

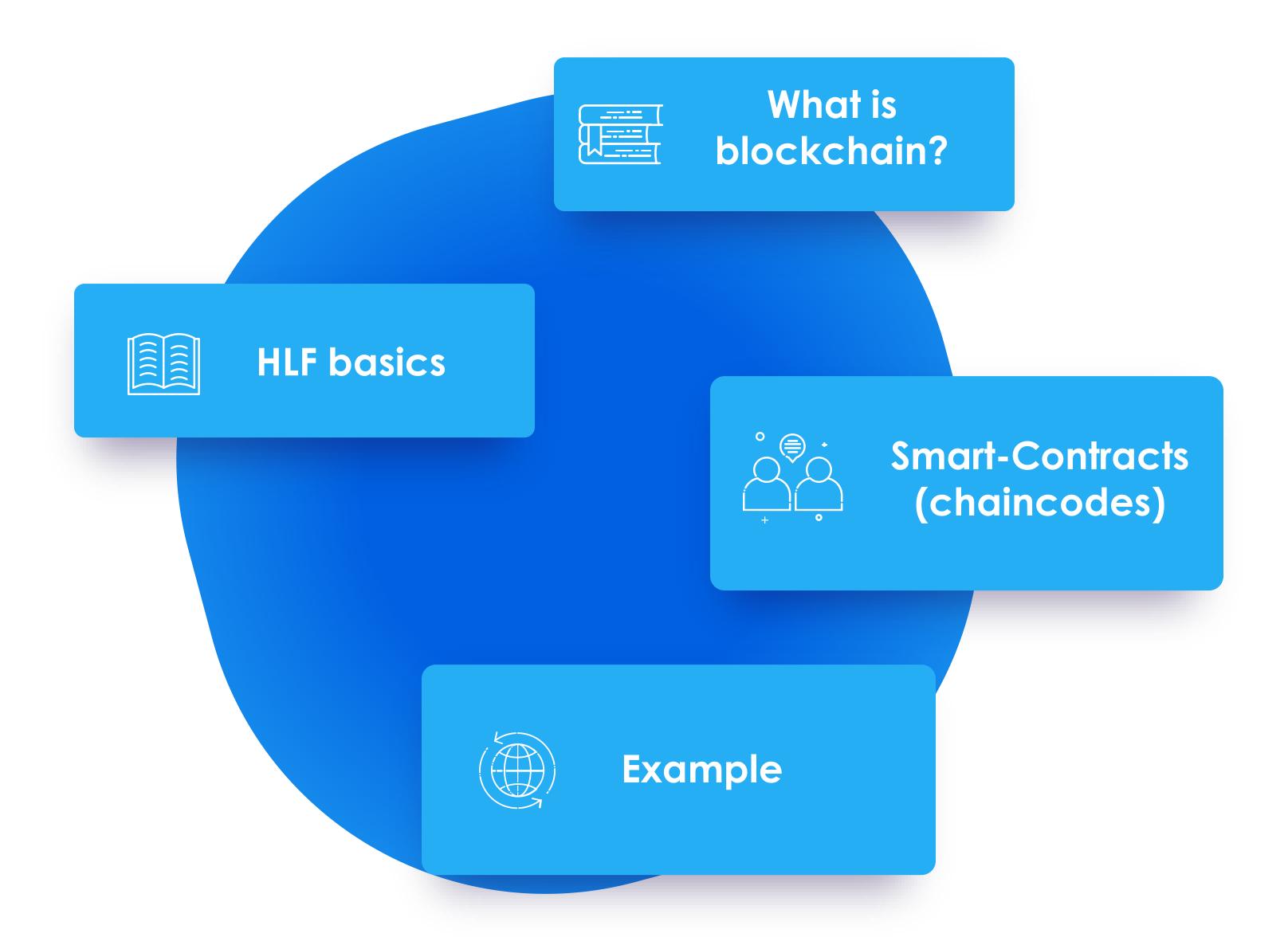
# Hands-on blockchain with Hyperledger Fabric

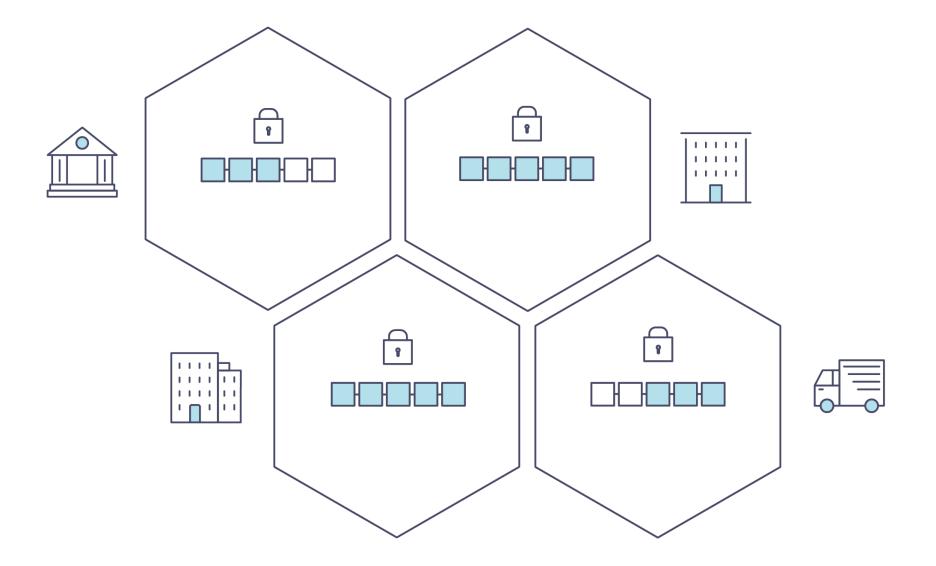
#### about me

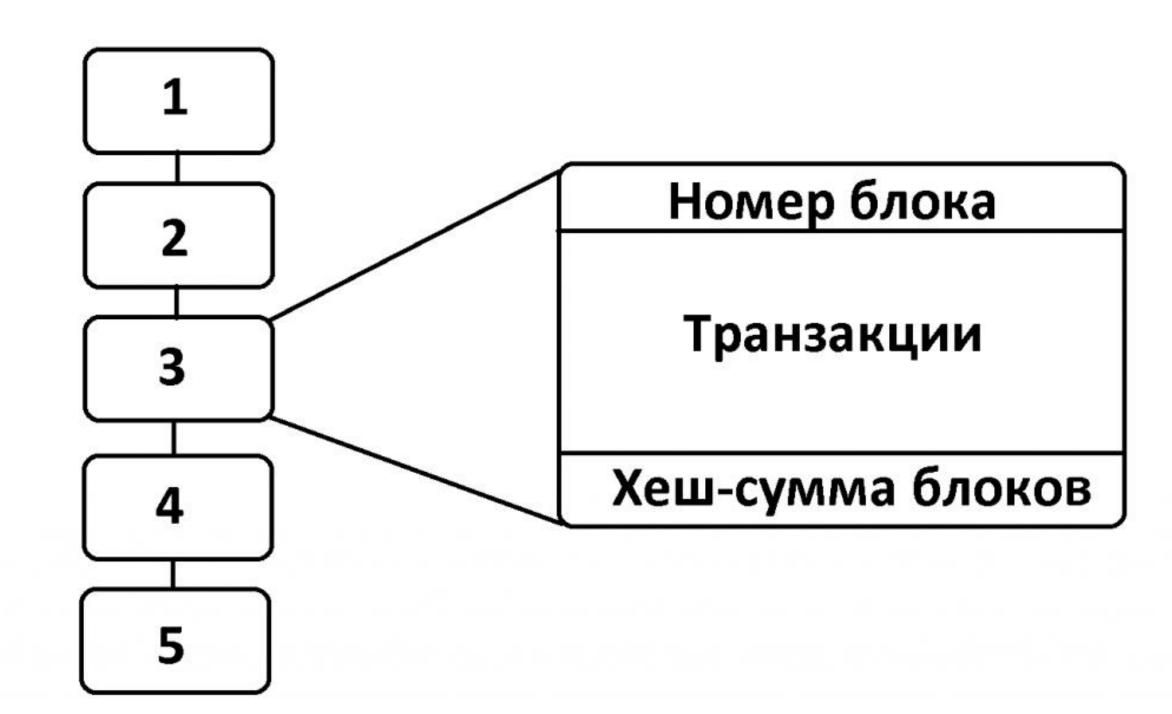
Lead Software Engineer at EPAM Systems

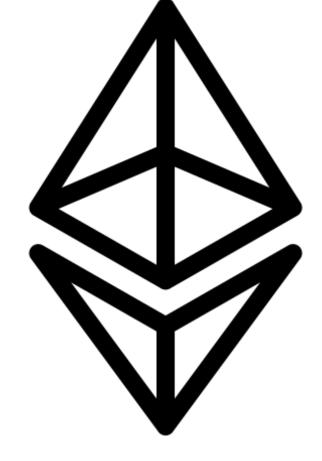


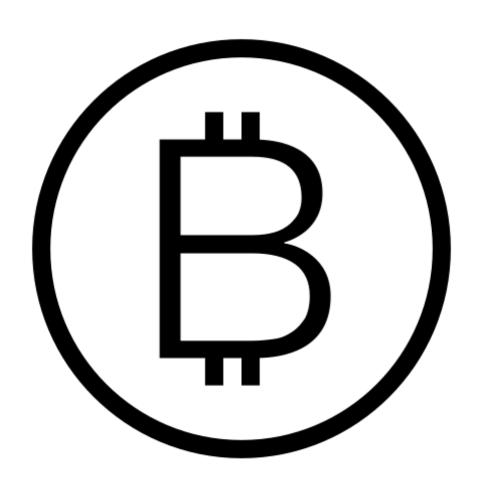
## Agenda











#### permissionless

- Anyone can join, read, write
- Hosted on public servers

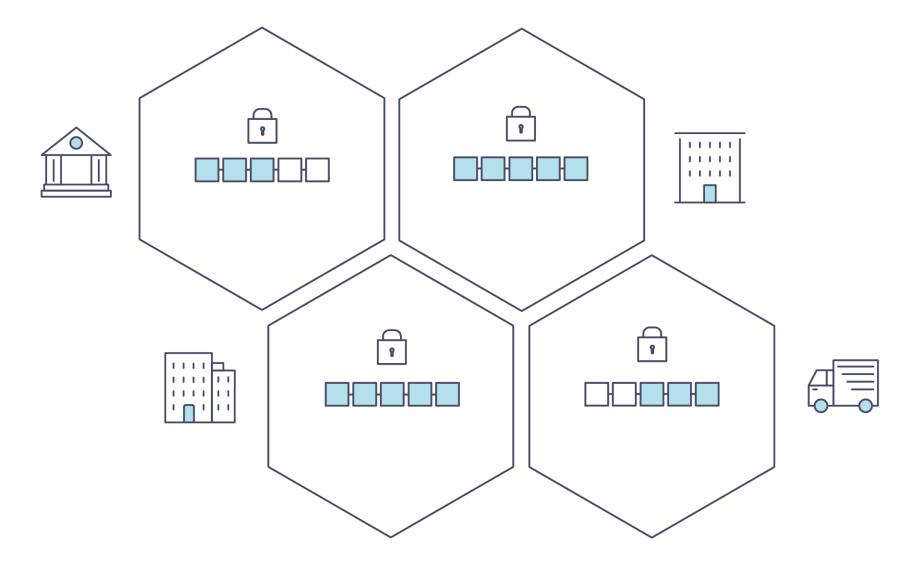
and commit

- Anonymous, highly resilient
- Low scalability

#### permissioned

- Anyone can join and read
- Only authorized and known participants can write and commit
- Medium scalability

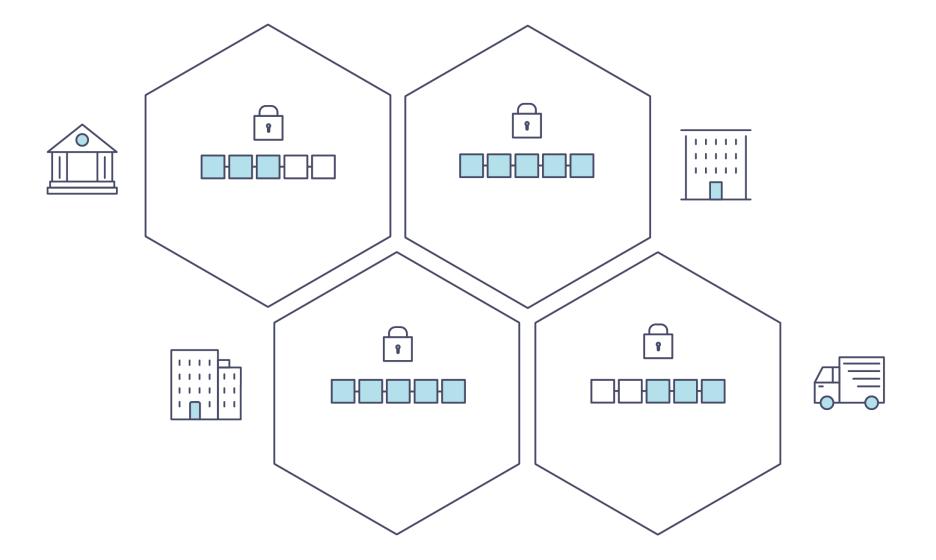
#### HLF basics



# What is Hyperledger Fabric?

- permissioned network
- shared ledger (world state / transaction log)
  - smart contracts (chaincodes)
    - privacy
      - consensus
        - channels

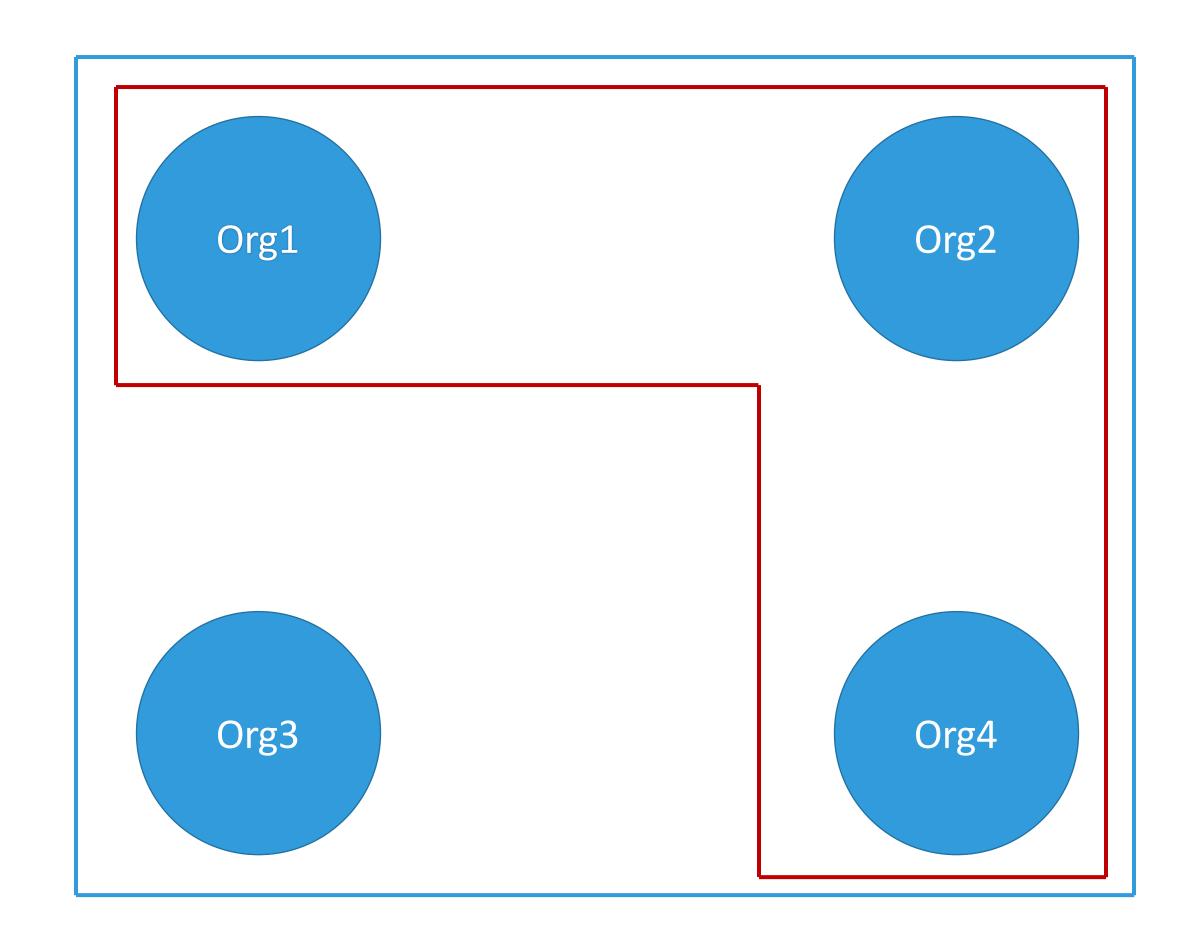
#### Channels



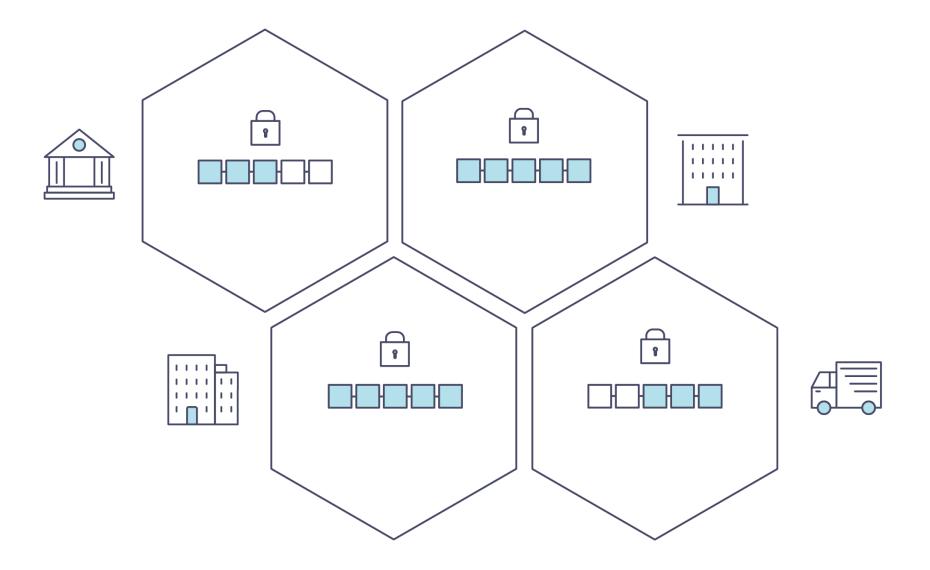
#### Channels

—— Channel 1





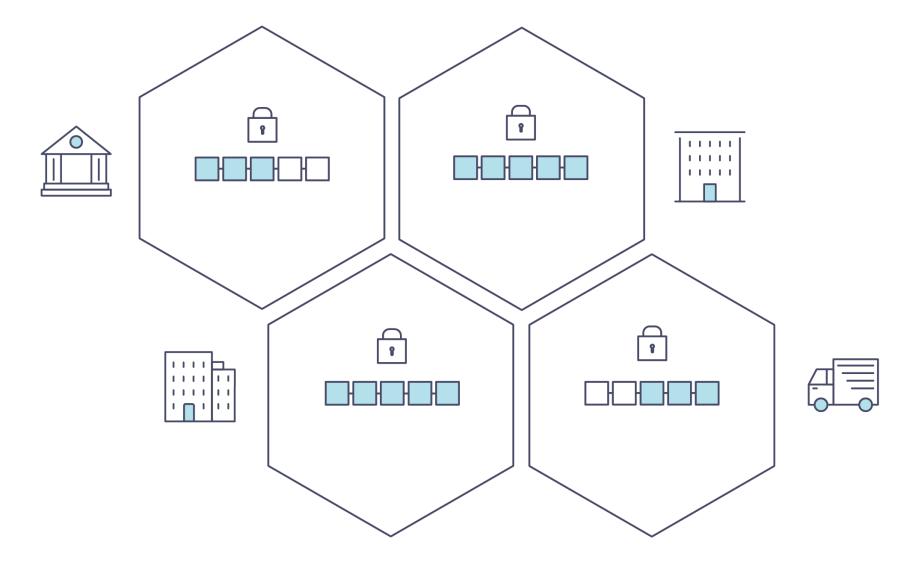
# Smart contracts (chaincodes)

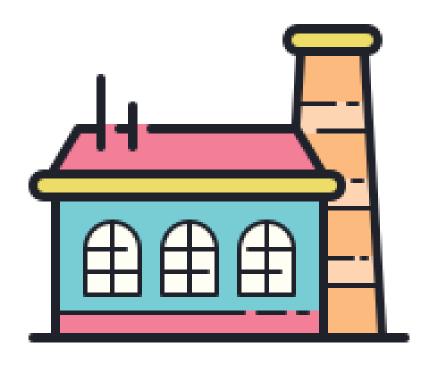


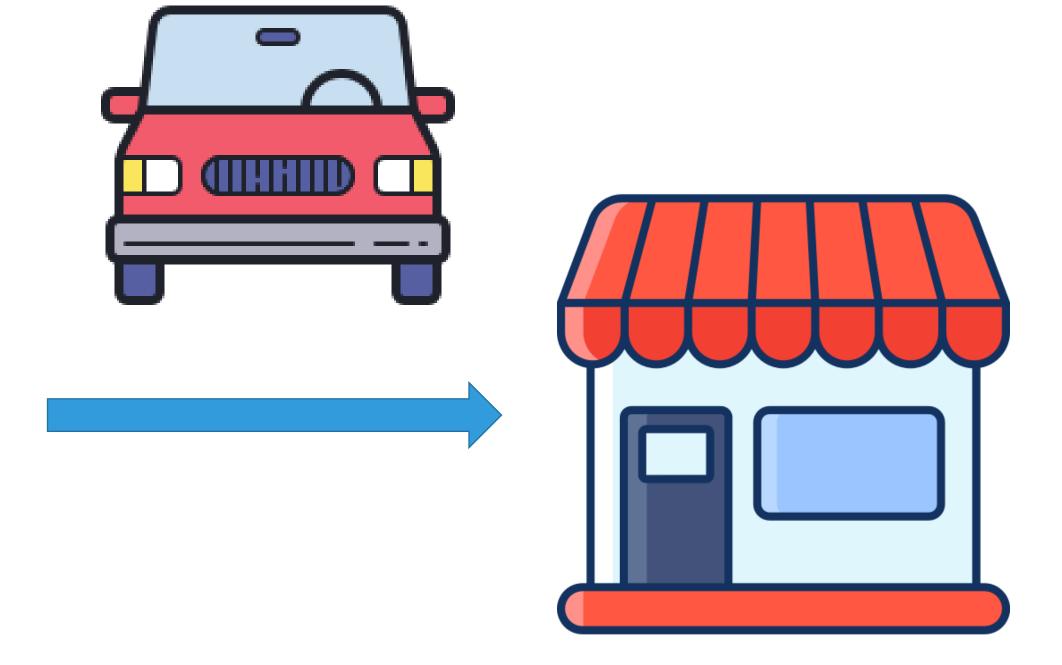
#### chaincode lifecycle

- package
- install
- queryinstalled
- getinstalledpackage
- approveformyorg
- queryapproved
- checkcommitreadiness
- commit
- querycommited

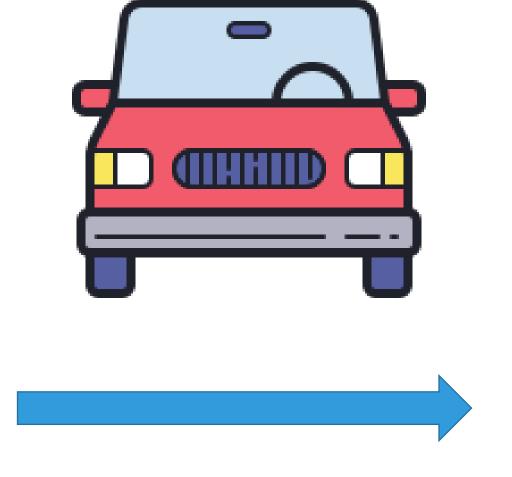
## Example

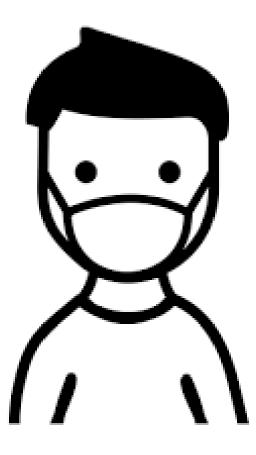




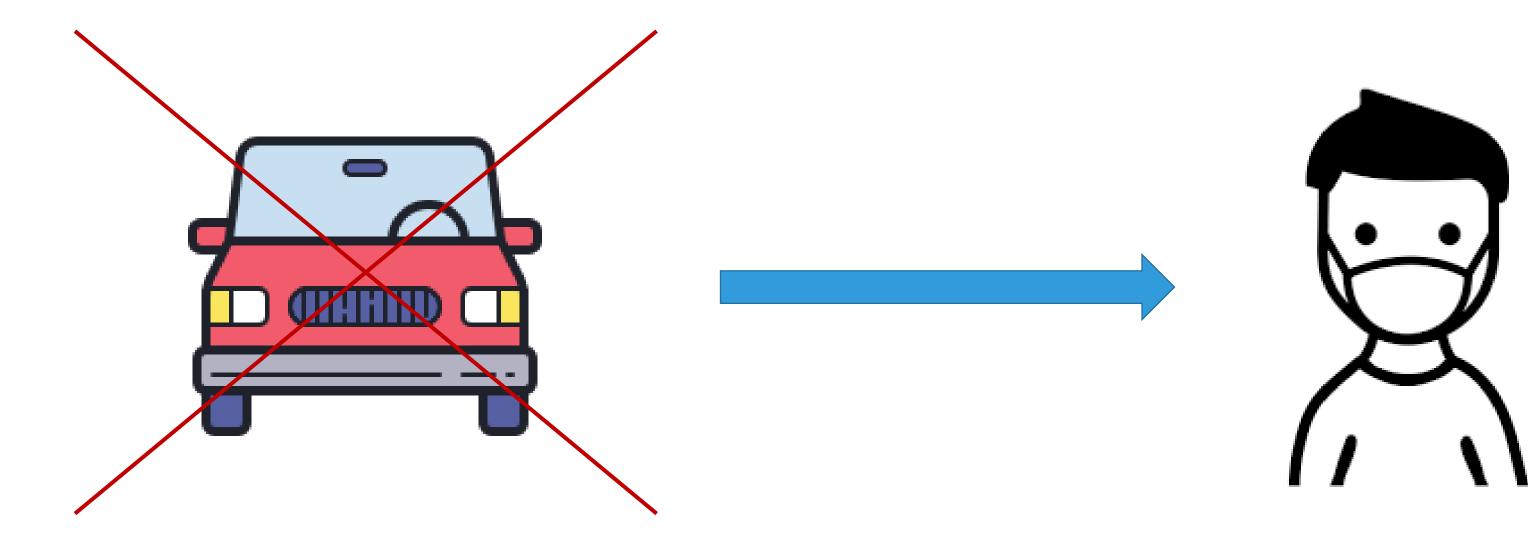












#### Example:

https://github.com/kortelyov/hyperledger-car-service https://github.com/kortelyov/hyperledger-fabric-samples

#### Thanks!