

### **COMFORT CHARGE NETWORK** Bonn/Vienna, November 2018

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LIFE IS FOR SHARING.

#### **E-MOBILITY IS BASICALLY A LOGISTICAL ISSUE**



#### THE FEARS RELATED TO E-MOBILITY: R.I.P



Most people see 300km range as sufficient – mid-sized e-cars with 300km range are entering the market now

# nfrastructure

Majority of cars is parked in public space, their owners depend on publicly accessible charging stations – this is where Deutsche Telekom enters the infrastructure market with lower investments than anybody else by revaluating already existing assets

Price Already today, many people would buy an electric car with 300km range if it was available at the same price as a comparable car with combustion engine – Teslas Model 3 will be sold at about the same price as a BMW 3 series car with two liters diesel engine

# **OUR RIGHT TO PLAY**



- Thanks to deregulation, utilities don't have an own network which would provide an advantage
- Fuel stations are often in remote areas of cities and in general don't have medium-high voltage connections with power reserves
- Utilities don't have nationwide service structure, only regional
- The combination of nationwide locations, usable electricity infrastructure and qualified service personnel is a unique advantage of a Telco operator

# FOUND DECEMBER 2017: COMFORT CHARGE DEUTSCHE TELEKOM'S CHARGE POINT OPERATOR



Deutsche Telekom has entered the e-mobility market and found Comfort Charge GmbH

2

**Comfort Charge** has a **smart rollout concept** to rapidly build a charging station network in Germany utilizing **Deutsche Telekom** assets and existing organizational structures for cost and time advantages

3

In addition to its CPO role, Comfort Charge bundles services of several Telekom entities and external sources as an end-to-end, one-stop-shop partner for B2B customers



Telekom destination charger prototypes (Darmstadt, Bonn)

#### **BUNDLING BY COMFORT CHARGE**



\*Deutsche Telekom tailored mandates of Enio's ETSweb system

# **COMFORT CHARGE'S NETWORK FOCUS**



at on-street infrastructure

at medium-high voltage transformers

currently out of focus

### **COMFORT CHARGE'S PUBLICLY ACCESSIBLE NETWORK**



### **PUBLICLY ACCESSIBLE FAST CHARGING NETWORK**

- Using our existing medium high voltage transformers, we are able to offer urban fast charging at up to 150kW, hence 7min for 100km range
- Future proof technique has been chosen operating at up to 1.000V and 375A
- > The first 100 stations will be in operation by EoY 2018
- Until EoY 2021, we will build a dense charge point network across Germany leading to an average distance of 38km between two fast charging stations





MUNICH (AT THE OLYMPIATURM)

WITTENBURG (NEAR HAMBURG-BERLIN MOTORWAY)





#### FIRST COMFORT CHARGE FAST CHARGERS IN OPERATION



### **PUBLIC DESTINATION CHARGE SPOTS**



# **COMFORT CHARGE'S PUBLIC CHARGING CONCEPT**



# **PILOT INSTALLATION DARMSTADT**





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