Supporting education and training in Europe and beyond", and a search bar. Below the navigation bar is a breadcrumb trail: "Education and training > European Commission > Education and training > Initiatives > European Education Area > Digital Education Action Plan". A dark blue menu bar contains links for "Home", "Policies", "Initiatives", "Updates", "Resources", and "Contact". The main content area features the title "Digital Education Action Plan" in large, bold, dark blue text. Below the title, there is a sidebar with a link to "Overview" and a main section titled "Digital competences and technology in education" in red text. The main section includes a paragraph: "In January 2018 the Commission adopted a Digital Education Action Plan which includes 11 actions to support technology-use and digital competence development in education".

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## Digital Education Action Plan

Overview

Proposal for a Council Recommendation on Key Competences for Lifelong Learning

### Digital competences and technology in education

In January 2018 the Commission adopted a [Digital Education Action Plan](#) which includes 11 actions to support technology-use and digital competence development in education

# Ficha informativa

## HOW

Millions of people will be able to store and share their digitally-signed qualifications on the new Europass platform or on any other electronic site, making it easier for education providers and employers to access reliable and trustworthy information on qualifications.

- ◆ The report [Blockchain in Education \(2017\)](#) explores the potential of using blockchain technology for digitally-certified qualifications.
- ◆ The Commission analysed existing solutions, use cases and recommendations for the implementation of digitally-certified qualifications in the preparatory work for the new Europass platform.
- ◆ The Massachusetts Institute of Technology (MIT) and Learning Machine have developed the [Blockcerts](#) open standard for issuing and verifying digitally-signed qualifications on the blockchain.

## WHEN



- ◆ May 2018: adoption of the new Europass Decision
- ◆ Second half of 2018: analysis and development work
- ◆ End of 2019: Launch of the digitally-signed qualifications component in Europass

## HOW TO GET INVOLVED

Awarding bodies are invited to take part in a pilot project with the Commission to test the issuing of digitally-signed qualifications.



European  
Commission

## Supporting transparency of skills and qualifications Digitally-signed credentials

This note invites EU Member States and other countries participating in Europass/EQF/ESCO to engage in a pilot for testing the Europass Digitally Signed Credentials Framework that is currently developed by the European Commission. The shift from paper-based certificates to digitally-signed credentials represents an important step in documenting skills and qualifications in a more transparent and understandable way. Digitally-signed credentials can increase efficiency and security in how any kind of learning achievement is documented. This concerns qualifications (like a degree or vocational training), but also other forms of learning achievement and experiences. As announced in the Digital Education Action Plan, the Commission has begun work on a framework that organisations can use to issue digitally-signed credentials across the EU. The framework, including a set of digital tools and standards for documenting these learning achievements, will be implemented as part of the new Europass. It will seek compatibility with existing national credentials digitisation initiatives.

### *What is a digitally-signed credential?*

A digitally-signed credential is a statement that provides proof of a learning achievement of an individual. These credentials are typically used to qualify for job positions, university placements and more. Digitally-signed credentials are legally equivalent to paper-based certificates across the European Union.

Europass digitally-signed credentials will be tamperproof and made up of five elements:

# Recién-publicado por el JRC:



JRC SCIENCE FOR POLICY REPORT

## Blockchain for digital government

*An assessment of pioneering implementations in public services*

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2019



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