member

LF DECENTRALIZED TRUST

webinar

Building a Shared Trust Layer for Europe: EBSI Business Launch



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EUROPEUM

Digital trust in Europe.

01



Célia Couson
Stakeholder management officer

Europe is turning trust into law.

2014	May 2024	Nov 2025	Dec 2026	Dec 2027	2030
eIDAS	**eIDAS 2.0**	**Business Wallets**	**Wallets live**	**Acceptance**	**Digital Decade**
E-signatures, seals and trust services recognised in every Member State.	Adds the EU Digital Identity Wallet and qualified electronic ledgers.	Commission proposes one legal digital identity for companies.	Every Member State must offer an EUDI Wallet.	Banks and large online platforms must accept the wallet.	Target: every EU citizen has access to a recognised eID.

What it means: anyone serving Europeans will need to issue and verify trusted credentials.

Sources: Regulation (EU) 2024/1183; EC Business Wallets proposal, Nov 2025; Digital Decade Policy Programme 2030.

A trust infrastructure to support digital trust ecosystem

End users

Public authorities

Citizens

Businesses

serve end users

Solution providers

Identity wallets

DPP providers

Trust services

Data sharing solutions

build on EBSI

ebsi

Trust infrastructure to build and scale digital solutions

Shared layer

Europeum, EBSI and governance.

02



Marc-Antoine Lemaire

CTO

Advancing digital trust across Europe.

EUROPEUM

European Digital Infrastructure Consortium established as an international public agency by its EU Member States.

OUR MISSION

Operator of pan-European decentralized trust infrastructure services.

01

Operate European Blockchain Services Infrastructure (EBSI)

02

Advance eIDAS 2.0 and open standards

03

Enable the trust ecosystem

04

Grow multi-country communities

One chain of governance, from States to network.

10 Member States Assembly

Governs Europeum-EDIC



↓

Europeum-EDIC

Operates and develops EBSI

↓

EBSI network

Nodes run across Member States

The business launch turns EBSI into services.

Service catalogue release

Services catalogue tailored for solution providers.

Business model & pricing

Pricing model combines cost predictability for clients with volume-based progressive pricing

Application service providers onboarding

EBSI portal for autonomous testing, onboarding and monitoring.

Services and capabilities.

04



Olivier Connan

Senior product manager

EBSI services supporting trust

Ready to use



S1

Documents

Verifiable records and proofs

Where does this record come from, and has it changed?

Ready to use



S2

Organisations

Trust chains and ecosystem of issuers

Who issued this, and were they entitled to?

Ready to use



S3

Products

Origin and traceability

Who contributed what to this product’s history?

Build your own



S4 Coming soon

Smart Contract Factory

Your own smart contracts from approved templates

Example, digital assets: who holds this right?

S1

Proof that travels with the record.

Business value

Anyone verifies a record themselves: when it existed, and that it has not changed.

Removes: recipients coming back to you to check authenticity, case by case and border by border.

How it works

01 Anchor

A hash and metadata go on EBSI; files stay with you.

02 Prove

A timestamp fixes when; Track and Trace adds each step.

03 Verify

Anyone recomputes the hash and compares it.

On EBSI

Core: Timestamp (TS) · Track and Trace (TnT)

Shared: Authorisation · DID Registry (DIDR) · Trusted Policies Registry (TPR)

Public reads: no account, no token. Writes need a token and your key.

In practice: from a statistics release to a journalist’s fact check →

S2

Trust the authority, not just the signature.

Business value

Any relying party checks the issuer, its accreditation and the credential's status, without contacting you.

Removes: a signature that shows who signed, but not whether they were entitled to.

How it works

01 Chain

Root authority, accrediting bodies, trusted issuers.

02 Registries

Accreditations in TIR, formats in TSR, identities in DIDR.

03 Verify

Follow the issuer up to a root you accept.

04 Revoke

A withdrawal shows at the next check.

On EBSI

Core: Trusted Issuers Registry (TIR) · Trusted Schemas Registry (TSR)

Shared: Authorisation · DID Registry (DIDR) · Trusted Policies Registry (TPR)

EBSI hosts the registries. Each ecosystem decides who is accredited.

In practice: one trust chain, from a ministry down to every diploma →

S3

One trail across many organisations.

Business value

Each organisation signs its own step, and anyone can check the product's history.

Removes: supplier claims as declarations and PDFs, and a trail that breaks at every handover.

How it works

01 Chain

The authority accredits who may write (S2).

02 Write

Issuers write via S1: Track and Trace or Timestamp.

03 Data

Payloads are referenced by hash, not copied.

04 Verify

Who wrote what, accredited by whom, unchanged.

On EBSI

Core	Track and Trace (TnT)	Timestamp (TS)	Trusted Issuers Registry (TIR)
	Trusted Schemas Registry (TSR)		
Shared	Authorisation	DID Registry (DIDR)	Trusted Policies Registry (TPR)

In practice: a battery passport, from factory to recycler →

The EBSI network.

03



Iulian Nita

Service operations manager

EBSI: a secure, sovereign and resilient infrastructure.

EUPL

open source licence

W3C

built on open standards

eIDAS

aligned

Besu

an LF Decentralized Trust project

Distributed network

Operated through a network of European nodes, endorsed by Member States.

Built for interoperability

Open standards enable verification across systems, organisations and borders.

Designed for integration

Connect existing applications to EBSI services through APIs and developer tools.

Every node has a role and a trust level.

Network node roles

Validator nodes

Participate in consensus and transaction validation.
Approved by existing validators (>50% vote).

Regular nodes

Basic network participation. Nodes that propagate transactions and maintain a full copy of the ledger. Expose APIs.

Node trust levels

Qualified (under review) Level 3

EU Qualified Electronic Ledger regulation.
HSM-secured validator keys. Provide qualified services.

Trusted Level 2

Compliant node with proven operational KPI, SLA, response time and incident remediation. ISO 27001 certificate. Listed in Trusted Node List (TNL).

Compliant Level 1

A node meeting all technical and security requirements. The node may expose APIs to its own clients/users.

Four principles guide the network's next steps.

Distribution

- 16 validators + 4 regular nodes in 12 countries → target: all 27 Member States
- At least one validator per EU Member State
- Representative entity per Member State

Decentralisation

- Network – decentralised
- Tech Governance – semi-decentralised
- All in One nodes (Besu+APIs) semi-decentralised
- Tech Orchestration – centralised
- Tech Monitoring and Alerting – centralised

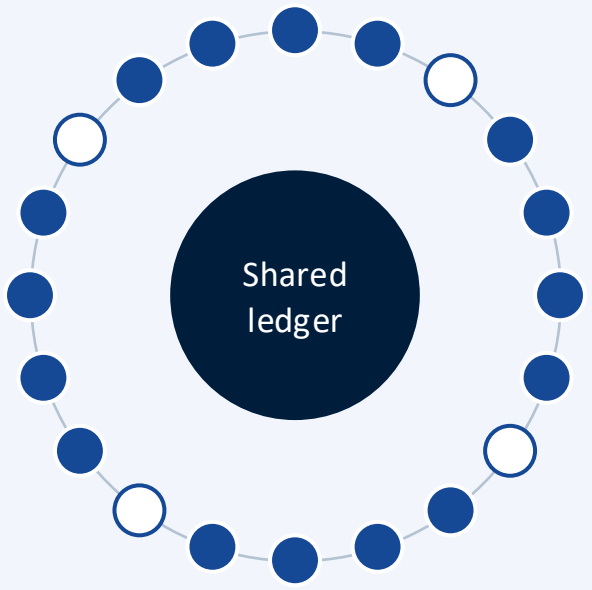
Security

- EBSI Orchestration Infrastructure
- Node VM Security
- Node Perimeter Security
- External Security Audits

Trust

- Blockchain protocol (QBFT) (Besu client)
- Legal Compliance
- Technical Compliance
- Security Compliance
- SLA Compliance

EBSI production has run since 15 April 2026.



20
nodes

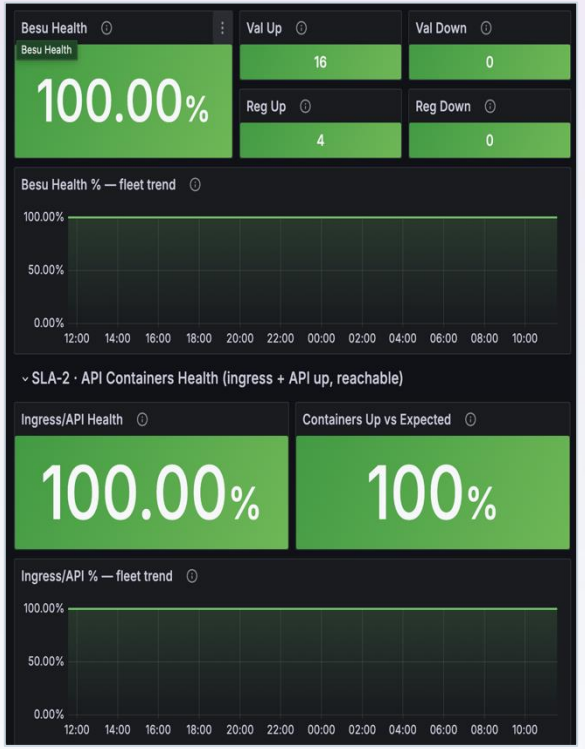
regular nodes
validators

Onboarding is open

Genesis block
15 April 2026

Block time
8 seconds

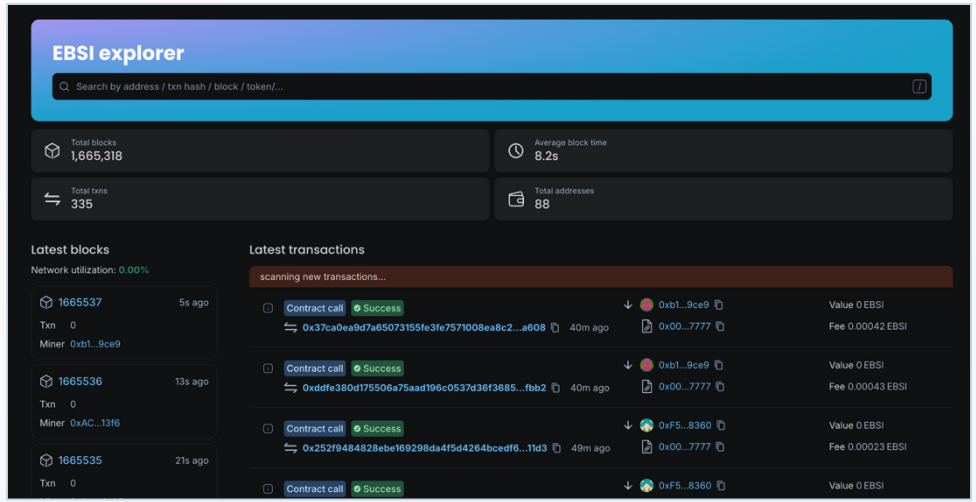
Since genesis
No downtime



Registries, one API and a node list are live.

The services that are released

1. **All 9 smart contracts**
   TIR, TSR, TPR, DID, etc.
2. **The Unified API**
3. **Trusted Node List**
   TNL



Block explorer blockexplorer.ebsi.eu



Network map europeum.eu/ebsi-network-map

EBSI in practice.

05



Célia Couson

Stakeholder management officer

One shared infrastructure for multiple applications

01 Education & skills

Diplomas and degrees
Micro-credentials
Student ID & transcripts
Vocational certificates
Diploma recognition
University alliance access
Lifelong learning records

02 Public services

Criminal record checks
Notarised documents
Refugee qualifications
Municipal credentials

03 Work & social security

PDA1 social security
EHIC health cover
Employment records
Professional licences

04 Business & finance

Company identity
Digital bonds for SMEs
Investor onboarding

05 Industry & products

Product passports
Battery traceability
Calibration certificates

06 Media, research & culture

Official statistics
Creative rights data
Anti-counterfeiting

07 Agrifood

Seafood traceability
Food origin & safety

08 Trade & mobility

Customs & e-commerce
Ferry & travel onboarding

Use case · A national statistical institute

From release to fact check.



From factory to recycler.

Battery manufacturer — accredited to issue the passport

Partners

Recycler



Build your trust chain

Trusted issuers and authorities are recorded on chain

Issues a passport

Data stays with the maker.

Grants rights

Carrier and car maker accredited.

Sign their steps

Delivery, then installation.

Verifies the trail

Who wrote what, accredited by whom.

On EBSI

Accredited in TIR
Chain to the authority

Passport anchored
Data referenced by hash

Partners accredited
Revocable at any time

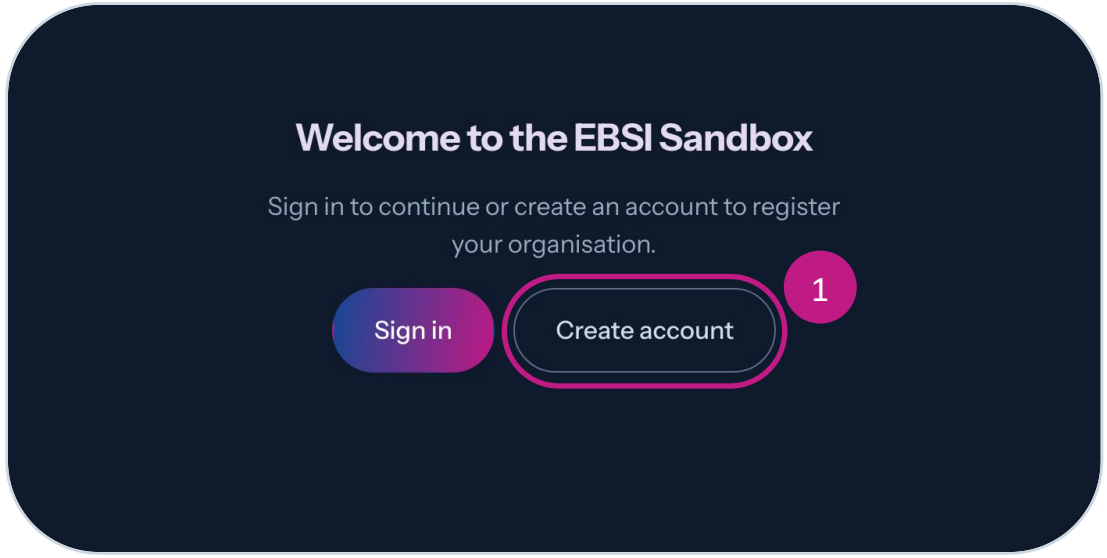
Steps recorded
Signed by each author

Trail verified
Unaltered, as signed

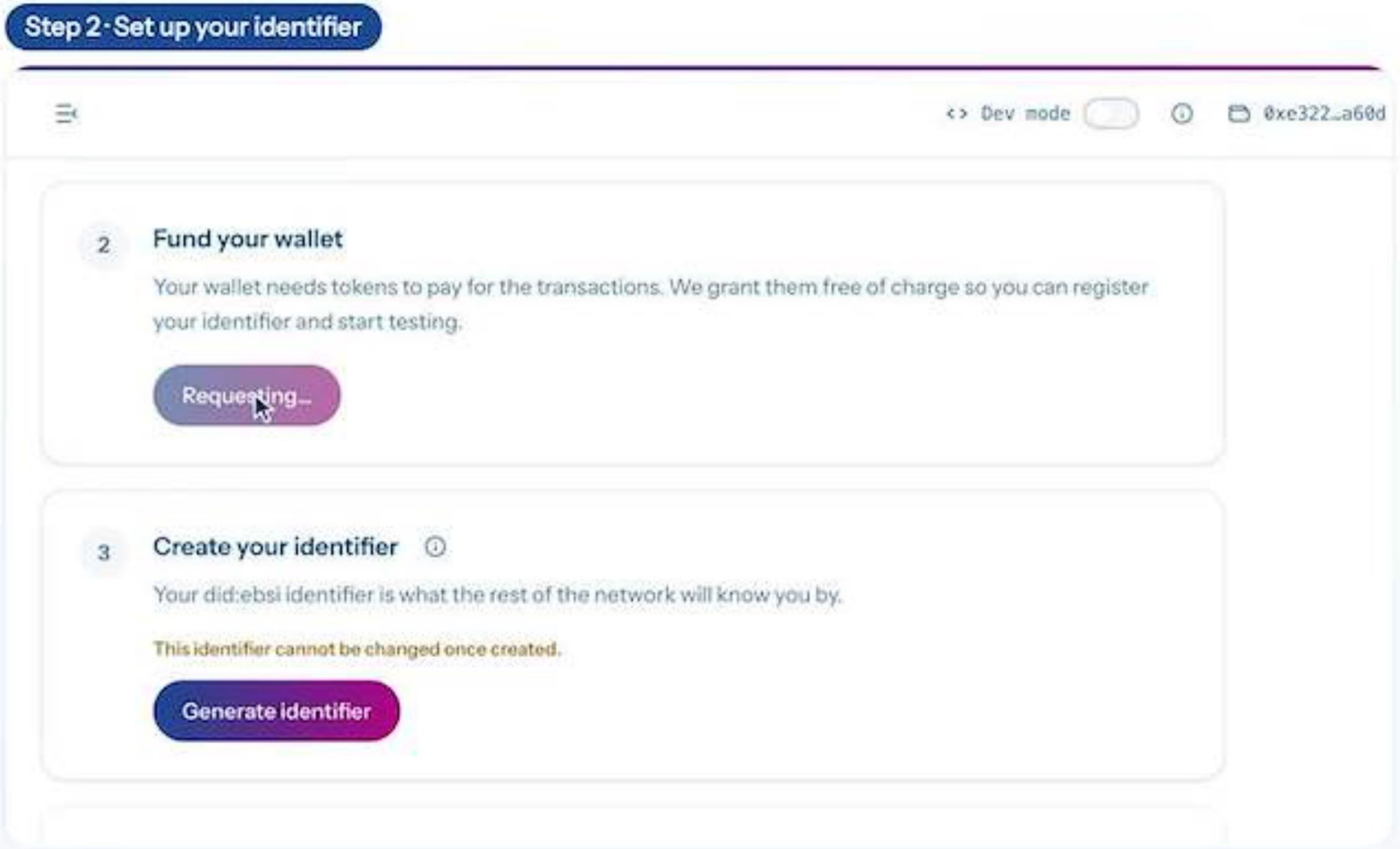
EBSI Sandbox available for testing

06

Four steps from sign-up to a first proof.



1. **Create an organisation account**
   Self-service sign-up on the Sandbox portal.
2. **Get an identifier**
   The portal creates a wallet in your browser, funds it for test transactions and registers your organisation's DID on EBSI.
3. **Timestamp a document**
   Only its fingerprint goes on chain.
4. **See the code**
   Developer mode shows each step in Node.js, cURL or the EBSI CLI.



funds it for your test transactions

Start testing EBSI today.

Ready to build

Test in the Sandbox

Create an organisation account and run your first transactions on pre-production.

hub.ebsi.eu/sandbox

Want to discuss integration?

Talk to us about your project

Share your use case through the form and our team will get back to you.

ebsi.eu/get-started

Interested in running an EBSI node or got any questions? Reach out at **smo@europeum.eu**

EUROPEUM

Questions and discussion.

Thank you for joining.

info@europeum.eu · europeum.eu · hub.ebsi.eu · ebsi.eu/get-started