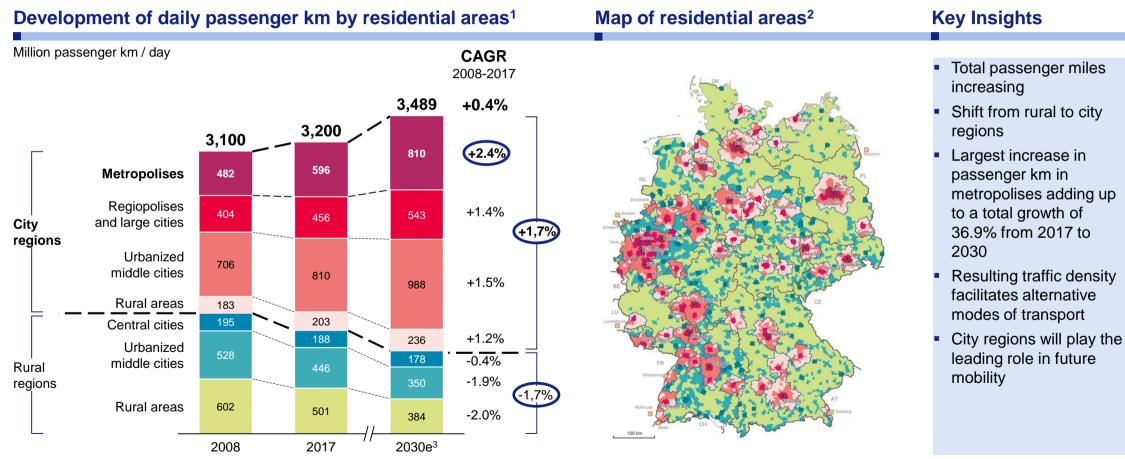
Traffic volume and level of urbanization in Germany

Passenger km have increased and will increase further in city regions, esp. metropolises



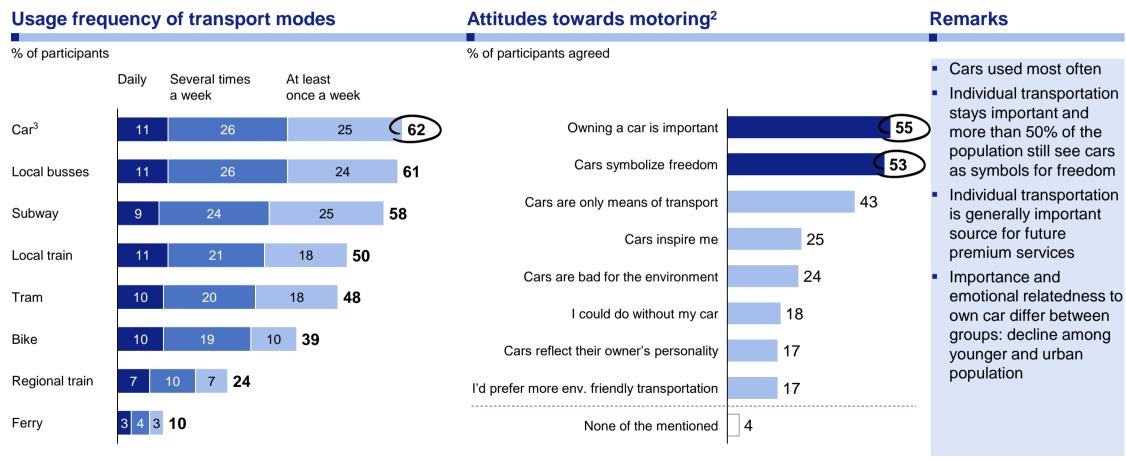
¹⁾ Based on a survey with 316,361 participants in Germany in the period from May 2016 to September 2017, taking into account all modes of transport 2) see BBSR 2018

³⁾ Development under the assumption of a constant annual growth rate

Source: Infas & DLR "Mobilität in Deutschland" 2018. BBSR "Regionalstatistische Raumtypen" 2018. mm customer strategy

Usage frequency of transport modes and attitudes towards motoring

Cars, local busses and subways are used most frequently in Germany's biggest cities; in general, Germans are still very car-affine, but attitudes are changing over time in society

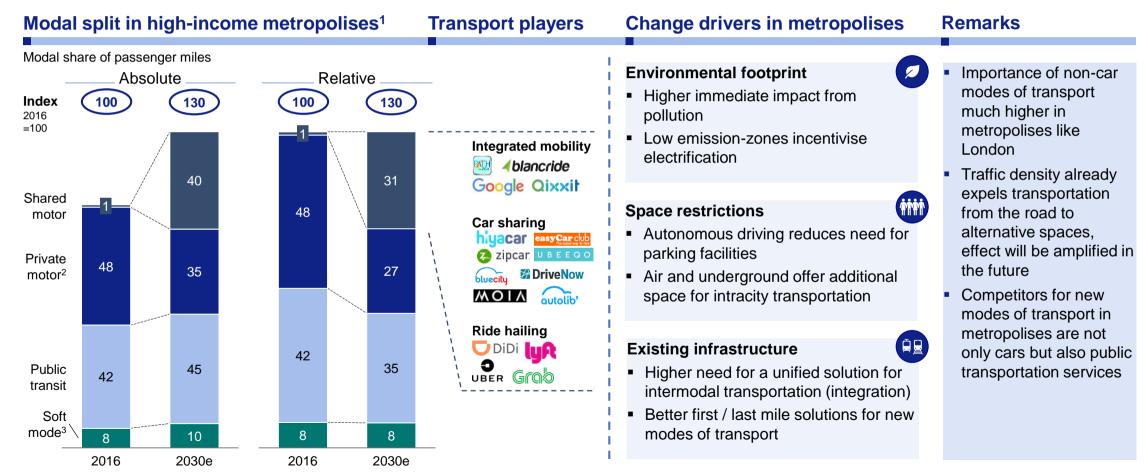


¹⁾ Based on a survey with 2,106 participants, living in the area of the 10 largest cities in Germany in the period from February 17th to March 6th 2017

²⁾ Based on survey with 2,080 participants, representative for the population in Germany, in the period from November to December 2017 3) 2017 value including car sharing Source: Infas & DLR "Mobilität in Deutschland" 2018. Statista "Global consumer survey 2018" 2017. mm customer strategy

Mobility development: Example travel in high-income metropolises

Metropolises like London: traffic to increase especially at the benefit of shared motoring concepts; beyond this, new transportation modes must be taken into account in the future



¹⁾ e.g. London, Singapore, Shanghai 2) Including two-wheel 3) Walking and bicycles Source: McKinsey "An integrated perspective on future mobility" 2016, mm customer strategy

Vertical take-off and landing (VTOL): Existing concepts

Diverse market with a variety of concepts, mostly fully electric (eVTOL)

Attributes Concepts¹

Name	Pop.Up Next AIRBUS	VOLOCOPTER 2X	WORKHORSE SureFly	AIRBUS X Vahana	енли б 184	UBER Elevate (AIR)	KITTYHAWK Cora
Max. altitude	n/a	I I 1,650 m	I I 1,200 m	I ∣n/a	I I 500 m	I I 305 m	I 900 m
Max. speed	100 kph	100 kph	120 kph	175 kph	60 kph	241 kph	180 kph
Range	100 km	27 km	60 min	100 km	25 min	96 km	100 km
Propulsion	Fully electric	Fully electric	Gasoline with range ext.	Fully electric	Fully electric	Fully electric	Fully electric
Charging time	15 min.	40 min.	n/a	n/a	60 min.	5-15 min.	n/a
Capacity	2 passengers	2 passengers	2 passengers(180 kg)	1 passenger	1 passenger (100 kg)	4-5 passengers	2 passengers
Costs	n/a	n/a	\$200,000	n/a	\$200,000 - \$300,000	n/a	n/a
Status	n/a	Manned test flight, internat. safety conditions fulfilled	Manned test flight I I I I	Prototype I I I	Manned test flight	Still in planning stage, demo flights in 2020, launch planned in 2023	Prototype I I I I

¹⁾ Exemplary, without multi-modular and long-distance concepts
Source: Developer websites (Airbus & Italdesign, Volocopter, Workhorse Group, A³ by Airbus, Ehang, Uber Technologies, Kitty Hawk) last accessed August 6th 2018, mm customer strategy

mm customer strategy – At a glance

Leading global strategic research in automotive, telecommunication, finance & insurance

TOPICS

- Marketing, brand (portfolio) strategy, positioning
- Market entry / go-to-market strategy
- Market structure & migration; market sizing / forecasts, business cases / business planning
- Strategic segmentations, potentials, personas
- Digital / innovation / co-creation
- Customer experience / journey / touchpoints
- Satisfaction, loyalty, NPS
- B2B, B2C, B2D, B2E¹

SOURCES

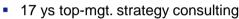
- Primary market research (own studies)
 - Quant: Online, CATI, face2face
 - Qual: Focus groups, scrum groups, IDIs, online communities, (C-level) expert interviews
 - All continents / global coverage
 - Renown & specialised field partners
- Customer / CRM data
- Desk research

OUR MANAGEMENT

Yvonne Martini

Managing Partner





- 14 ys int. market research
- Formerly Roland Berger Strategy Consultants (project manager)



Leading global strategic market research



- Market / customer segmentation
- Regression, factor, cluster, discriminant analyses
- Structural equation models (PLS), driver analyses, FiMix models
- Advanced conjoint analyses, e.g. menu-based conjoint, ACBC
- Behavioural economics

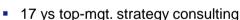
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