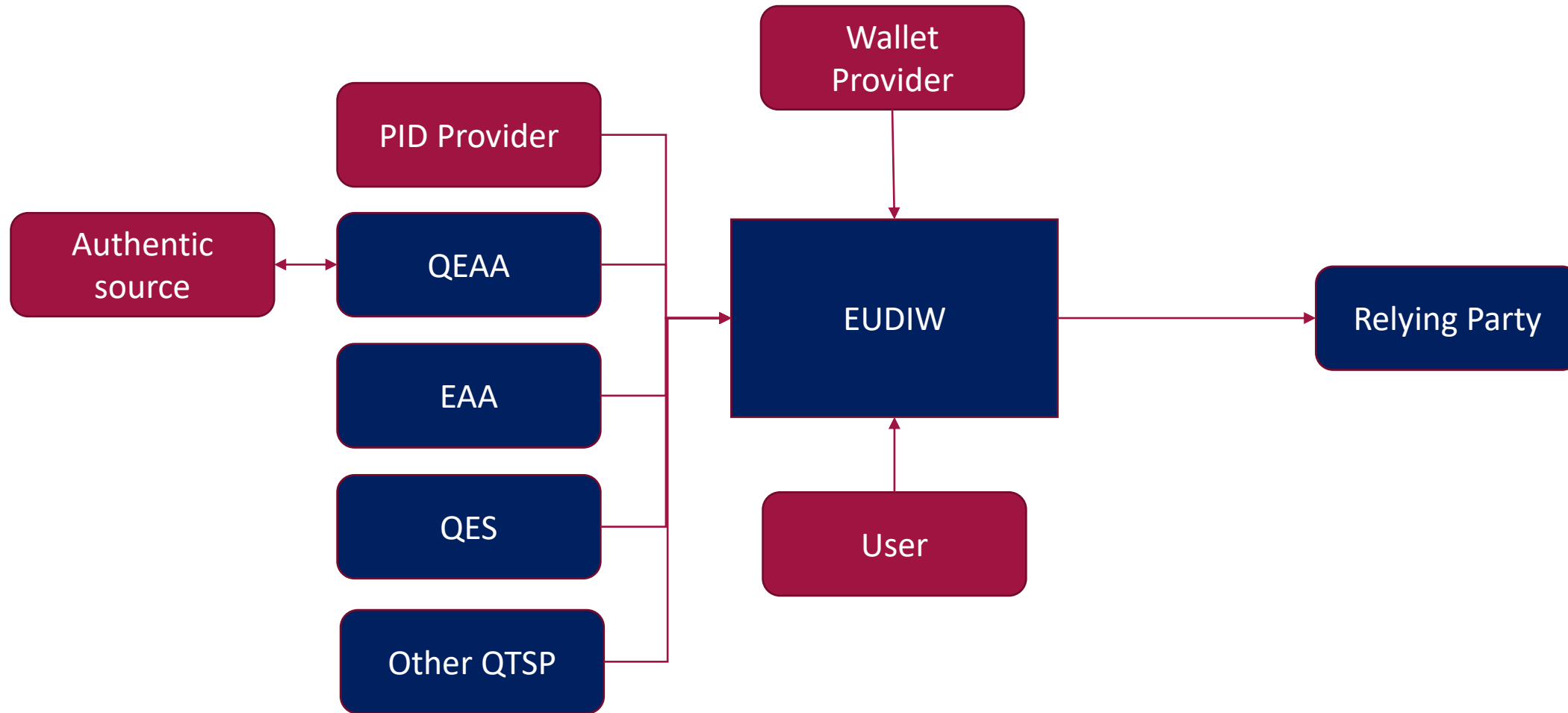


Trusted transaction in Electronic Ledger? Overview on international standardization in DLT

Steffen Schwalm, Principal Business Consultant, msg group

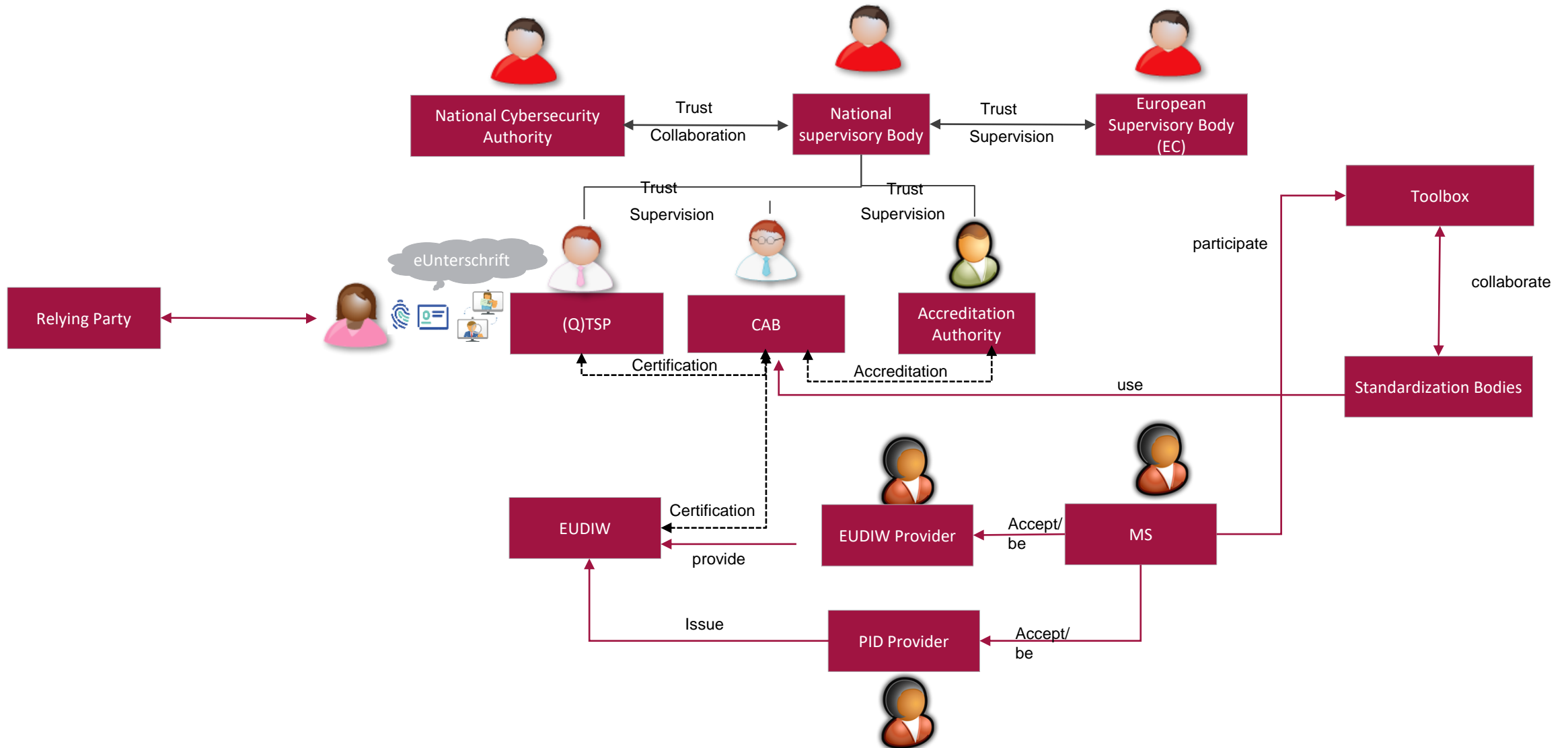
1. DLT within eIDAS 2.0
 2. Overview on projects and standardization
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DLT within eIDAS 2.0 universe – it may be used by nearly all components but with QTSP for Electronic Ledger also dedicated trust service planned – means interoperability is everything.



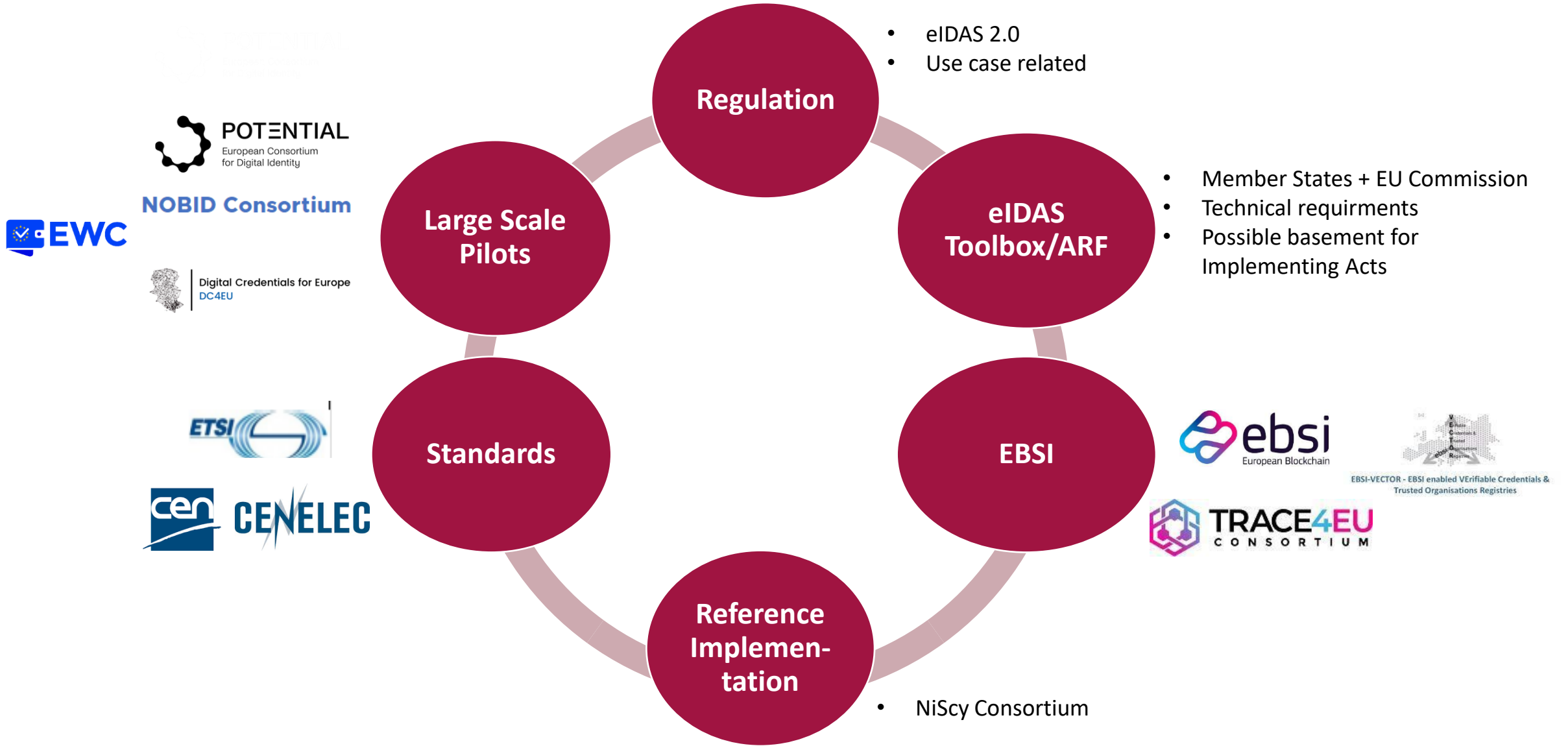
QTSP for Electronic Ledger focus on those use cases which are not covered by the other components e.g. EUDIW, other QTSP, Authentic Sources etc. (e.g. Tokenization, Product Pass etc.)

Decentralization regulated – QTSP for ledger will be integrated in eIDAS Trust Model

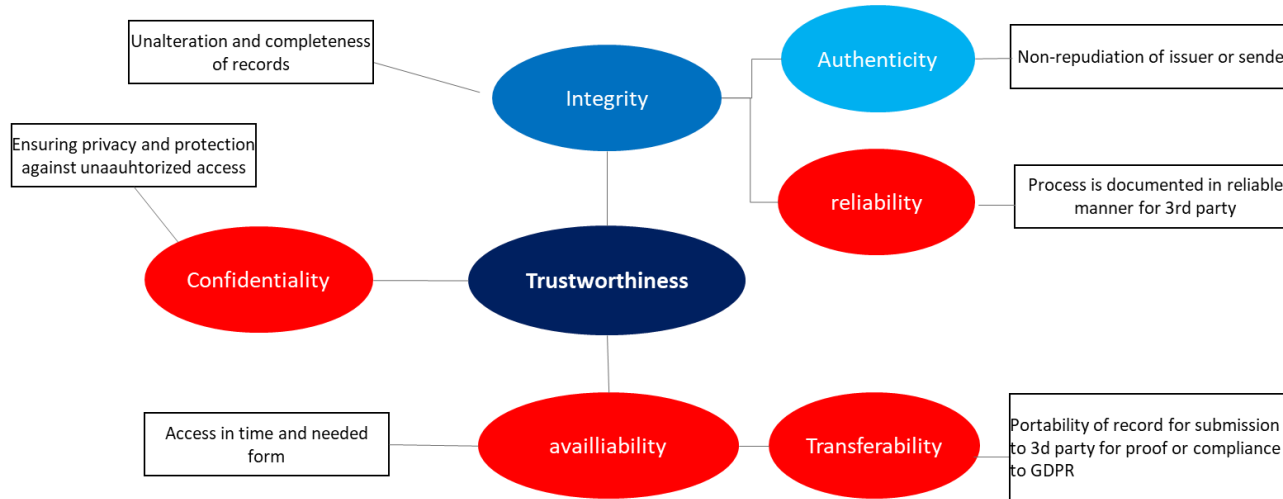


1. DLT within eIDAS 2.0
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Concrete developments are ongoing in interaction of Regulation, Large Scale Pilots, Toolbox, Reference Implementation and Standardization.



eIDAS 2.0 can ensure actual decentralization through legal and technical regulation of DLT (esp. EBSI) – but mandatory implementing acts needed.

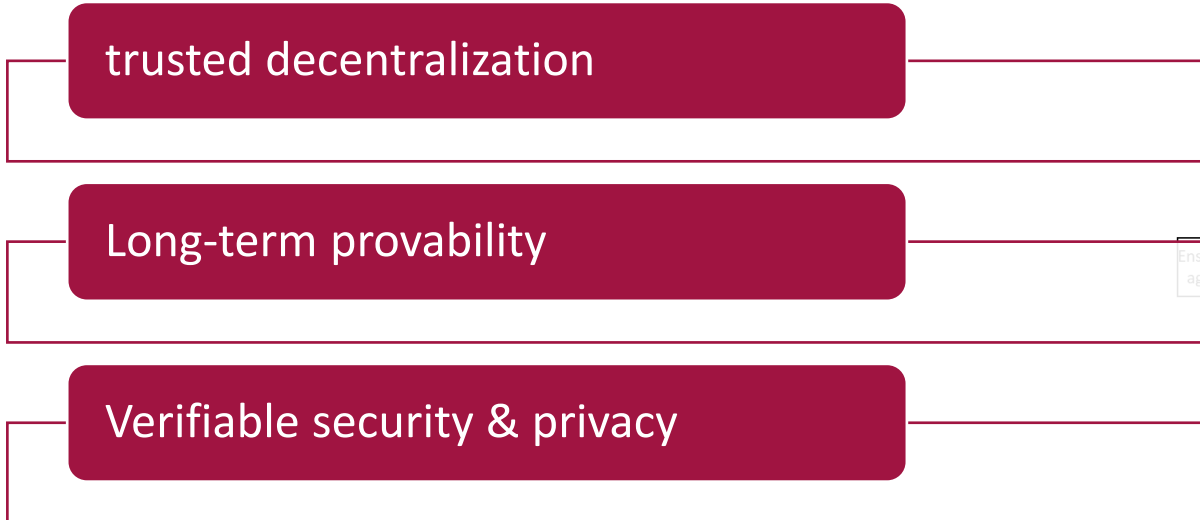
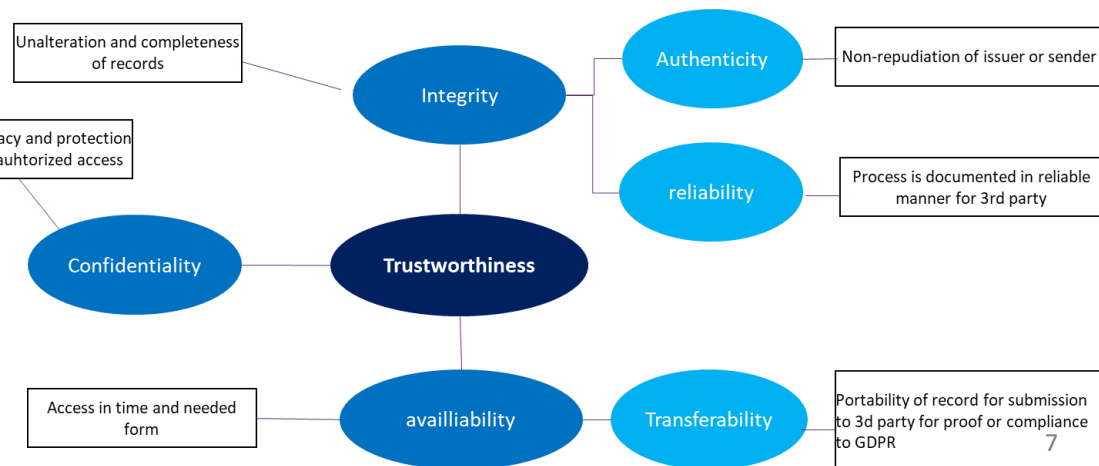


Regulation

- QTSP on Electronic Ledger ensures legal trust on DLT through Conformity Assessment & provable security
- Mandatory implementing act needed for interoperability

Standardization

- Trusted Issuer Registry, Revocation, crypto stability, protocols, privacy
- Requirements on certification of QTSP for Electronic Ledger
- Combination with other QTSP (e.g. QES)



Overview on relevant international standards

ISO published

- ISO 22739 Terminology
- ISO TR 22349 Overview of existing DLT systems for identity management
- ISO 23257 Reference architecture
- ISO TS 23635 Guidelines for governance
- ISO TR 23644 Overview of trust anchors for DLT-based identity management

ISO under construction

- ISO CIB TR 24332 Blockchain and DLT in relation to authoritative records, records systems, and records management
- ISO AWI TS 23353 Auditing guidelines
- ISO WD TS 23516 Interoperability Framework

Europe (CEN/ETS)

- CEN JTC 19 (Decentralized Identity Management)
- ETSI GA PDL 012 Reference Architecture
- ETSI GR PDL 019 Decentralized Identity and Trust Management
- ETSI GR PDL 014 Study on Non-Repudiation Techniques



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