

# Verifiable Digital Ferry Travel Experience via EBSI

07 May 2024 EBSI Ecosystem Day

### Who are we?





- Cyclades Fast Ferries (CFF):
  - Accommodates more than 1,1 million passengers per year traveling to and from the Cyclades Islands in Greece
- University of the Aegean
  - multi-insular entity with Departments located on six (6)
     Aegean islands
  - extensive expertise in digital identity management systems

#### • Trillion Code

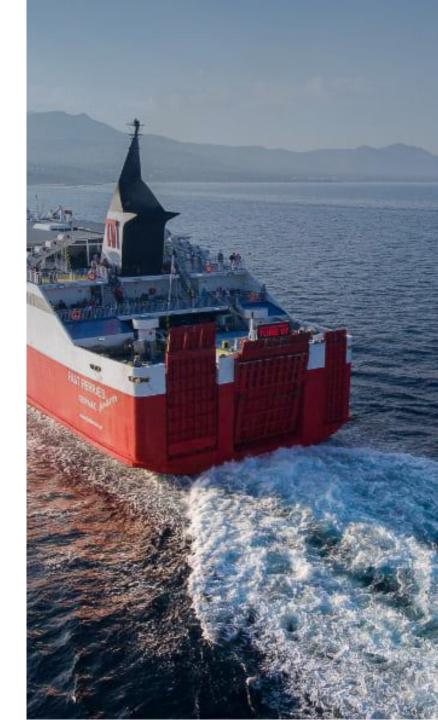
 IT company dedicated to transforming legacy systems, architect for the new age

#### Info-Unit

 Specialised IT company providing software for passenger cruises and ro-ro vessels

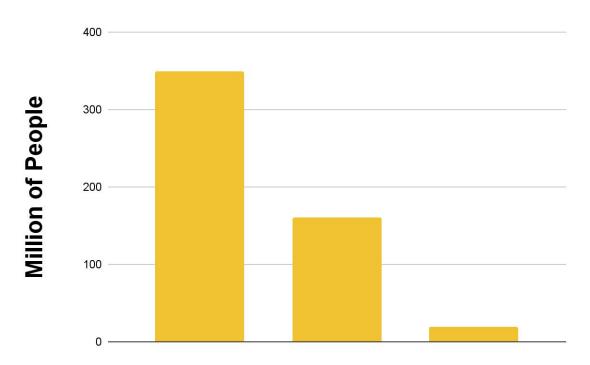






## **Ferry Industry in Numbers**

Why should we care?



- Across EU 350 million Ferry Travelers per year (2022)
- Approximately 46% of these travels takes place across EU borders (<u>Maritime passenger statistics - Statistics Explained</u>)
- Only in Greece more than 19 million per year (2019)
  - ~5% (950K) of these passengers are **students!**



## Challenge

What is the problem we have identified?





#### What is our Vision?









tr://ioncode



- 1. **Verify passenger's identities** online, during booking of ferry tickets
- 2. Provide **convenient storage** of boarding passes
- 3. Enable the **instant verification** of boarding passes together with identities during **embarkation**

Mobile native <u>VERIFIABLE</u> Digital experience: WE GO PAPERLESS!





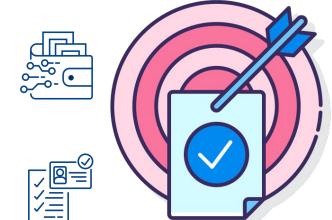


## The pilot project, EBSI, and objectives

Building the foundations of an improved cross-border ferry traveling experience using EBSI.



- SEAMLESS travelling experience:
  - Store, Share, and Present identity and travel document credentials via wallet



- Competitive Advantage of ferry companies:
  - <u>eliminating the need for paper-based</u> checks during **Booking** and **Embarkation**



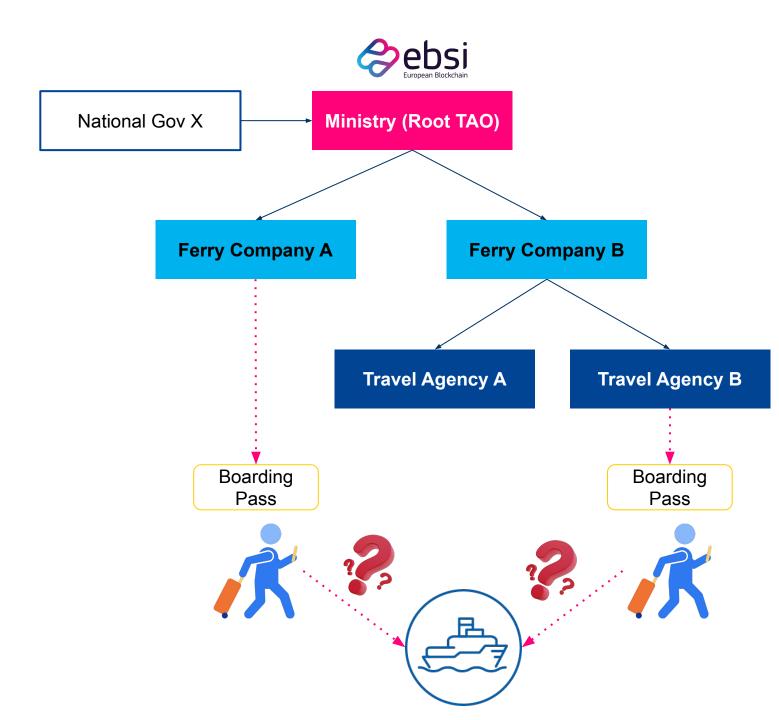
- Leverages the capabilities of the European Blockchain Services
   Infrastructure (EBSI) to enhance Passenger Ferry Travel Experience
- Targeted specifically on EU students travelling on the facilities of University of the Aegean for student mobility programs as part of their University Alliance





## Why EBSI?

- Robust and clear Trust Framework
  - a. Fine grained rules
  - b. Who can issue what?
- Maturity can scale to production
- 3. Interoperability
  - a. between Public (HEI) and Private Sector (Ferry Company), respecting users privacy and enforcing consent
  - b. with eIDAS 2.0



## **Oportunity**

What are the result we wish to achieve?

#### **TODAY**

#### Error Prone

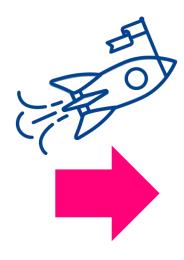
- Manual typing of passenger details
- Manual verification during embarkation

#### Fragmented Stressful Experience

- Boarding Passes in digital or paper format
- Identity documents paper based

#### Siloed IT Systems

- Travel Industry (Ferry Companies)
- Public Sector (disabilities, student Id, special passenger categories)





 Digital verification of travelers' identities (including for students' educational identities), can completely eliminate the need for paper-based documents verifications (booking & embarkation)

#### Seamless Experience

- Boarding Passes
- Identity Documents

#### • Interoperable IT Ecosystem

- Identity Wallet (eIDAS 2.0)
- EBSI trust framework
- GDPR compliant



"Web3 has the potential to transform the current, paper based, ferry travel experience to a modern, secure and frictionless process providing a significant competitive advantage to all parties involved"

## **User Journey**

how does it work in practice?



#### **Prerequisites:**

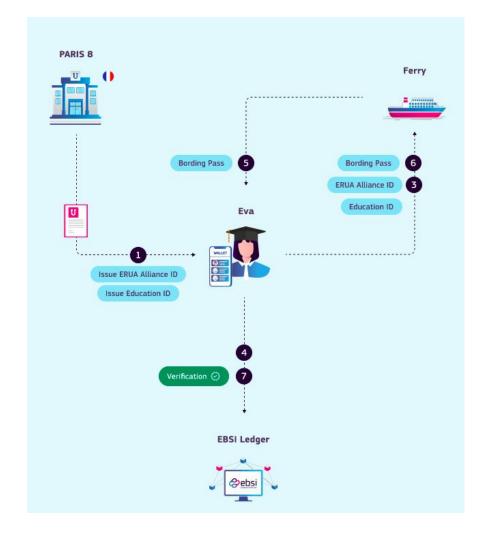
- Eva is a student from Paris 8 (FR), part of the ERUA University Alliance
  - has Education & Alliance ID in her wallet

#### Demo:

- Eva goes to the **Cyclades Fast Ferries website** to book a ferry ticket:
  - Eva submits personal identification information and student status via Education & Alliance ID credentials
- CFF verifies and allocates her student discount
  - Eva receives a booking confirmation email containing a link to checkin and issue her boarding pass on her wallet
- Eva visits CFF Credential Issuer to issue Verifiable Boarding Pass credential

#### On the ship:

- Eva's reaches the port of Rafina, and during embarkation she presents her
   boarding pass directly from her wallet
  - The Embarkation Officer verifies the boarding pass and lets Eva embark! She is on her way to Syros having used only her wallet throughout the whole process!









- 1. <a href="https://dev.fastferries.com.gr/">https://dev.fastferries.com.gr/</a>
- 2. https://dev-i4mlab.aegean.gr/cff

## Where are we now and next steps?

Ensuring a truly seamless cross-border passenger experience & regulatory compliance





- Piloting within May and June
- Mid Summer we plan to go live!



## Does the project stop here?

A BIG NO! We have just scratched the surface...

All passengers, not just students

Catering to the needs of students is only the start!







**And Beyond!** 

**Vehicles** and **Pets**, domestically and **across EU borders** 





A secure channel for interactions

- Payments
- Passenger communication
- Real Time updates



Why stop on Ferries?

- Travel Industry is much bigger
- Same problems are faced elsewhere
- EBSI based solutions can apply

## The future of Ferry Travel is VERIFIABLE give it a try...

it's easy as 1, 2, 3...



PNR: 123
Name: EBSI

Fill in "your" details





## Let's make ferry travel digital & Verifiable



Join us to build a holistic wallet based digital ferry travel experience





