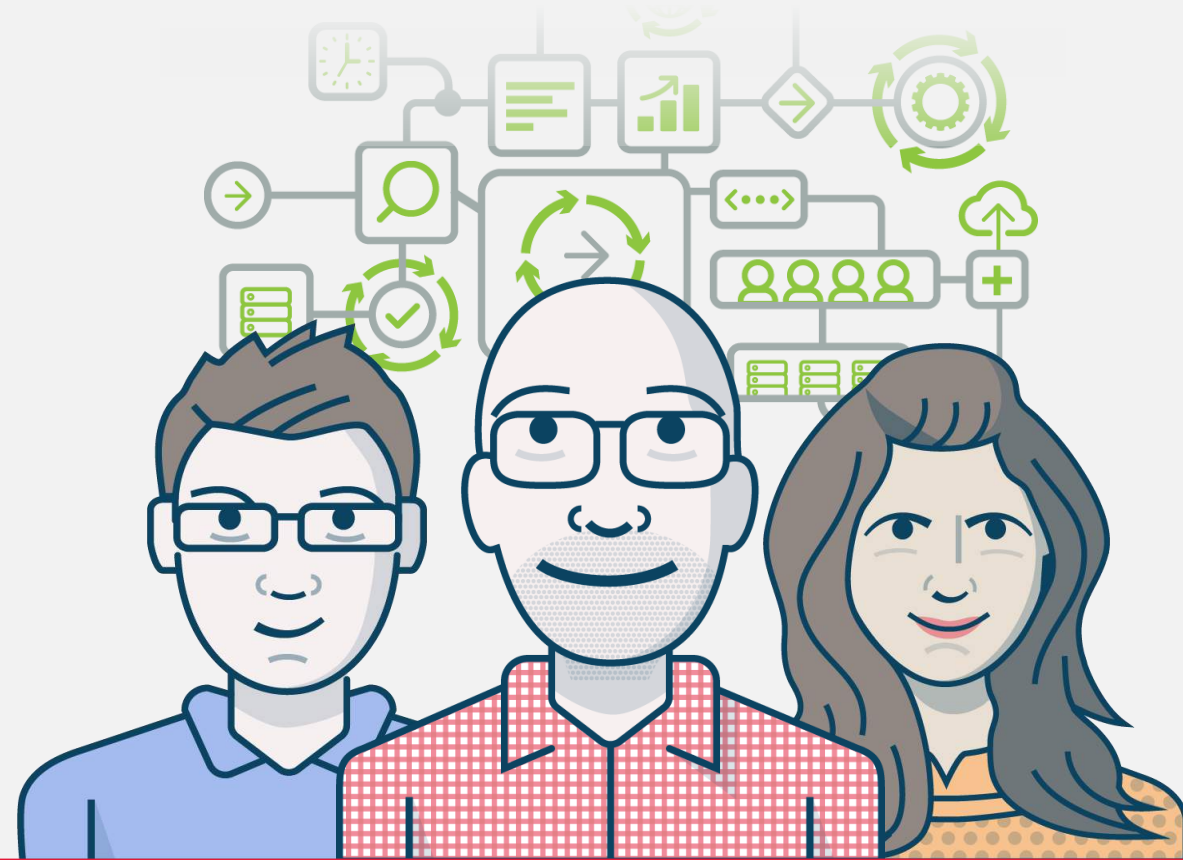
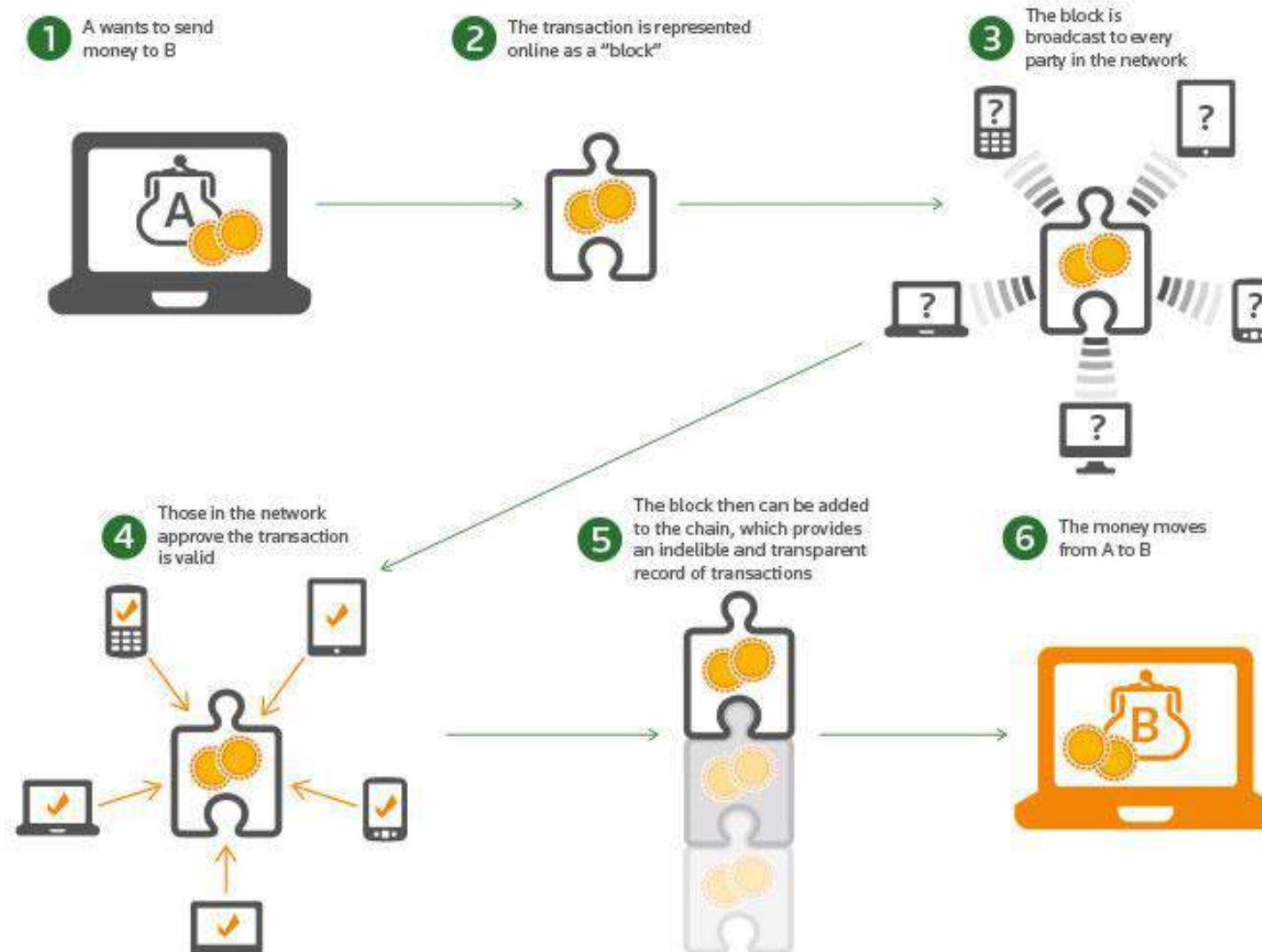


When BPM meets Blockchain

Lionel Palacin - Technical Evangelist
Miguel Valdés Faura – CEO & co-founder

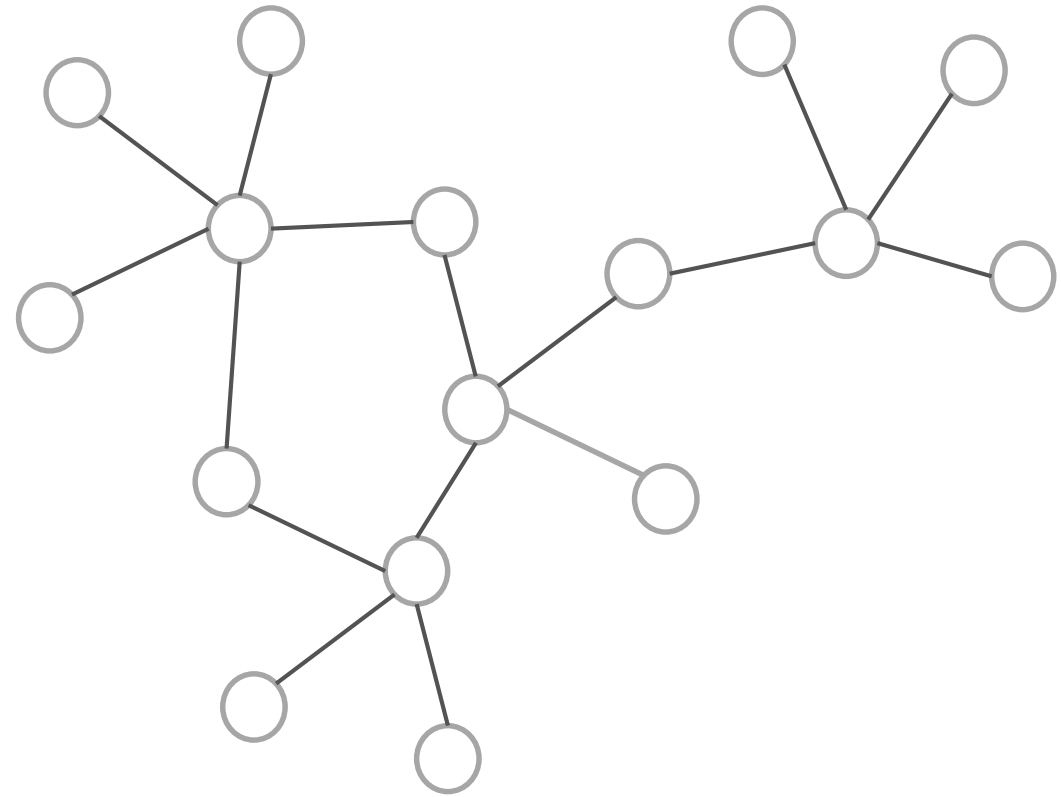


Blockchain – in a nutshell



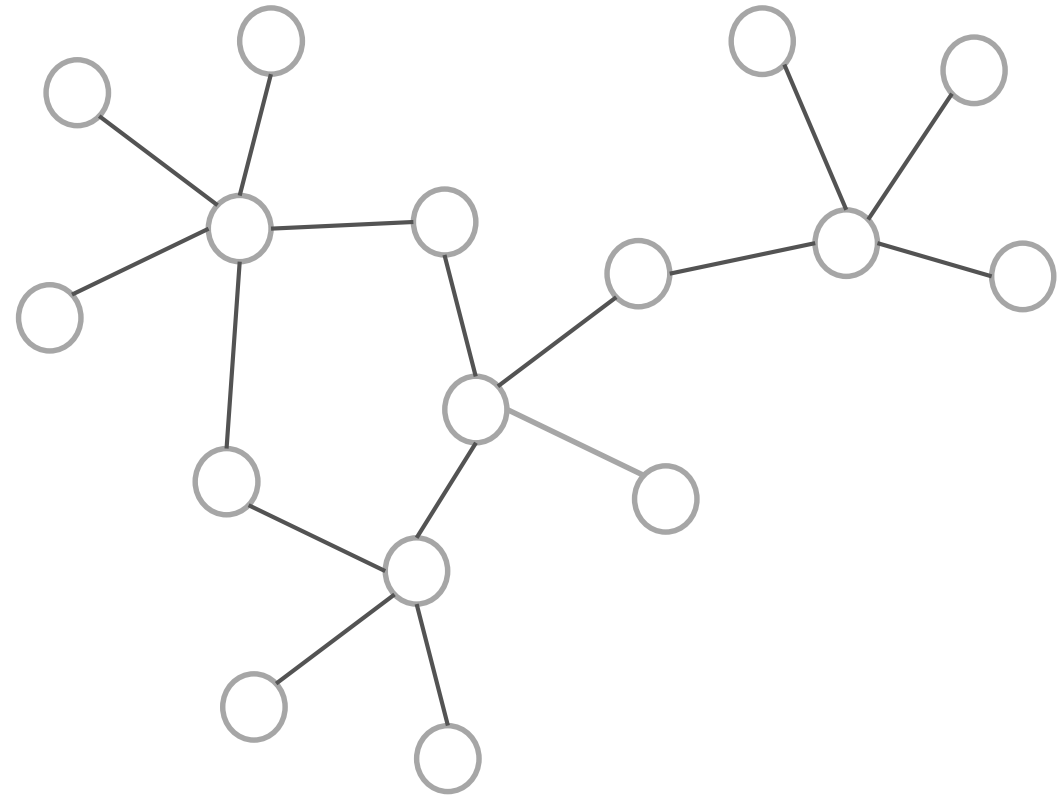
Benefits

- Virtual continuity
- Transparency
- Resilience
- Immutability
- Independency
- Self trusted



Challenges

- Young technology
- Regulation
- Energy consumption
- Privacy
- Integration
- Adoption

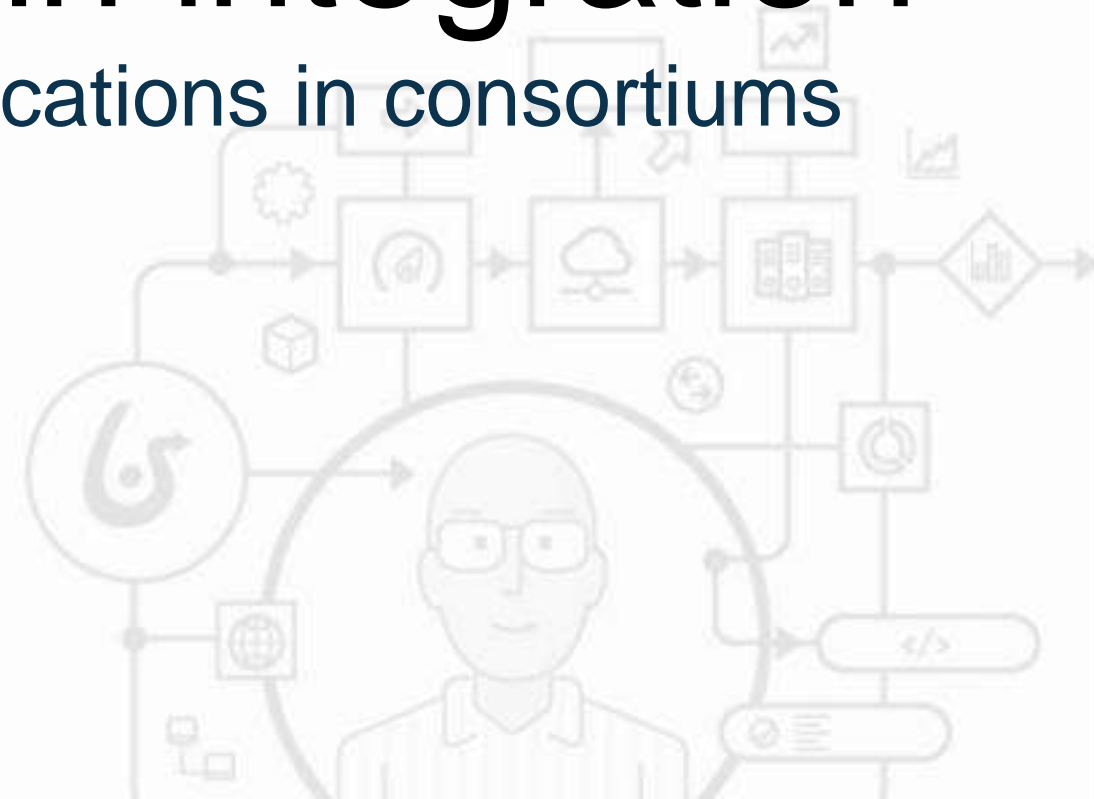


Private blockchains

- Transaction speed is considerably improved
- Data is not publicly available to anyone with a net connection.
- Public auditability can be implemented (consortium blockchains and regulations)

BPM and blockchain integration

Unified platform to build critical applications in consortiums of multiple organizations



Main benefits

1. Allow multiple partners to trust a common process
2. Improve customer engagement
3. Provide end-to-end traceability and real time audit trail



Allow multiple partners to trust a common process

Use business processes to encapsulate the logic to allow multiple independent participants to exchange assets.

This is a complementary approach to “immutable” Smart Contracts in blockchain.



Improved customer engagement

Seamless coordination between systems, processes and dedicated user interfaces and applications allows blockchain partners to better engage and serve customers

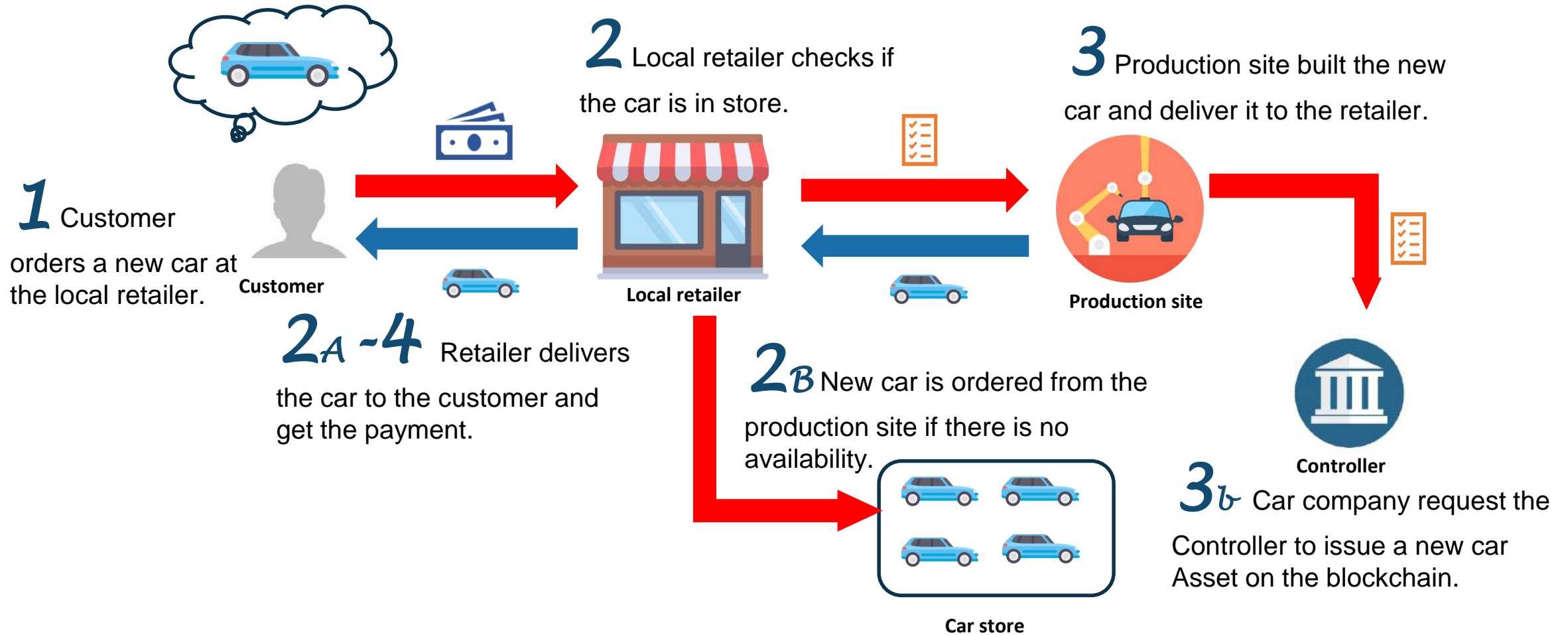


End-to-end traceability and real time audit trail

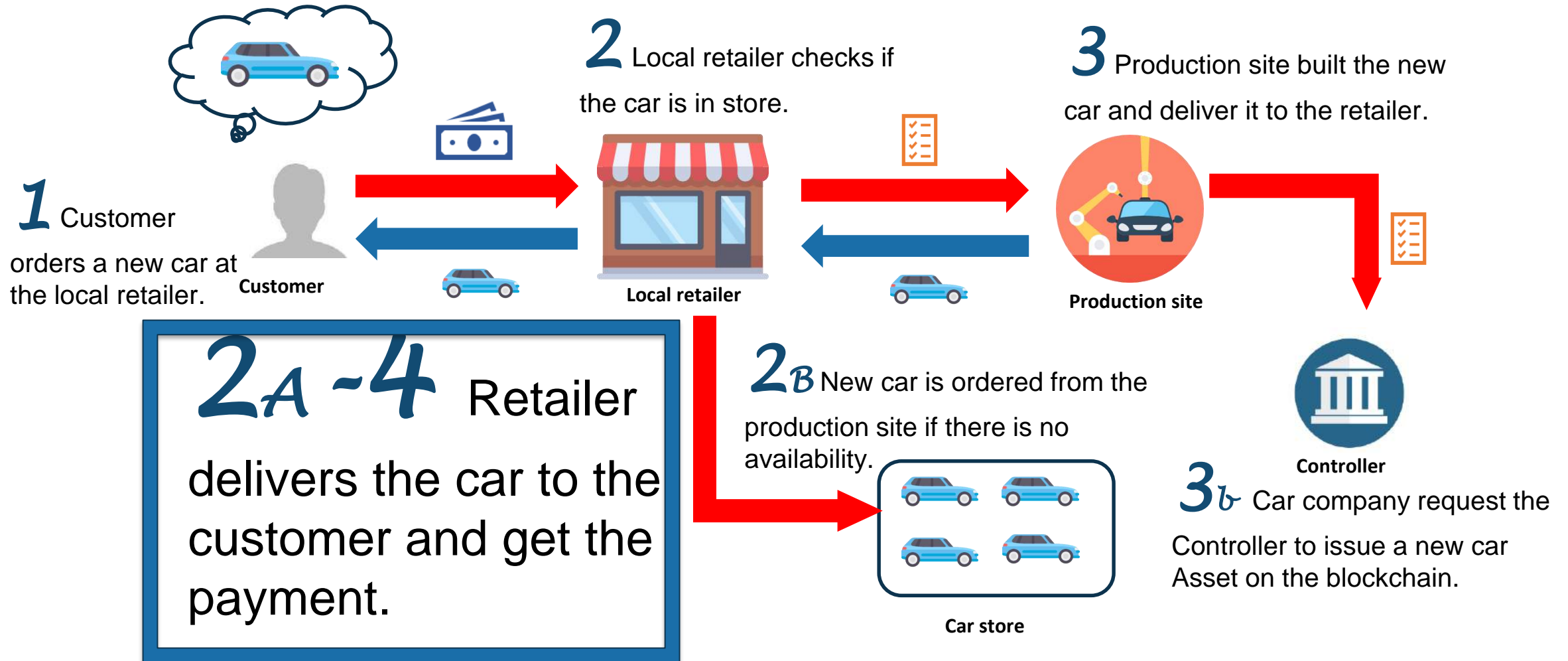
A real-time audit trail can be generated with timestamps and digital signatures for each step with every partner.



Use case Scenario - Car order management



Demo scenario – Payment transaction



Demo – Main components



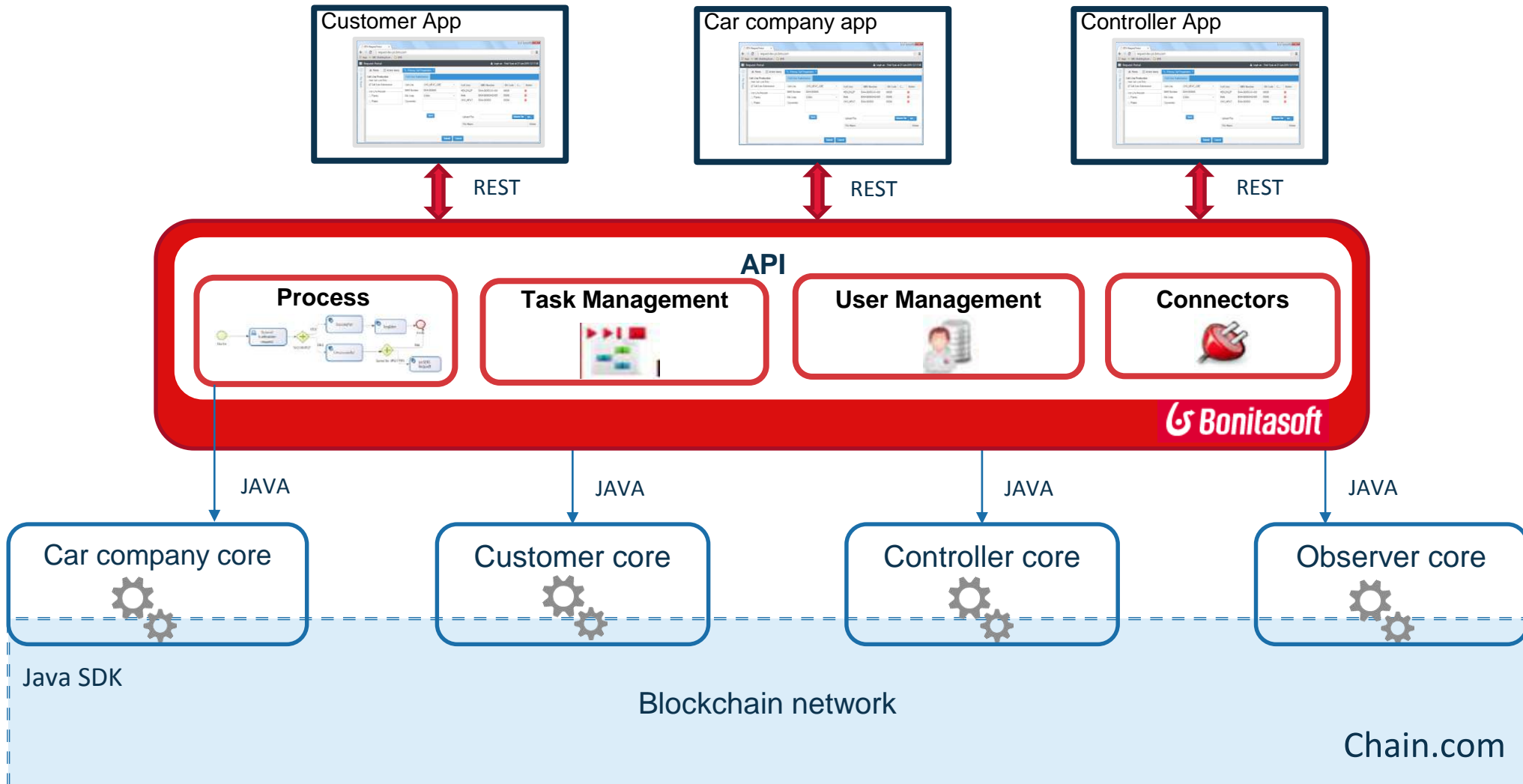
Bonita BPM

- Business process with the business logic orchestration and blockchain transactions management
- Connectivity framework to Chain.com blockchain
- 3 business applications with dedicated UX: Customer and Car company, Regulator

Chain.com

- Private blockchain deployment with 4 cores: Asset manager, Customer, Car company and Regulator
- Dashboard application to manage blockchain cores, account, assets and transaction
- Java SDK

Demo – Architecture



Demo – Blockchain data model



The purpose of a blockchain network is to manage issuance, ownership, and control of digital *assets*.

Asset:

- Demo: Bonita White Car
- Define by a Chain Core. Can be issued only by the key holder defined at the asset definition.
- **Global data**

Account:

- Demo: Bonita Store
- Track ownership of assets on a blockchain
- **Local Data**

Transaction:

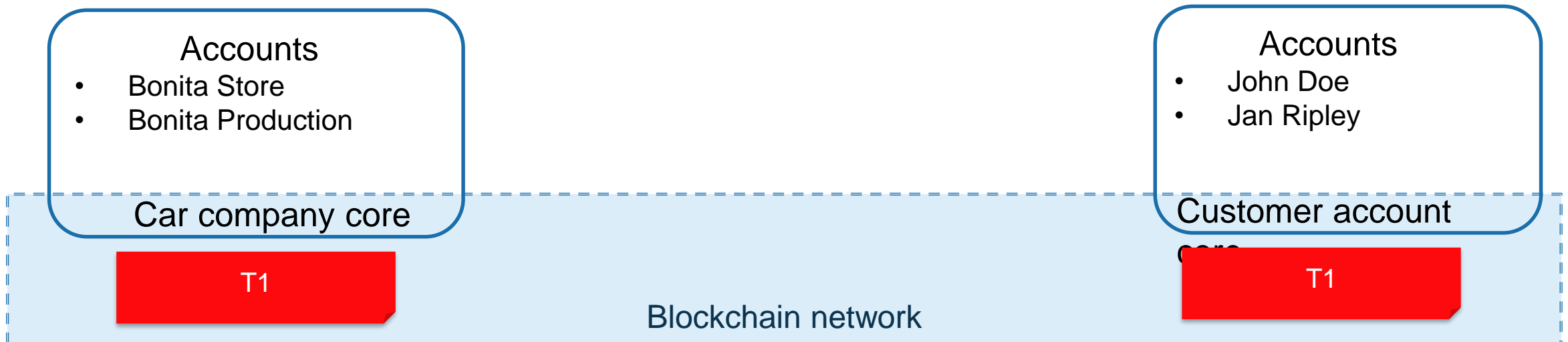
- Demo: 10.000\$
- Use to issue, transfer, exchange assets on the blockchain network
- **Global data**

Demo – Payment transaction

Without BPM



Bonita store sells a car for \$10,000 to John Doe

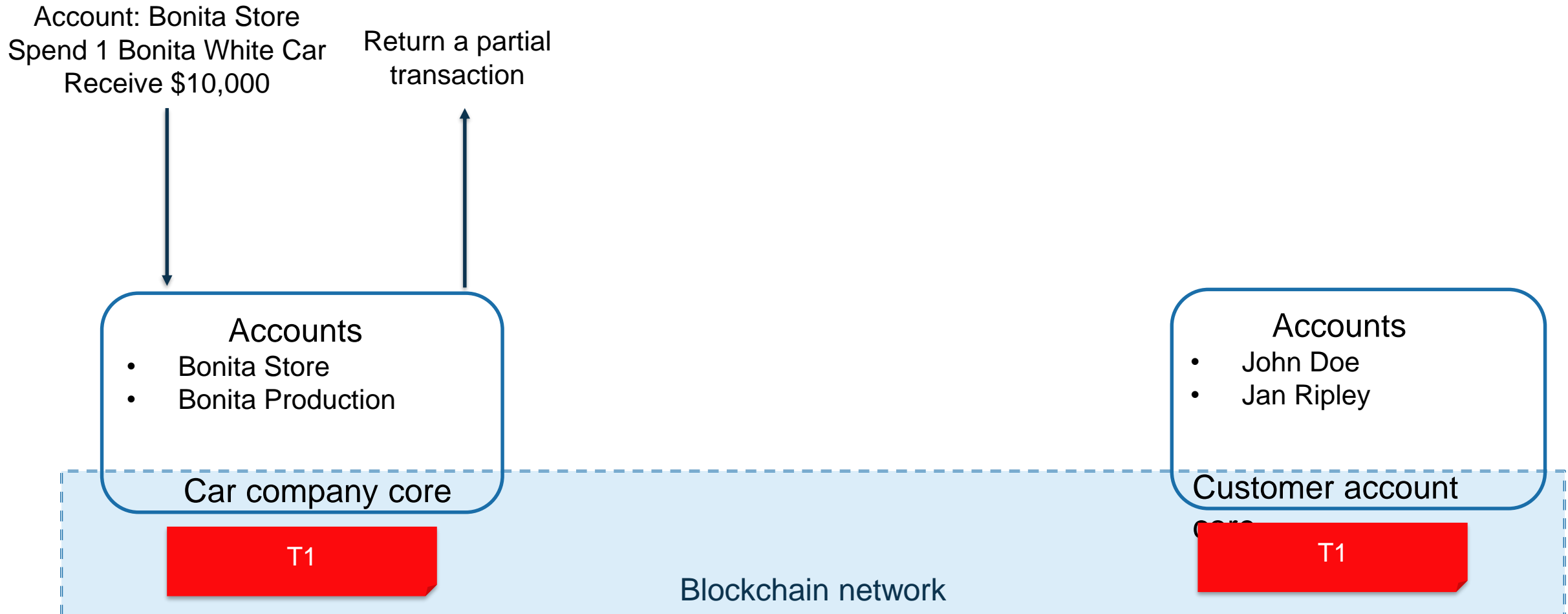


Demo – Payment transaction

Without BPM



Bonita store sells a car for \$10,000 to John Doe

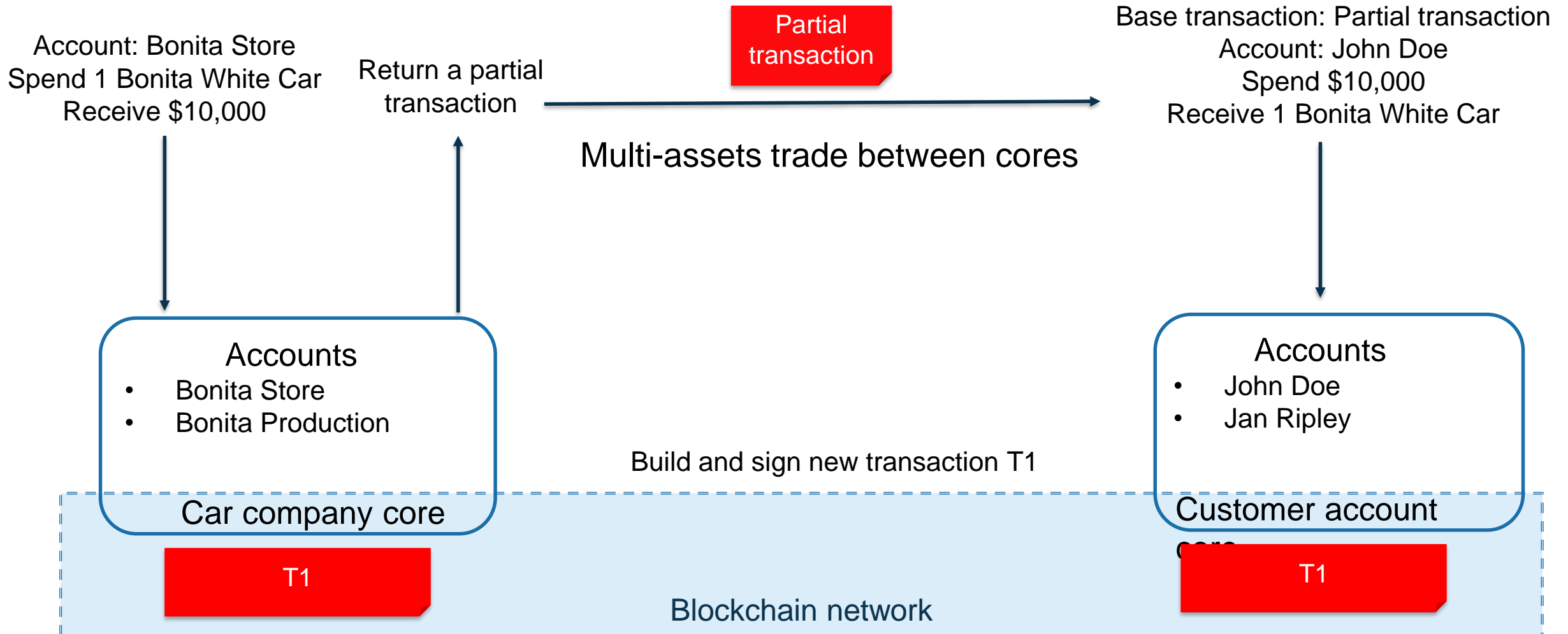


Demo – Payment transaction

Without BPM

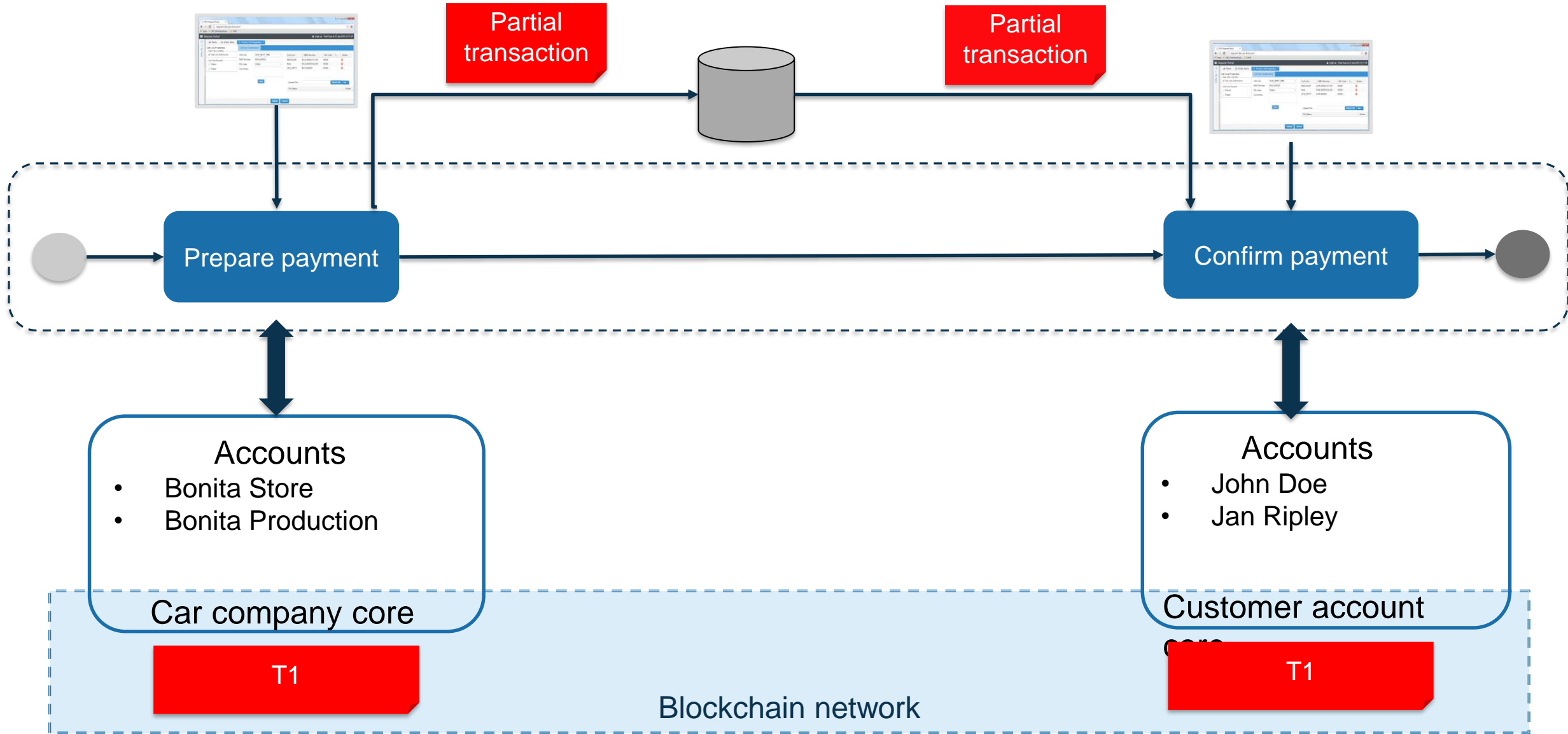


Bonita store sells a car for \$10,000 to John Doe



Demo – Payment transaction

With BPM





Live DEMO



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