Welcome to the presentation to Cyprus Blockchain Week & Cyprus Organization for Standardization (CYS)

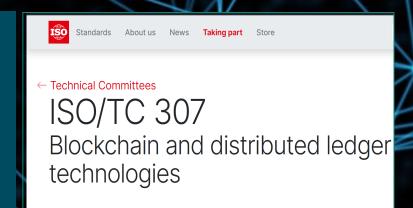


Blockchain and distributed ledger technologies

Use Cases



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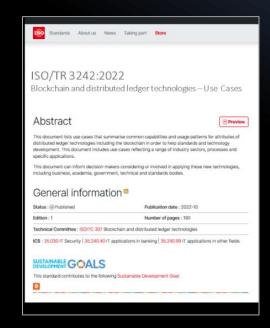


# DLT/Blockchain ISO/TC 307 Use Cases



#### Key themes:

- 1. Purpose: ISO/TC 307 use cases
- 2. Sectors: Examples of use cases across 4 sectors
- 3. Insights: Decentralized systems management
- 4. ISO and SDGs: Use case impacts
- 5. Evolution: DLT/Blockchain evolution





ISO/TR3242 Report - Blockchain and DLT Technologies - Use Cases https://www.iso.org/standard/79543.html

ISO/TC307 Committee - Blockchain and DLT Technologies https://www.iso.org/committee/6266604.html

### Purpose: Use Cases in DLT/Blockchain



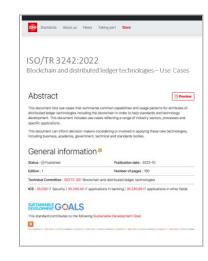
The role of Use Cases in ISO/TC 307 and the TR3242 Use Cases technical report:

Aim: to summarise common capabilities and usage patterns for attributes of DLTs including the blockchain in order to help standards and technology development

It informs decision-makers in DLT/blockchain including: business & SMEs, academia, government, IT experts, innovators, investors, technology developers, technical and standards bodies.

It provides insights that apply to the role of DLT in:
interoperability, risk, governance, compliance, cross-border regulations,
identity, security, privacy and scalability.

ISO/TR 3242 is one of 11 published ISO reports from ISO/TC 307



#### 22 Use Cases

#### 4 Sectors:

- Fintech,
- Supply Chains
- Smart Energy,
- Data Provenance

### Sectors: ISO/TR 3242 DLT/Blockchain Use Cases



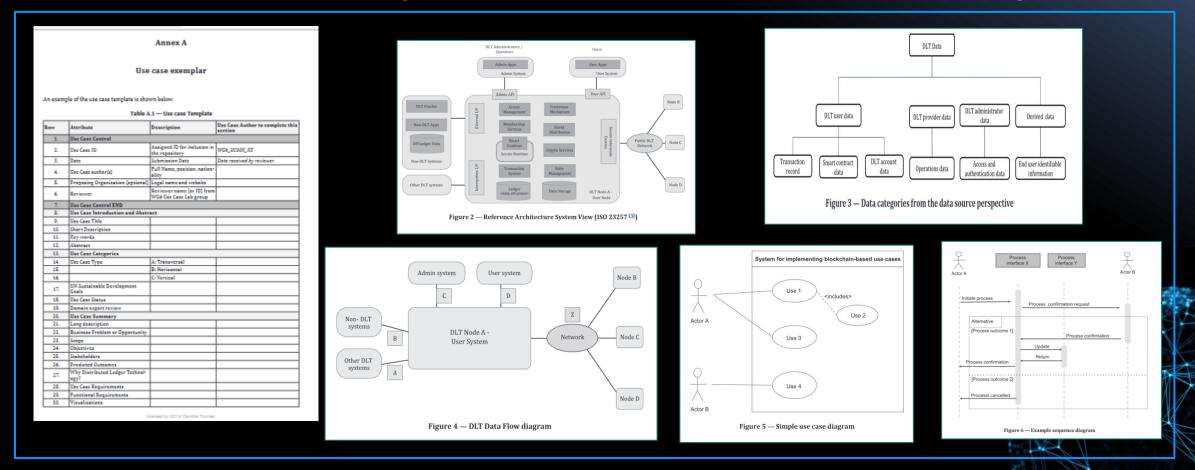
#### 22 Use Cases across 4 Sectors

Data Provenance	Fintech	Supply Chains	Smart Energy
Data Accountability (EU Research)  Student Records Mgt (India)  Education certifaction provenance (Singapore)  Property Management (India)  Content timestamp verification (Neth)  Self-sovereign ID (Cyprus)	Interbank loan reconciliation & settlement (China)  Acc receivable financing system (China)  Pension process optimisation (China)  Transparent securitisation (Italy)  Organized CHIT funds (India)  Decentralised Charity Platform (Republic of Korea)	International trade transparency (Singapore) Maritime Bill of Lading (Israel) Franchised drugs and pharmaceutical equipment supply-chain mgt (China) Anti-counterfeit solution for pharma industry (India) Universal Farm Compliance (Ireland) IGP provenance traceability (Italy) Intl waste transportation mgt system (Neth)	Energy Trading with Transactive Energy Grids (India)  Cooperative energy trading (Ireland)  Renewable energy consumer grids (Spain)
ISO/TR3242 Blockchain and DLT Technologie	a Haa Caasa https://www.isa.org/standard/	705.42 html	

ISO/TR3242 Blockchain and DLT Technologies – Use Cases https://www.iso.org/standard/79543.htm

### Deep dive: view of DLT/blockchain users and systems

#### Use Case methodology on decentralised systems management



#### SDG impacts for applying DLT/blockchain



#### ISO use cases classified by SDGs

<b>SUSTAINABILITY CITIES</b>
AFFORDABLE & CLEAN
ENERGY
CLIMATE ACTION

RESPONSIBLE CONSUMPTION AND PRODUCTION

**QUALITY EDUCATION** 

REDUCE INEQUALITY

- Renewable Energy Prosumer Grids' (Spain)
- 'Cooperative Energy Trading' (Ireland),
- 'Energy Trading' (India)
- International Waste
   Transportation
   Management System
   (Netherlands)

Food

- oIGP Traceability (Italy)
- oʻUniversal Farm Compliance' (Ireland)

Pharma

- o'Anti-Counterfeit Pharma' (India)
- o"Franchised Pharma Supply Management' (China)

Student RecordsManagement (India)

oEducation Certificate Provenance (Spain).

Financial inclusion

- 'Organised Chit Funds' (India)
- o'Transparent Securitisation' (Italy)
- Decentralized Charity
   Platform (Republic of Korea)

https://www.iso.org/sdgs.html

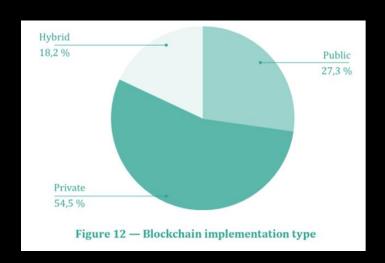
#### Evolving use of DLT/blockchains

## Use Cases - Blockchain Implementation Types

27% Public blockchains

50 % Private permissioned blockchains

18% Hybrid blockchains

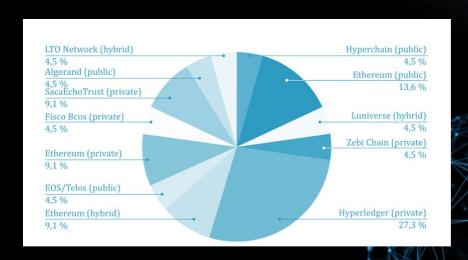


#### Use Cases - Blockchain Platforms

27% Hyperledger (private),

13% Ethereum (public) 9% (private),9% Hyprbid)

EBSI, Algorand, Hyperchain, Saca Echo Trust, Zebi, Fisco Bicos, EOS/Telos, L'Universe, LTO Network



#### Thank you



### Blockchain and distributed ledger technologies

Use Cases

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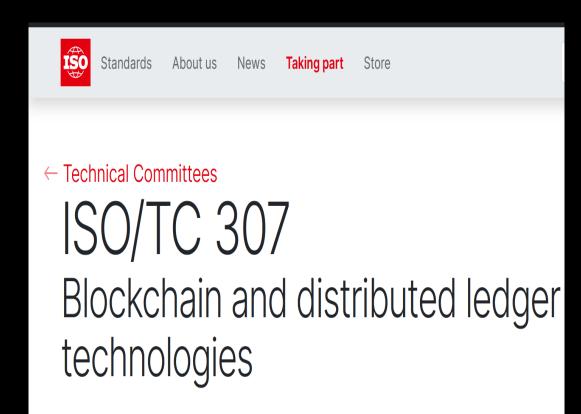
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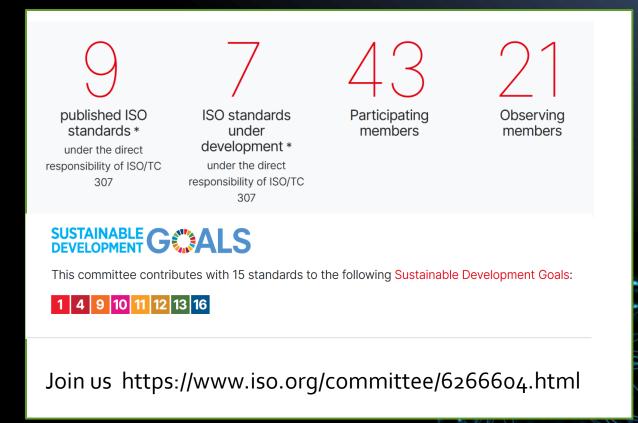


#### Introduction to standards for Blockchain and DLT



ISO/TC 307 - ISO/TR 3242 Use Cases is the 9th published work





#### Introduction to standards for Blockchain and DLT



#### ISOTC/307 - Scope

... meet the growing need for standardization by providing internationally agreed ways of working to improve security, privacy, scalability and interoperability and so

encourage the Blockchain and
Distributed Ledger Technology's
widespread adoption through greater
innovation, enhanced governance and
sustainable development.

#### Working Groups

WG 1 Foundations

WG 3 Smart contracts and their applications

WG 5 Governance

WG 6 Use cases

WG 7 Interoperability

JWG 1 Records management

JWG 4 Security, privacy and identity for Blockchain & DLT

Advisory Groups on:

Digital Currencies / / Physical assets of NFTs

Join us https://www.iso.org/committee/6266604.html