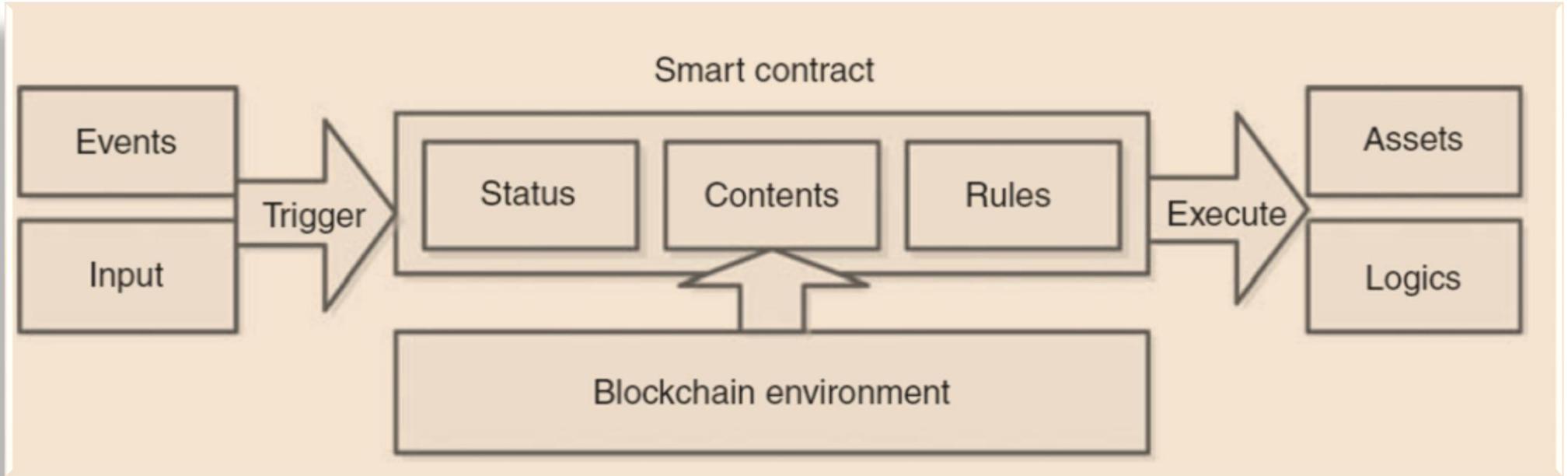


VI- Smart contracts and Distributed Ledger Technology

How smart contract works



Smart contracts would need input on real world events from verifiers

Ehtereum was developed to handle more complicated smart contracts

Private Distributed Ledger Technology (pDLTs): an introduction

pDLT is a **decentralized database** managed by multiple participants, across multiple nodes.
Example: **CORDA from R3**

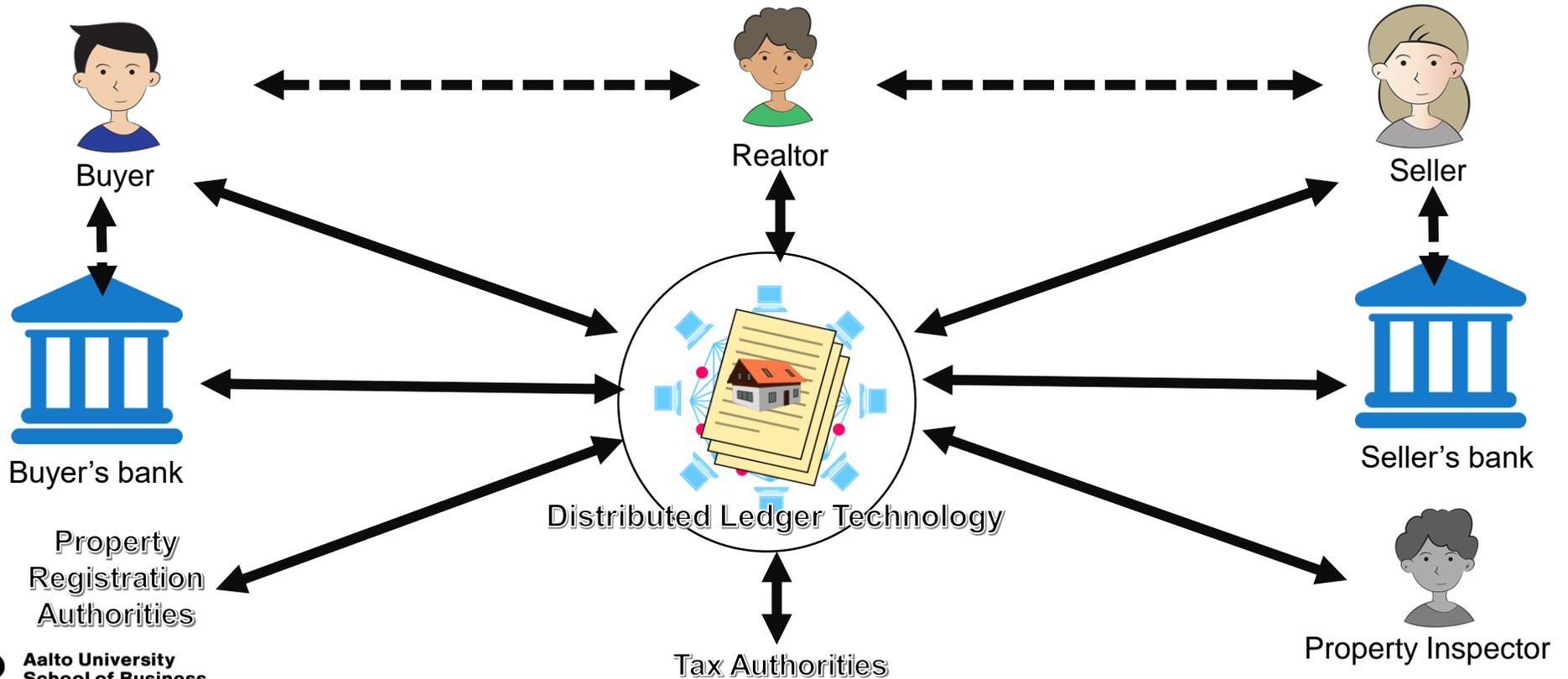
Unlike public blockchains, the transactions are considered private amongst the involved parties and are only cryptographically linked to the previous transactions that the current transaction depends upon. Consequently, transaction histories are only available to parties that participated in the transaction.

Private DLTs do not confirm transactions in batches, they confirm transactions in real-time.

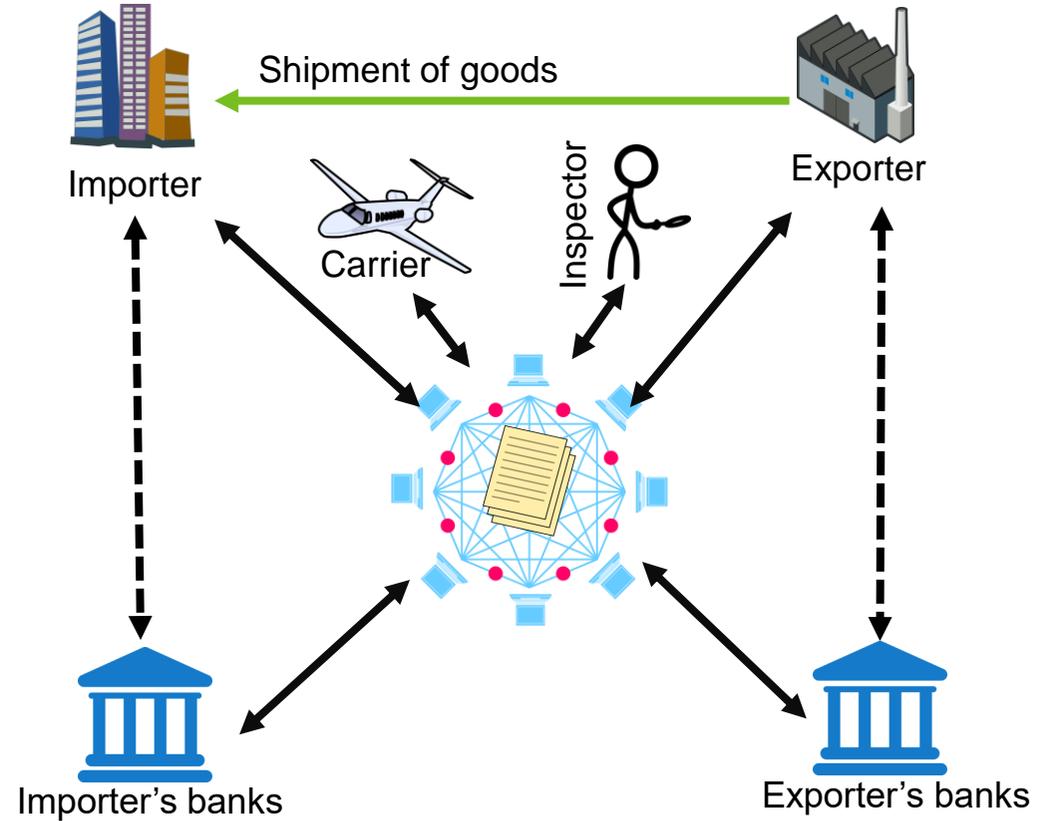
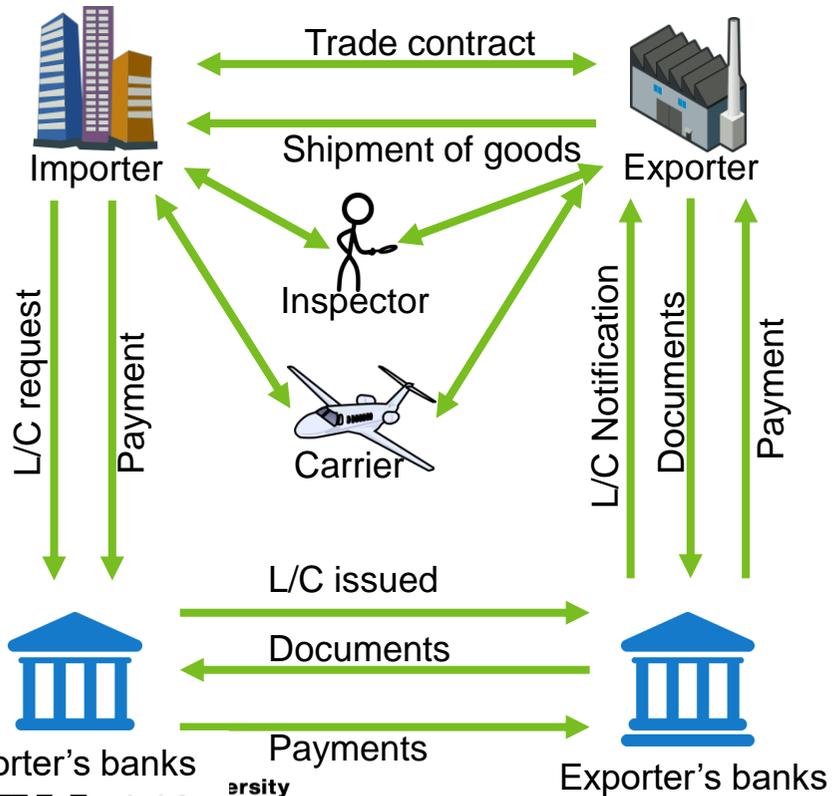
Uses version of smart contracts under which the concerned parties mutually agree — eliminating the need for third parties.

In fact, pDLTs could also link digital version of existing legal contracts with digital signatures. In this manner, pDLTs promote themselves to be friendly towards existing regulations and laws.

Example of a smart contract: housing sales



Example of a smart contract: trade finance



Understanding Blockchain business models

