

#### Blockchain asset transfer



#### Outline

- What's involved?
- Who's involved?
- How do the participants work today?
- How could it be done using blockchain? Exploring roles of:
  - Participants
  - Assets
  - Transfers
- Why blockchain technology could be useful

# Automotive industry asset transfer

In the Blockchain Asset Transfer Demo, we will be transferring cars,



but we could transfer other commodities or instruments.









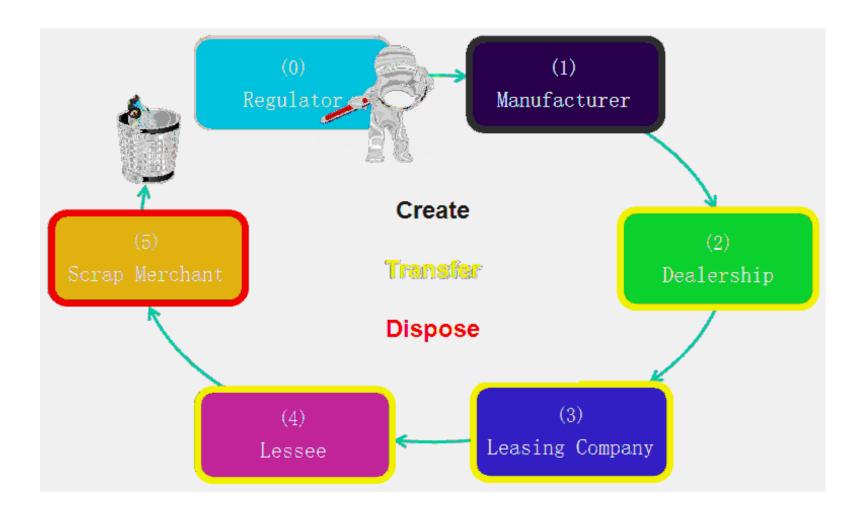




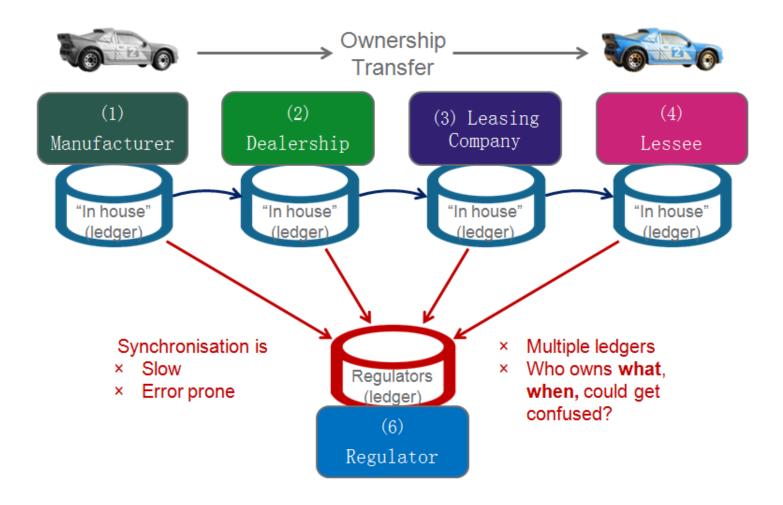




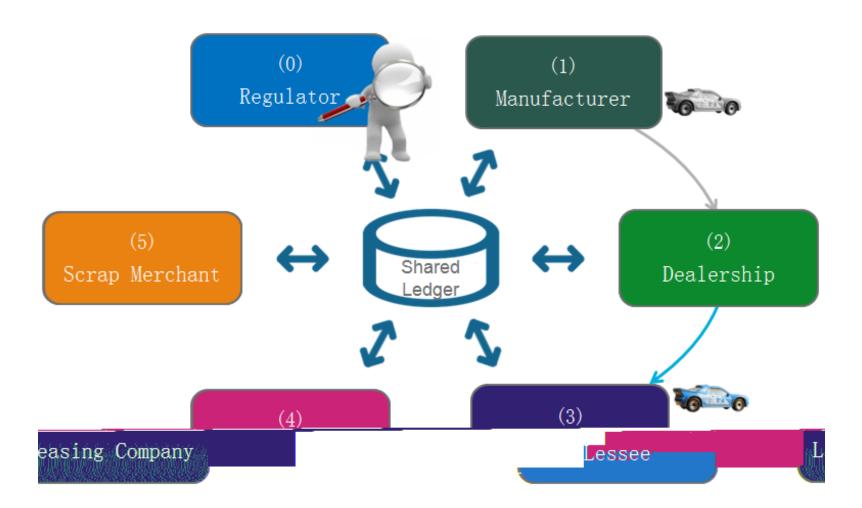
#### Who's involved in asset transfer



#### How do participants perform the same tasks now?

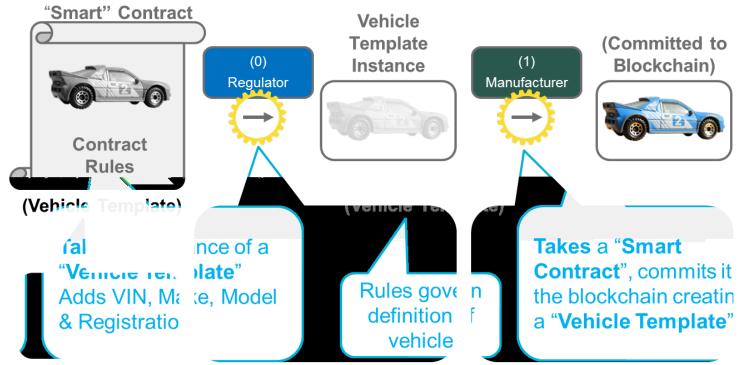


# How can the tasks be done using blockchain?

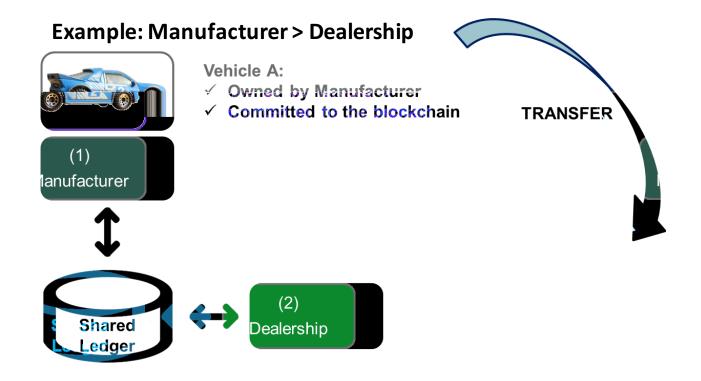


# Representing a car using blockchain technology

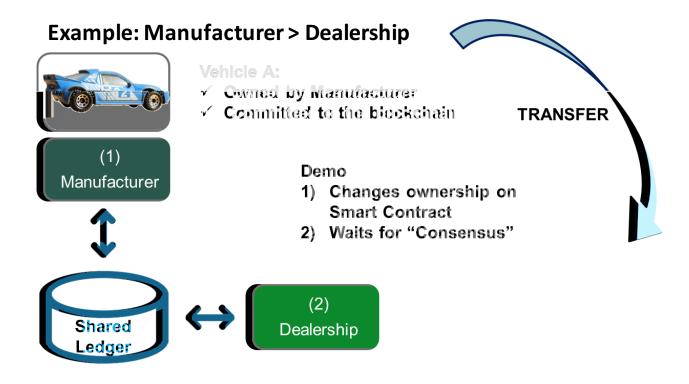
- Blockchain smart contract feature is used to define the Vehicle Template.
- The Regulator creates an instance of a Vehicle Template and commits it to the blockchain.



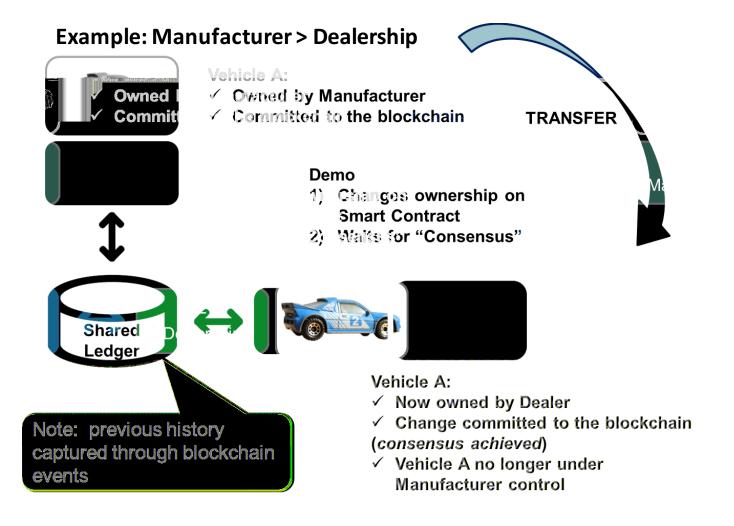
# Modeling a transfer using blockchain technology



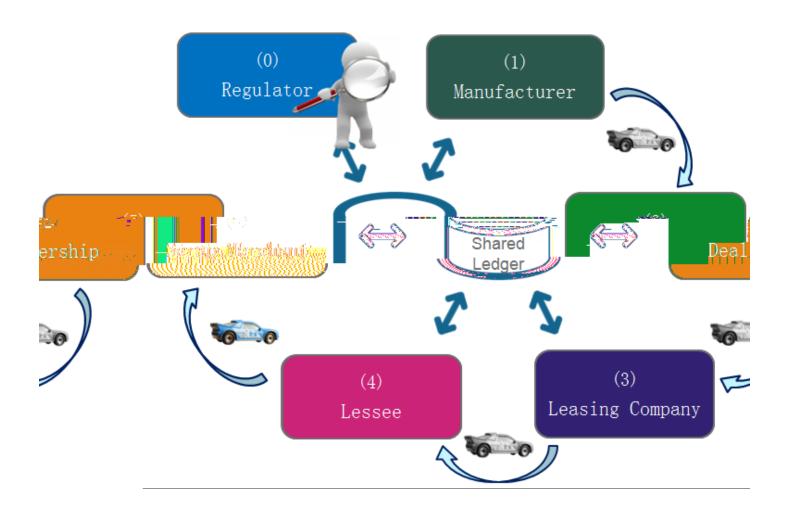
# Modeling a transfer using blockchain technology



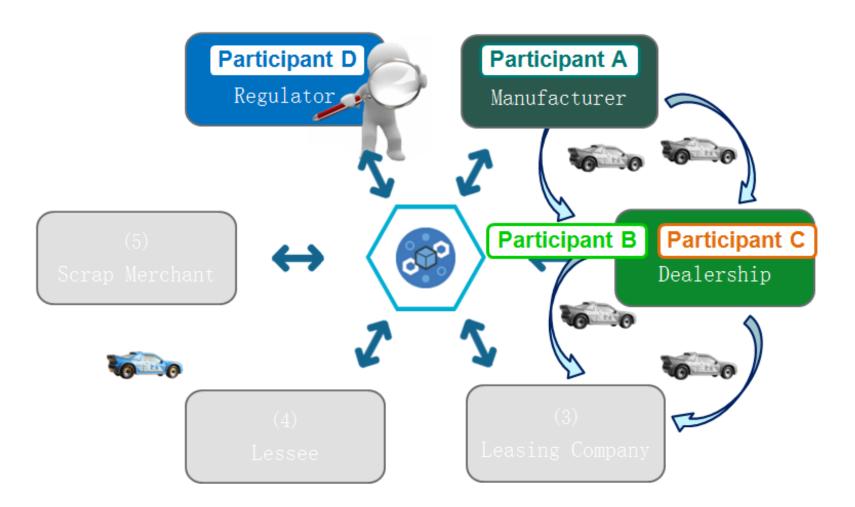
# Modeling a transfer using blockchain technology



# Similar transactions between participants

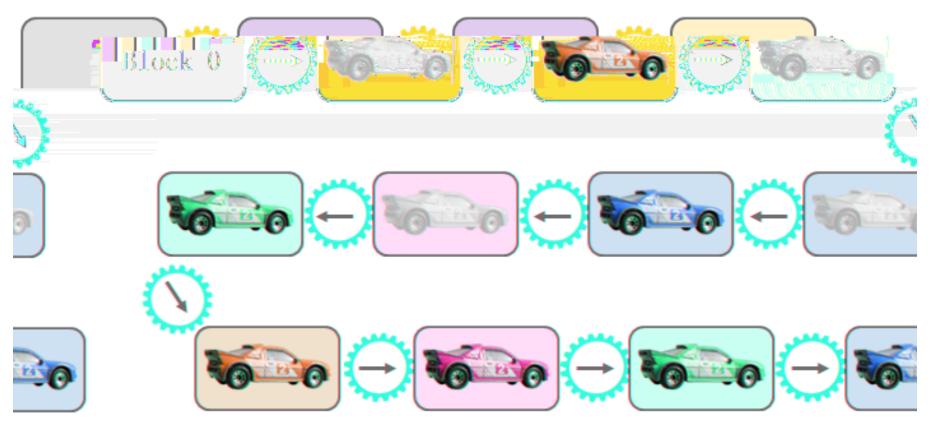


# Transfers between participants on Bluemix



# Why blockchain technology can be useful

A complete copy of the blockchain contains a record of every committed transaction in chronological order.



# Why blockchain technology can be useful

#### Blockchain technology:

- Can help prevent fraudulent activity
- Can help provide provenance of an asset
- Offers a "smart contract" feature that can be used to model assets of any description
- Can provide a "shared ledger"