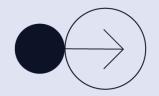


E-Smartness on three wheels

Improving Urban Quality of Life



ABOUT K/W AUTOMOTIVE



Design Prototyping, Modular System Design

Enabling CO2 neutral urban delivery

Traffic chaos and air pollution harm city centers. Delivery traffic is responsible for one of the biggest burdens. Goods transport is estimated to be responsible for around a quarter of inner-city traffic. Together with K/W Automotive, we have developed a solution that enables small businesses and retailers to deliver their products efficiently, safely, and cost-effectively, reduces inner-city traffic and improves the city as living space.

Our solution comes on three wheels: the E3-Trix. It enables drastic energy reduction compared to delivery traffic and is the best e-mobility solution for small businesses and cities.



Delivery Traffic

Cities are bursting

70,0 Bn.€

general cargo logistics, Consumer Goods Contract Logistics and CEP of total 267 billion euros of the German logistics industry in 2017

Liefern ohne Lasten, Agora Verkehrswende und Belgische Universität Wuppertal

23,5 Bn.€

in revenue from courier, express and parcel services (CEP) in Germany

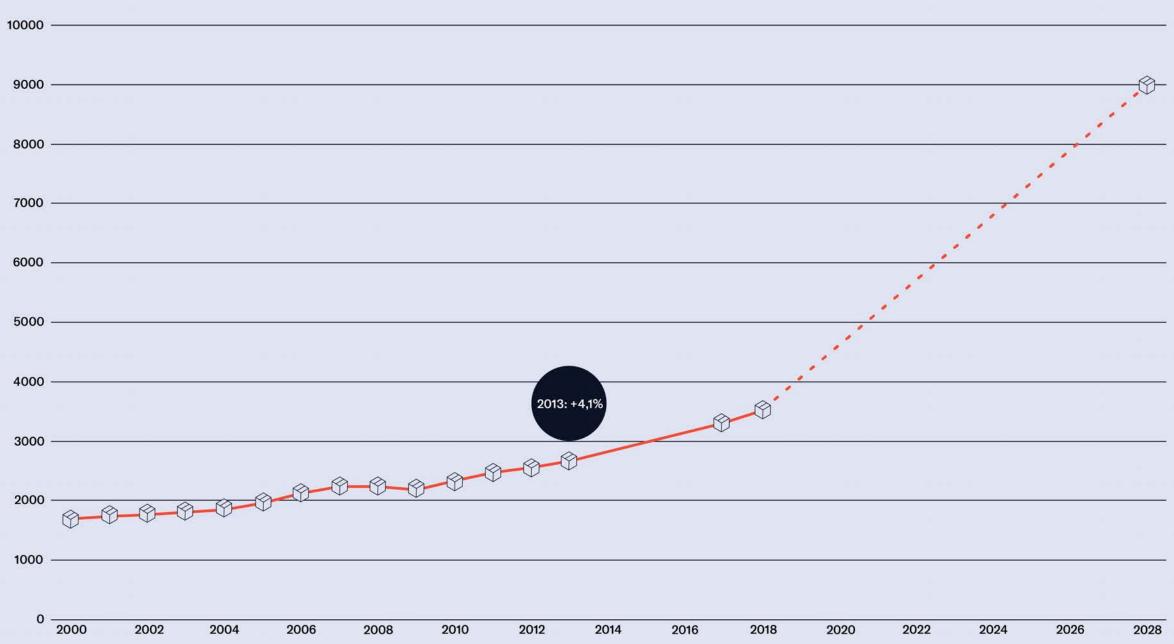
Statistiken zur KEP-Branche, Sarah Keller, Statista

0,41 Bn.€

Innovation spending by the postal, courier and express services sector in Germany

Statistiken zur KEP-Branche, Sarah Keller, Statista

Mail volume in the German CEP market (in Mio.)



KEP-Studie 2014, Bundesverbandes Internationaler Express- und Kurierdienste e.V. (BIEK), Anzahl der Sendungen von Kurier-, Express- und Paketdiensten (KEP) in Deutschland in den Jahren 2012 bis 2019, Statista

12 M.
Packages per delivery day

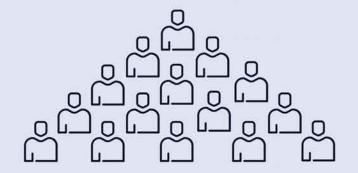
16% Express and

84% Packages

Ausgeliefert – wie die Waren zu den Menschen kommen, Agora Verkehrswend

3,25 Bn.

Number of shipments by courier, express and parcel services (CEP) in Germany



547.300

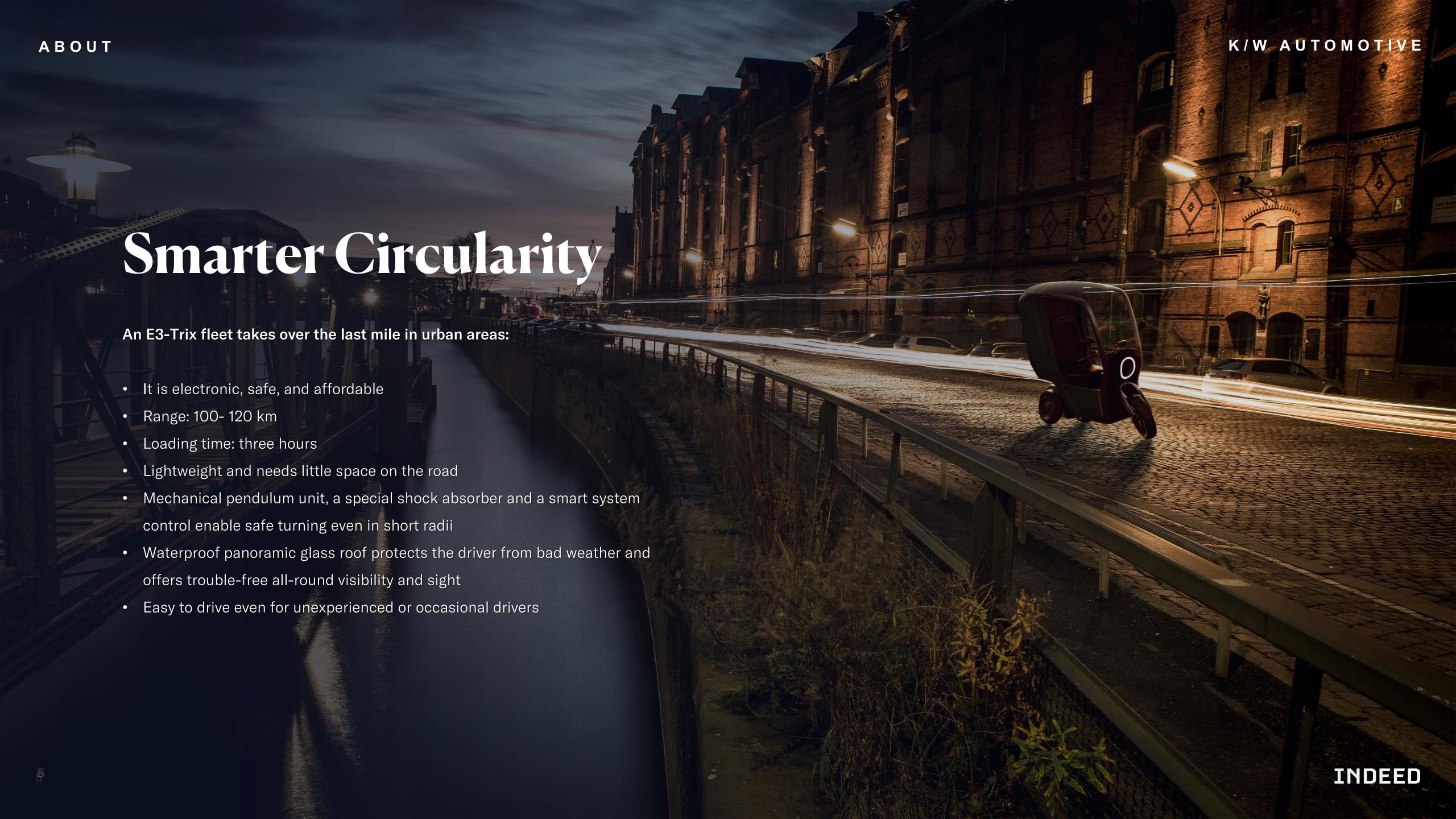
Number of employees in courier, express and parcel services (CEP)



100

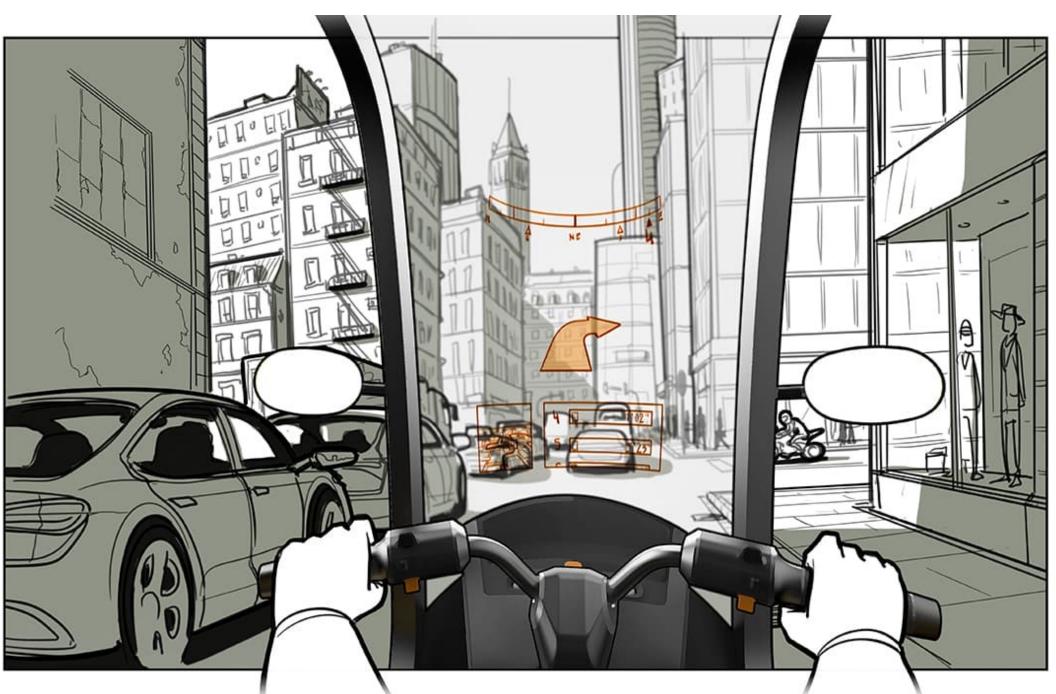
Customers are supplied on one tour

Statistiken zur KEP-Branche, Sarah Keller, Statista

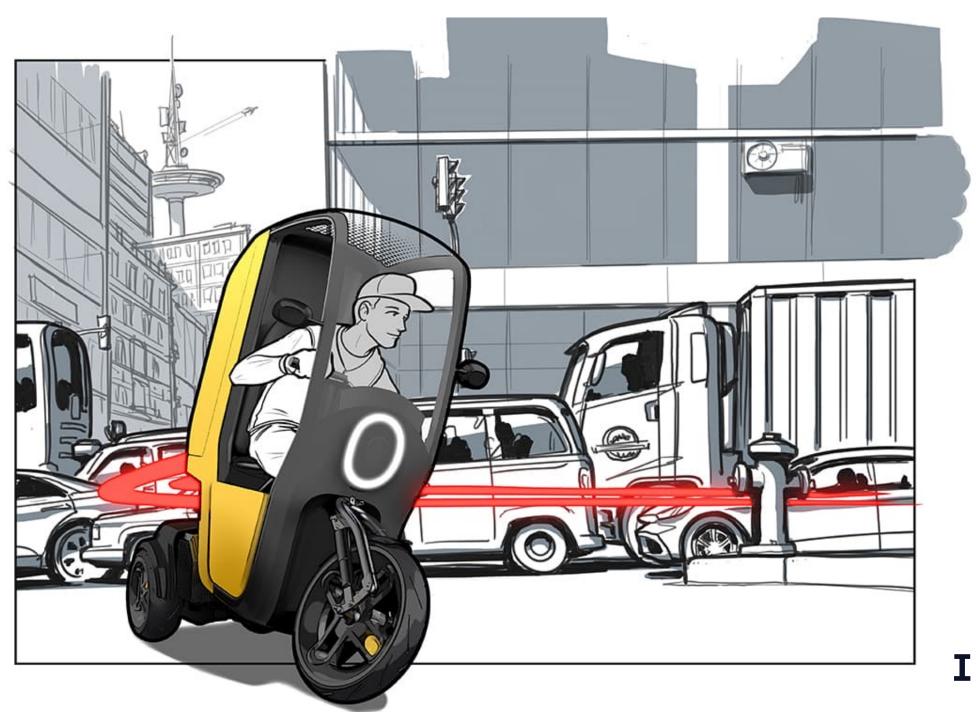


	E-Cargo Bike	E-Trike	E-Delivery Truck
Vehicle weight			1.500 – 4.000 kg
Loading capacity	© 80 – 200 kg	200 - 220	650 kg – 1 ton
Electricity vs fossil fuels	Electricity	Electricity	Electricity
Price	2.200 – 5.000 €	Ca. 3.500 €	30.000 - 47.000 €
Range	80 km	100 – 120 km	80 – 160 km
Speed	∑ 25 – 45 km/h	Max. 60 kmh/h	∑∑∑∑ 85 − 120 km/h
Charging time	2 – 6 hours	3 hours	5 hours











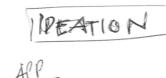


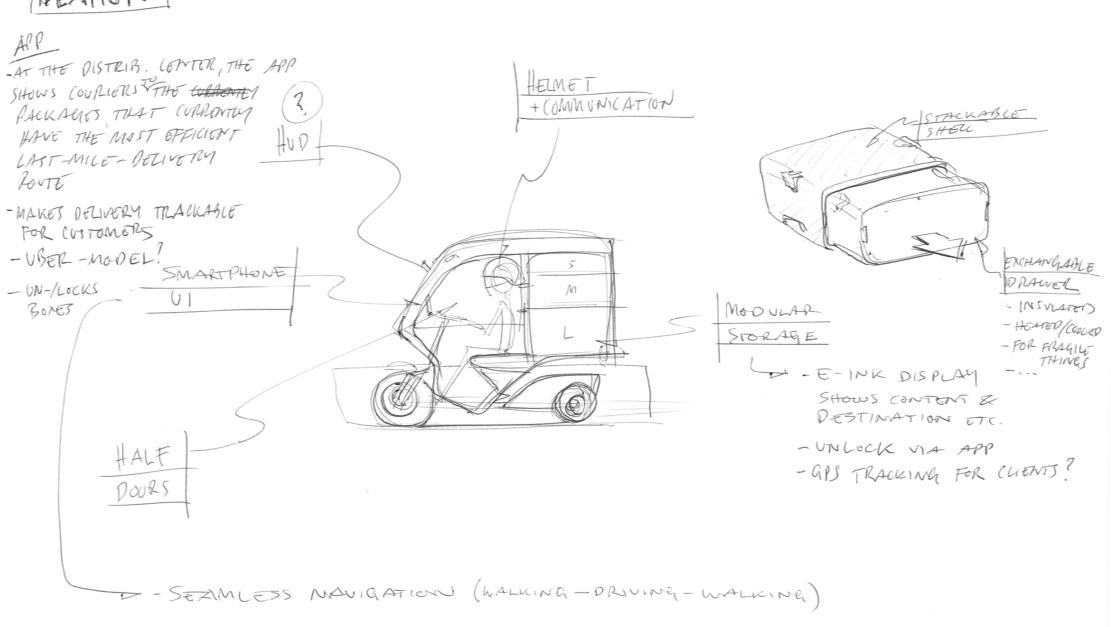
Modular Design for Cross-Industry Use

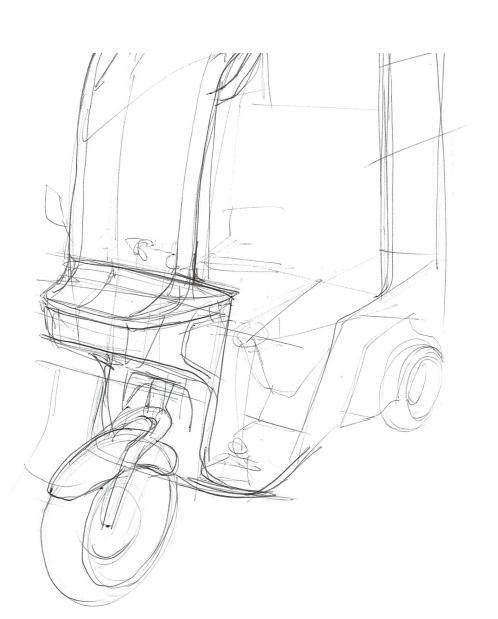
The design is inspired by the historic café racers and today's street fighters and shows genre-typical technical as well as modern elements such as LEDs and displays.

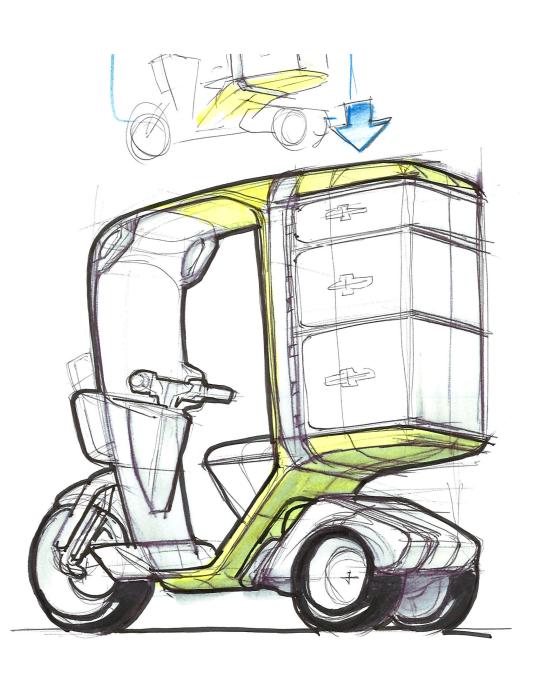
Despite the bare fork, the self-supporting construction provides wide advertising spaces on all modular, individualizable parts.

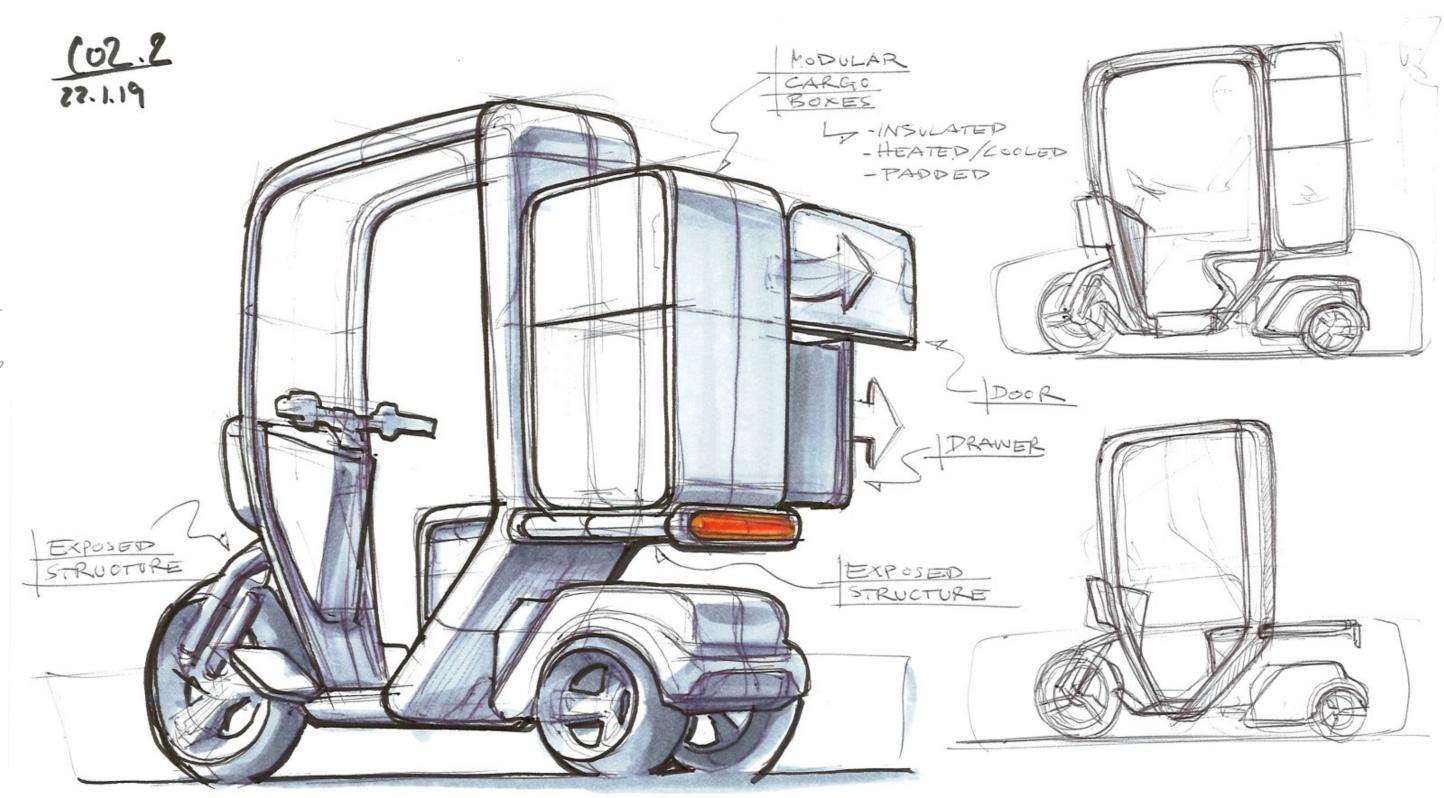
Moreover, the variable design offers sufficient storage space for the transport of even bulky goods and the opportunity to individually equip the versatile storage boxes depending on the goods to be transported. Therefore, it becomes a viable option for SMEs such as craftsmen, pharmacies, care services in addition to local retailers.

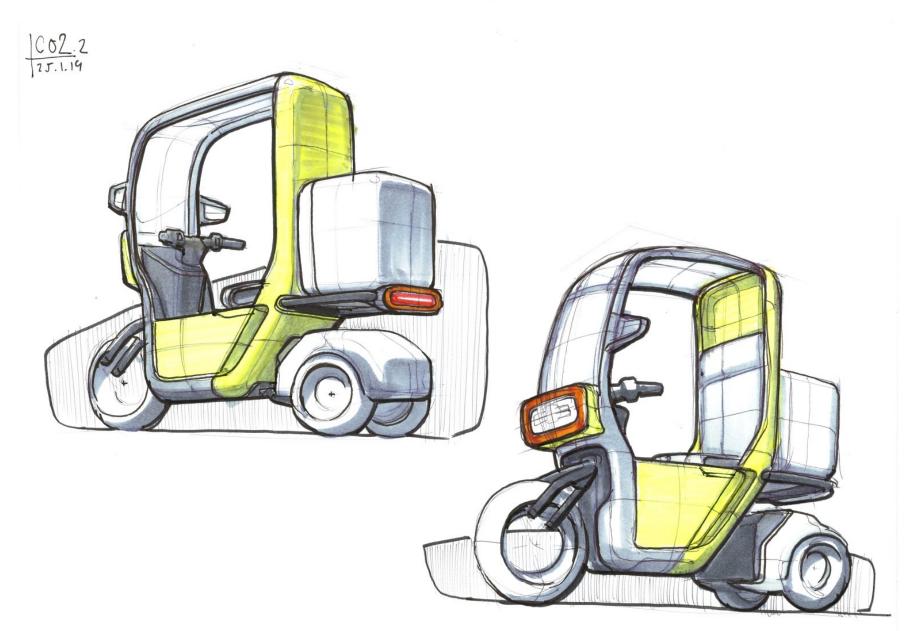












INDEED

IMPACT BOX

PLANET

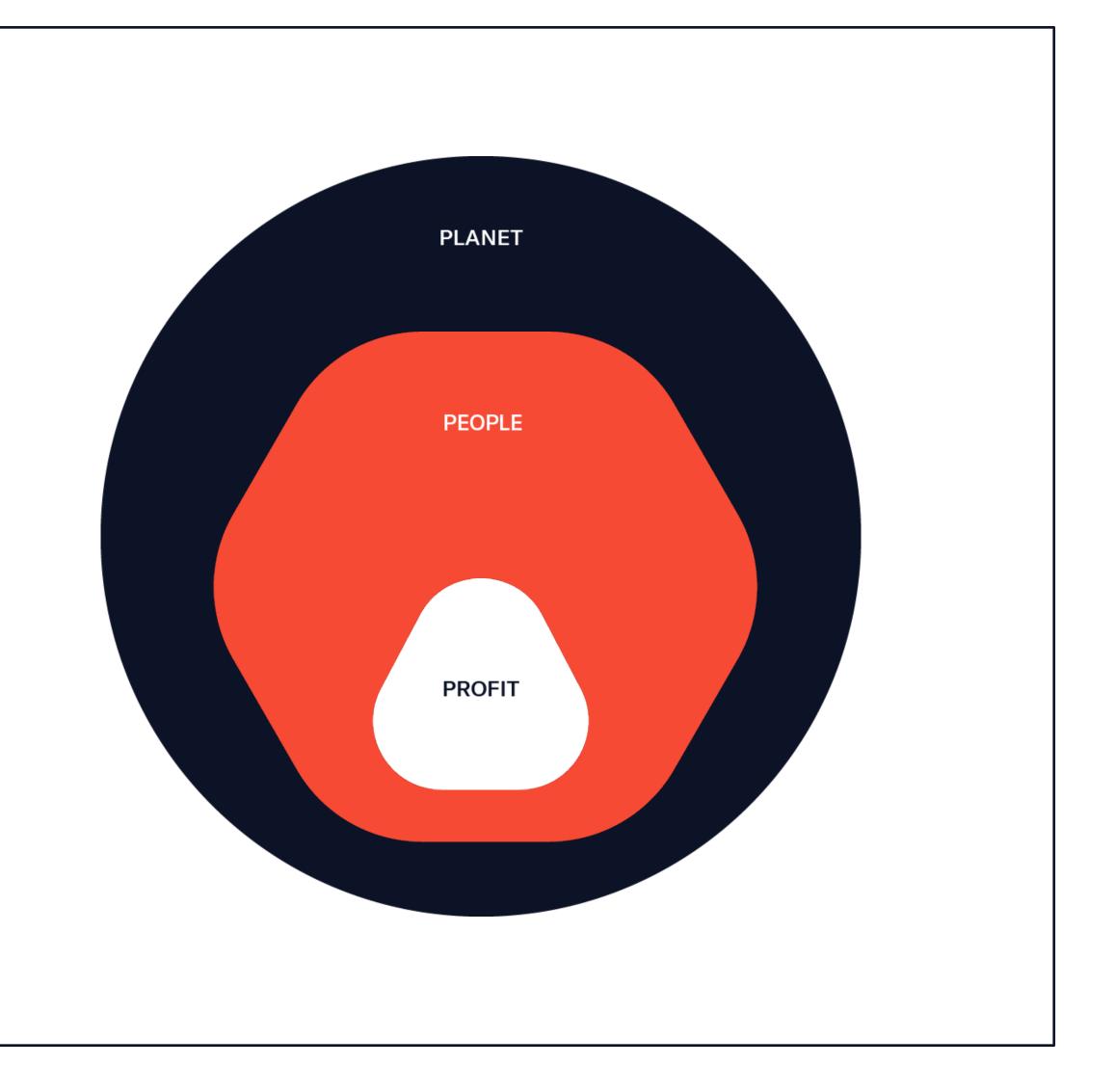
- Preservation of diverse supply and retailer structures in the inner-city area and thus urban quality of life
- Increased tax revenue for cities and municipalities
- Improvement of the quality of stay and traffic situation due to reduced footprint of vehicles
- High traffic safety

PEOPLE

- E-mobility solution reduces pollutant emissions
- No CO2 emissions when sourced from renewable energy sources

PROFIT

- New business models for an expanded customer segment (billing based on electricity consumption/usage time)
- Increase of retailer awareness through an attractive and mobile advertising space on the vehicle
- Maintaining competitiveness through giving small businesses the opportunity of competitive logistics solutions
- More economical solution for retailers: Optimized maintenance costs compared to cars with combustion engines and lower investment costs compared to e-cars



INDEED

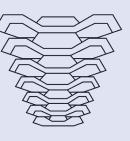
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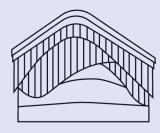
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