



EU Blockchain Policy from Standardisation Perspective

**ITU Workshop on DLT security, identity management and
privacy**

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Blockchain/DLT Standardisation:



“To lead the way on next-generation hyperscalers, we will invest in blockchain, [...]. We will jointly define standards for this new generation of technologies that will become the global norm.”

President Ursula von der Leyen,
Political Guidelines 2019-2024

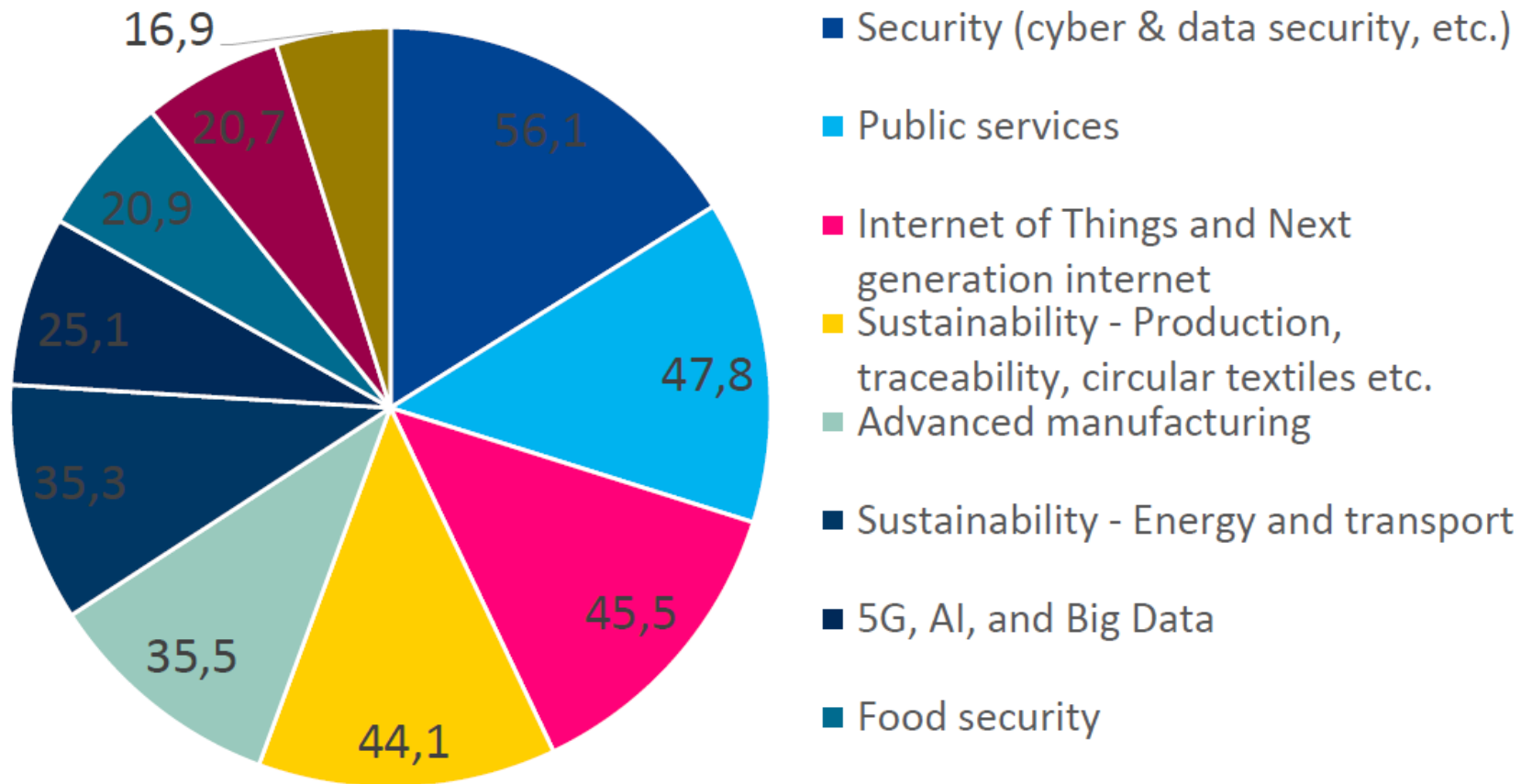


and others...

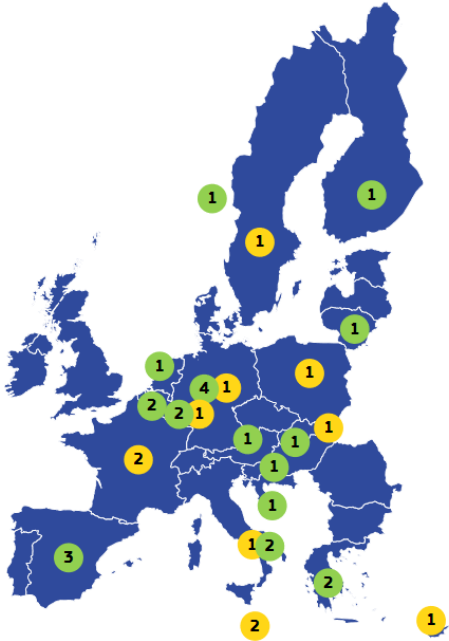


Research & Development

EU R&I funded projects (total 347 M€) by areas



The Public Sector as Trailblazer



European Blockchain Partnership

European Blockchain Services Infrastructure

Co-operation between Public Authorities / **EDIC tbc**

Pilot phase, 30 nodes, EU 27 + Norway, Liechtenstein

7 Use Cases under development

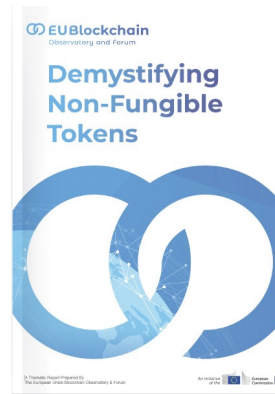
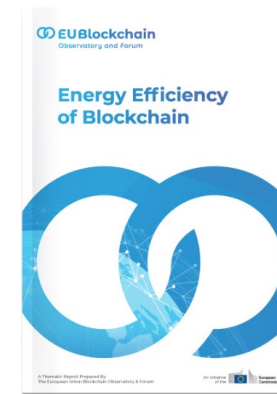
- **Self Sovereign Identity & Credentials** (University Diplomas)
- European Social Security Pass
- Customs Authorities' cooperation on VAT



EU BLOCKCHAIN OBSERVATORY & FORUM

10 thematic reports published

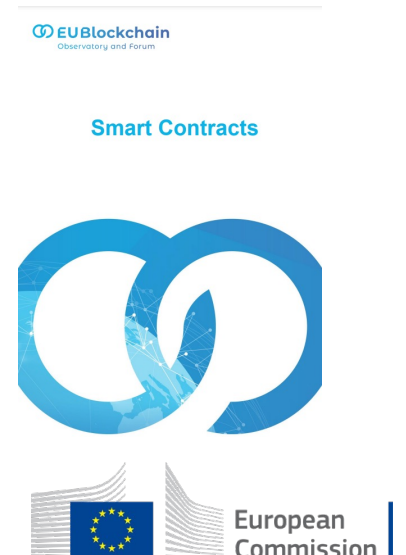
- Blockchain ecosystem
- Central bank digital currencies
- Blockchain energy efficiency
- Demystifying NFTs
- Blockchain applications in the healthcare sector
- DeFi
- Blockchain Applications in the Energy Sector
- Blockchain ecosystem update
- Metaverse
- Sustainable supply chains



Recent publication about Smart Contracts

- Available online:

https://www.eublockchainforum.eu/sites/default/files/reports/SmartContractsReport_Final.pdf



Supporting Global Cooperation: INATBA



- Founded in April 2019 as a multi stakeholder in Brussels, Belgium. 160 companies (users & suppliers of DLT).
- Governmental Advisory Board: more than 50 members and growing (including UNFCCC, UN WFP, UNICEF, World Bank and WTO)
- Supports development of specifications and facilitates regulatory dialogues of governments with blockchain companies to remove hurdles for scaling blockchain innovation

Legislative activities

Adopted legislation

- General Data Protection Regulation (GDPR)
 - Right to be forgotten / Trace-back rule

Legislative proposals

- Data Act Regulation - incl. Smart Contracts
- EUDI/eIDAS2 Regulation - incl. E-Ledgers
- Markets In Crypto Asset Regulation (MiCA)
- Crypto Resilience Act

Regulatory initiative

- European Regulatory Sandbox

Smart Contracts for data sharing

Essential requirements regarding Smart-Contracts for data sharing:

- Robustness
- Allow Termination / Interruption
- Data Archiving and Continuity
- Include Governance/ Access control mechanisms

Conformity:

Mainly via Self- Assessment

Source: p.57

<https://ec.europa.eu/newsroom/dae/redirection/document/83521>

Questions/Preliminary Scope:

- What is a Trustworthy and Interoperable Smart Contract? Technical Specification in line with the Essential requirements of the Data Act.
- GDPR alignment : Requirements and Examples [non-traceability of private data]
- Use-Cases and guidance, including on the conformity self-assessment
- Possibly essential requirements to Oracles/Oracle reputation mechanisms [tbc]

ETSI ISG “Permissioned Distributed Ledger” (ISG PDL)

PDL 11: Specification of Requirements for Smart Contracts' architecture and security, scope:

- architectural and functional specifications
- requirements on the use
- potential threats and their mitigation
- auditability and governance

[GS PDL 011](#), v2.1.1 (2022-09):

https://www.etsi.org/deliver/etsi_gs/PDL/001_099/011/02.01.01_60/gs_PDL011v020101p.pdf

This specification is expected to be further developed by Mode5 collaboration of CEN/CENELEC JTC19 and ETSI ESI

The Regulation on electronic identification and trust services (eIDAS2) Legislative proposal

Qualified electronic ledgers:

- Created by one or more qualified trust service provider or providers;
- Uniqueness, authenticity and correct sequencing of data entries recorded in the ledger;
- Correct sequential chronological ordering of data in the ledger and the accuracy of the date and time of the data entry;
- Subsequent change to the data is immediately detectable.

Thank you