



Investor presentation

go-roo.com

roo

Design Innovation Delivered

roo is a unique e-mobility innovation to enable the public to travel safely, efficiently, and carbon-free.

The solution is an entirely new vehicle for urban travel which is super compact, weather protected and can be parked anywhere. It's called **roo**. It not only opens up a revolutionary way to travel around...it's also hugely **fun** to ride!

Welcome to the '**roo**volution'



CO2-FREE



ELECTRIC



WEATHER PROTECTED



HELMET FREE

Design attributes



PATENTED

Worldwide patented technology and design for the smallest vehicle with safety belt



STREET APPROVED

EU street approval according L2e category



SUSTAINABLY PRODUCED

Only sustainable materials are being used within the manufacturing process



SWISS ENGINEERED

Swiss engineering stands for high quality and is globally sought after



ONE-SEAT E-SCOOTER ON 3 WHEELS

| | |
|--------------------------|---|
| DIMENSION | Length 1.45 m Width 0.8 m Height 1.85 |
| POWER | 2 kW / 4 kW |
| BATTERY | 2 kWh / 3.7 kWh |
| SPEED | 45 km/h |
| LUGGAGE | 25kg front 25kg rear (opt) |
| TILTING MECHANISM | Self balancing |

BUSINESS SUMMARY

FOUNDER



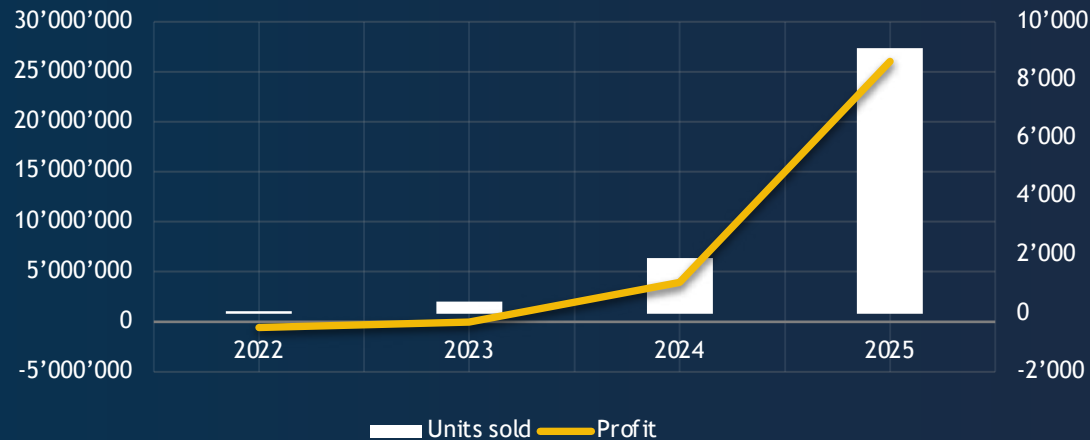
Adrian Burri
Founder & CEO

OFFICE:
Dorfstrasse 18
8608 Bubikon

INVESTMENT OPPORTUNITY



REVENUE



TIMELINE



A close-up photograph of a car's front wheel and tire. The wheel is a dark, multi-spoke alloy. The tire is black with a visible tread pattern. The car is parked on a wooden deck. The text "MARKET DRIVERS" is overlaid in yellow on the left side of the image. The text "roo" is partially visible in white at the bottom right corner.

MARKET DRIVERS

roo

Challenges We Solve For

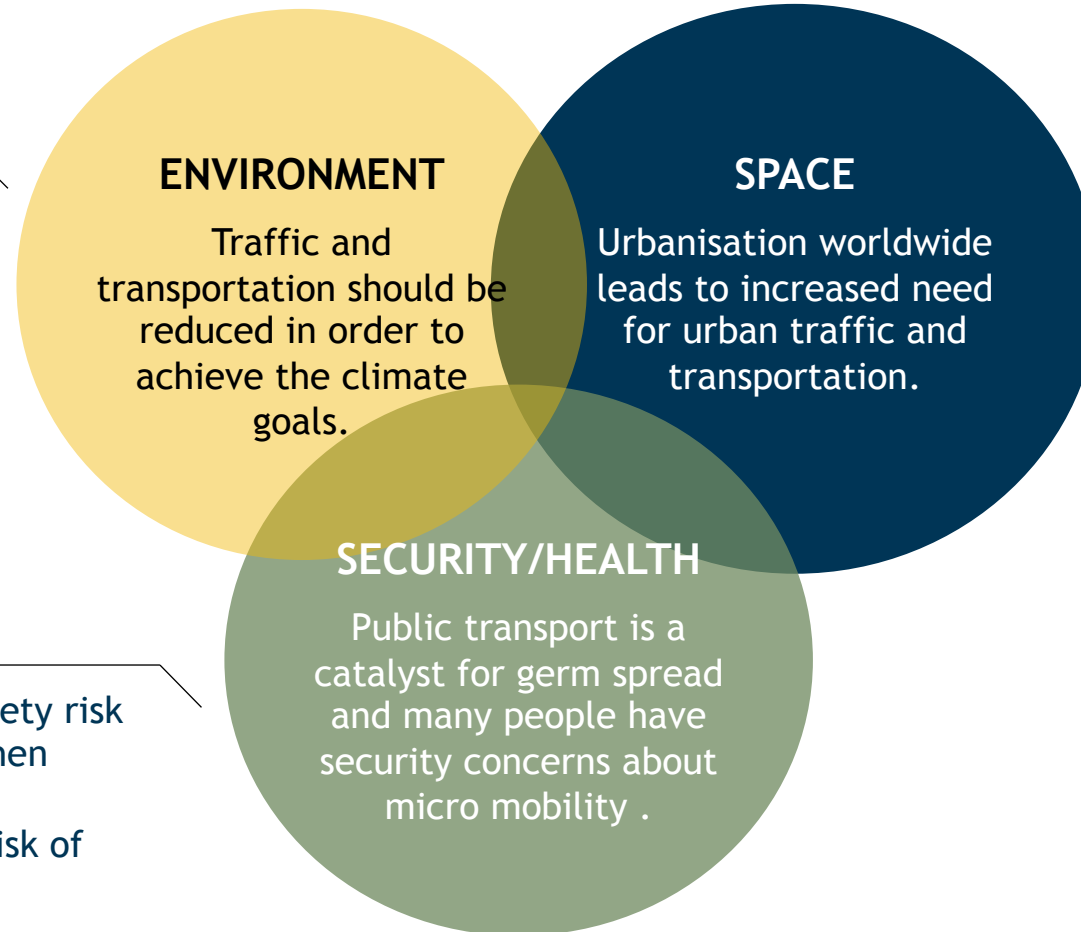
Mobility trade-off

ENVIRONMENT

- Urban passenger transport is an especially significant contributor to CO2 emissions, representing 40% of all passenger transport greenhouse gas emissions and 24% of all transport CO2 emissions ⁵

SECURITY/HEALTH

- E-Scooters pose an increased safety risk also because most people ride them without helmets. ⁶
- Public transport holds a higher risk of germ spread.

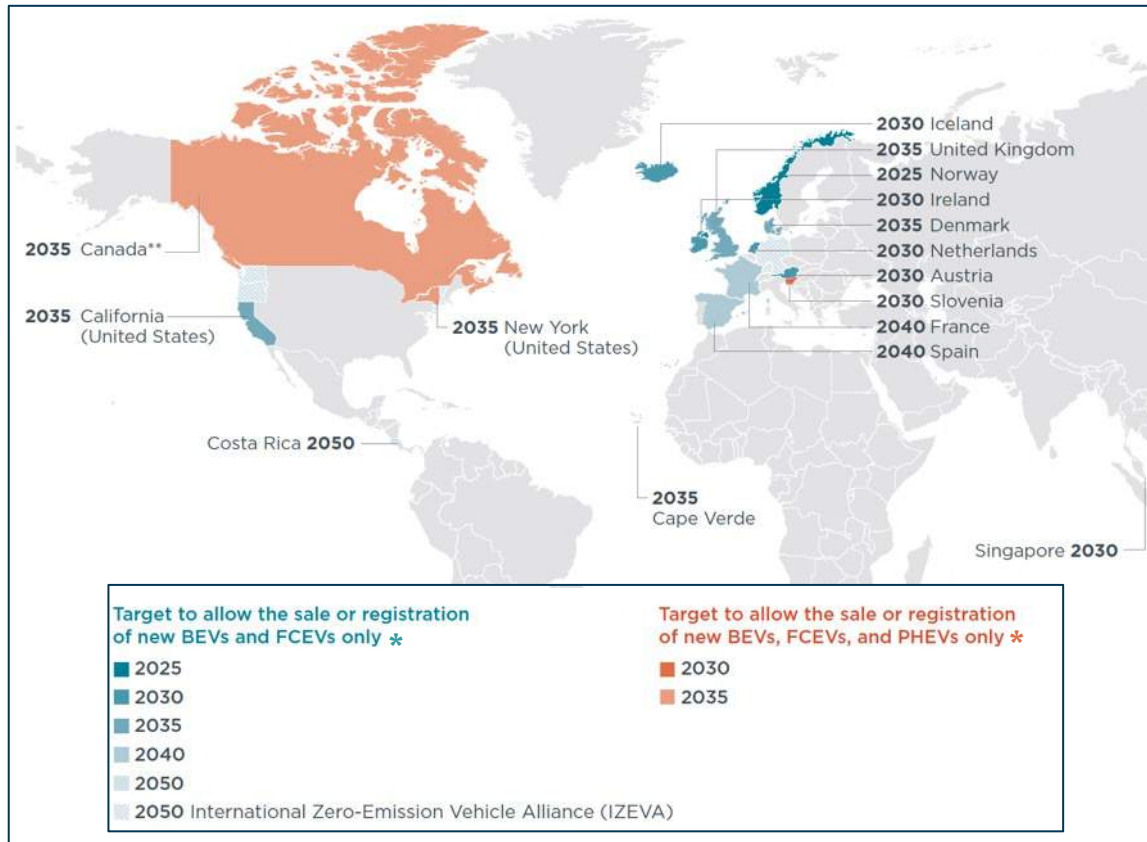


DENSITY / SPACE

Due to urbanisation the world will be facing a huge traffic and space problem:

- By 2050 70% of all humans will be living in metropolitan areas¹
- Urban mobility will double by 2050 compared to 2021²
- Average traffic speed in German urban areas of cars 12 mph³
- Over 40% of all traffic is done individually and by car in developed countries ⁴

Carbon-Free Cities Ahead...



As a response to all the mobility pain points cities are launching different actions.

Reduction of Traffic and CO2 emission (Push Measures):

- Ban of new registrations of combustion engines (see graphic)
 - Limitation of inner-city traveling speed to 30km/h
 - Reduction of parking spaces
- Examples:**
- Bilbao, Brussels and Paris imposed a city-wide speed limit of 30 kph¹
 - In Glasgow, 20 mph zones have reduced pedestrian/car collisions by 31%¹
 - Paris is removing half its car street parking from 140'000 to 70'000 parking spaces²

Investment in alternative mobility (Pull Measures):

- Investments in public transportation to generate access
- Development of innovative mobility schemes (sharing, hailing)
- Investment in new small-format electric vehicles



New modes of transport will be necessary to tackle all the different density, environment and security challenges

SPECIFIC TARGET GROUP DRIVERS



Private User

I hardly find a parking lot in the city anymore.

Travelling by foot, bike, scooter, public transport is a pain when the weather is bad.

Traffic congestion getting worse and worse, I lose so much time when I travel in the city by car.

I lose so much time travelling by public transport with waiting time and transfers by foot.



Public Transport

To achieve the ambitious climate goals, people have to travel by public transport. But the convenience is not high enough because the first and last mile is not covered.

Public transport in urban areas is already at its capacity limit in peak times. Increasing the infrastructure is costly and takes time.



Real estate developer

Our sales reps need more agile mobility solutions in the urban area.

There is no optimal solution to drive around on our big company campus.

We need a solution for our staff to travel quickly between our different offices.

Traffic is increasing in cities and CO2 has to be reduced. We need a new way to travel to solve this dilemma.

Congestion problems and reduced parking space in cities are not solved by EVs.

Investments in public transport infrastructure are very high and the construction phases are long and inconvenient.



Companies

We are more and more forced to reduce parking spaces for housing areas and apartment buildings.

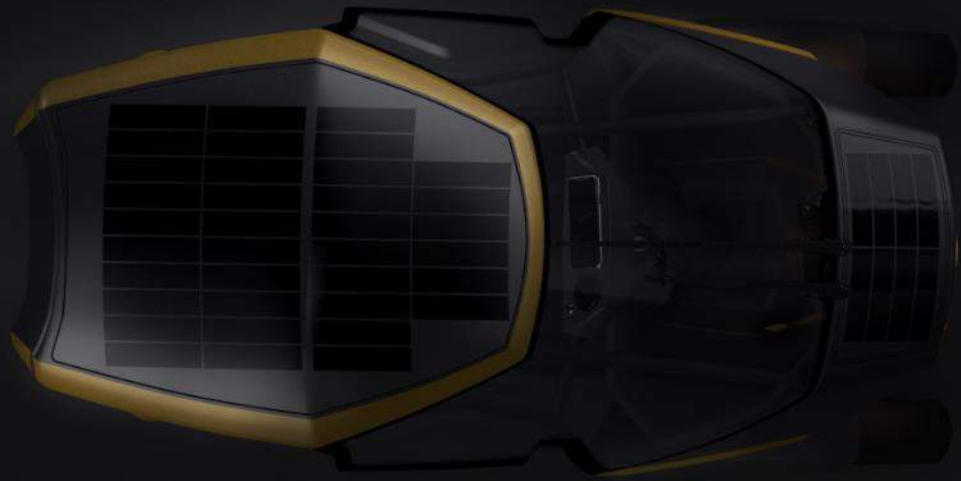
Our tenants don't want to pay a lot of money for a parking space that is empty most of the time.

Our apartments need a good access to public transport (train or bus stations)



Cities

COMPANY



roo

History

2015

- After 15 month of development from a 10 FTE project team, roo* was presented for the first time and shown at fairs in Mailand, Munich and Winterthur

2017

- First investors were found, and the team grew to a headcount of 8

2020

- roo gets street approval

2021/22

- Cooperation with PXP Ventures new brand, new product design

2014

- Research project at ZHAW with the topic "Mobility in 2030: How to get around in 15 years"

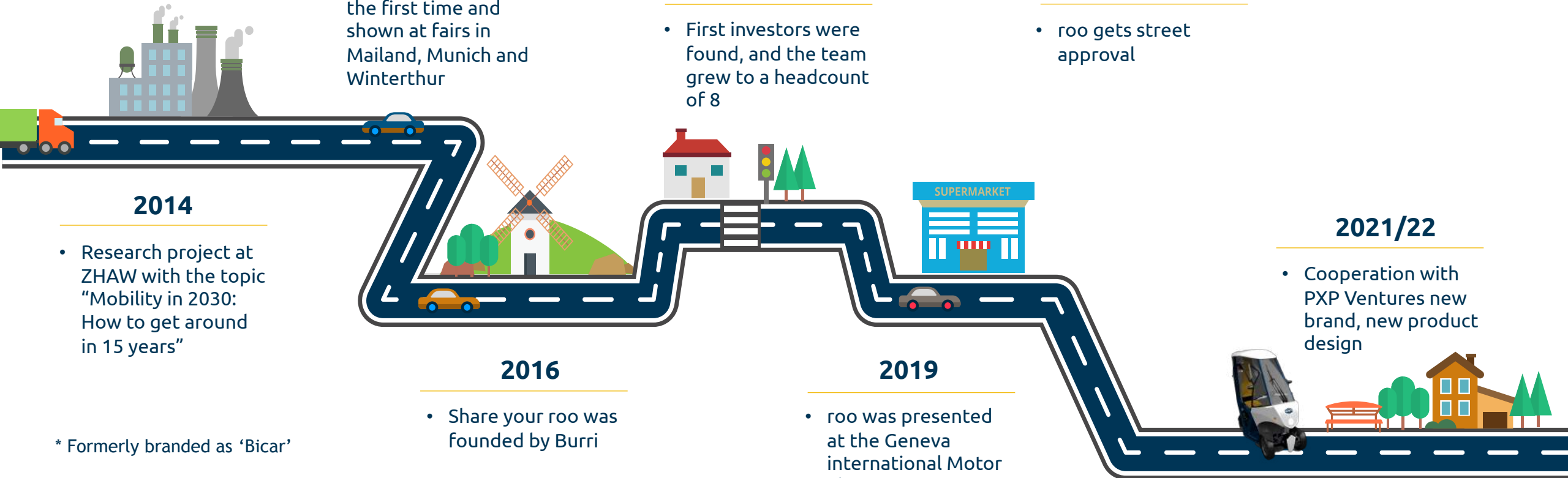
2016

- Share your roo was founded by Burri

2019

- roo was presented at the Geneva international Motor Show
- First test drives were performed

* Formerly branded as 'Bicar'





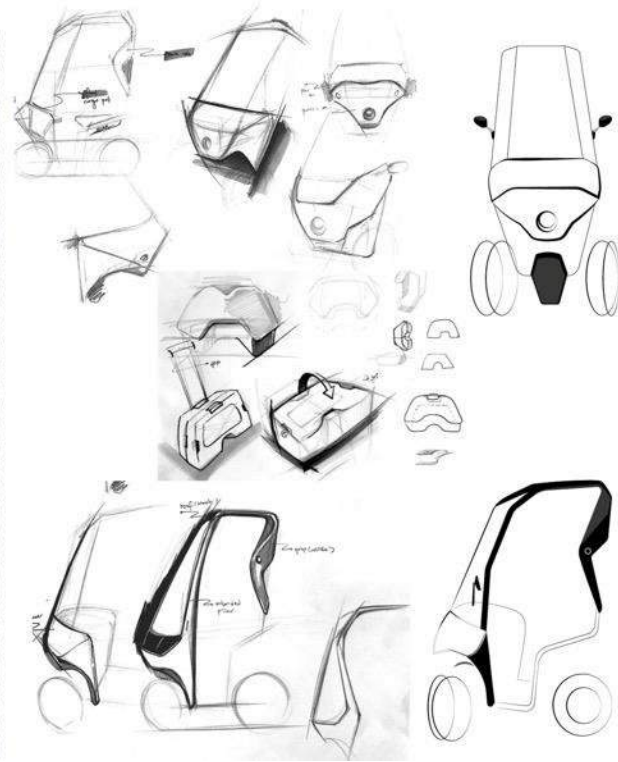
BRAND & PRODUCT DESIGN

road

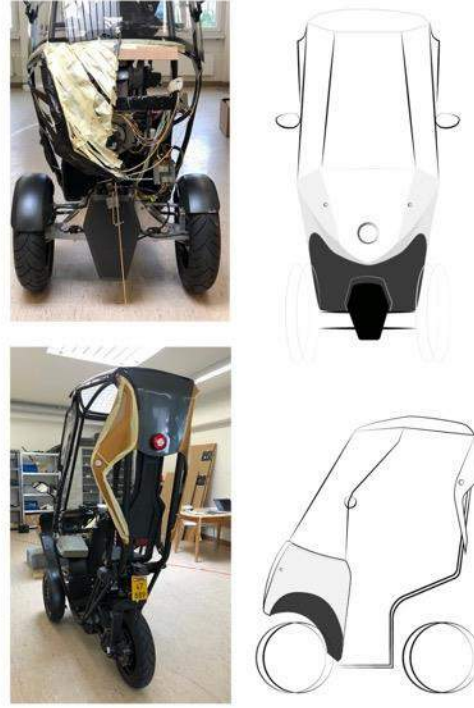
Design Evolution



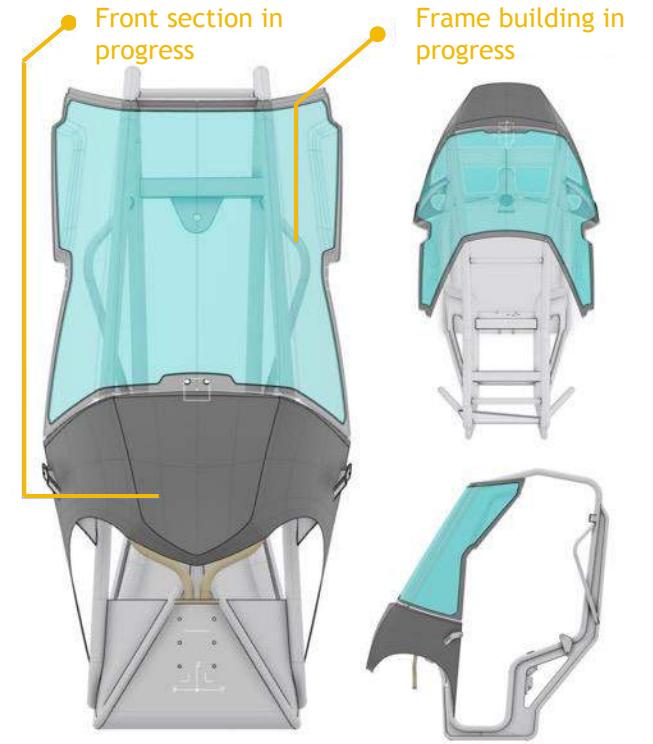
Version 2020



Development 1



Development 2



Development 3 / Sept 21

All new Design



roo



SCALE STRATEGY

road

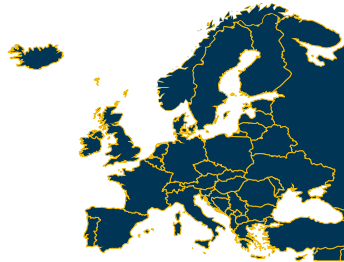
Scale Strategy - Target markets

Our scale strategy is based on first launching a strong proof of concept, which will be based on two projects planned in 2022. For these two projects we have identified 4 use cases with high success potential and 4 regions which we consider highly interesting for a rollout:



SWITZERLAND

- Broad existing network of leads
- High investments in climate goals
- Mature shared mobility market
- Many restrictions in city traffic for cars



EUROPEAN UNION

- High investments in climate goals
- Mature shared mobility market
- Many restrictions in city traffic for cars



USA

- Large user base
- Mature shared mobility market
- Many large cities



INDIA

- Very large user base
- Very dense mega cities
- High percentage of two- and three-wheelers

Scale Strategy - Use Cases

The following 4 use cases have been as identified as high potentials because roo offers a fit and symbiosis that has not existed till today:



COMPANY MOBILITY

roo as a part of a company fleet to cover short commuting in urban zones or on larger company areas. Solves for Scope 3 carbon for companies.



ACCOMODATION MOBILITY

roo as an integrative mobility solution for apartment buildings or housing areas in urban or suburban zones



PUBLIC TRANSPORT (SUPPLEMENT)

roo as a solution in cities or suburbs to cover the last mile which is not covered by public transport or inconvenient



MOBILITY SHARING

roo as an alternative to e-scooters, bikes or cars for existing sharing platforms



B2C SALES

(in a second step) roo will also be delivered to private users as an alternative for a car or a second car

Scale Strategy - Potential Project Partners

At the end of October we contacted all of our 1,500 existing leads to find two partners for two projects with approximately 50 roos each. Currently we are in discussions with the following potential partners:



Currently we are in discussion with voi., a scooter sharing company from Sweden, who have shown interest in running a first project with roo.



Also we are in close contact with a Swiss platform called «drivemycar» which could be a potential software platform partner to deliver a full fledged solution for the accommodation case.



Furthermore we are in discussion with SBB and the city of Winterthur to start a use case of city mobility in Winterthur.

FURTHER INTERESTED PARTIES (EXCERPT)



TOYOTA



Actual Interest (01/2022)

Large global interest, before marketing has started

Global traffic Jan 2022



Performance



151 form submissions on the webpage:

- 30% Private
- 25% Corporate
- 45% misc
- 48 Product pre-reservations

Anthony J James (AJ) • 2.
Innovation und Wachstum des CEO. Klicken Sie auf die Schaltfläche "Folgen"...

roo is an electric solar powered vehicle for urban travel - and it looks like fun!
Who's ready to ride?

IMPRESSIVE THINGS

Urban Fetz und 11.987 weitere Personen
634 Kommentare · 1.199 Shares

Adam Danyal • Followerin
Follow for Tech & Innovation # 1,5M+ followers on LinkedIn
2 Monate · Bearbeitet

Bicar is a 3-wheel electric scooter with solar panels on the rooftop and easily gets you out of traffic jams. (Learn more at <https://lnkd.in/d6Q5TVZZ>)

Credit: shareyourbicar

#adamdanyal #electricscooter #solarscooter #tech #innovation #future

Übersetzung anzeigen

This electric 3-wheel scooter runs on solar power

ADAM DANYAL
TECH & INNOVATION

Share your BICAR

three-wheel electric scooter that's not only super cute,

Joshua Stone und 934 weitere Personen
50 Kommentare · 179 Shares

Potential Buyers



LEGEND

-  = B2C
-  = B2B

AMOUNT

B2C: 1'500 Contacts

B2B: 150 Contacts

Shape the Mobility of Tomorrow With Our **roo**volution

roo might be a small vehicle, but with a large calling:

To change today's mobility to a better, more sustainable and fun way.










































We are therefore not just looking for partners, customers and investors - we are looking for partners in crime to **start a roo**volution of the global mobility. Together we want to start a **global movement** to reduce polluting exhaust gases, awful traffic jams and inconvenient public transport.

Together we want to:

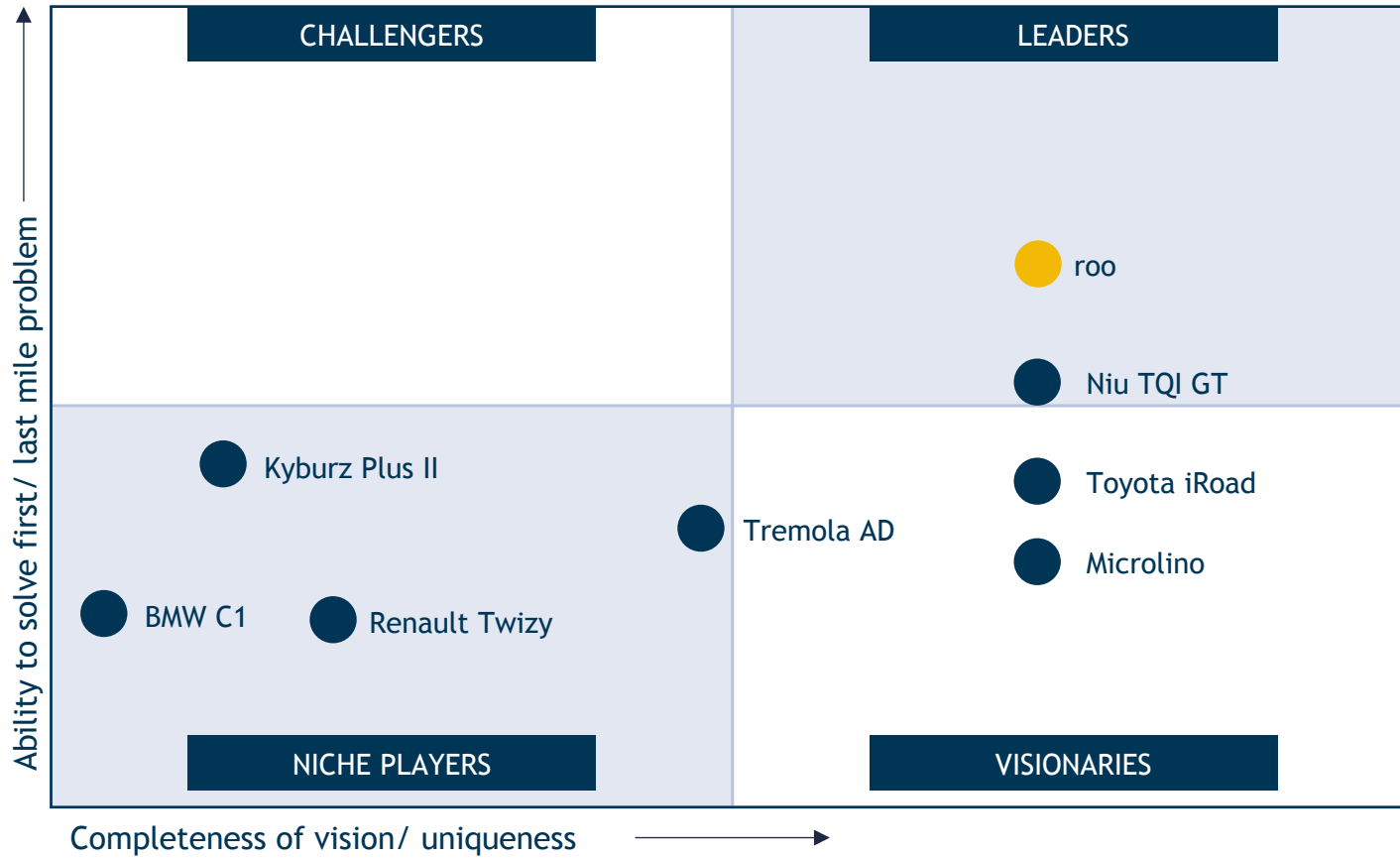
Go roo

roo

Competition

| FEATURES |  |  |  |  |  |  |
|-------------------------|---|---|---|---|---|---|
| Weather protection |  |  |  |  |  |  |
| Easy Parking |  |  |  |  |  |  |
| Total Cost of Ownership |  | - |  |  |  |  |
| Range |  |  |  |  |  |  |
| Convenience |  |  |  |  |  |  |
| Sustainability |  |  |  |  |  |  |

Other Mobility Solutions



BMW C1*



Niu TQI GT



Tremola AD



Toyota iRoad



Microlino



Renault Twizy



Kyburz Plus II



Uniqueness of roo

- Smallest size
- Agility on small space
- No car drivers license needed
- Easy swappable battery
- Solar panels

*combustion engine



An aerial, long-exposure photograph of a complex highway interchange at night. The image is dominated by light trails from vehicles, creating a sense of motion and connectivity. The trails are primarily in shades of white, yellow, and orange, contrasting against the dark blue and black tones of the night sky and the road surfaces. The interchange features multiple levels of overpasses and ramps, with a prominent circular loop on the left side. The overall composition is dynamic and emphasizes infrastructure and transportation.

MARKET POTENTIAL

road

Potential: Company Mobility

Vision

Commercial car registrations make out an essential part of all registered cars - in Europe 63% of all newly registered cars. Especially medium and large companies in urban and suburban areas have a need for small and agile vehicles to travel between their subsidiaries or to clients or for their employees to travel through the city area. Furthermore, roo represents the perfect solution to drive inside a company yard or on a campus.



Potential

Potential EU and USA = 11 mio.
Cars p.a. for company fleets. 0.5% could be replaced by roo by 2030.
55'000 units.



Market

In a first step we would focus on the US and EU market for corporate fleet solutions, as the markets are well accessible and mature. Newly registered corporate fleet cars 2021 in EU = 6 mio and USA = 5 mio.

Potential: Mobility Sharing

Vision

The Mobility Sharing market is a major pillar to meet the urban climate goals and the increasing mobility needs in urban areas. It will complement the public transport and cover the first / last mile problematic and is therefore a segment with a very high potential.

Roo offers micro mobility sharing providers the key to new (yet not accessible) user groups - seniors, security seeking, mid distance (2 - 15 km) - and to yet not profitable cities - high precipitation, low density.



Potential

Therefore we expect a potential of **20'000 to 50'000 units** in 2030 sales to mobility sharing providers*.



*- 2-5% of micro mobility volume (97k)
- 0.2 - 0.6% of rental cars volume (7.5mio.)

Market

The mobility sharing market is growing globally by 3.6% (7.3 mio. units), hereby especially the micro mobility segment has a high growth rate of 15% - 19% (0.1 mio units).

Roo can be part of the micro mobility sharing market growth and add further growth potential to the projections. And complement the car fleets of car sharing providers.



Potential analysis: Public Transport

Vision

Public transport is the major solution to achieve the urban climate goals concerning traffic. As public transport makes out only **17.2% of all urban traffic** which will more than double by 2050, it will not be possible to cover the traffic increase. Furthermore, public transport needs heavy investments in infrastructure and long planning and building periods.

Therefore, complementary solutions to complement and relieve public transport infrastructure are urgently needed. Especially solutions to cover first/last mile coverage to the main axis of public transport ways.



Potential

If we assume that a shared vehicle makes 20'000 km per year we would need roughly 40 mio. Vehicles to cover first and last miles.

Therefore we expect a potential of **40'000 units in 2030***.



** 0.1% of the market volume*



Market

Urban traffic will reach 30'000 billion person kilometers by 2030. 5160 bil pkm will be done by public transport. We assume, that first / last miles make out about 15% hereof = 774 bil pkm.

Potential: Accomodation Mobility

Vision

Same as in the public transport case, this case has the goal to complement and relieve public transport infrastructure. As an integrated shared mobility solution in apartment buildings (integrated in rent), housing areas (closed user platform) or even in whole quarters or suburbs. This use case covers specifically **only mile travels**, where public transport is inconvenient due to first / last mile or waiting time, and are today mostly made via car, bike or foot.



Potential

If we assume that a shared vehicle makes 20'000 km per year we would need roughly 310 mio. vehicles. Therefore we expect a potential of **30'000 units in 2030***.



** 0.01% of the market volume*

Market

Urban traffic will reach 30'000 billion person kilometers by 2030. Our estimation is that only mile travels (all the traffic which is covered solely by private transportation - car, bike, foot, micro mob.) make out around 25% of all traffic not made via public transport = 24'840 bil. Pkm * 25% = **6'210b bil. pkm**



Potential: B2C Direct Sales

Vision

After a successful rollout in the b2b segments, a b2c rollout in a direct sales model or via intermediates will be planned.
Roo represents the perfect substitution of a car or motorcycle or the perfect supplement to an already owned car (instead of a second one) in urban and suburban areas.



Potential

By 2050 0.1% of the market could be owned by roo.

100'000 units

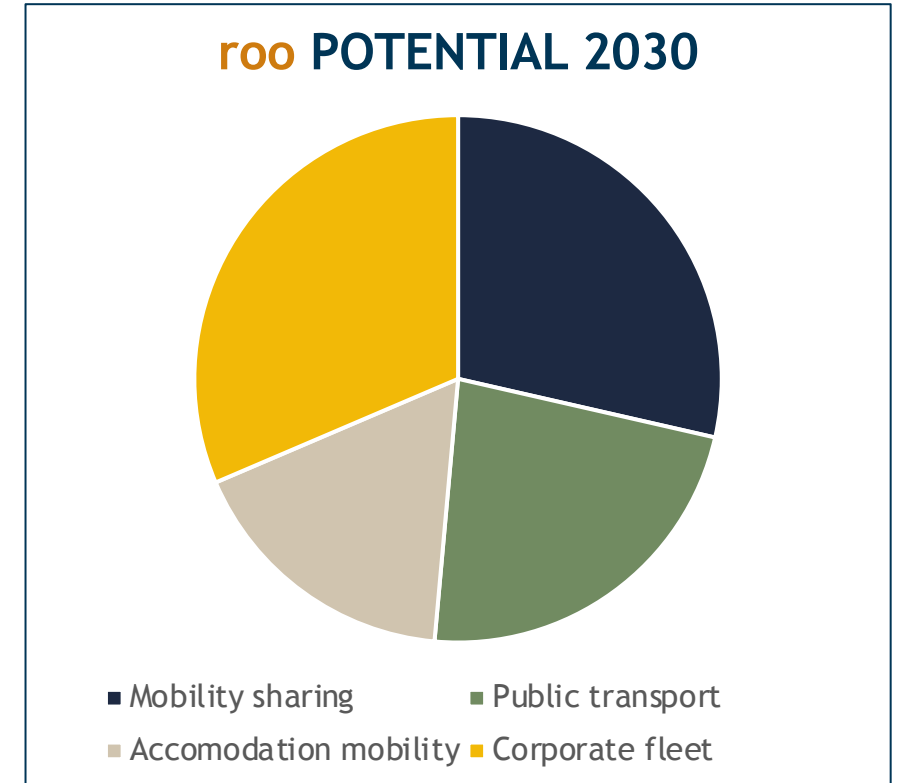


Market

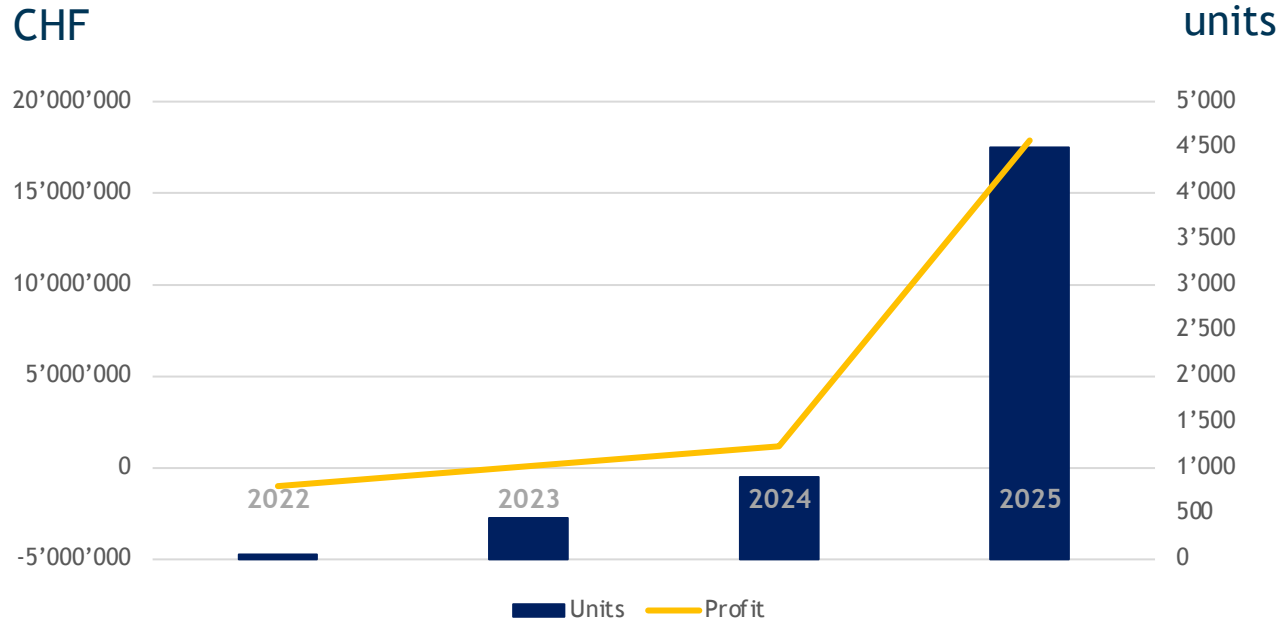
Worldwide 100 mio. Cars and motorcycles are sold per year.

Potential Market Opportunities: Summary

| Case | Market Share | Roo potential 2030 (units) |
|--------------------------------------|---|----------------------------|
| Mobility sharing | <i>2-5% of micro mobility volume (97k) 0.2 - 0.6% of rental cars volume (7.5mio.)</i> | 20'000 - 50'000 |
| Public transport | 0.1% | 40'000 |
| Accomodation mobility | 0.01% | 30'000 |
| Corporate fleet | 0.5% | 55'000 |
| TOTAL (without private sales) | | 145'000 - 175'000 |
| Private sales | 0.1% (by 2050) | 100'000 |



Business Plan



BACKGROUND

Main purpose: Vehicle sales

2022/23: CHF 10'000 (Unit price)
2024/25: CHF 7'000 (Unit price)

Relative costs:

- Labor increasing
- Marketing increasing
- Production costs decreasing

| Units sold per market | | | | |
|-----------------------|-----|-----|------|--|
| <i>Pilots</i> | 50 | | | |
| <i>CH</i> | 150 | 200 | 300 | |
| <i>EU</i> | 200 | 300 | 1700 | |
| <i>US</i> | 100 | 400 | 2000 | |
| <i>IND</i> | 0 | 0 | 500 | |

2022: 2 Projects

2023: Market entry CH, EU with company and city mobility cases and US with a mobility sharing partner.

2024: Expansion in CH, EU, US and market entry IND with a car sharing partner and company mobility cases.

2025: Expansion and launch of B2C sales.



INVESTMENT OPPORTUNITY

roo

Investment Roadmap

We need an investment of CHF 1.5 Mio. in 2022, to produce 100 vehicles. These 100 vehicles will be offered to project partners for free, to realize two lighthouse projects either in USA, UK, EU or CH.



8.2022: CHF 1.5 Mio.
Seed

Production of 2 fleets with 50 vehicles each for 2 lighthouse projects.

Expand team and prepare market roll-out.

2023/24: CHF 7-10 Mio. Series A

Market Entry USA, EU, IND:

- Roll out mass production
- Build-up core team
- Increase Marketing & Sales

2025: Series B or Exit

Scale worldwide and enter B2C direct delivery:

- E-Commerce
- Regional subsidiaries or Partnerships

Seed Investment

Shape the future of mobility with us and be part of this unique opportunity to change the world for the good.



Roo is a product of *Share your BICAR AG* - a public limited company based in Switzerland.

Cap Table

| Shareholders | Number of shareholders | % of shares |
|---------------------|------------------------------------|-------------|
| Founders | 4 private persons | 74% |
| Seed investors | 3 private persons 1 association | 10% |
| Corporate Investors | 2 corporations | 11% |
| Employees | ESOP | 5% |

Impact Investment

Summary

- The CHF 1.5 mio. investment capital will be used to **finance the first two projects** with 50 vehicles each in 2022
- The learnings and results of the projects will be used as a **proof of concept** and to raise awareness
- After the projects the **full market launch** will be prepared in **2023/24** in two major markets, depending on the result of the projects
- An **exit or a larger investment round** is planned in 2024/25

As an investor you participate not only on the development of a company with ambitious goals in a market with great potential, but you have also the chance to shape the future of the world in a good way.

Join the **roo**volution

and shape the **future of mobility** with us.

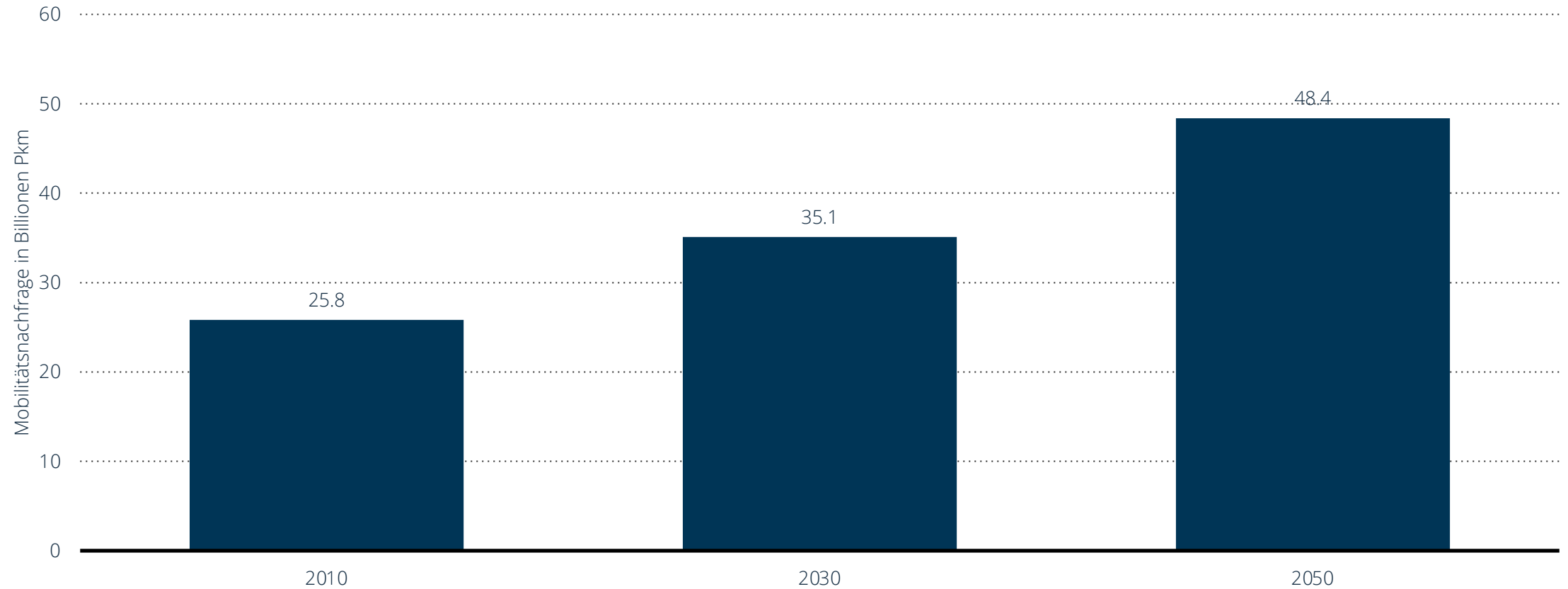


Go future

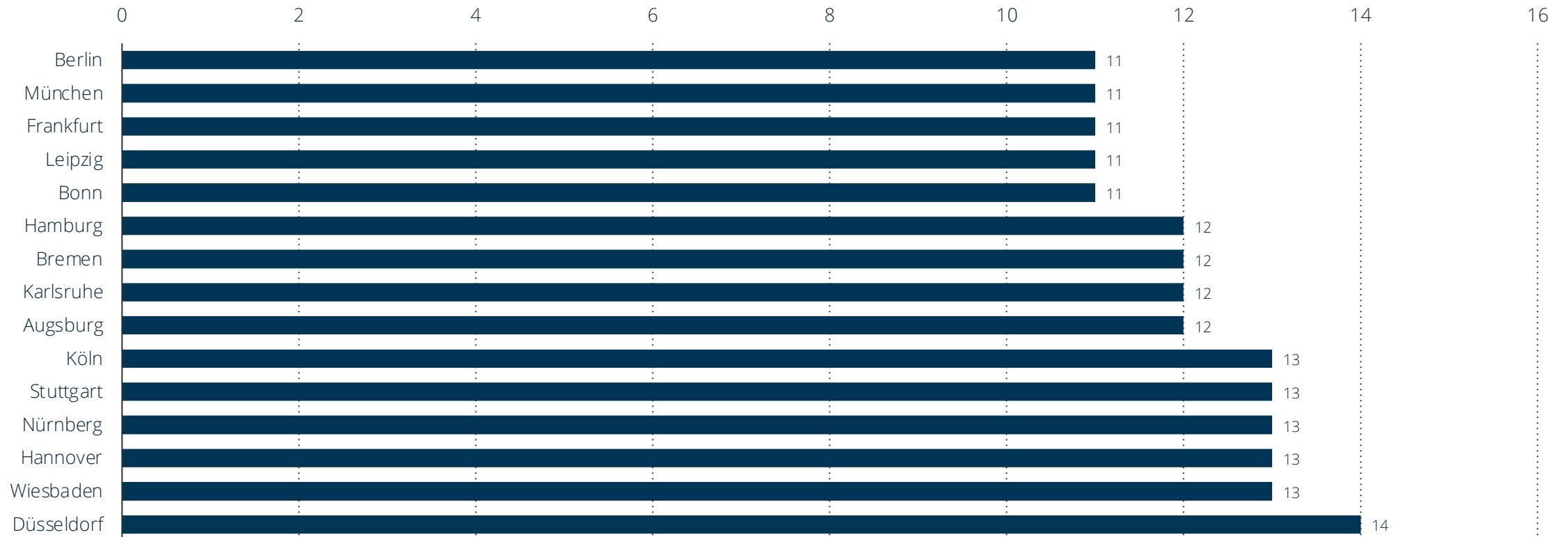
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Annex: General statistics

Graph 1: Urban Mobility *(in billion Person-KM)*

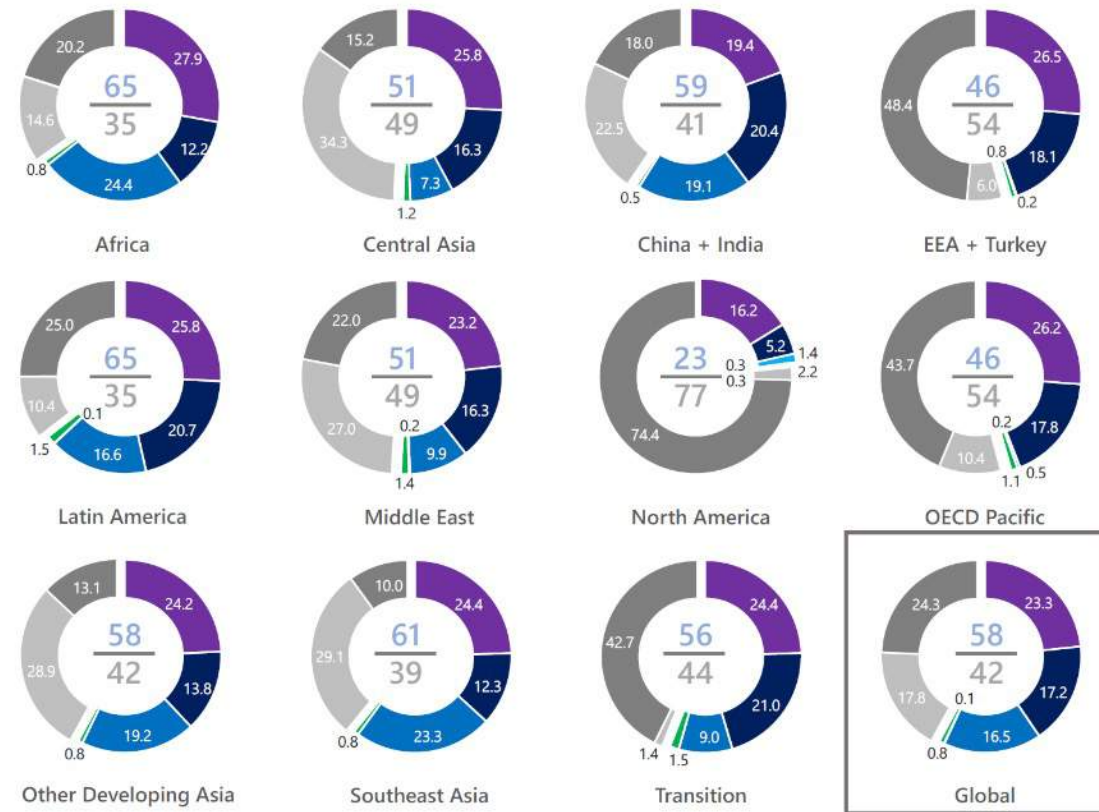


Graph 2: Average car speed in cities (mph)



Graph 3: Urban trip mode share worldwide

Figure 2. Urban trip mode share by world region in 2015 (percentage of urban trips)



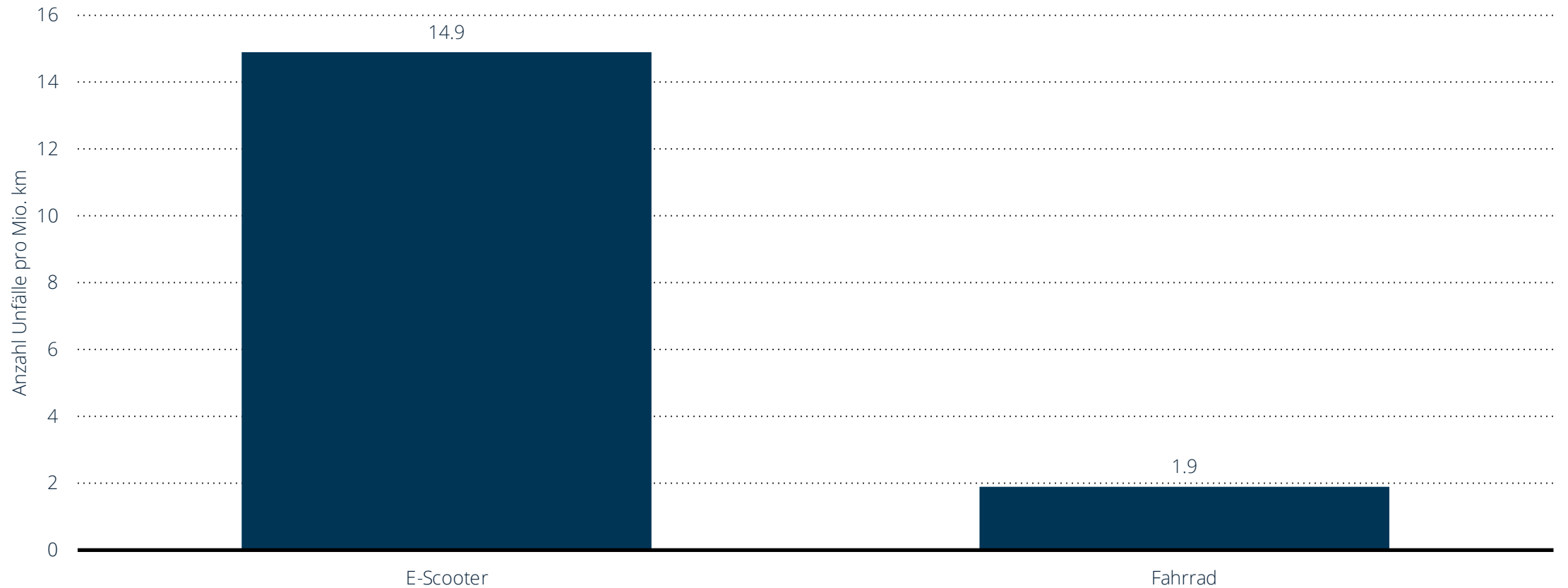
Source: ITF: The innovative mobility landscape.

Collective/active (%) Individual (%)

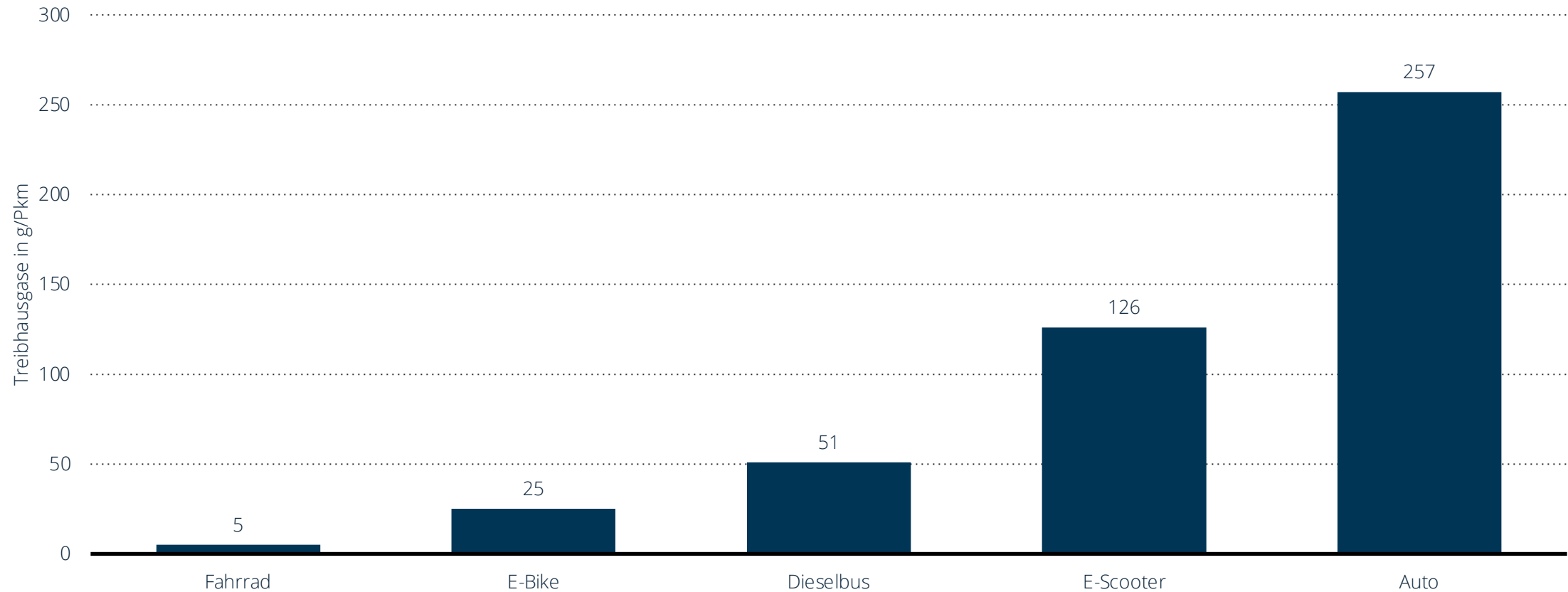
- Active/Micromobility
- Public Transport
- Informal Transport
- Shared Vehicle
- Taxi
- Other Shared Mobility
- Private motorised 2-wheelers
- Private cars



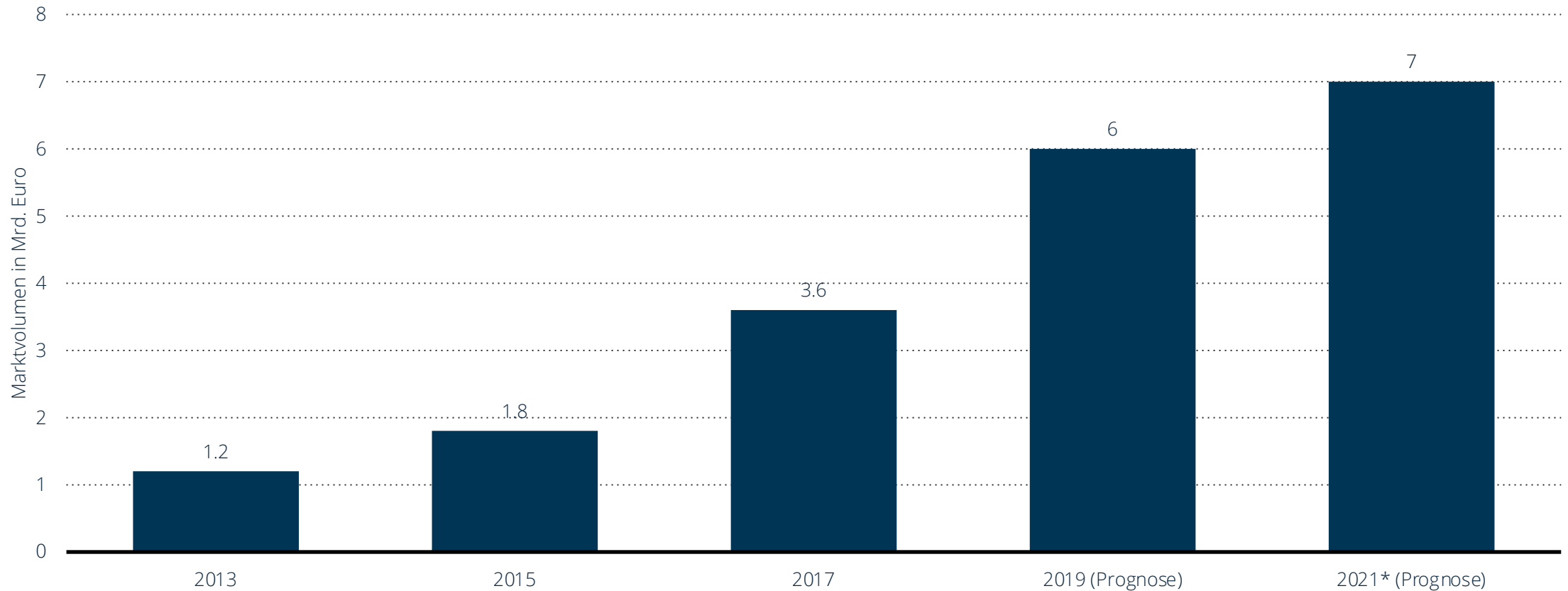
Graph 4: Accident propability of e-scooter and bicycle in Munich 2019



Graph 5: CO2-emissions of e-scootern in comparison with other vehicles USA



Weltweites Marktvolumen von Bike Sharing-Diensten bis 2021



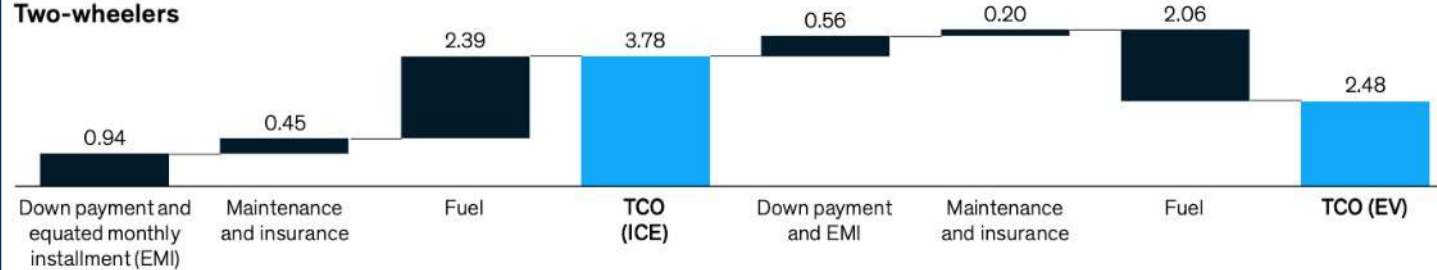
Benefits of EV's

Small-format e-mobility offers significant cost advantages over internal combustion engine (ICE) vehicles.

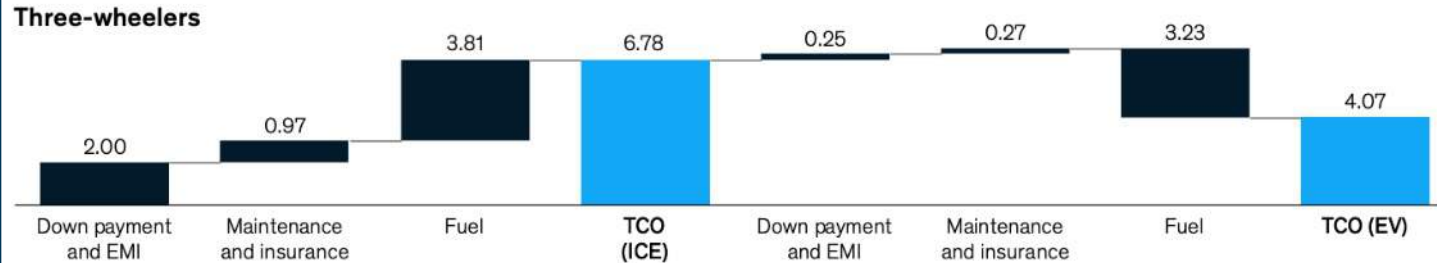
Total cost of ownership (TCO) comparison of electric vehicles (EVs) versus ICE vehicles¹

Cost per 100 km (USD)

Two-wheelers



Three-wheelers



¹ Assumptions: Life of vehicle = 7 years; debt share = 70%; loan tenure = 4 yrs for 2Ws, 5 yrs for 3Ws; daily distance = 60 to 75 km for 2Ws, 125 to 150 km for 3Ws; mileage = 40 km for 2W EVs, 45 km for petrol 2Ws, 17 km for 3W EVs, 30 km for diesel 3Ws.

Source: Expert interviews; McKinsey analysis



TCO ADVANTAGE OF EV's

A study by McKinsey & Company has shown that the TCO of two-wheeler electric vehicles (EV) is

34% less

than of vehicles with a combustion engine (ICE) and the difference is even larger when comparing three-wheeler EV's with ICE's:

40% less TCO



Annex: Use cases

Mobility sharing

Sharing Market

- 1.5x from 2016 to 2026
- Annual growth rates of more than 3.6%
- Total rental cars worldwide 2025 = 7.5 mio.

Micro Mobility Sharing Schemes

- EU & US kick scooters: 150'000 (by 2020)
- Growth rate of kick scooter sharing : 15% p.a.
- Lifespan of e-scooters: 12 - 24 months

= Growth + Renewal = Total annual kick scooter sales

= (150'000 * 15%) + (150'000 * 0.5) = **97'500 units p.a.**

Shared mobility is available¹ regardless of the distance that needs to be covered

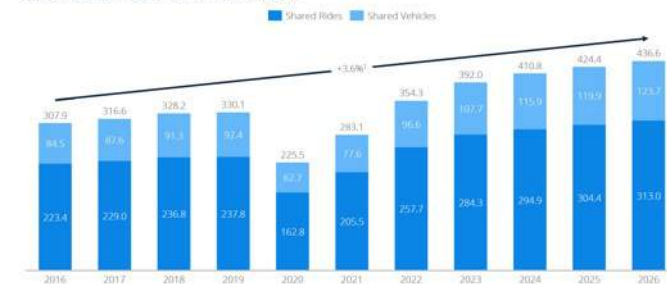
Deep dives: shared mobility (2/2)



The global Shared Mobility revenue is expected to increase to US\$436.6 billion by 2026

Shared Mobility: revenue

Shared Mobility revenues worldwide in billion US\$



¹ CAGR: Compound Annual Growth Rate / average growth rate per year
Source: Statista Mobility Market Outlook 2021

Mobility sharing

E-Scooter Sharing Schemes (statista)

- Revenue in the E-Scooter-sharing segment is projected to reach US\$1,344m in 2021.
- Revenue is expected to show an annual growth rate (CAGR 2021-2025) of 18.13%, resulting in a projected market volume of US\$2,617m by 2025.
- In the E-Scooter-sharing segment, the number of users is expected to amount to 115.6m users by 2025.
- User penetration is 0.9% in 2021 and is expected to hit 1.5% by 2025.
- The average revenue per user (ARPU) is expected to amount to US\$20.91.
- In the E-Scooter-sharing segment, 100% of total revenue will be generated through online sales by 2025.
- In global comparison, most revenue will be generated in the United States (US\$540m in 2021).

Public transport / Housing areas

Increase in City Mobility of about 70% until 2050 (48.4 bil. Pkm)

- 51% of global urban pkm travelled in 2015 were driven by private vehicles, only 17.2% in public transport.
- Average daily urban travel distance 14km
- In 2030 about 1/6 of 30'000 bil. pkm will be made by public transport. Hence, 25'000 bil. pkm will still be made either via shared or private.

-> As innercity traffic will be reduced with political push measures, public transport will be facing a huge challenge concerning capacity and density of it's services.

- To partly solve this problem a seamless and comfortable first/last mile solution to supplement public transport has a very high market potential.

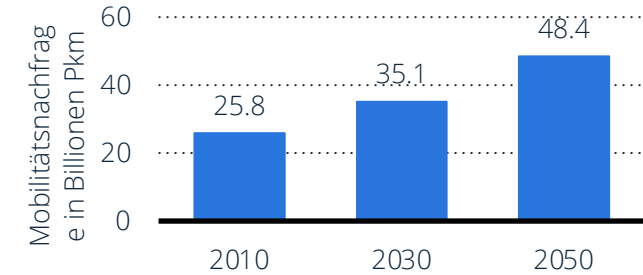
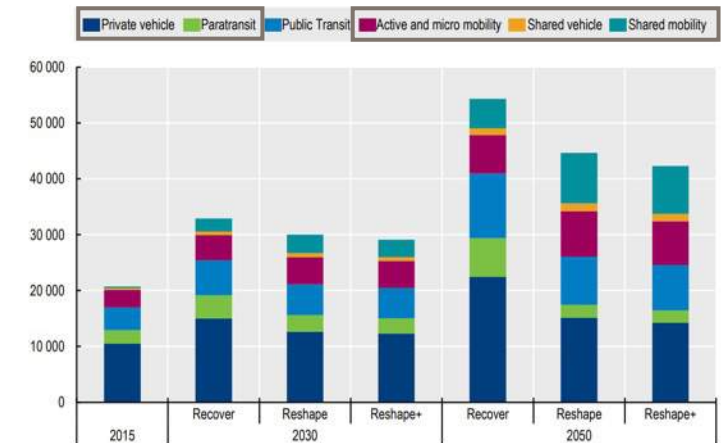


Figure 4. Demand for urban passenger transport, by mode
Billion passenger-kilometres



Note: Note: Active and micromobility includes walking, biking, scooter sharing, and bike sharing. Public transport includes PT rail, metro, bus, LRT, and BRT. Paratransit includes informal buses and PT three-wheeler. Shared vehicle includes motorcycle and car sharing. Private Vehicle includes motorcycles and cars. Shared mobility includes taxis, ride sharing, and taxi buses.

Corporate fleet

Corporate Fleet

New Registrations

- **EU:** Company fleet = 6 mio. car registrations in 2021 (new)
- **USA:** Estimation: 5 mio. Cars (total car sales 16 mio.)

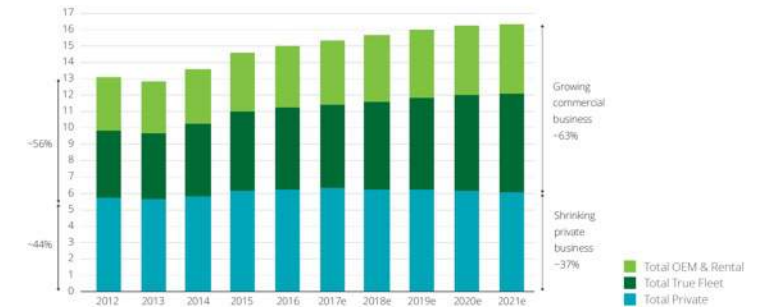
Registered Company Cars

- **DE:** 5.1 mio. cars with commercial holder (licenced)
- **US:** 8.2 mio. cars in company car fleets (licenced in 2020)



Source: Deloitte analysis, Dataforce (2016), I MC (2016)

Fig. 3 - New car registrations in Europe (EU16) in millions



Source: Deloitte analysis, Dataforce (2016), I MC (2016)



Potential analysis: Personal use

Personal Use

- New person car registrations worldwide: 63 Mio. (2020)
- Asia: 30 Mio.
- EU: 14 Mio.
- USA: 13 Mio.
- Rest: 5 Mio.
- New cars sales (commercial cars excl.) 54 Mio. (2020)
- Motorcycles >50 cc 47.2 mio. Units sold 2020
- EU: 1.4 Mio.
- USA: 3.4 Mio.
- Asia: 40.3 Mio.
- Africa: 2 Mio.
- Scooters > 50cc 17.1 Mio. worldwide