Blockchain
for the asset flow

**Challenges**
Collaborating AND competing organizations
Diversity of assets
Trust management
Asset ownership management

**Innovation**
A decentralized blockchain-based system: each stakeholder registers ownership exchanges into a collectively maintained distributed ledger
Language for obligations specification
Verification, execution, monitoring, violation detection

A first example: energy trading
Electric car owner sells energy to the energy distribution network and buys energy from the car-charging station by looking at the energy market value.

**Perspectives**
A formal framework for secure smart contracts in fully decentralized eco-systems
Higher-level abstractions for efficient and scalable usage of blockchain

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