Webinar Series: Trace4EU – Innovative Solutions for Traceability in Europe

Webinar 1

4th June, 2025

Co-funded by the European Union

Agenda

Introduction	9:00 – 09:10
WP 4 Demonstrators	
Agrifood	09:10 – 09:25
Halloumi	09:25 – 09:40
Digital Product Passport	09:40 – 09:55
Discussion	09:55 – 10:30

Each use case has a 15 minutes time slot. Please ask questions about each use case at the final discussion round.

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Project Introduction

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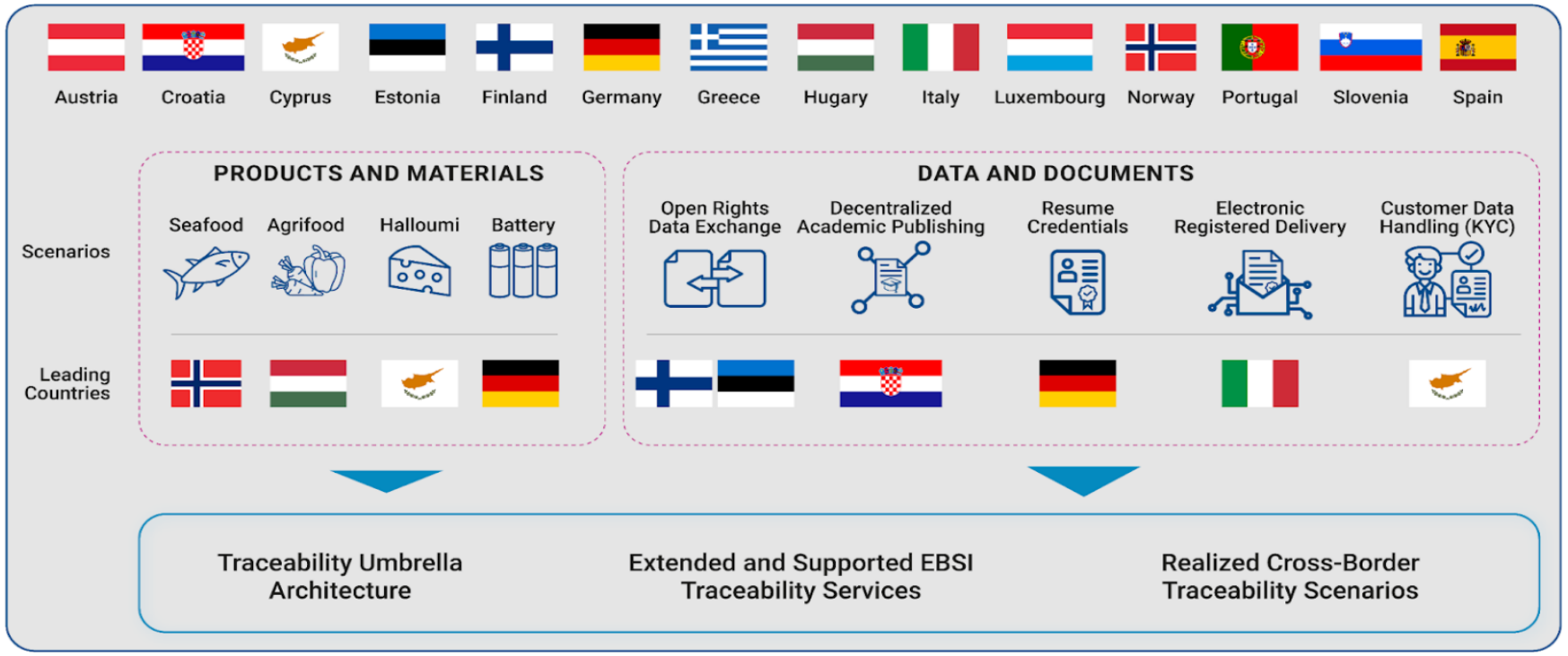
TRACE4EU ensures traceability on products, data and documents accross Europe using EBSI services



Coordinator: Viky Manaila/Intesi Group

Co-Coordinator: Steffen Schwalm/msg

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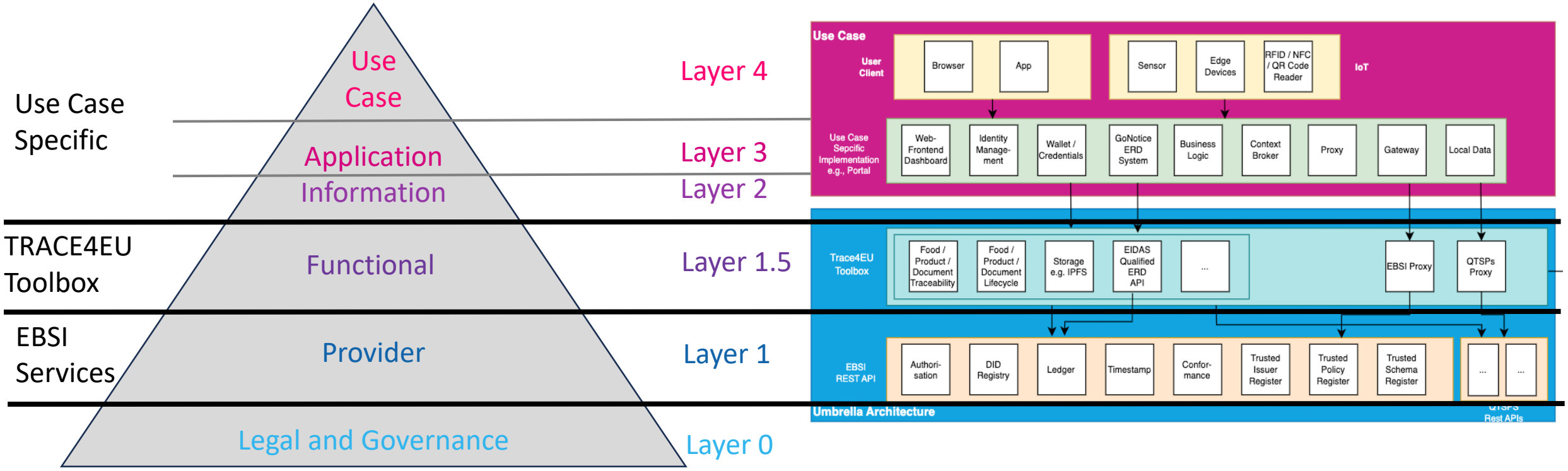
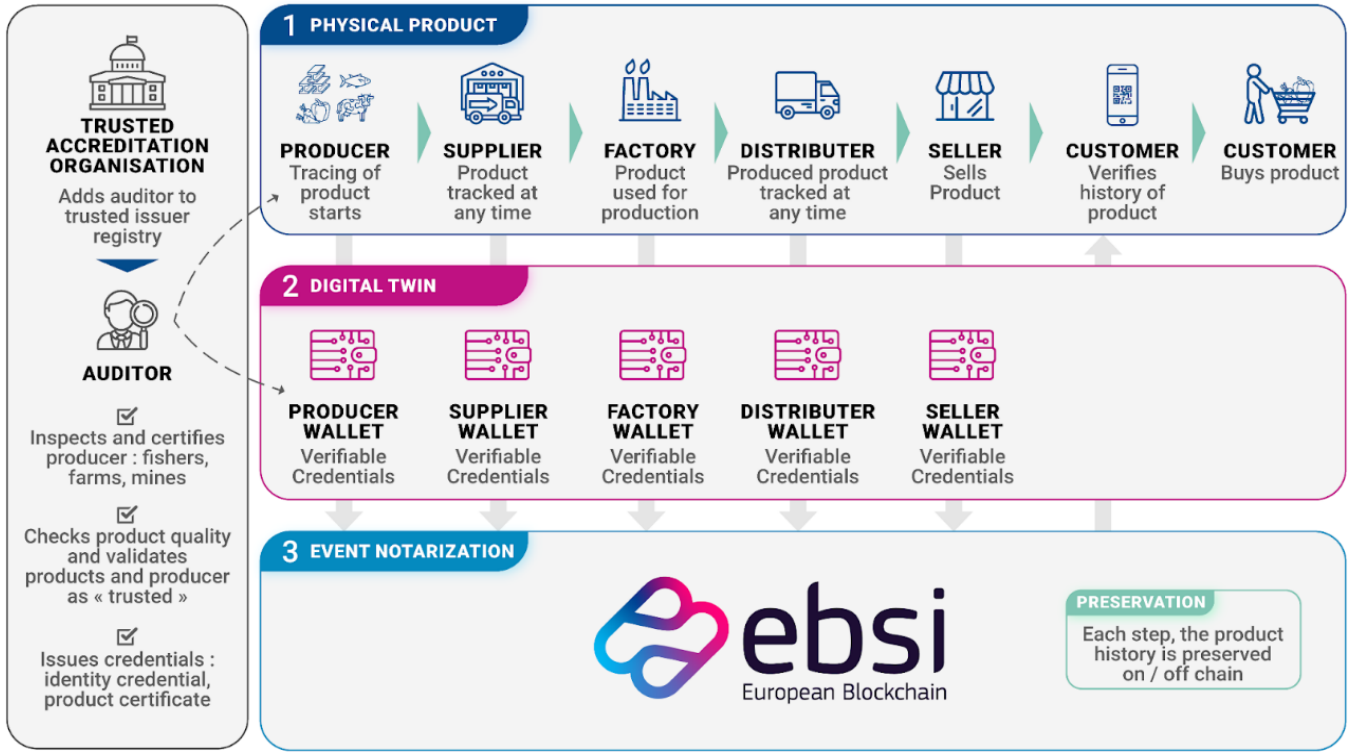
TRACE4EU Umbrella Architecture for all Use Cases



Application Domain Product Traceability on High Level



- Seafood Tracing Application Scenario
- Agrifood Tracing Application Scenario
- Materials Tracing Application Scenario (Digital Product Pass)
- Halloumi Cheese (PDO)Tracing Application Scenario

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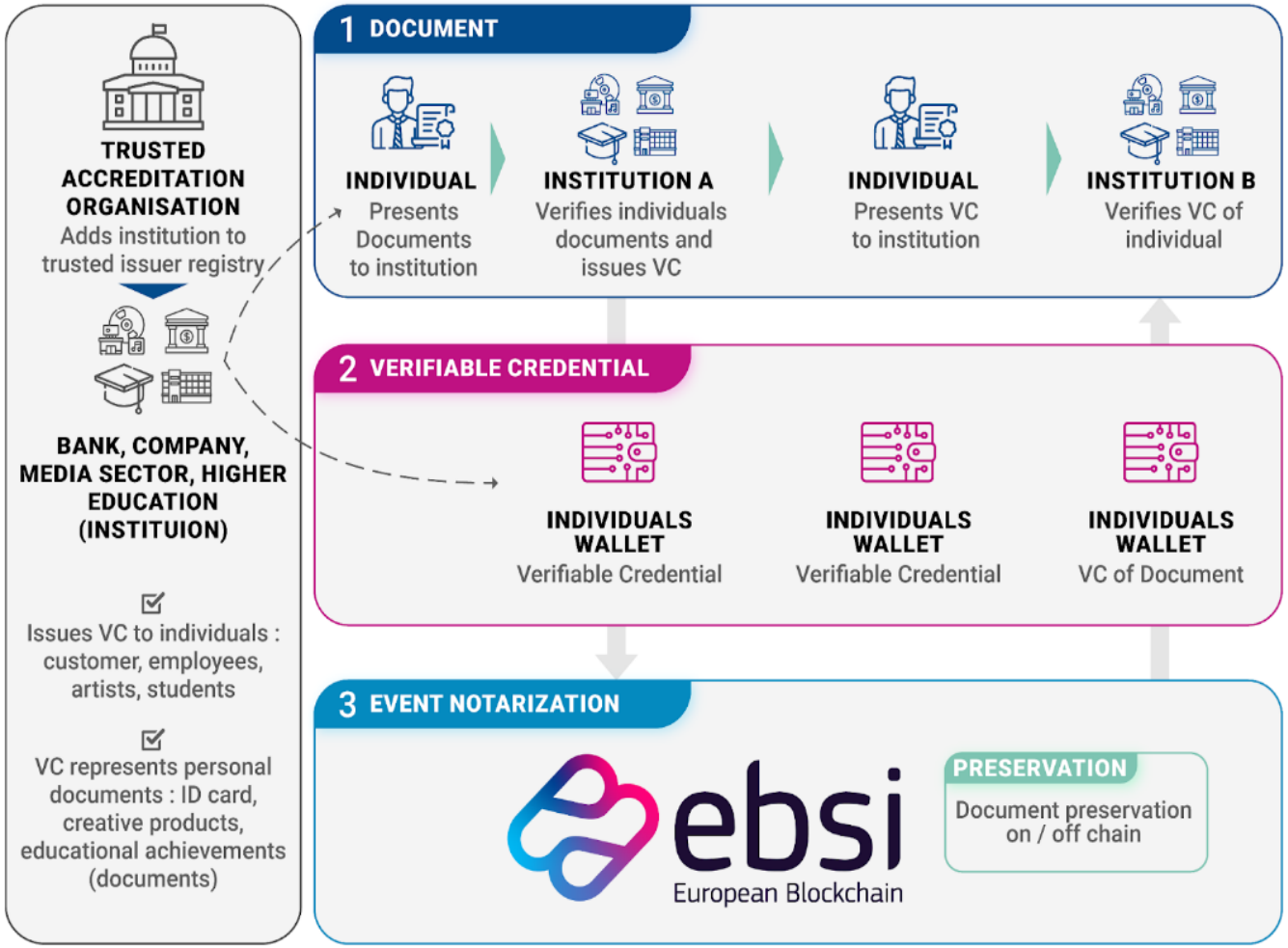
Application Domain Document and Data Traceability on High Level



- Open Rights Data Exchange
- Resumé Credentials Application
- Democratisation of Academic Publishing - DAP
- Electronic Registered Delivery
- Know Your Customer

Product-/Material Traceability Demonstrators

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Agrifood

Contact: Matyas Lukacs, Neumann

Problem/Challenge

- *A lot of products coming from **unknown origin**.*
- *Difficult to **differentiate domestic products** from import products.*
- *Imported and rebranded products cause an **unfair competition for the local farmers**.*
- *The current regulations in the public catering sector require **80% of the purchased products to be from a short supply chain**, however the validation of this is rather complicated and time consuming.*

Solution

- *A fully **transparent, tamper-free environment** based on EBSI to validate and trace agri-food (short) supply chains.*
- *An easy to navigate, **flexible browser interface** reachable from smartphones and PC alike.*
- *Strict authorization and different permissions (different levels) for system users.*
- *Prepared product data sheet templates for easy **batch-to-batch product/produce registration**.*
- *Built-in **QR code generation** for physical identification.*
- ***Product quality summary** upon QR code scan at any stage.*
- *Detailed **system usage logging** for monitoring/retrieval.*

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Halloumi

Contact: Yiorgos Constantinou / Yiorgos Antoniou, **AC Goldman Solutions & Services Ltd**

Problem/Challenge

Non-certified, fake products on the market, imposing unfair competition, and potential defamation of genuine PDO/PGI products – we owe to find an effective/trusted way to:

- Protect the consumers and their right to spend/buy what they believe is a genuine product.
- Protect the licensed (certified/audited) manufacturers' investment, commitment and financial interests.
- Help Authorities to enforce/control the legitimacy of PDO products in the EU market (and beyond).

We need to introduce a trustworthy 'layer' of real-time defense against product counterfeiting.

Solution

Using EBSI's "Track'n'Trace" service, genuine (PDO/PGI) products can be effectively traced. A QR code on the product's packaging that reveals all key identity details in the form of events relevant to its production. These events are "signed" in its T'n'T blockchain document by individual licensed/authorized contributing parties (farmers / raw materials suppliers, transporters, manufacturers). Each T'n'T document can relate to an individual product or a batch and can only be created by an authorized end-product manufacturer. Such authorizations can only be granted (or revoked) by the Administrative State Authorities for each specific product a manufacturer is licensed to produce.

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Digital Product Passport (DPP)

Contact: Johannes Ebert / Carsten Stöcker, Spherity

Problem/Challenge

The EU Battery Regulation and ESPR mandate DPPs — but managing a DPP over a long lifecycle is complex. Batteries can be used for 10+ years, then reused, remanufactured, or recycled. Over such long timelines, companies might change domains, be acquired, or go out of business, making long-term DPP availability and trust a challenge.

Solution

We embed EBSI DIDs, VCs, and timestamping to anchor DPPs on the European Blockchain Infrastructure, ensuring a stable, trusted, and always accessible platform. This enables verifiable DPPs which will always be resolvable via EBSI, seamless integration of third-party certificates (e.g., state-of-health, supply chain certifications), and timestamped proofs of existence. In addition, there is technical alignment work between EBSI and the EUDI Wallet providing the potential for eIDAS compliance. The EBSI stack is embedded in a production grade DPP solution to prove the technical feasibility.

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Discussion

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