

Blockchain

Selected tax and regulatory aspects



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Contents

- **What is “blockchain”?**
- Selected regulatory aspects
- Selected tax aspects
- Q&A



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What is "blockchain"?

blockchains = a subset of databases in general

F. Glaz:

A blockchain can be defined as...

- An immutable, append-only database
- Recording some information about the world
- Shared within a network of stakeholders
- Who agree that what is recorded in the database is true

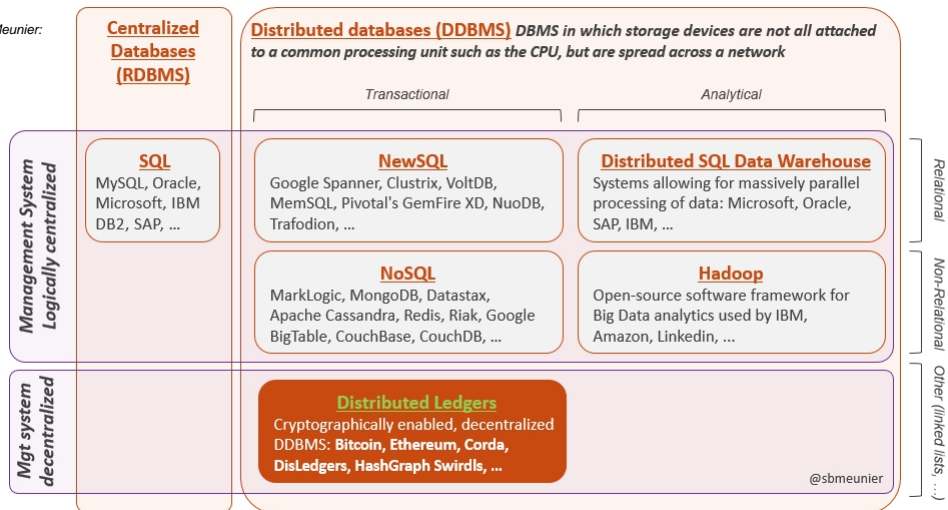


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What is "blockchain"?

blockchain = a distributed database of a special kind

S. Meunier:



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What is “blockchain”?

Further distinction: permissionless vs. permissioned blockchains

Permissionless (public r+w)

E.g. Bitcoin

- No previous relation required to participate / validate
- Open platform, anyone can “vote” on the validity
- Weight of the vote determined according to Proof-of-work / Proof-of-stake / ...

Permissioned (private w, public or private r)

E.g. R3, Bolero-KBC, HSBC ...

- Only authorised participants can validate transactions
- Specific validation rules per platform



Q: Is a permissioned blockchain without tokens really more efficient than a centralized system?



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Selected regulatory aspects

Regulatory points of attention common to all databases

- Privacy (GDPR!)
- Risk & liability management
- Integrity
- Security
- + sector-specific concerns:
 - E.g. healthcare (patient data)



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Selected regulatory aspects

Blockchains in the post-trading sector: Euroclear example



- Specific regulations applying to International Central Securities Depository (ICSD)
- Euroclear blockchain papers
- European Central Bank – Occasional Paper Series “Distributed ledger technologies in securities post-trading” (04/2016)



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Selected regulatory aspects

Permissionless blockchains: specific points of attention

- Tokens without real value or where value is secondary (“colored coins”)
 - -> open source DB licences
- Token issuer liability in general
- When does a token become a regulated financial instrument?
 - Bitcoin ≠ (e-)money ≠ MiFID financial instrument
 - **quid Initial Coin Offerings (ICOs)?**
 - Not all ICOs are equal...
 - Case-by-case



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Selected tax aspects

Enforcement perspective: blockchains with public read rights

Full transparency : are we ready ?

- <-> privacy and GDPR ?
- proportionality ?
- fungibility and efficiency ?



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Selected tax aspects

Substantive tax law

Nil novi sub sole ...

- Substantive tax law turns out to be quite resilient & future-proof
- Taxable or exempt income = determined under common, regular rules, no separate regime for blockchains
- E.g.:

IRS Virtual Currency Guidance : Virtual Currency Is Treated as Property for U.S. Federal Tax Purposes; General Rules for Property Transactions Apply



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