Digitalisation systems

Example of credential database (Italy)

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Content

What do we understand for *Digitalisation*?

What do we mean by Cooperation & Innovation?

A holistic approach to recognition through digitalisation

Digitalisation of work processes: exploring the impact on credential evaluation

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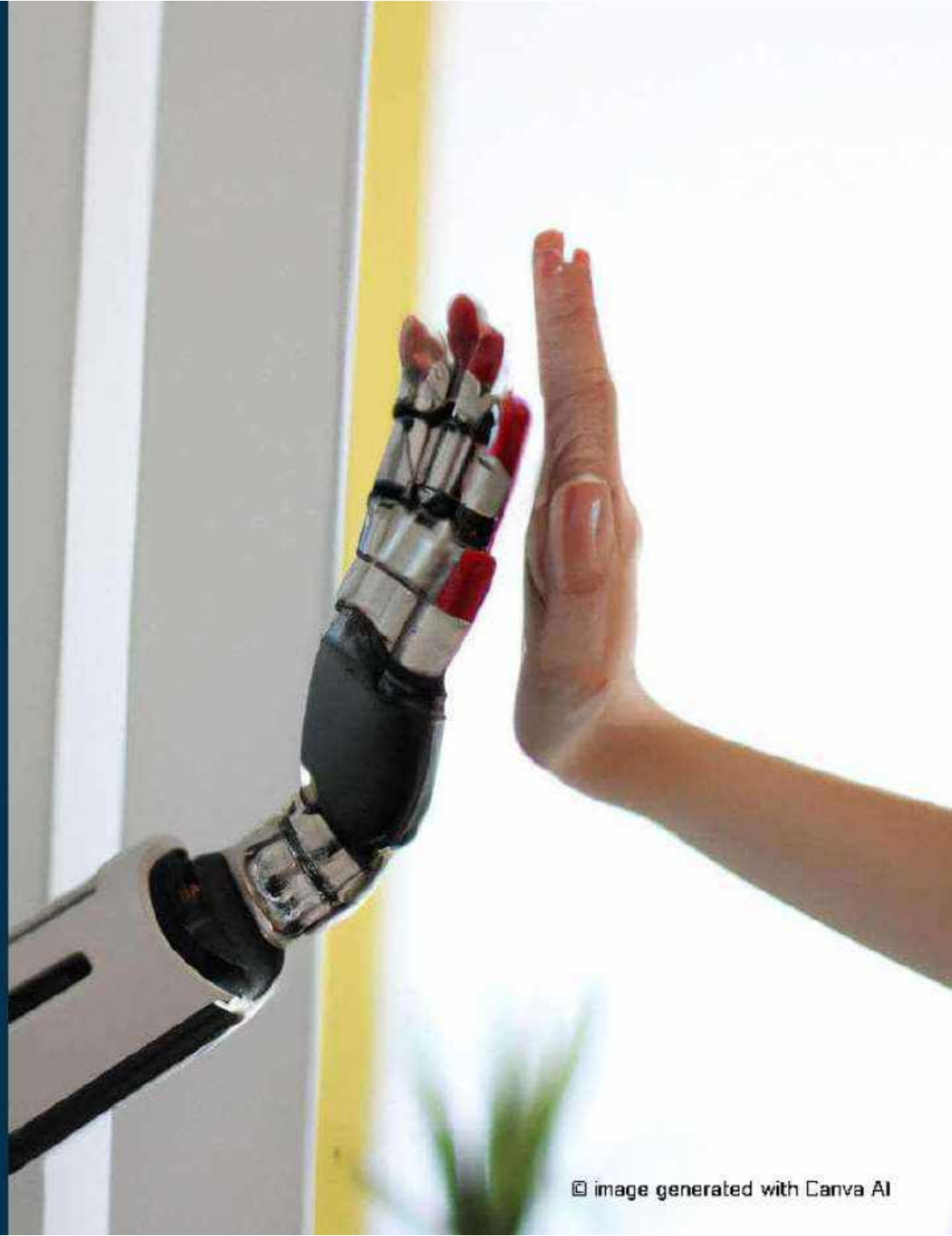
What is Digitalisation?

Digitalisation involves using digital technologies to change a business model and create new value-producing opportunities. It's about leveraging technology to innovate and enhance processes, making them more efficient and accessible.

Gartner Information Technology Glossary



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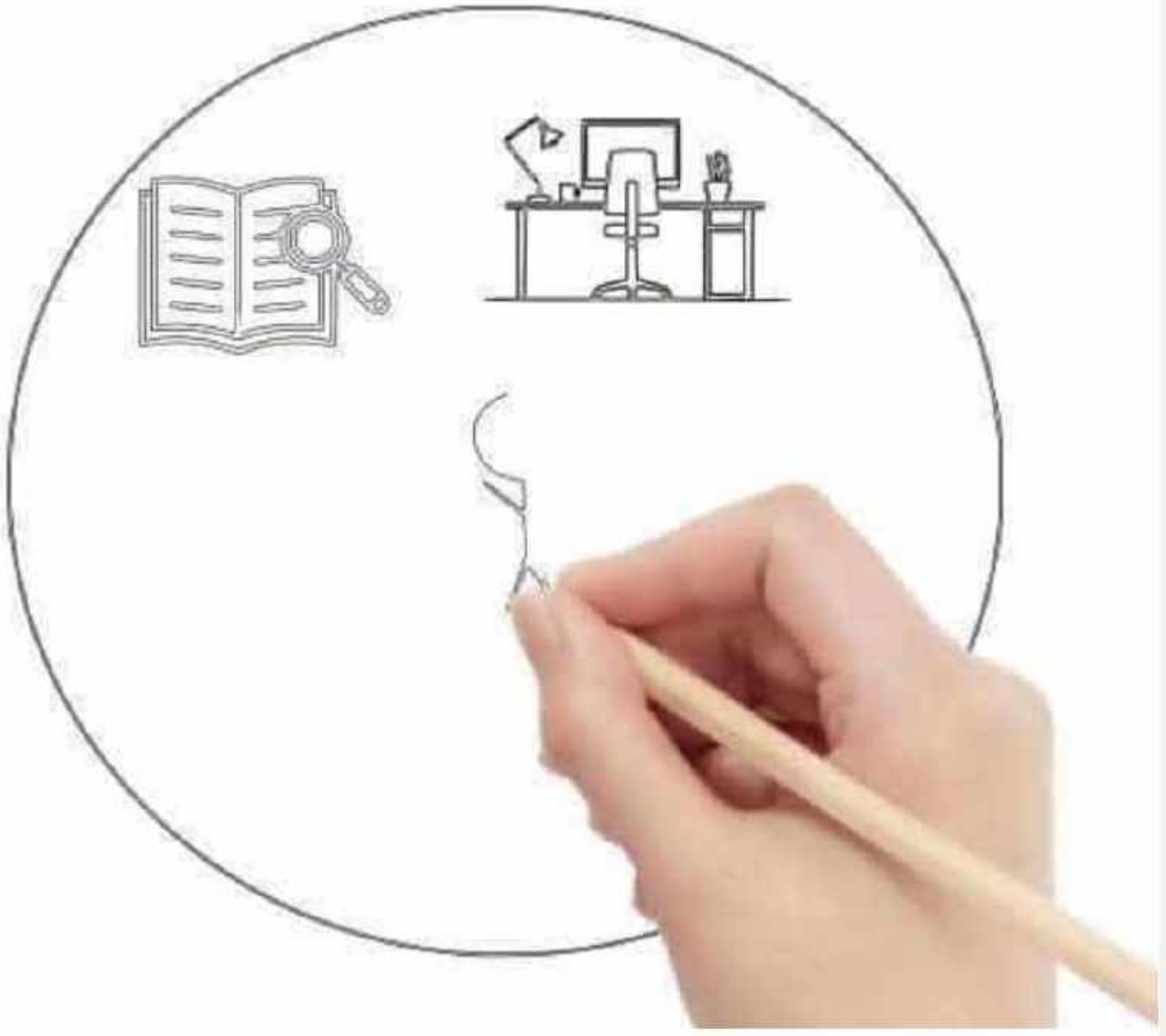
Digitalisation:
A holistich approach

Digitalization isn't merely about adding new tools; it's a comprehensive strategy that integrates processes, people, and technologies to optimise operations.



Digitalisation:
A holistich approach

Digitalisation can improve job quality by eliminating menial tasks like data extraction, allowing people to focus on what they do best—skills that technology can't replicate, such as critical thinking, conflict resolution, and empathy.

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Why do we speak about cooperation and innovation?

Cooperation

INTERNAL

EXTERNAL

Innovation

ENHACE COMPETENCES

DEVELOP PROCESSES

IMPLEMENT POLICIES

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Cooperation

QENTRY

International Database on Higher Education Entry Qualifications

FraudSCAN

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FraudSCAN

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International Database on Higher Education Entry Qualification

Q-ENTRY

57 national education systems

116 Higher Education qualifications

FraudSCAN

421 fraudulent qualifications / Diploma mills

FraudSCAN

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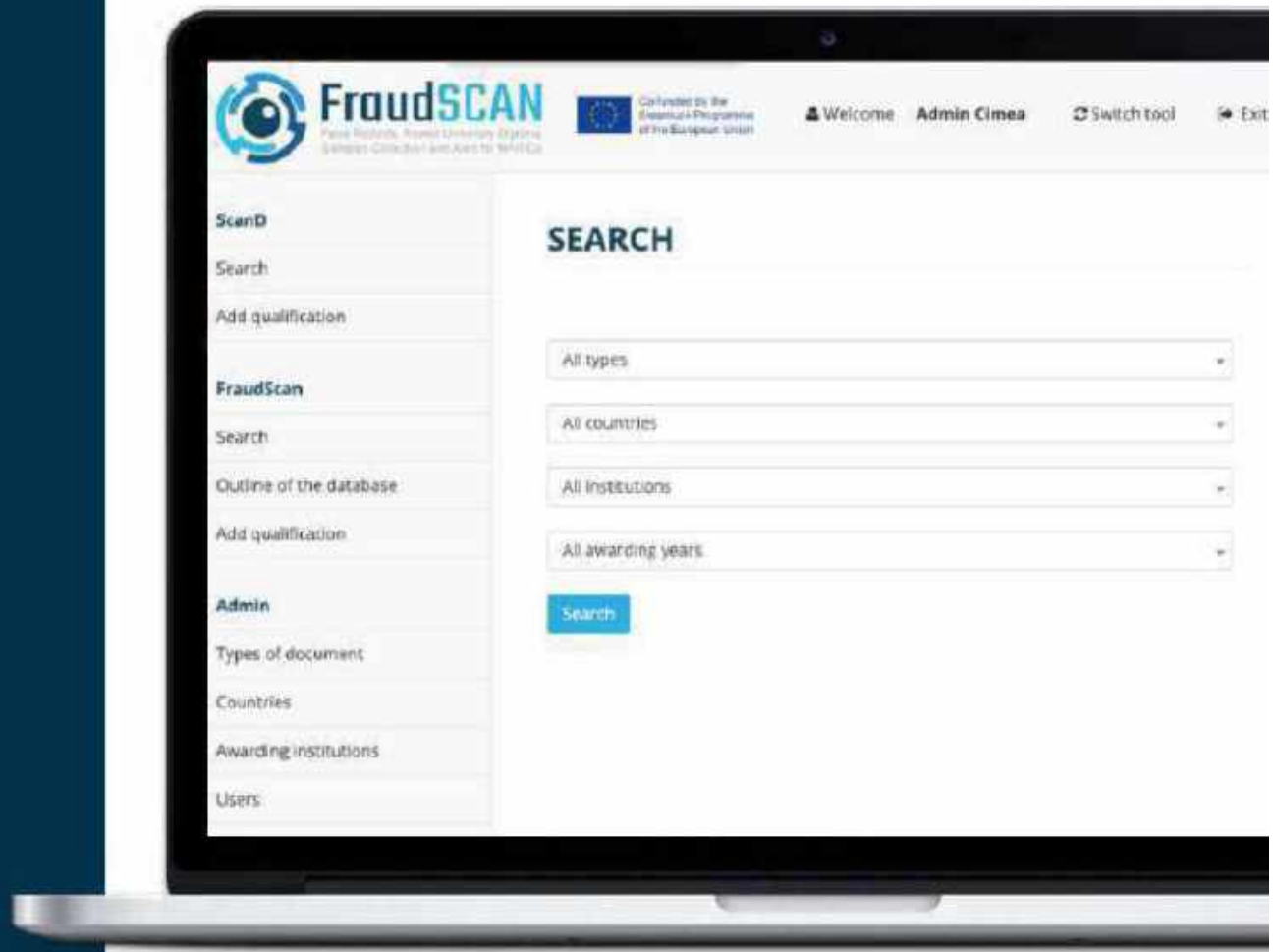

CIMEA's digitalisation pathway

2018

2019

First digital platform for blockchain-based qualification service

2020

2020

2022

Internal information management system

2023

Automatic Recognition Database - Italia

2023

2024

Renewed digital platform for blockchain-based qualification service

2023

STATEMENTS REQUESTS			
INFORMATION MANAGEMENT	Initial restructuring of information architecture	Consolidation of information architecture	Enhancement of data models and analysis capability
WORKFLOW & PROCESSES MANAGEMENT	Input and output phases completely digitalized Throughput phase partially digitalized	Throughput phase further digitalized	Enhancement of user-centricity and complete digitalization of the throughput

This approach allows:

Process Automation:

Enhances operational efficiency by reducing response times and optimizing resources.

Standardized Practices:

Technology ensures consistent data and credential evaluation, unifying criteria on a global scale.

Interoperability:

Digital systems allow for harmonious communication between platforms and organizations, promoting international cooperation.

SOME EXAMPLES OF

Key Digital Tools at CIMEA:

Innovation

CIMEA WIKI

CIMEA WIKI

ARDI

Automatic Recognition Database: ARDI

CIMEA diplome

CIMEA-Diplome

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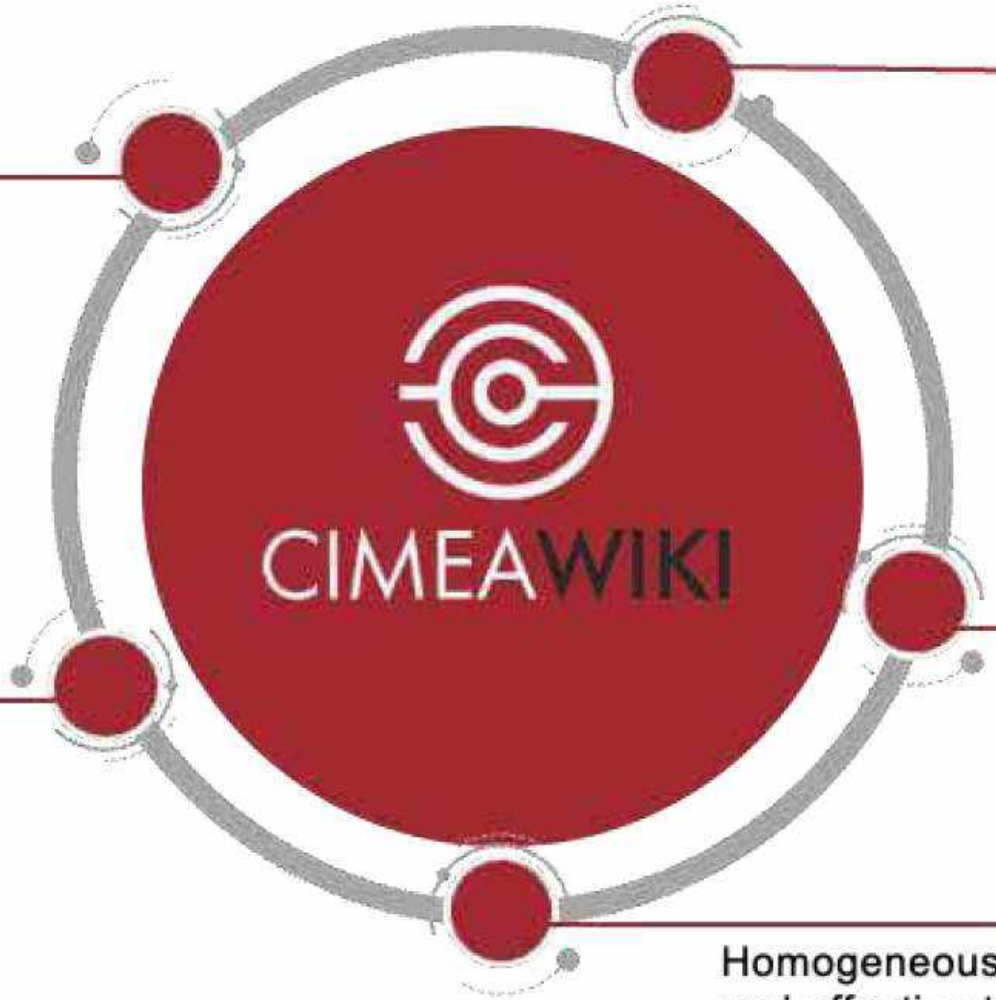
WIKI
CIMEA



Rationalised reliable resources organised by country according to a uniform index.

The introductions of the WIKI as a **new information management system** aims to improve our internal system affecting the following macro areas related to the collection and storage of information, resources and data.

Time-saving technological solution, maintaining high standards of quality.

Selection, rationalisation and re-organization of stored and new resources.

Homogeneous and effective training.

CIMEAWIKI

WIKI

CIMEA

Internal Information Management System divided into:

- General Resources and Country System
- Verification of Authenticity
- Evaluation Policies
- Samples

CIMEAWIKI

AUTOMATIC RECOGNITION DATABASE

ARDI
Automatic Recognition Database Italia

55 COUNTRIES

431 COMPARATIVE EVALUATIONS

323 HIGHER EDUCATION QUALIFICATIONS

108 SCHOOL QUALIFICATIONS

Qualifications search → **Evaluation** → **Statement of correspondence**

CIMEA diplome

A new management system: Diplome

Unique place for CIMEA staff

Focus on the interoperability between ARDI, WIKI, DEQAR and WHED.

Closer connection with HEIs

A restricted area has been created exclusively for HEIs, to monitor the application status of their prospective students and download the Statements when they are available.

Benefits of Digital Transformations

Security and Transparency:
Blockchain ensures the integrity and authenticity of credentials, reducing fraud.

Accessibility and Efficiency: Digitalisation and automatisation facilitates access to critical information for both users and evaluators.

Collaboration:
Collaborative data analysis enables faster, evidence-based decisions, ensuring the quality of processes.

What's next?

2018

2019

First digital platform for issuing certificates with blockchain technology

2020

2020

2022

Internal information management system

2023

Automatic Recognition Database - Italia

2023

2023

2024

Renewed digital platform for blockchain-based qualification service

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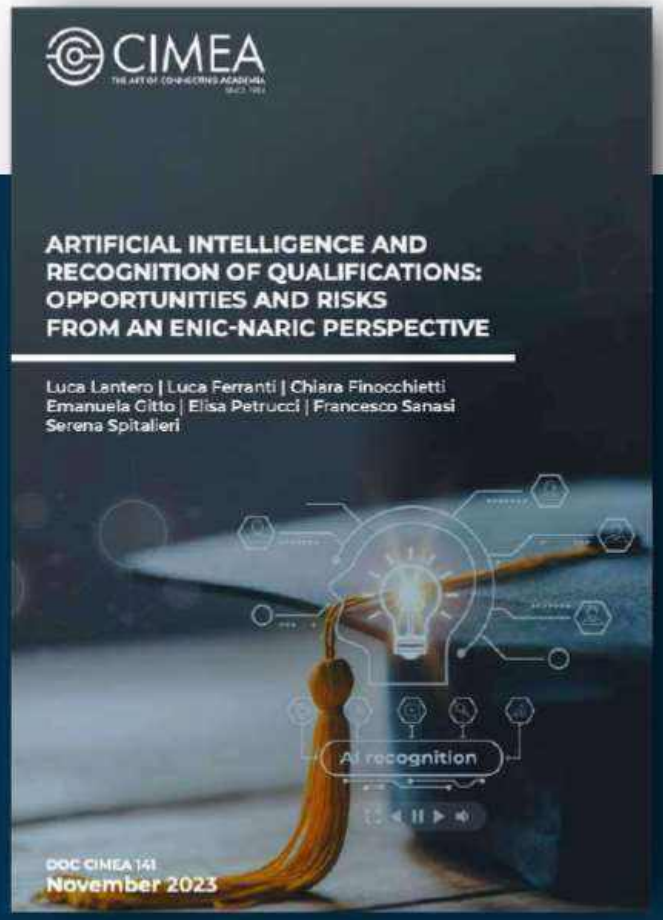
ARTIFICIAL INTELLIGENCE



Keeping human decision making

DIMENSIONS

5

Equity

Recognition workflow

Learning outcomes

European frameworks and regulations

International academic mobility

MAIN SECTORS

3

Assessment of the comparability of a qualification

Verification of authenticity and fraud detection

Impact on a credential evaluator's daily work

NEXT STEPS

How can Artificial Intelligence support:

- **comparability of qualifications**
- **countering fraud in education**

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Thank you for your attention!

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