



# The Blockchain and Automotive Hype, Reality and Possibilities

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# What is Distributed Ledger Technology? (AKA Blockchain)

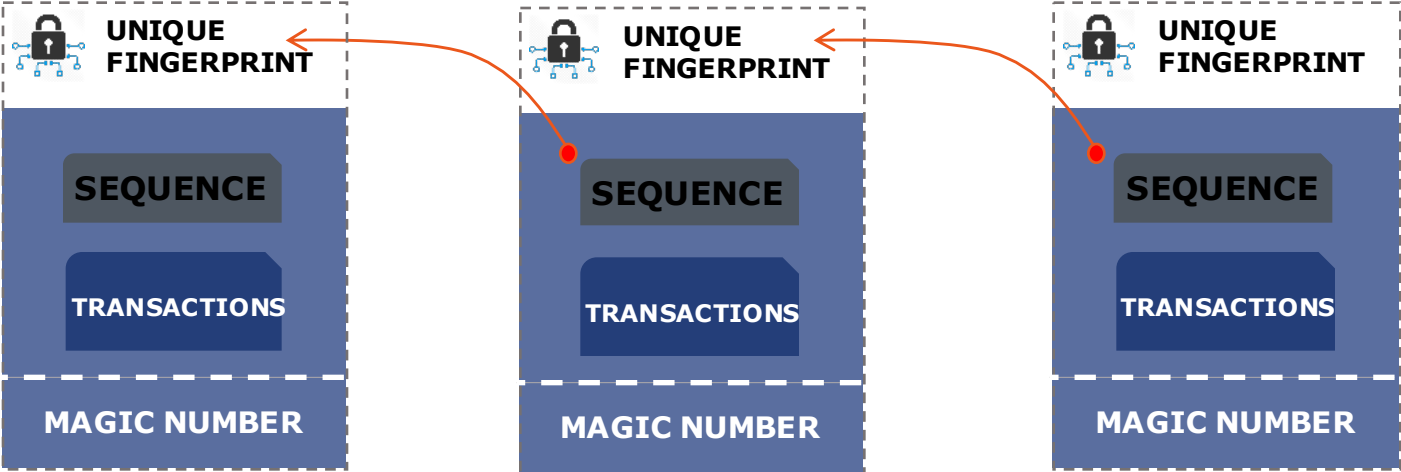
## Decentralized Data-Sharing Technology that:

- ◆ Connects participants in a business ecosystem without a central intermediary
- ◆ Maintains real-time, add-only, unchangeable ledger and history of transactions
- ◆ Automates business rules execution

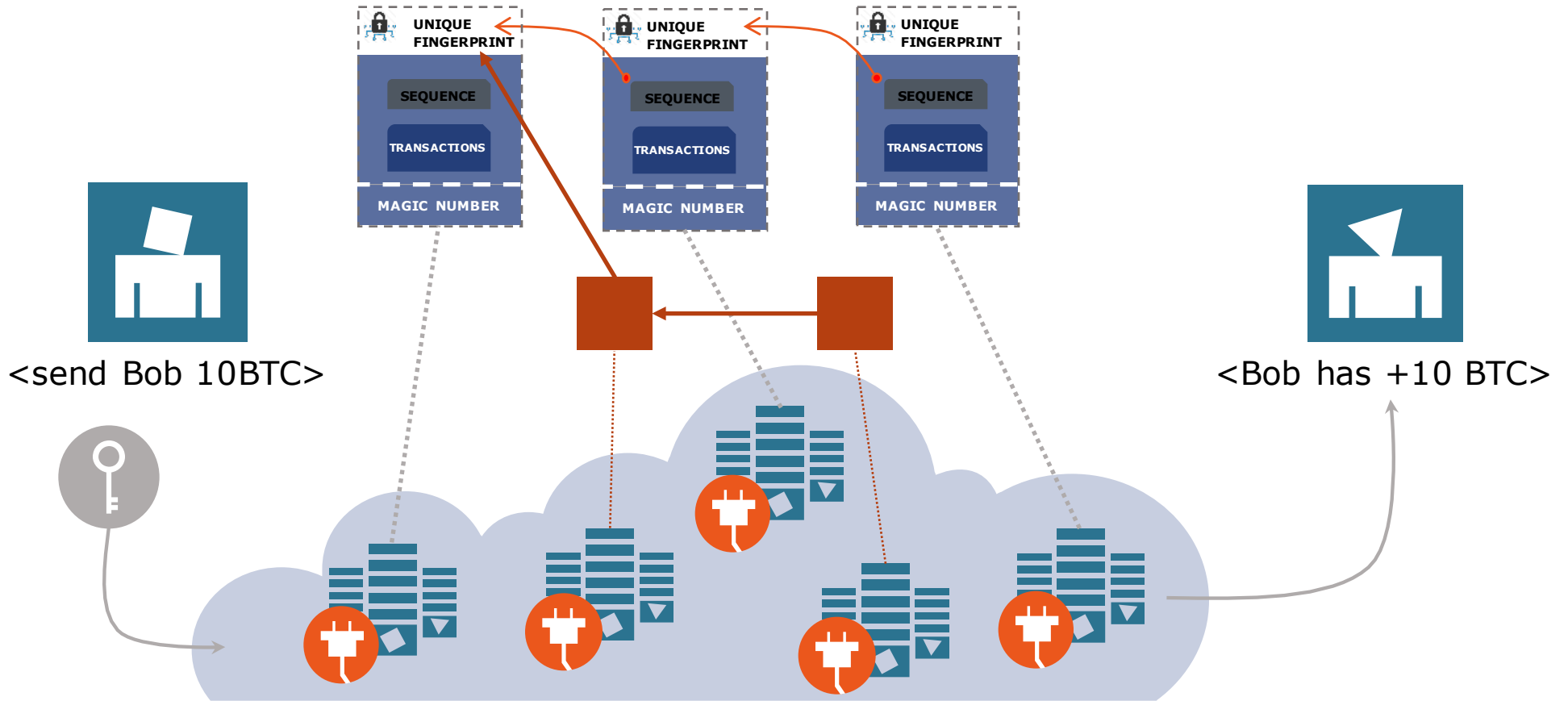
Made possible by a unique combination of  
**Peer-to-peer communications,**  
**Strong encryption,**  
**Distributed consensus** and  
**Smart contracts**



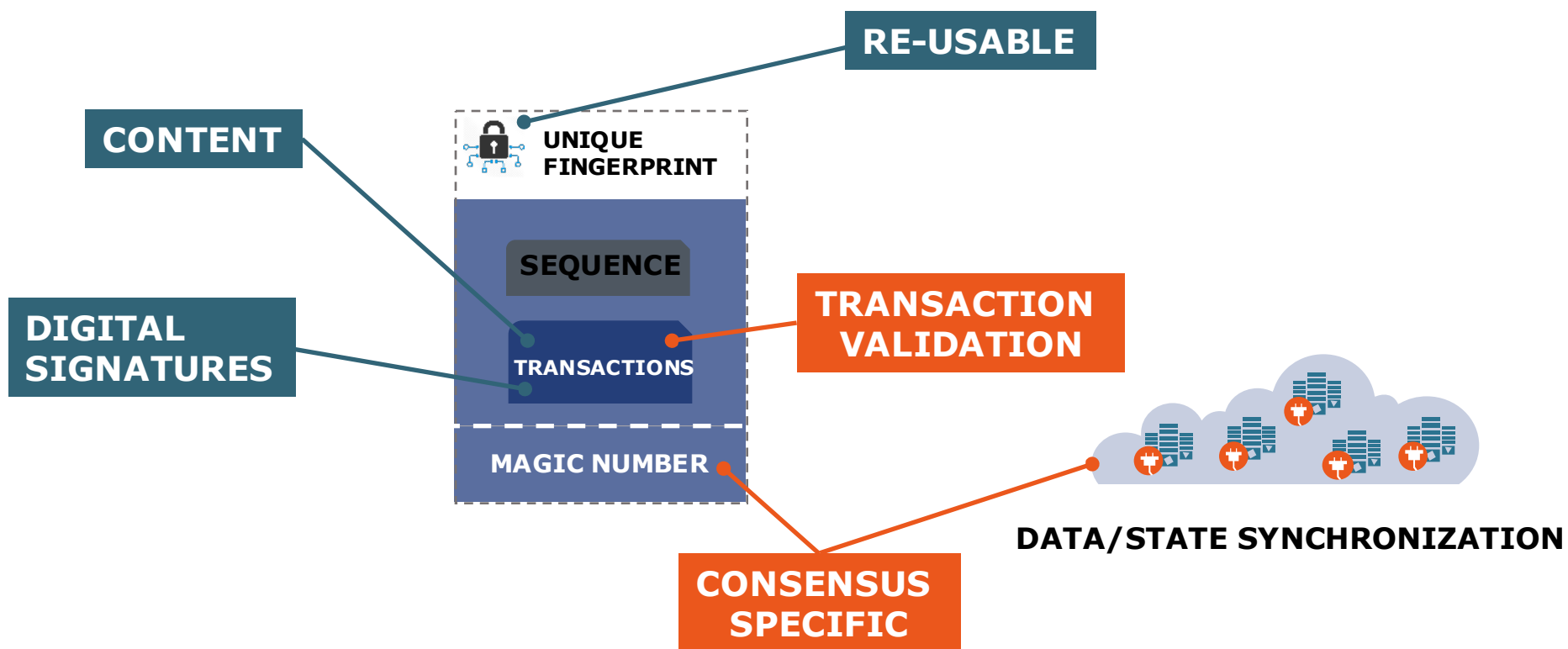
# Blockchain 101



## The key to Confusion - Consensus

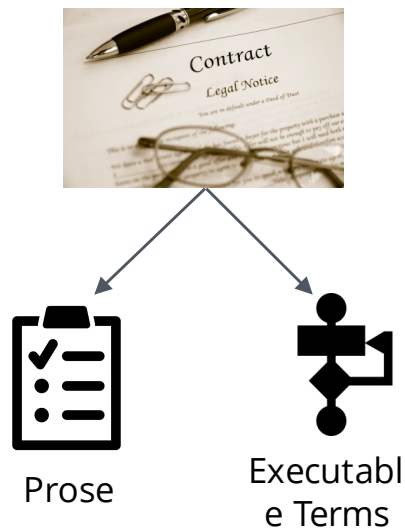


## Application-Specific Parts of Blockchain



# Smart Contracts Intro

## “Ideal Smart Contract”



“ A smart contract is a computerized transaction protocol that executes the terms of a contract\* ”

## Current Implementations

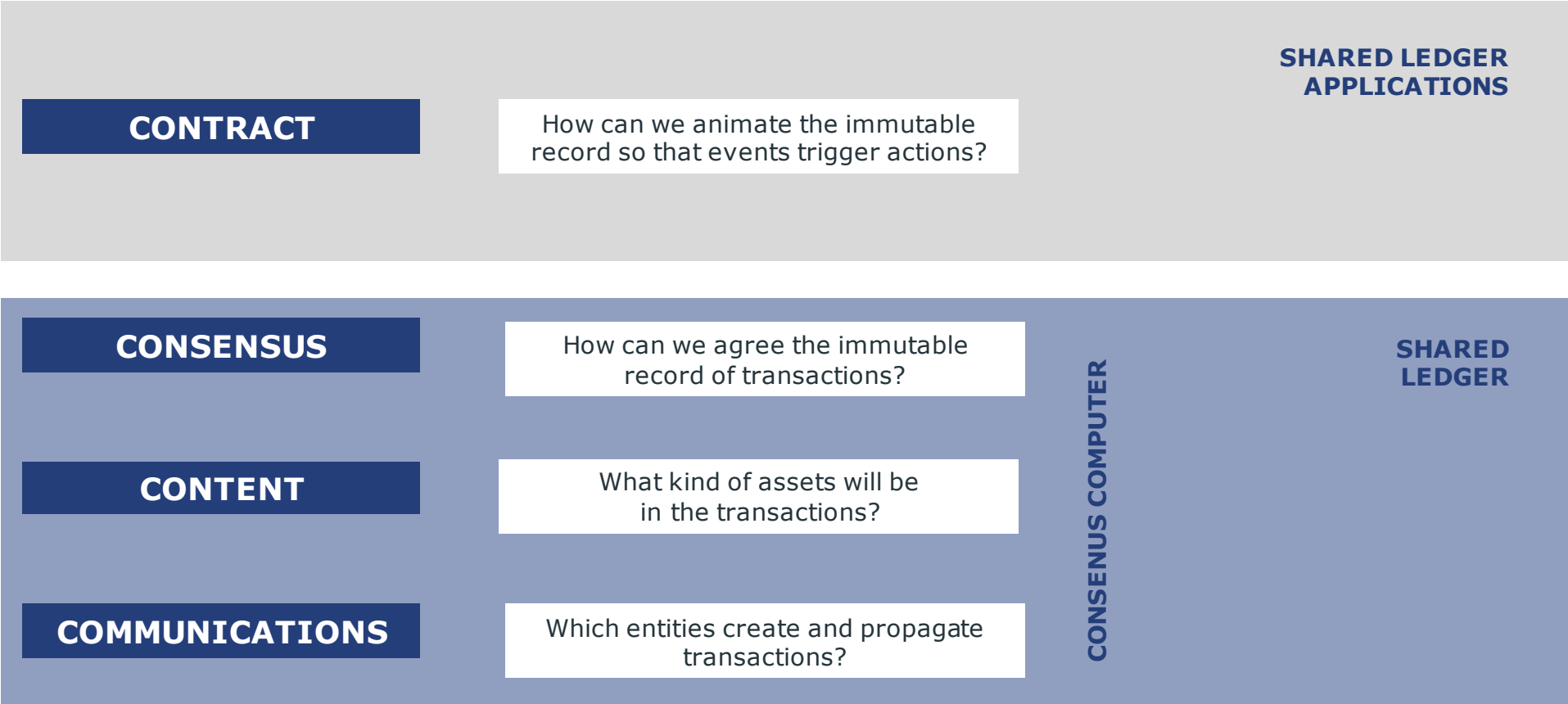


- Signatures
- Balances
- Conditions

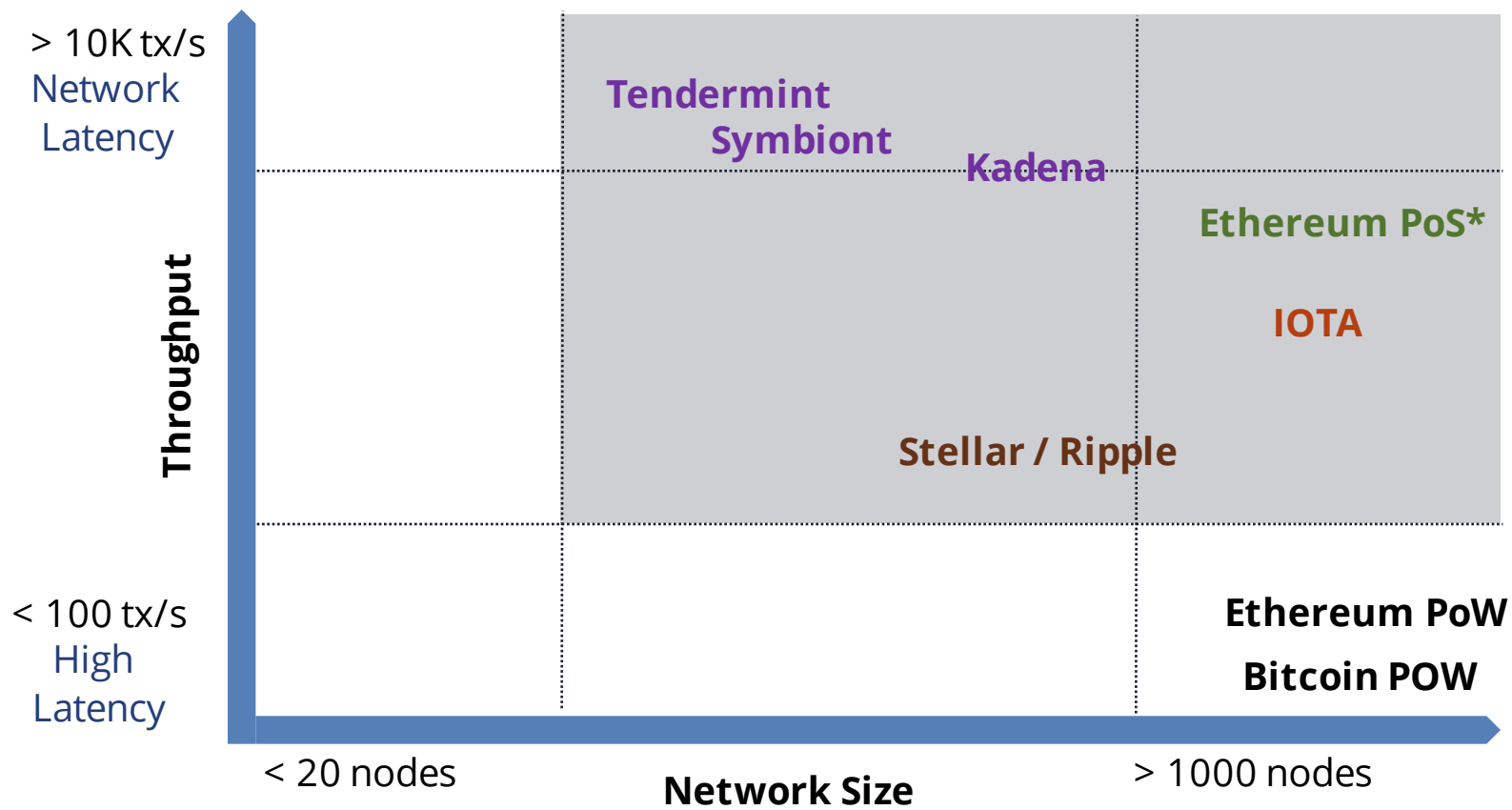


- Turing Complete
- Balance
- KV Store

# Platform Selection and Business Mapping Framework (4C Model\*)



## Can blockchains scale?





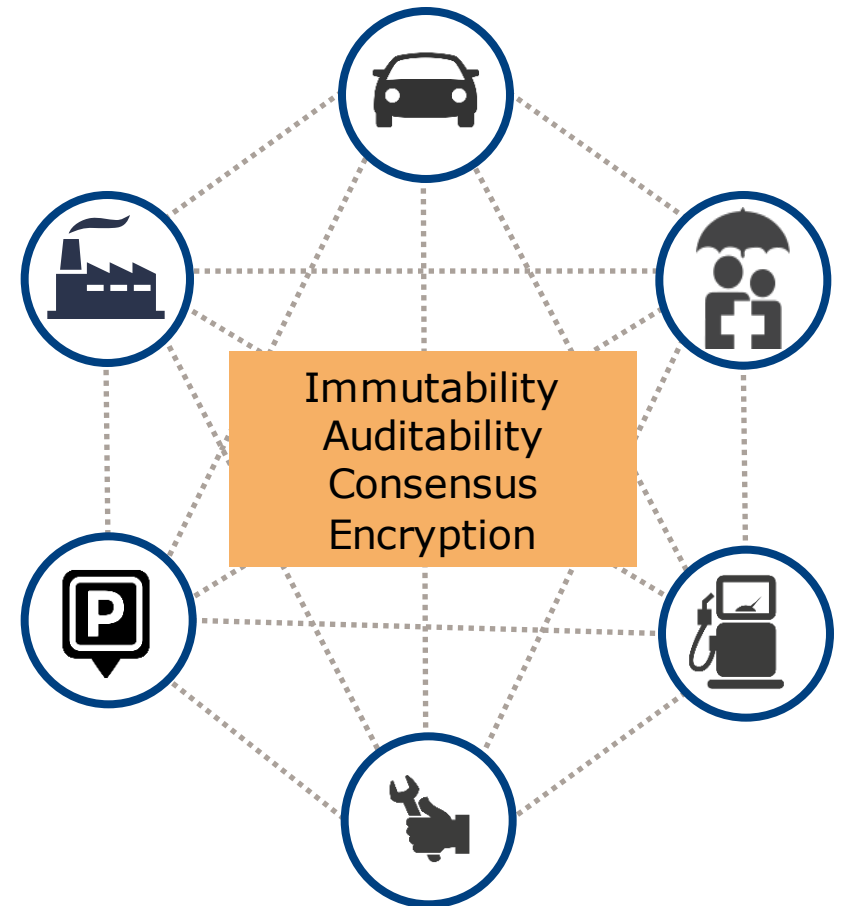
# BLOCKCHAIN FOR AUTOMOTIVE

## Promising Use-Cases

- Payments
- Identity
- Supply Chain & Manufacturing
- Extended Services
- V2X

## Connecting multiple players and processes to improve:

- Connected Car Ecosystem – How Data & Apps are used
- Mobility Services – How cars are shared
- Security & Safety – Addressing hacking and privacy concerns
- Ownership - How cars are owned

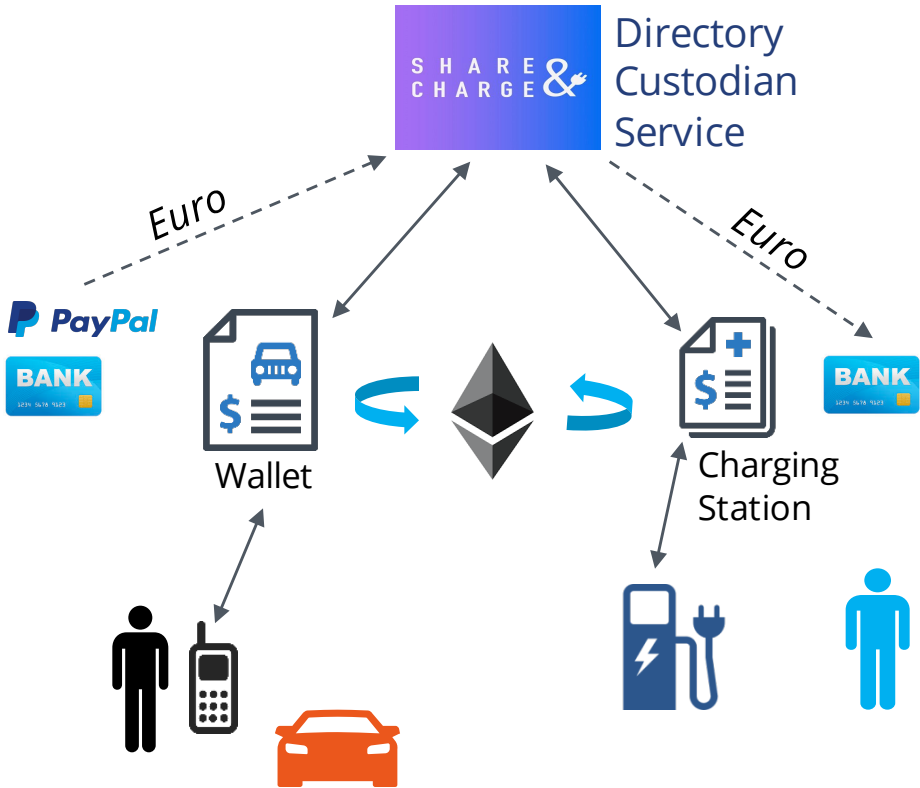


# P2P Charging for Electric Cars

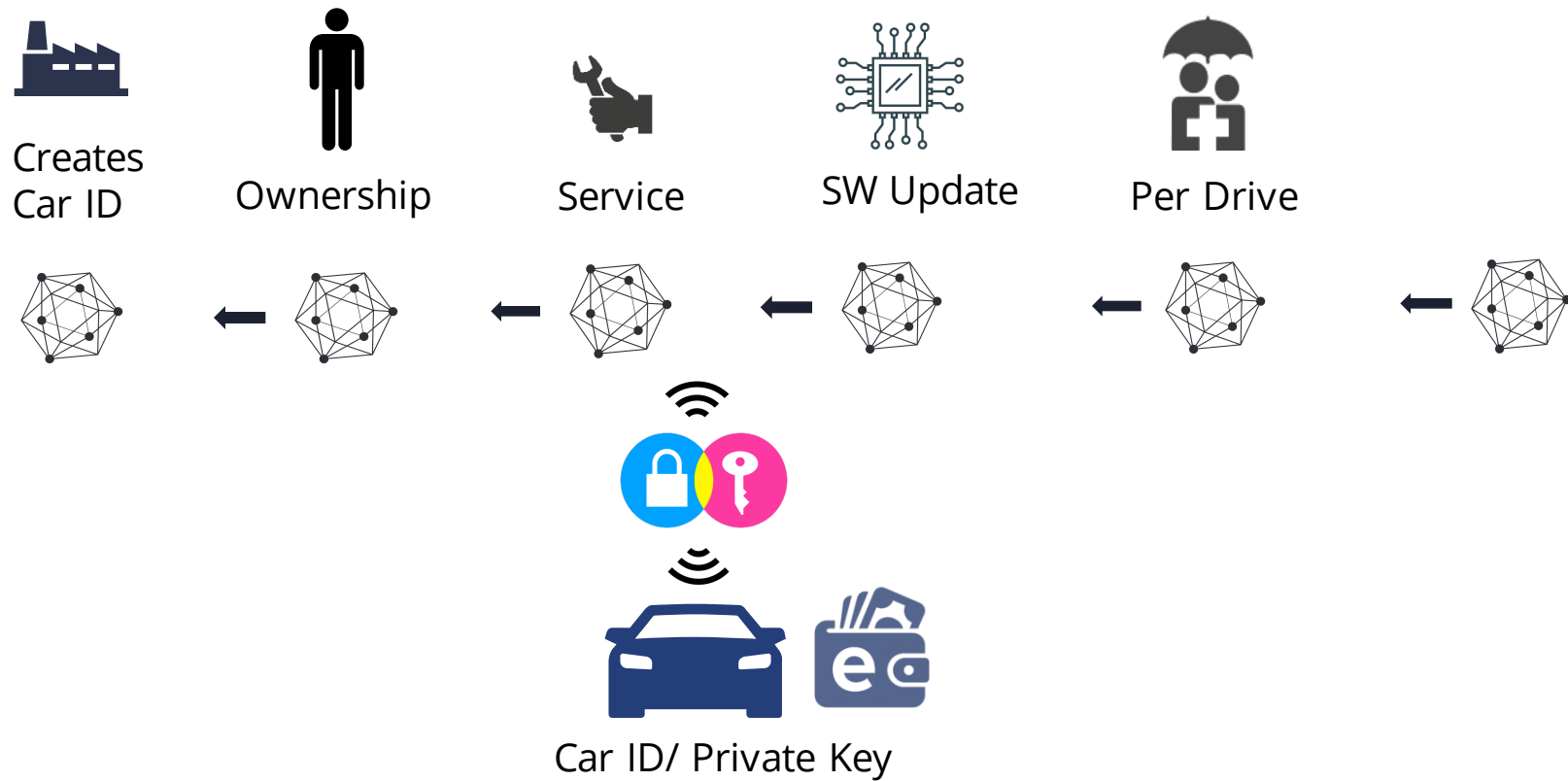
SHARE & CHARGE



Launched on 5.5.2017  
1100+ charging stations



# Taking Advantage of de-centralized ecosystem



## Summary

- ◆ Blockchain is rapidly developing beyond Financial Services
- ◆ Automotive industry is facing fundamental transformation and blockchain is a natural fit
- ◆ Autonomous cars will require decentralized ecosystem
- ◆ Standards and co-operation is required to make real progress

Genivi is a great place to embrace the technology and make progress together



**Thank You!**

**&**

**Questions?**

