

TeleTrust-Informationstag "Blockchain"

Frankfurt a.M., 13.07.2017

Entwicklung der Standardisierung von Blockchain & DLT u. Bezug zu Inter- operabilität

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DIN, who and what we are

- DIN is a registered non-profit association supported by the private sector.
- On the basis of a contractual agreement with the Federal Republic of Germany, DIN is the responsible German standards body in European and international standards work.



Development of standards



Standards
proposal



Draft standard



Comments



A large green rectangular box containing a DIN logo in the top right corner and a photograph of a group of people in business attire. Below the photograph, a list of stakeholders is provided in red text.

Industry | Research | Consumers | Trade associations
Professional organizations | Public authorities
The trades | Commerce

A large light blue arrow pointing downwards, indicating the final step in the process.

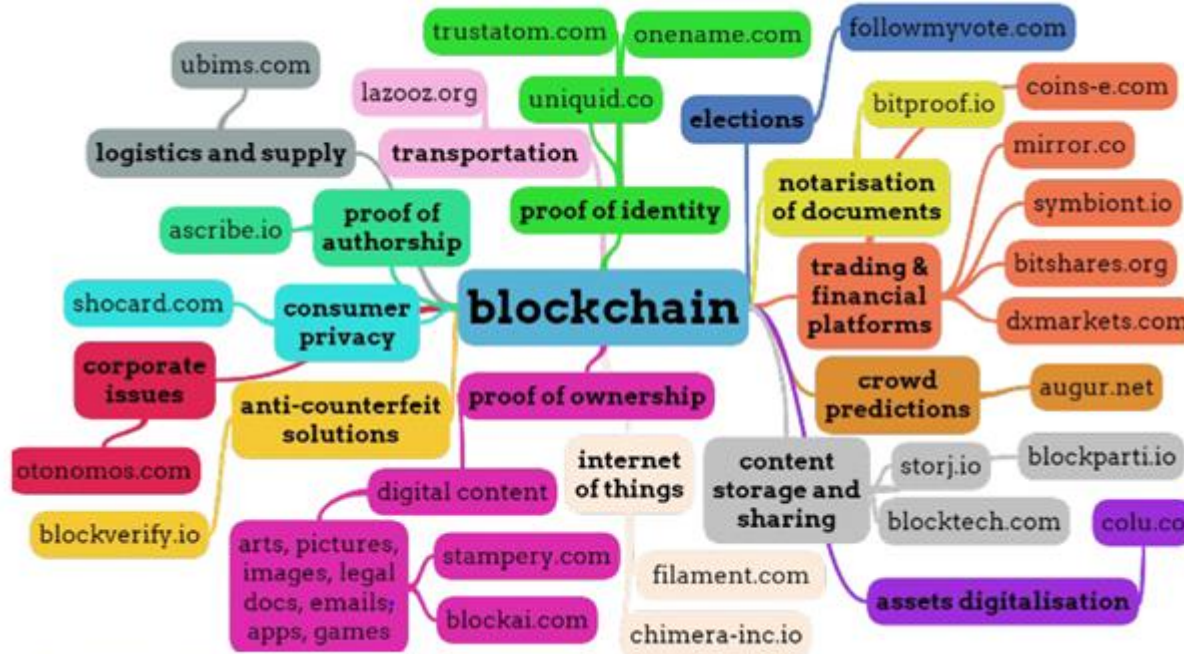
Standards

100
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Upside down

The paradigm at the edge
The edge of a paradigm shift

A systems perspective



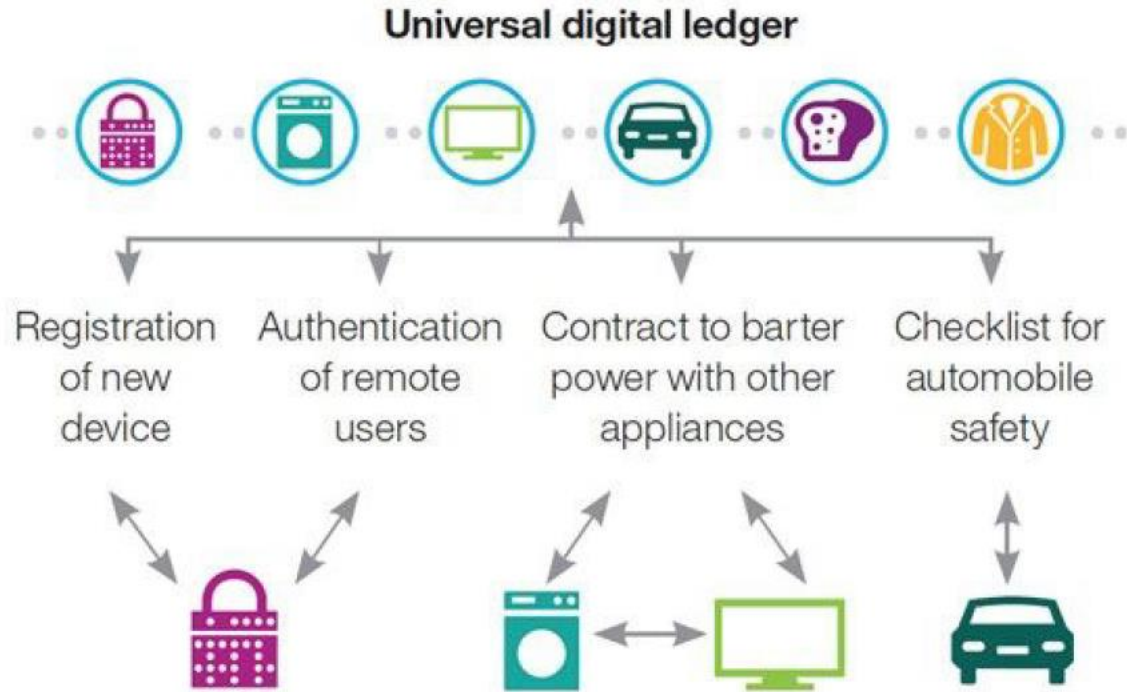
<http://fintechinfo.com/blockchain-mind-map/>

Blockchain in the Internet of Things



<https://www.linkedin.com/pulse/blockchain-things-iot-roberto-capodieci>

Web 3.0 foundation of IoT?



<http://www.rs-online.com/designspark/electronics/blog/when-the-blockchain-technology-meets-the-internet-of-things>

Today: Defending of historical homelands

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**Tomorrow:
Cooperation and
collaboration in
joint working groups**

INTERNATIONAL



- ISO:** International Organization for Standardization
- IEC:** International Electrotechnical Commission
- ITU:** International Telecommunication Union
- CEN:** European Committee for Standardization
- CENELEC:** European Committee for Electrotechnical Standardization
- ETSI:** European Telecommunications Standards Institute
- DIN:** German Institute for Standardization
- DKE:** German Commission for Electrical, Electronic & Information Technologies of DIN and VDE

DIN and DKE represent German interests in European and international standardization.

DIN

Mechanical engineering	Aerospace
Building/civil engineering	Medical technology
Services	Precision engineering
Information technology	63 further fields of activity

DKE
VDE DIN

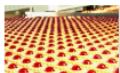
Electrotechnology
Telecommunications
...

Today: Silos of standards



ISO 8601 Date and time format

Use an internationally accepted way to represent dates and times.



ISO 22000 Food safety management

Inspire confidence in your food products with this family of standards.



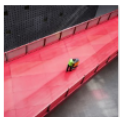
ISO 639

Describe language



ISO 4217

Avoid confusion



ISO 26000

Help your organization



ISO 31000

Manage risk



ISO 50001 Energy management

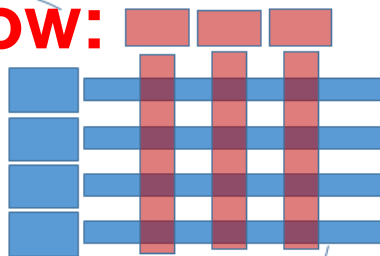
Make energy savings and help make your organization more efficient with this standard.



ISO 3166 Country codes

Avoid confusion when referring to countries and their subdivisions with this standard.

Tomorrow:



total impacts of

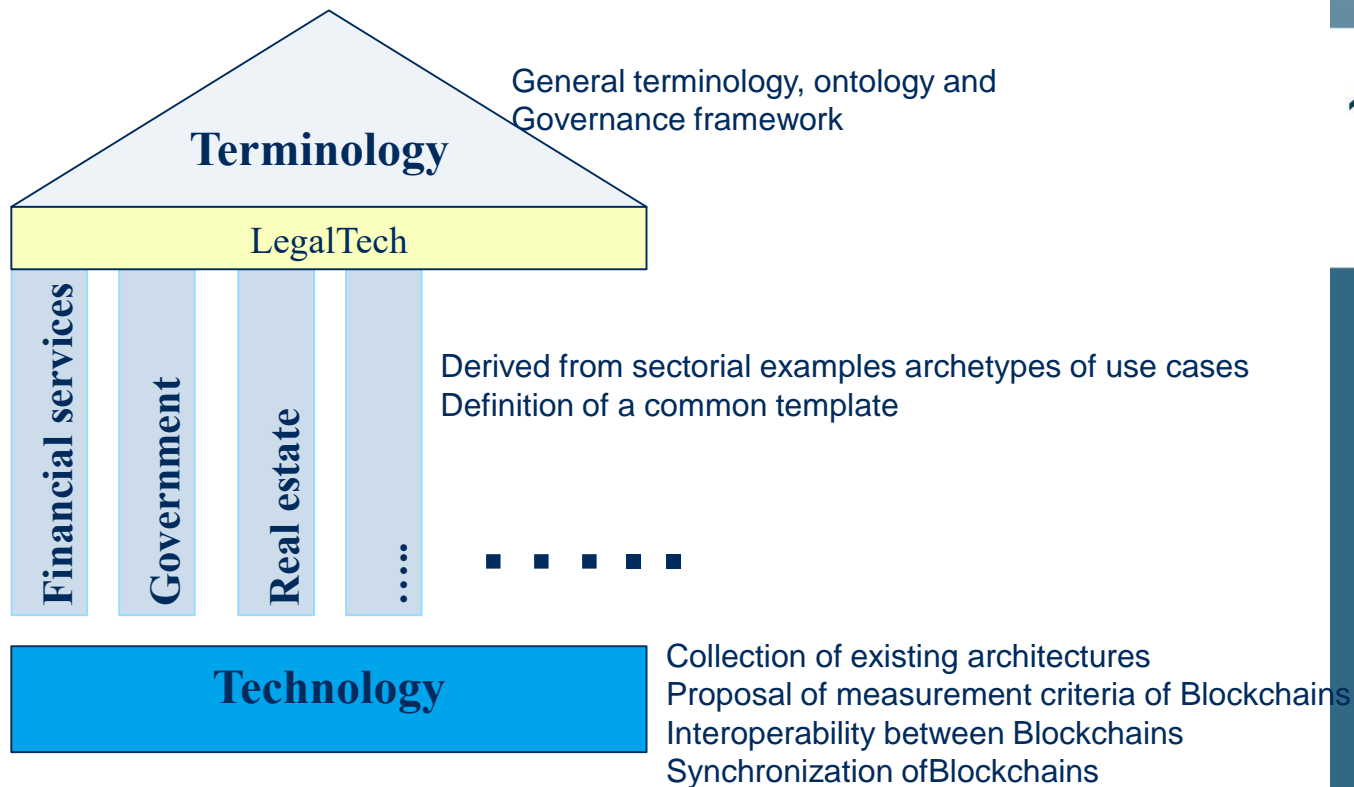
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stems

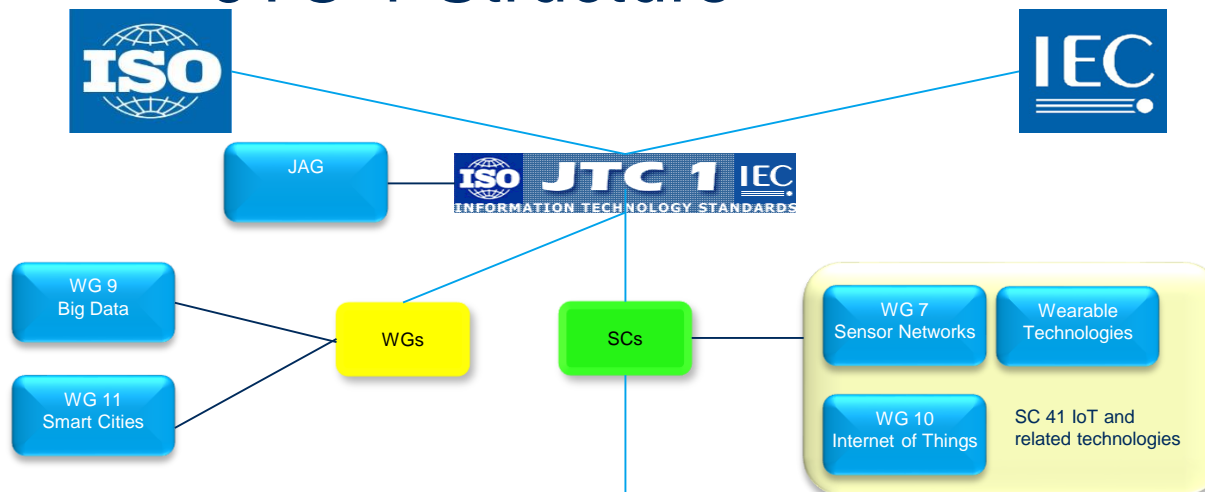
medical device.

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Potential Matrix for Blockchain & DLT



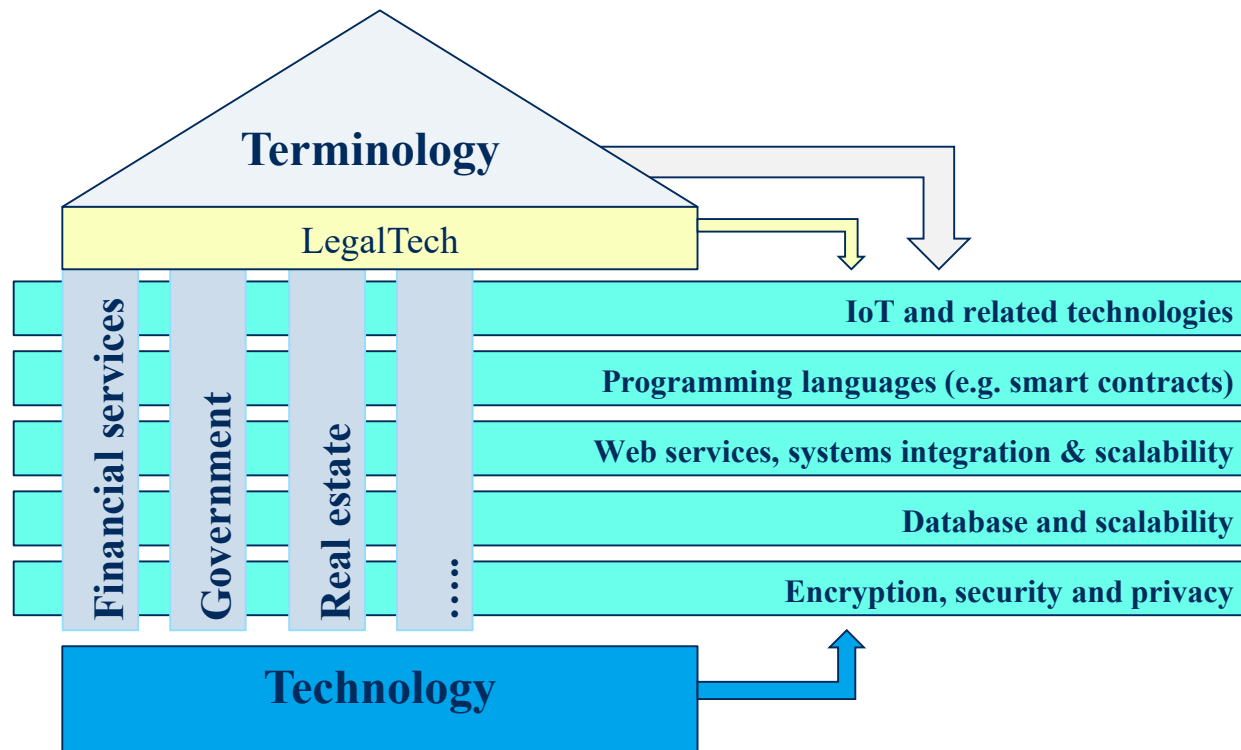
JTC 1 Structure



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SC 2 Coded character sets	SC 6 Tele-communications and information exchange between systems	SC 7 Software and Systems Engineering	SC 17 Cards & Personal Identification	SC 22 Programming Languages	SC 23 Digitally recorded media for information interchange and storage	SC 24 Computer graphics, image processing, and environmental data representation	SC 25 Interconnection of information technology equipment	SC 27 IT security techniques	SC 28 Office equipment
SC 29 Coding of audio, picture, multi- and hypermedia information	SC 31 Automatic identification and data captures techniques	SC 32 Data management and interchange	SC 34 Document description and processing languages	SC 35 User interfaces	SC 36 Information technology for learning, education and training	SC 37 Biometrics	SC 38 Cloud Computing and Distributed Platforms	SC 39 Sustainability for and by information technology	SC 40 IT Service Management and IT Governance

The ISO TC Blockchain Matrix



What do we need?

Technical Standards und Interoperability

- Reference Architecture
- Semantic, Ontology
- Secure Digital Identity
- IT-Security, Privacy

Willingness for change und networking beyond traditional sectorial barriers

- trust, acceptance
- New business models for collaborative work

www.din.de



Many thanks for your attention

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