ΥΦΥΠΟΥΡΓΕΙΟ
ΕΡΕΥΝΑΣ, ΚΑΙΝΟΤΟΜΙΑΣ
ΚΑΙ ΨΗΦΙΑΚΗΣ ΠΟΛΙΤΙΚΗΣ
ΚΥΠΡΙΑΚΗ ΔΗΜΟΚΡΑΤΙΑ

cy-ebsi

UNIVERSITY of NICOSIA

GOLDMAN Solutions & Services

ΤΑΛΩΣ

## *Ενημερωτική Ημερίδα*

# *ΤΟ ΕΡΓΟ*
# *"CY-EBSI – ESTABLISHMENT OF EBSI NODE(S) IN CYPRUS"*
# *ΚΑΙ Η ΣΗΜΑΣΙΑ ΤΗΣ ΤΕΧΝΟΛΟΓΙΑΣ BLOCKCHAIN*
# *ΣΤΗΝ ΨΗΦΙΑΚΗ ΔΙΑΚΥΒΕΡΝΗΣΗ*

*18 Μαρτίου 2022, 08:30 – 11:00*

*Πανεπιστήμιο Λευκωσίας, Αμφιθέατρο UNESCO*

Συγχρηματοδοτείται από την Ευρωπαϊκή Ένωση
Διευκόλυνση «Συνδέοντας την Ευρώπη»

# «Η Πιλοτική Ανάπτυξη Περίπτωσης Χρήσης Διπλώματος σε συνεργασία με ETEK και GUnet (EBSI - Early Adopters Program)»

Γιώργος Αντωνίου, Technical Project Manager
Γιώργος Κωνσταντίνου, Architect and Development Lead

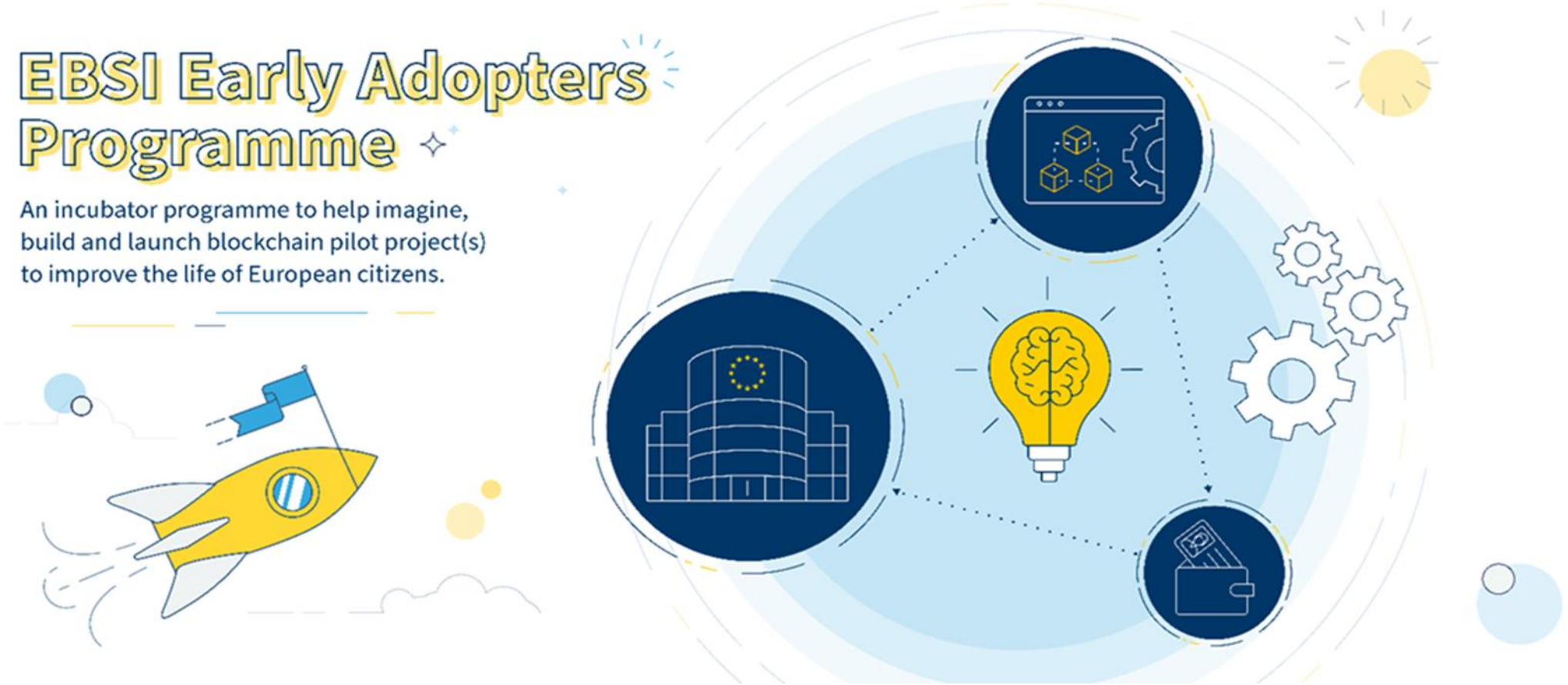
**AC Goldman Solutions and Services**

# Introduction

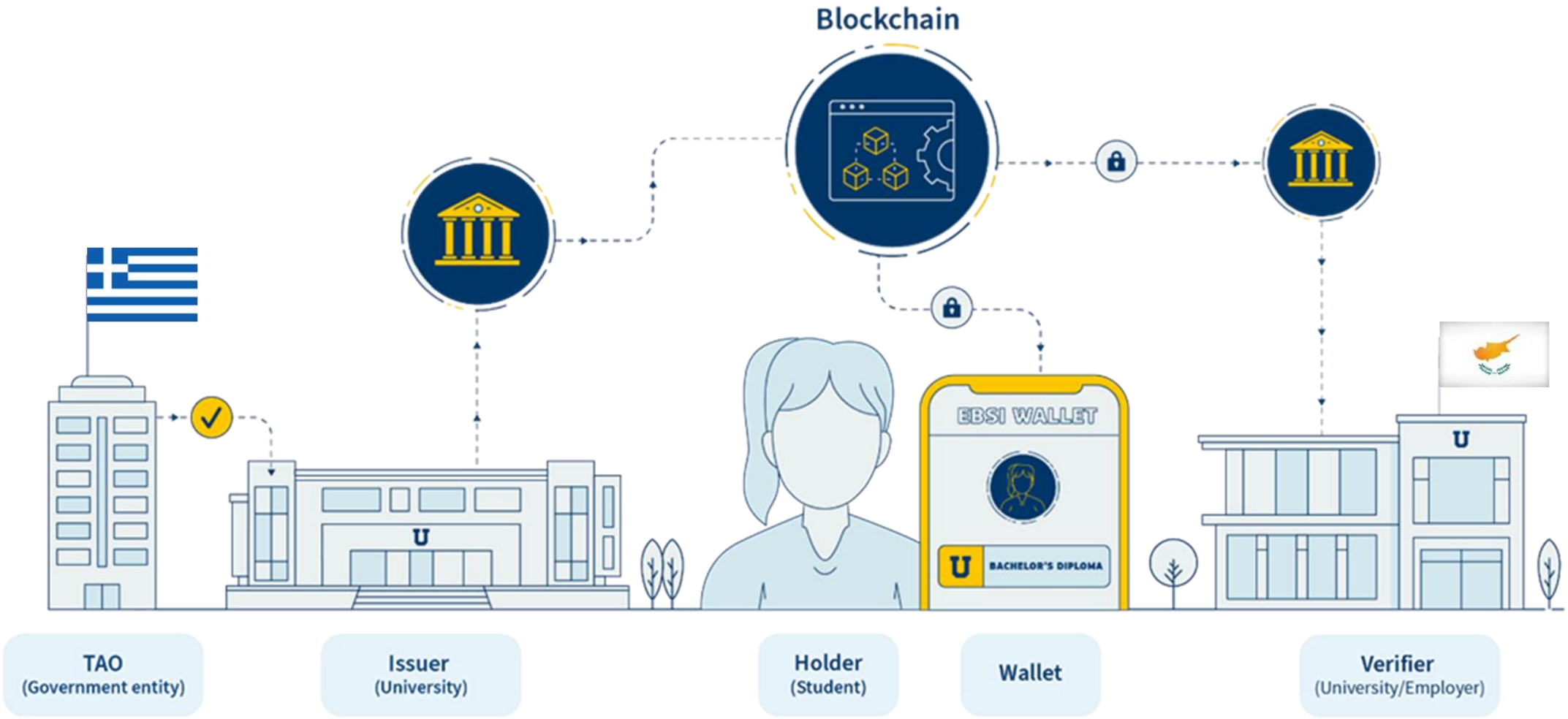
"Blockchain is fundamentally changing the way people and public administration share information and trust each other"

The EU's ambition to lead the way on next-generation “hyperscaling”, includes major investments in blockchain. The Distributed technologies’ importance as a driver of growth in the EU's economy is rising, as this can significantly enhance the way citizens, governments, and businesses interact, by increasing the level of trust between entities.

# CY-EBSI; enrolment in the EA EBSI project



# Piloting EBSI in the education sector: the *cross-border pilot.*



# EBSI’s promo video – inspired by CY-EBSI’s pilot

# Objectives of the CY-EBSI pilot development

- **To familiarise with the technology and lead the change, building a new trust paradigm.**
- **To showcase through the EA program the benefits of embracing the EBSI platform (trust, control, mobility, reduction of costs), by piloting a 5-step concept with a broad community appeal, as outlined below: -**

1

### Onboarding and VC-ID issuance

User creates a CY-EBSI wallet for which his VC-ID is issued by Cyprus Government's portal (Ariadni) – saved in the User's CY-EBSI wallet.

2

### Issue Diploma

A University issues a diploma upon request (having verified the requestor's VC-ID) – the VC-Diploma is then accepted and saved by the User in his CY-EBSI wallet.

3

### Apply for a License to Practice

User applies to become a member of the Chamber (ETEK), to be able to practice a profession in Cyprus, based on his verifiable ID and Diploma credentials. ETEK authenticates his ID and verifies his Diploma credentials.

4

### Issue License to practice

Provided the User's credentials meet the qualification criteria, ETEK issues the License to Practice VC for his specific scientific discipline. The User accepts and saves the License in his CY-EBSI wallet

5

### Present Verifiable Credentials

The User may now present his License to Practice VC (saved in his CY-EBSI wallet) to potential employers for verification.

# The Cross-border scenario

## Onboarding and Acquisition of Verifiable Credentials

Verifiers and Issuers

- Onboard DID Registry
- Store evidences of issuance
- Check attributes of VCs

Government Gateway Portal (Ariadni)

EBSI

Services

Trusted registries

did:ebsi

CY-EBSI Employers' Portal

1

2

3

4

5

e. Secure Login XYZ@JOB.com – view VCs as authorised by Eva.

d. Notification (pending presentations)

c. Send VCs for viewing by XYZ@...

b. Authorise XYZ@ for VC presentation

a. Requesting for ETEK Licence/membership

VID

Diploma

VID

Licence to Practice profession in Cyprus

VID and Diploma

Holder, Eva Adamou

Employer XYZ@JOB.com

GUnet GREEK UNIVERSITIES NETWORK

ΕΤΕΚ ΕΠΙΣΤΗΜΟΝΙΚΟ ΤΕΧΝΙΚΟ ΕΠΙΜΕΛΗΤΗΡΙΟ ΚΥΠΡΟΥ

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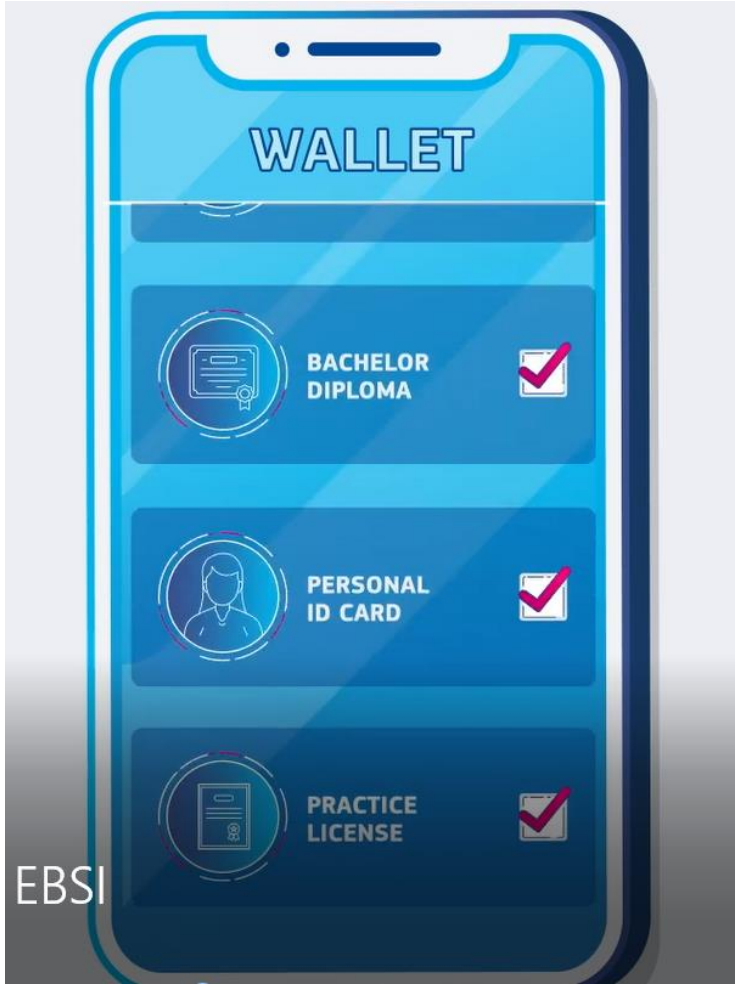
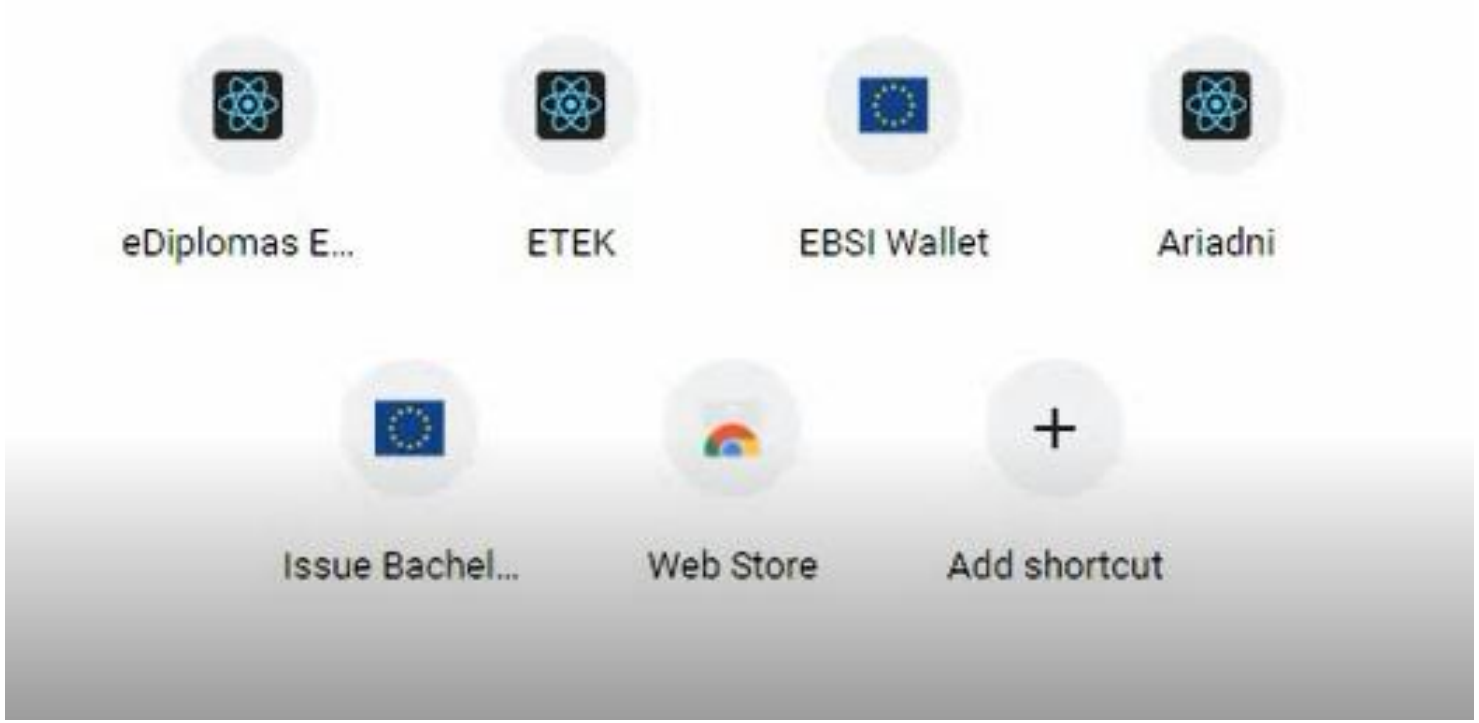
# Pilot Development - Demo 1

## Onboarding and Acquisition of Verifiable Credentials



# The Cross-border scenario

## Verifiable Credentials' Presentation

**Verifiers and Issuers**

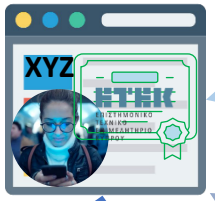
- Onboard DID Registry
- Store evidences of issuance
- Check attributes of VCs

Government Gateway Portal (Ariadni)

**EBSI**

did:ebsi

**CY-EBSI Employers' Portal**




1

5

e. Secure Login XYZ@JOB.com – view VCs as authorised by Eva.

d. Notification (pending presentations)

c. Send VCs for viewing by XYZ@...

b. Authorise XYZ@ for VC presentation

4

a. Requesting for ETEK Licence/membership

VID

Diploma

VID

2

GUnet GREEK UNIVERSITIES NETWORK

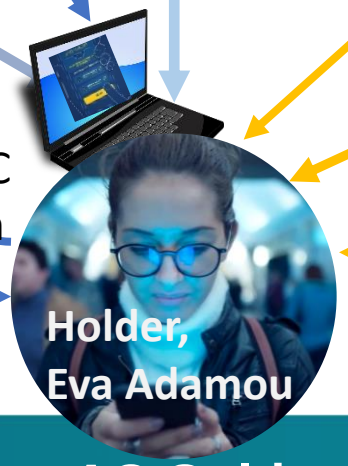
Licence to Practice profession in Cyprus

ΕΤΕΚ ΕΠΙΣΤΗΜΟΝΙΚΟ ΤΕΧΝΙΚΟ ΕΠΙΜΕΛΗΤΗΡΙΟ ΚΥΠΡΟΥ

3

VID and Diploma

**Employer**
XYZ@JOB.com

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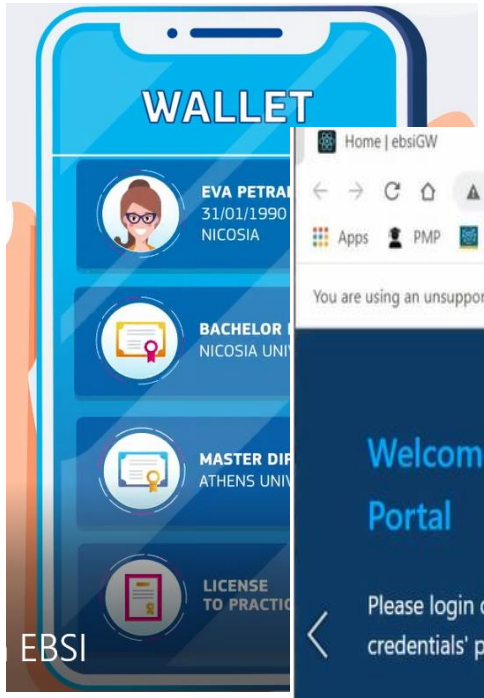
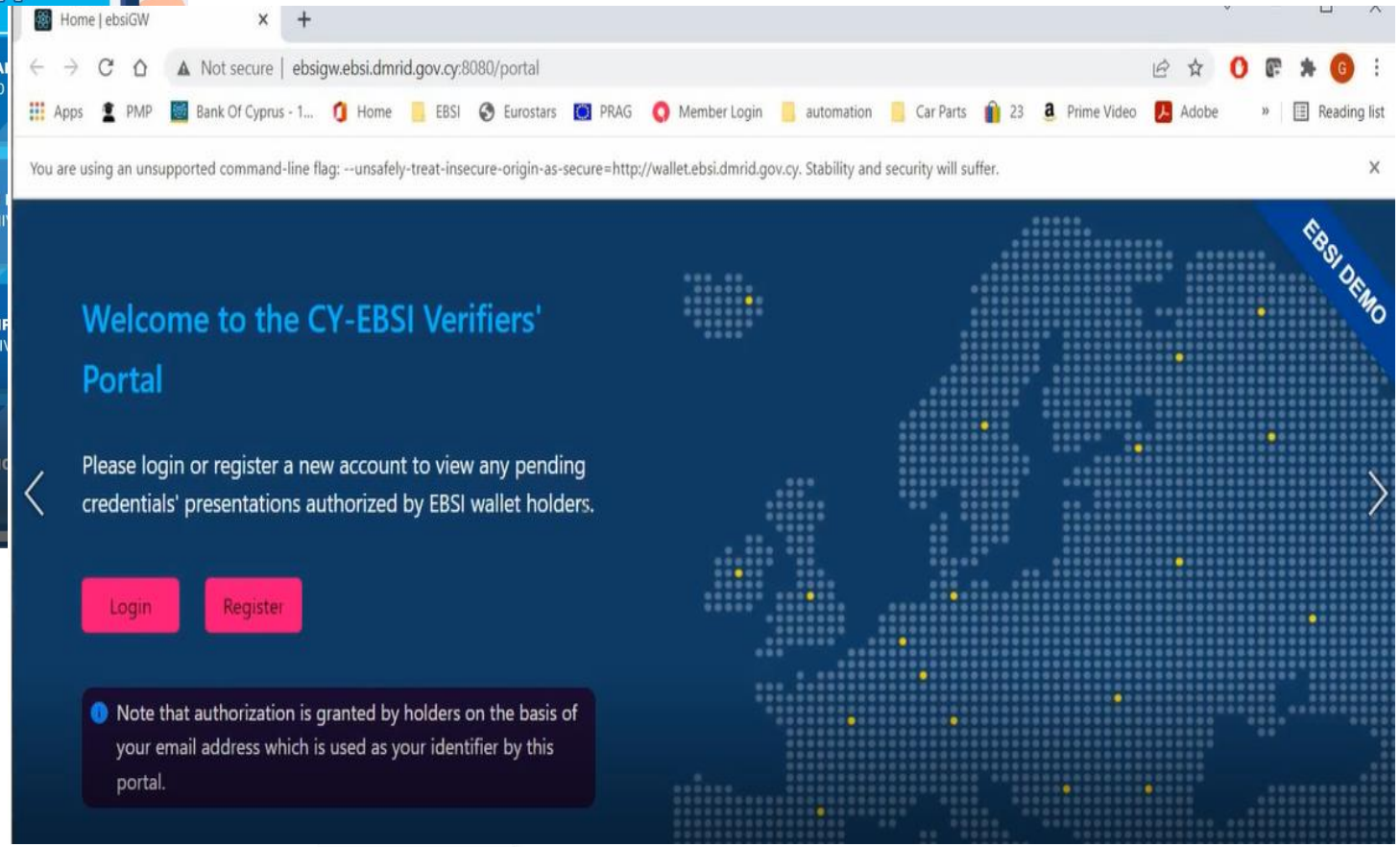
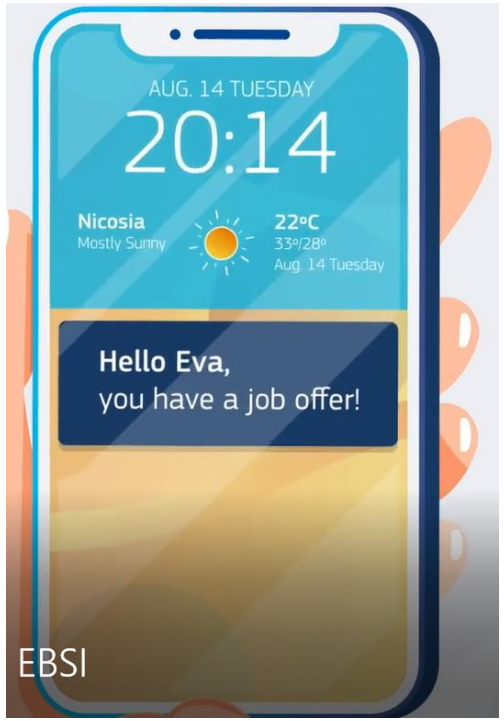
# Pilot Development – Demo 2

## Verifiable Credentials' Presentation



# Pilot Components Developed and Integrated by Goldman's team

- CY-EBSI Web Wallet (to be migrated-evolved to mobile wallet)
- Ariadne portal - Login with Wallet function (EBSI API integration)
- GUnet portal - Login with Wallet function (EBSI API integration, in cooperation with Gunet's team)
- ETEK portal - Login with Wallet function (EBSI API integration)
- Development of Employers/Verifiers' portal (integrated with EBSI)

# EBSI potential market (Diploma Use Case)

Cross-border mobility of students, professionals and entrepreneurs is a cornerstone of the European dream. EBSI's use cases will allow everyone to move, study and work seamlessly in Europe, realising the full potential of the Single (Digital) Market.

# - Join the EBSI ecosystem!

## What's in it for me – Benefits?

## (Credentials' Issuing Organisation)

- Opportunity to integrate own data-registry systems in a standard manner with EU's blockchain infrastructure.
- Provision of a standardised and trustworthy service to your members / associates.
- Interaction with Government agencies and Trusted Issuers effortlessly, reducing /eliminating related admin costs.
- Fraud/Error-proof technology.

**NOTE**: -

- The European Commission's formal Decision (Feb'2022) to open accessibility to software for connecting to the **European Blockchain Services Infrastructure** (EBSI).
- EBSI moves from pre-production into production in 2022.

## How can I join?

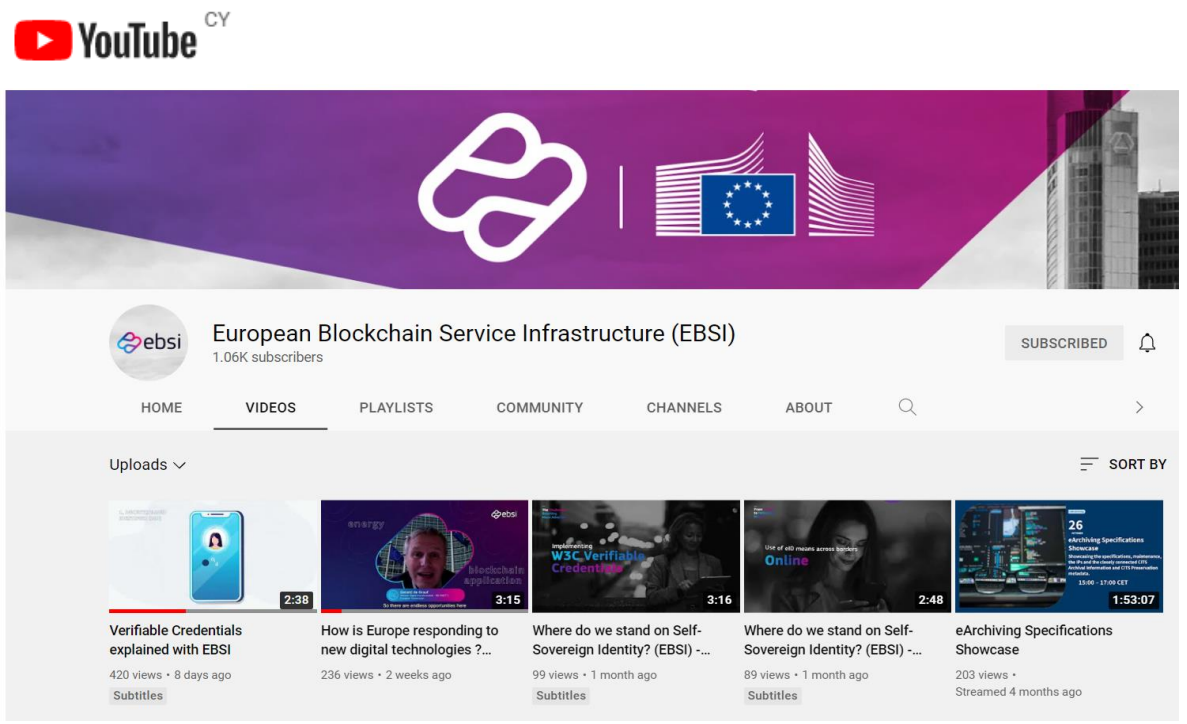
## (Tech Requirements, Commitment)

- Small commitment of IT resources familiar with your current ICT system, that will facilitate the integration with our support and guidance (4-8 weeks' mini project).
- **Not sure - Talk to us!**

# Find out more about EBSI

https://ec.europa.eu/digital-building-blocks/wikis/display/ebsi

https://www.youtube.com/c/EuropeanBlockchainServiceInfrastructureEBSI/videos



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UNIVERSITY of NICOSIA

ΤΑΛΩΣ

# *Ευχαριστώ!*

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