Data governance beyond ownership

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IoTWeek, panel on “Blockchain for IoT”
June 20, 2019
Outline

Ownership

Data ownership?

BC & IoT enabled cheap transactions

Non-ownership governance
Step 1: Need

Data governance
Background: Ownership = bundle of rights

- Destroy
- Use
- Exchange
- Exclude others
- Enjoy
Problem: Data cannot be owned*

* Once data has been shared with anyone, trying to enforce ownership rights on data is pretty much impossible.
Solution:
New governance models*

* Define new (legal) structures that replace ownership
Summary so far

— Thinking data governance as ownership is absurd
— Exchanging data is hard, sharing data is easy
— Excluding others is hard, including is easy
— Destroying data is hard, reusing data is easy
Step 2: Solution

Ultra-cheap transactions
Ultra-cheap transactions, enabled with IoT and blockchains
Blockchains and DLTs, with smart contracts

— enable encoding of

— jointly agreed **rights** and

— jointly agreed **obligations**

→ Implementation of new governance models
IoT enables

— automated access to physical things (actuation)
  — i.e. implementation of rights

— verifiable recording of events (sensing)
  — i.e. verifying obligations

→ **Ultra-cheap enforcement** of the new models
Ownership

dismiss, at least for data!

Data ownership

BC & IoT enabled ultra-cheap transactions, for implementing the new governance models

Non-ownership governance models