EBSI-NE

EBSI-NE perspectives on qualified electronic ledger

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Funded by
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eIDAS 2

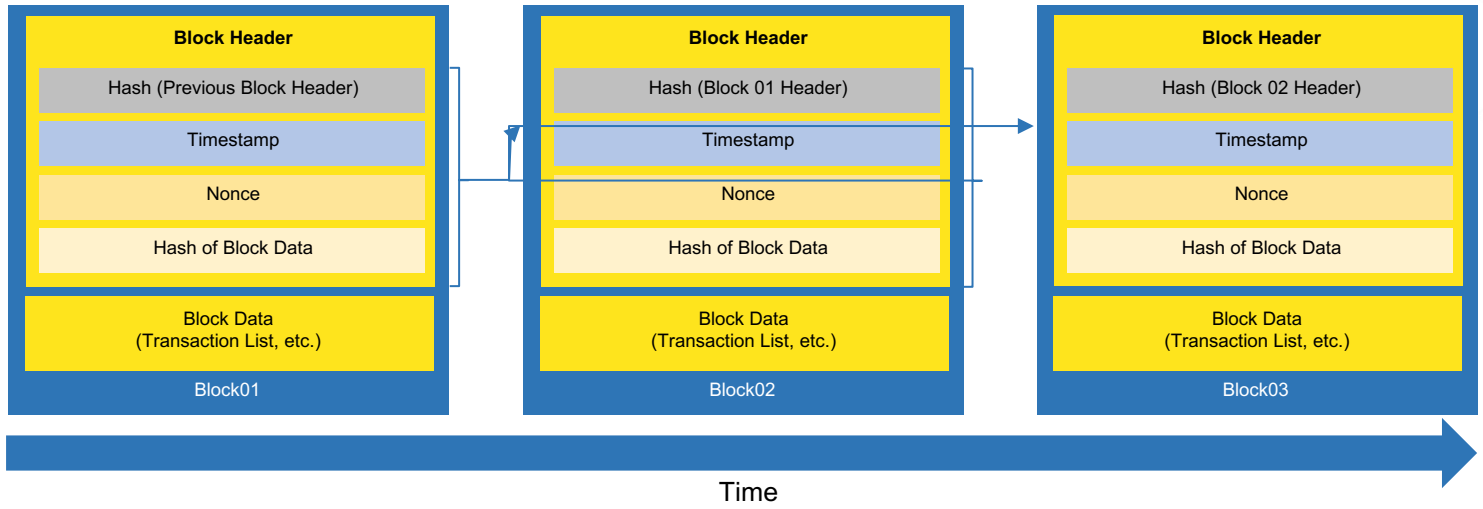
A NOVEL ELECTRONIC LEDGER REGULATION

Legal institution → Electronic ledger

Legal effect → Data records contained in a qualified electronic ledger shall enjoy the presumption of their unique and accurate sequential chronological ordering and their integrity

Trust service tokens (products)

Block added to blockchain (...)



Relevant trust services (regulated infrastructure)

Recording of electronic data in an electronic ledger (by one or different TSPs working jointly, according to a consensus protocol)

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EUROPEAN BLOCKCHAIN SERVICES INFRASTRUCTURE

USE CASES SUPPORTED BY LEDGERS

TRACK AND TRACE

Improving transparency and traceability of goods throughout the supply chain.

VERIFIABLE CREDENTIALS

Issuing and verifying digital credentials in a secure and tamper-proof manner

TRUSTED DATA SHARING

Enabling secure and controlled data exchange between different entities.

SELF-SOVEREIGN IDENTITY

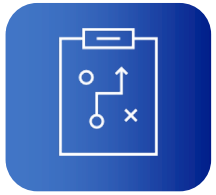
Allowing users to create and control their own identity across borders.

SOCIAL SECURITY

Streamlining social security processes and ensuring the portability of benefits across borders.

SME'S FINANCING

Facilitating access to finance for small and medium-sized enterprises (SMEs)



DIPLOMA MANAGEMENT

Securely issuing, storing, and verifying educational diplomas and transcripts.

ASYLUM PROCESS MANAGEMENT

Streamlining the asylum process and ensuring fair and efficient procedures.

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EBSI CURRENT NETWORK

A GOOD START, BUT...

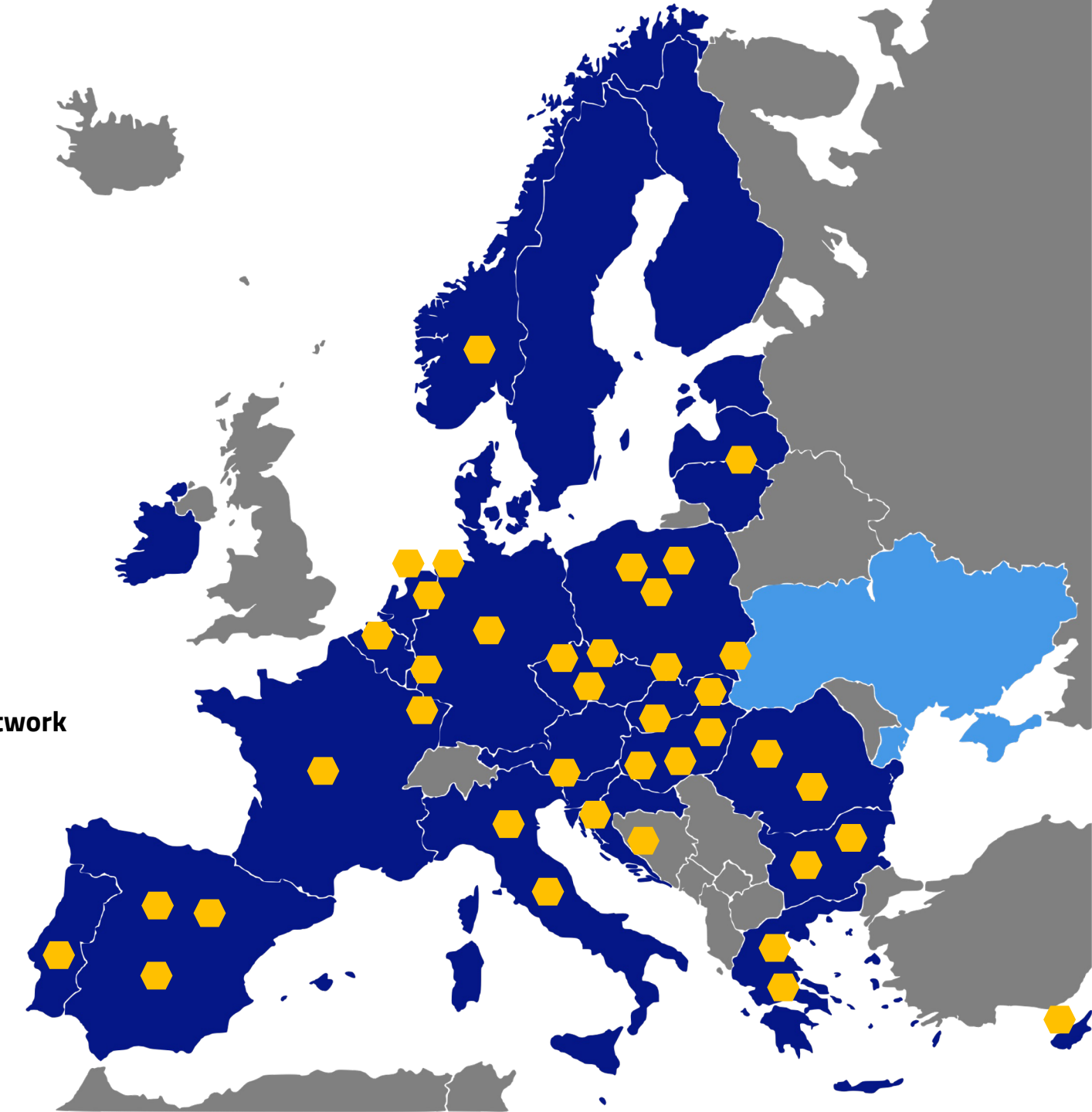
29

COUNTRIES +
UKRAINE AS OBSERVER

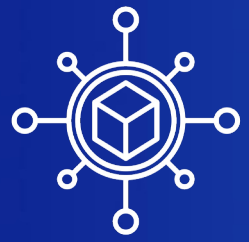
39

NODES IN PILOT ENVIRONMENT

Piloting nodes in the network

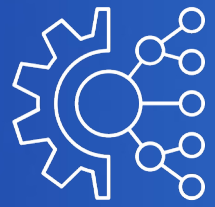


EBSI-NE PROJECT
AIMS TO BUILD A LARGER AND BETTER EBSI



MISSION

Strengthening the EBSI network by increasing the number of validator nodes and providing support services.



OBJECTIVES

1. Increase validator nodes
2. Provide support services for EBSI stakeholders

CONSORTIUM

24 organisations from 14 countries.

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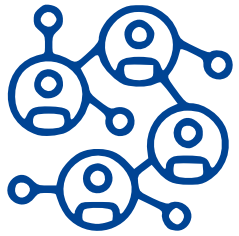
NETWORK EXPANSION

BENEFITS OF LARGER NETWORK

1

More decentralisation

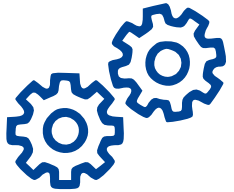


2

Improved consensus

3

Enhanced performance



4

Increased trust

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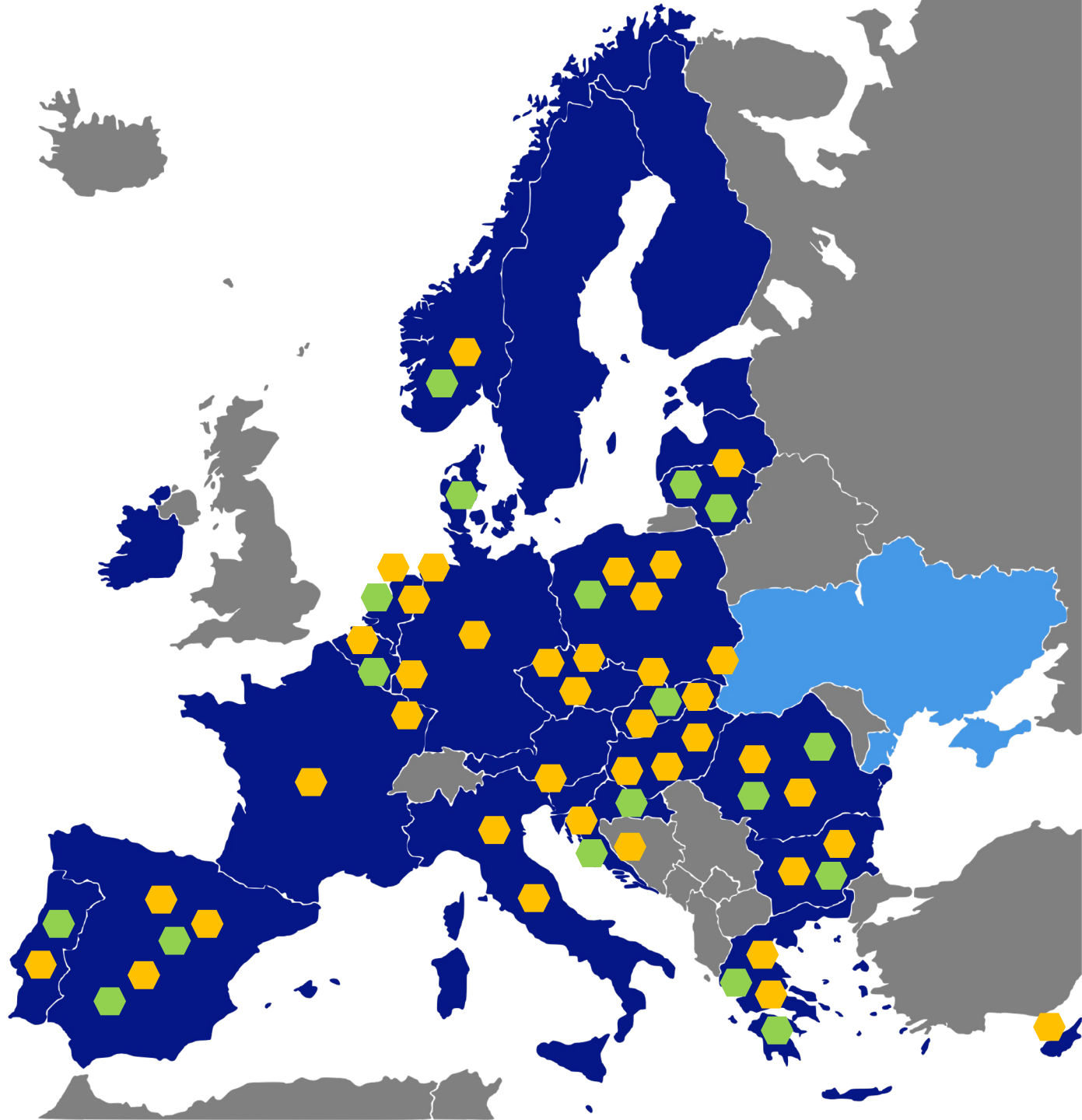
NETWORK EXPANSION

+18

NEW NODES
IN 13 COUNTRIES

Validation nodes (production) EBSI-NE

Piloting nodes in the network



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3 MAIN CONTRIBUTIONS

1

Trustworthy PoA Consensus Mechanism

EBSI uses **an environmental-friendly decentralised protocol** to verify transactions through validator nodes, while **ensuring trustworthiness**.

2

Legal compliance

EBSI-NE is preparing the network to be **eIDAS 2 compliant.** It will be possible to qualify the service. Differentiation between **QTSP using ledger and QTSP for ledger** (EBSI-VECTOR contribution).

3

International standards

EBSI-NE increases the **cybersecurity and resilience** of EBSI by aligning with international standards and security measures. Standardization works started at CEN/CLC/JTC19, aligned with ISO TC 307 and ETSI TC ESI.

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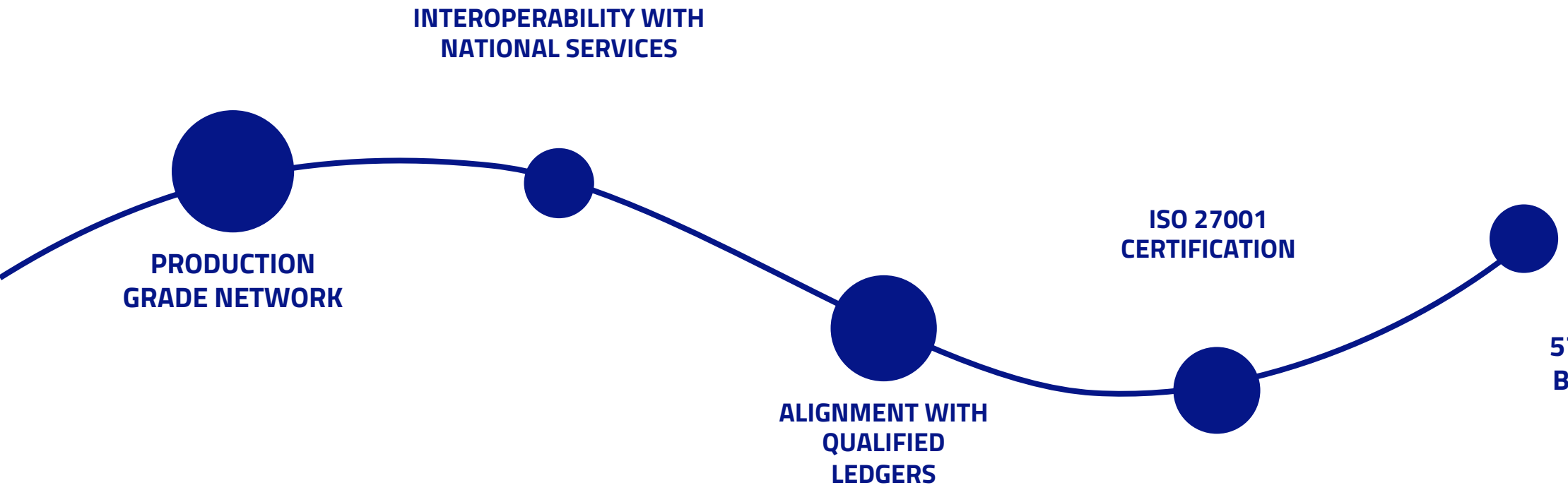
MOVING FORWARD



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THANK YOU

Check out the EBSI-NE Website

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