Future of Charging in 2025?

Presentation 19.2.2019 "Future of Charging"

SHARE & CHARGE


FUTURE OF CHARGING 2025?
3 THESIS


EMOBILITY
PROVIDERS
DO NOT EXIST

Nearly 500 emobility providers (EMPS) are registered in Germany

474

 https://bdew-codes.de/Codenumbers/EMobilityId/OperatorIdList

In 2025: No independent EMPs but automotives taking the share with very few EMPs for fleet business

474

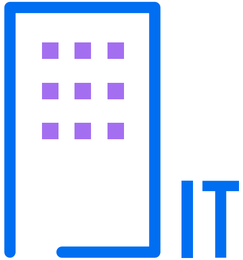
<50

B2C	Fleet
DAIMLER	Alphabet
Audi	ALD Automotive
TESLA	…
…	

SHARE & CHARGE

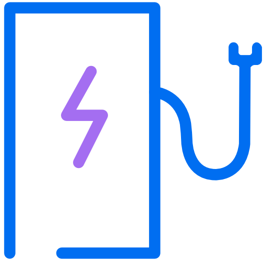
CPO MARKET HIGHLY FRAGMENTED WITH FEW SOFTWARE PROVIDERS

In Germany we currently see 524 registered CPOs whilst data of CSMS software providers is currently lacking



Tbd

(Report in March)

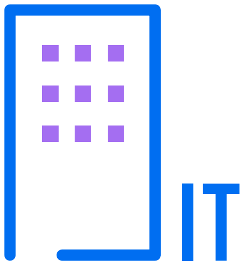


524

https://bdew-codes.de/Codenumbers/EMobilityId/OperatorIdList

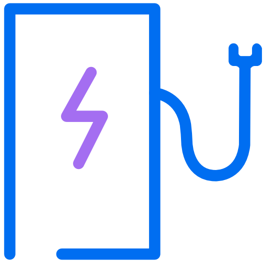
SHARE & CHARGE

In 2025: Millions of Charge Point Operators especially on private premises and consolidation on software side



Tbd

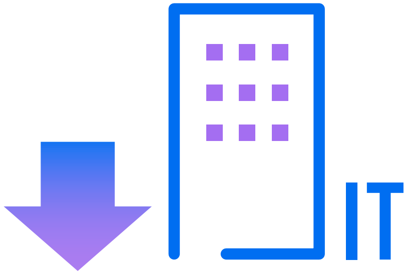
(Report in March)



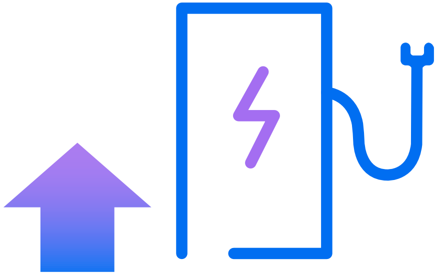
524

>1,000,000

Whilst settlement complexity will increase the technical interface interoperability challenge will decrease



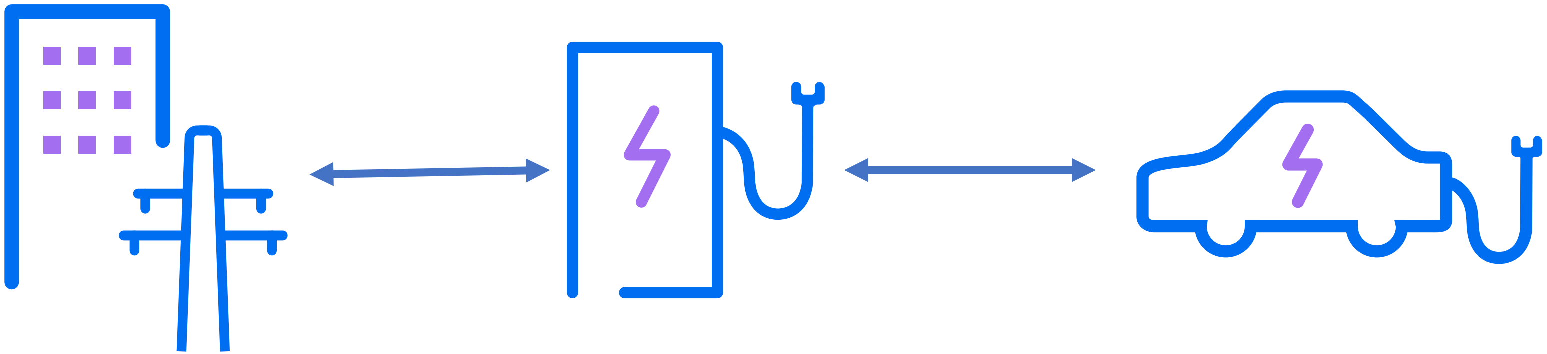
Much less technical interfaces



Many more transactions and contractual partners

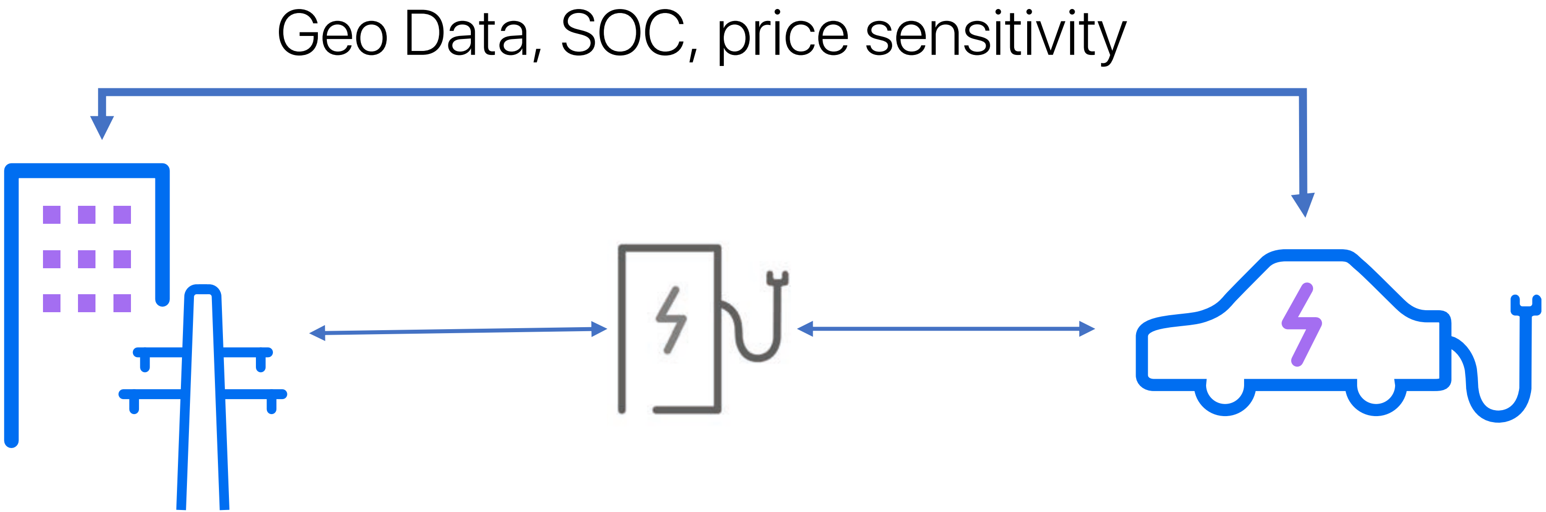
SMALL ROLE FOR CPOS IN SMART CHARGING

In most of the current smart charging projects CPOs still have a prominent role...

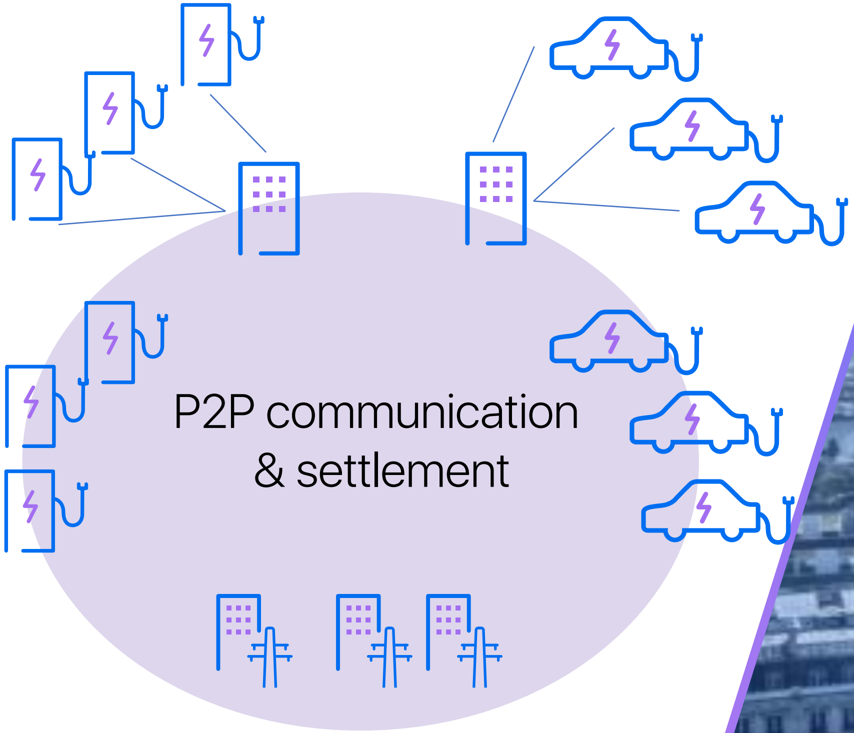


SHARE & CHARGE

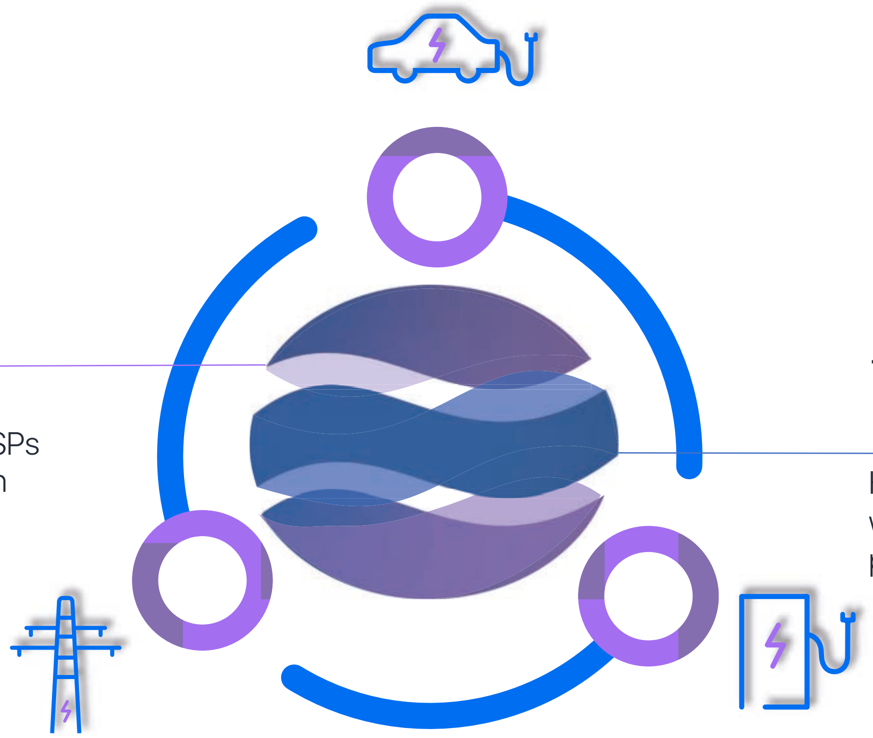
… but smart charging relevant data will be transferred directly from the car to the grid operator (or some aggregators)



In 2025: Mainly P2P communication and transactions with few hubs



Share&Charge is convinced of OCPI and does see a very high value in combining it with distributed ledger technology



Communication (OCPI)

New P2P standard between CPOs and MSPs with very high adoption amongst incumbents

Transaction (Blockchain)

Highest level of automatization with wallets and smart contracts for payment and identification

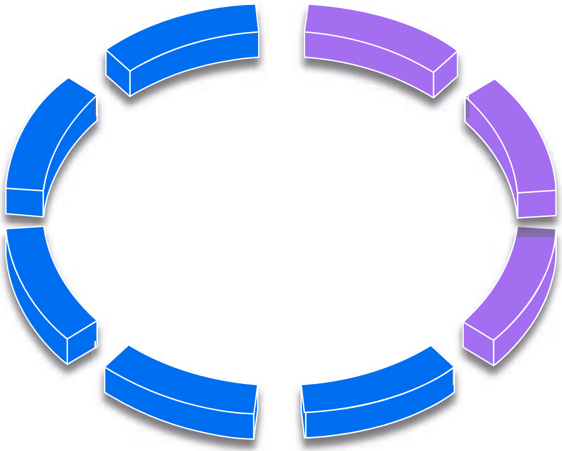
Share&Charge enables seamless and smart charging with an open network approach for more security and efficiency

Locations
Describes the charging locations of CPO

Decentralized Registry
Enables automated and safe sharing of CPO & MSP business data

Tariffs
Provides the MSP knowledge about prices of charging sessions

Decentralized Message Bus
Connects CPO and MSP via an OCPI hub by utilizing the decentralized registry.



Sessions
Describes charging sessions in the CPO backend-system

Instant Payment & ERP Integration
Allows direct payment of charging sessions based on CDRs and integration to company administration

Commands & Tokens
Enables direct communication and authorization of charging sessions.

Charge Detail Records (CDR)
Describes concluded charging sessions

- OCPI Modules
- S&C Modules

SHARE CHARGE

1. EMOBILITY PROVIDERS DO NOT EXIST
2. CPO MARKET HIGHLY FRAGMENTED WITH FEW SOFTWARE PROVIDERS
3. SMALL ROLE FOR CPOS IN SMART CHARGING

Thank you very much

Dietrich Sümmermann
M: +49-152-54663721
E: dietrich@shareandcharge.com