

AUTOMOTIVE SUPPLIER INDUSTRY GENERAL OVERVIEW

The Disruptive Trends in OE and Aftermarket



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Vehicles are Changing ...



AGEING VEHICLES



LONGER SERVICE INTERVALS



COMPLEXITY OF SERVICE



ALTERNATIVE MOBILITY OPTIONS DECREASING MILES DRIVEN



CONNECTED & AUTONOMOUS VEHICLES



ALTERNATIVE POWERTRAIN VEHICLES



TECHNICIAN SKILL GAP SERVICE INEFFICIENCY

So are Customer Expectations in Ownership ...



Convenience is Key



Digital Expectations



Seamless Journey



**Personalised
Experience**



**Options beyond
Ownership**

Mega Trends Impacting Automotive Aftermarket in Future

Traditional aftermarket to face strong headwinds due to the changing nature of cars; industry should move away from “parts & service” to “aftersales vehicle management”



AUTONOMOUS VEHICLES

60-80%
of vehicle parc
in North America to have
ADAS/Autonomous
capabilities by 2025



Up to 20%-30%
reduction in collision
repair business by 2030



ELECTRIC VEHICLES

6-9m BEVs
in EU car parc by 2025
5.5-7m BEVs
in US car parc by 2025



~95%
reduction in number
of moving par;



CONNECTED VEHICLES

40-50% Penetration
in Europe (Parc)
55-57% Penetration
in North America (Parc)

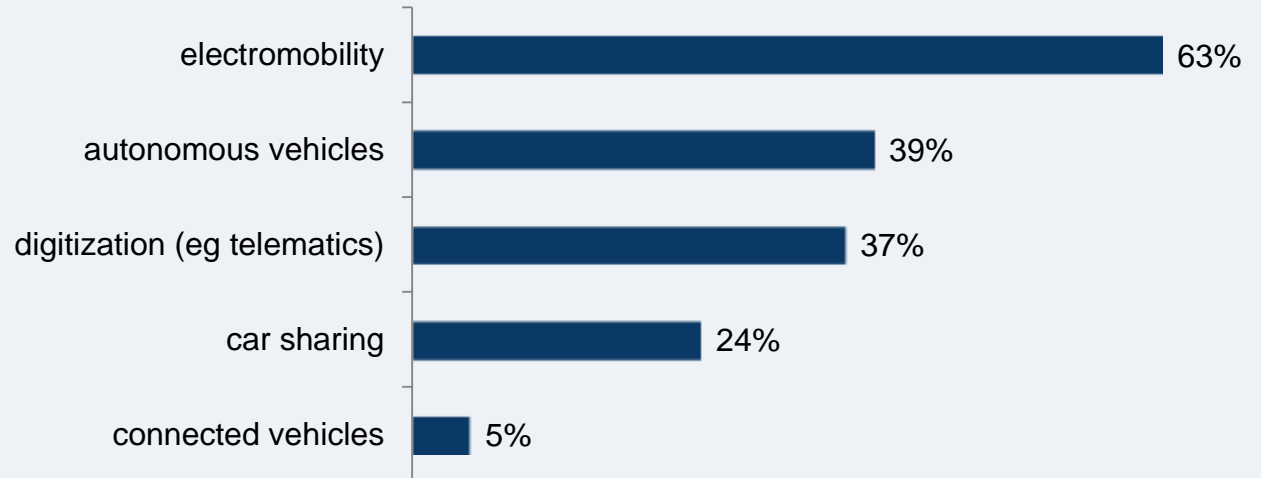


\$10-15b Telematics
\$18-20b Feature on Demand
10-20% Warranty Cost
15-20% Repair Time
CUSTOMER LOYALTY

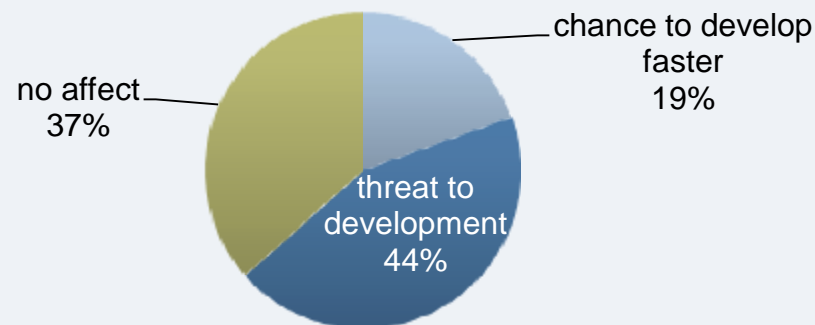
Amid Government Impetus, Automotive Parts Manufacturers in Poland are Jittery about Electromobility – Joint Research conducted by the SDCM and Frost & Sullivan



Which of the mega trends will change the most trade market and services in the automotive industry?



The rapid development of electromobility for your company is:



After-sales 3.0 — Key Impact Areas and Trends

Convergence of business models from various impact areas will create the strongest value propositions for customers in the future.

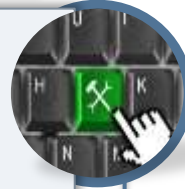
1 Channels

- eCommerce
- Marketplaces
- Aggregators
- In-vehicle Sales



2 Technology

- Telematics / Connected Car
- 3-D Printing
- Augmented Reality
- Big Data
- In-store Technology



3 Service

- Subscription
- Remote
- Mobile/express
- Participatory
- Predictive



4 Geography

- Urban Store Formats
- Glocalization (Expansion to BRIC markets)



5 Customers

- B2B (for eRetailers)
- Women Drivers
- Gen Y



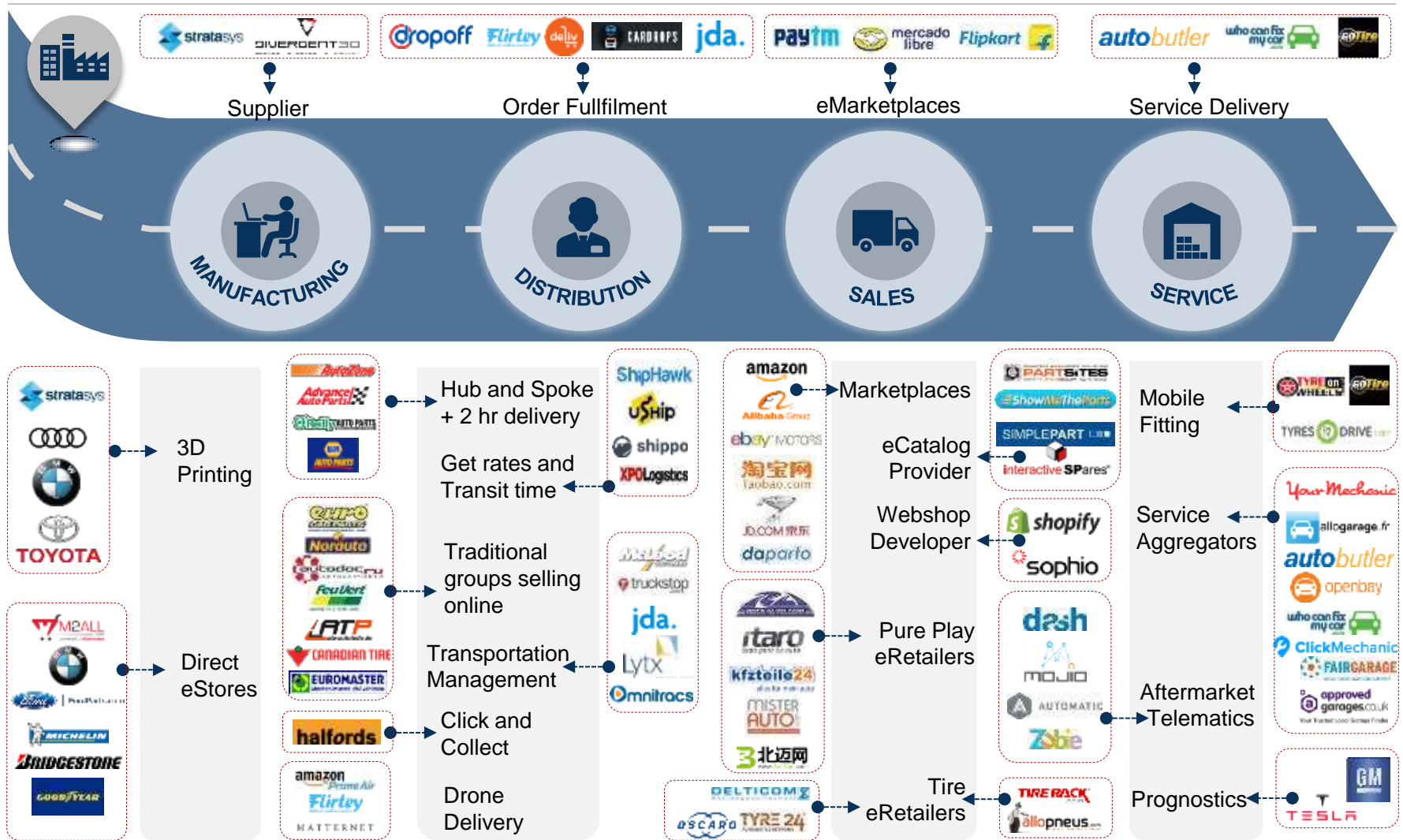
6 Products

- Electronics/ software
- Private Labels / Economy Parts / All Makes
- Service contracts / loyalty



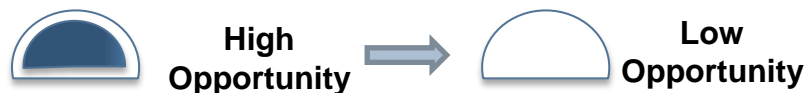
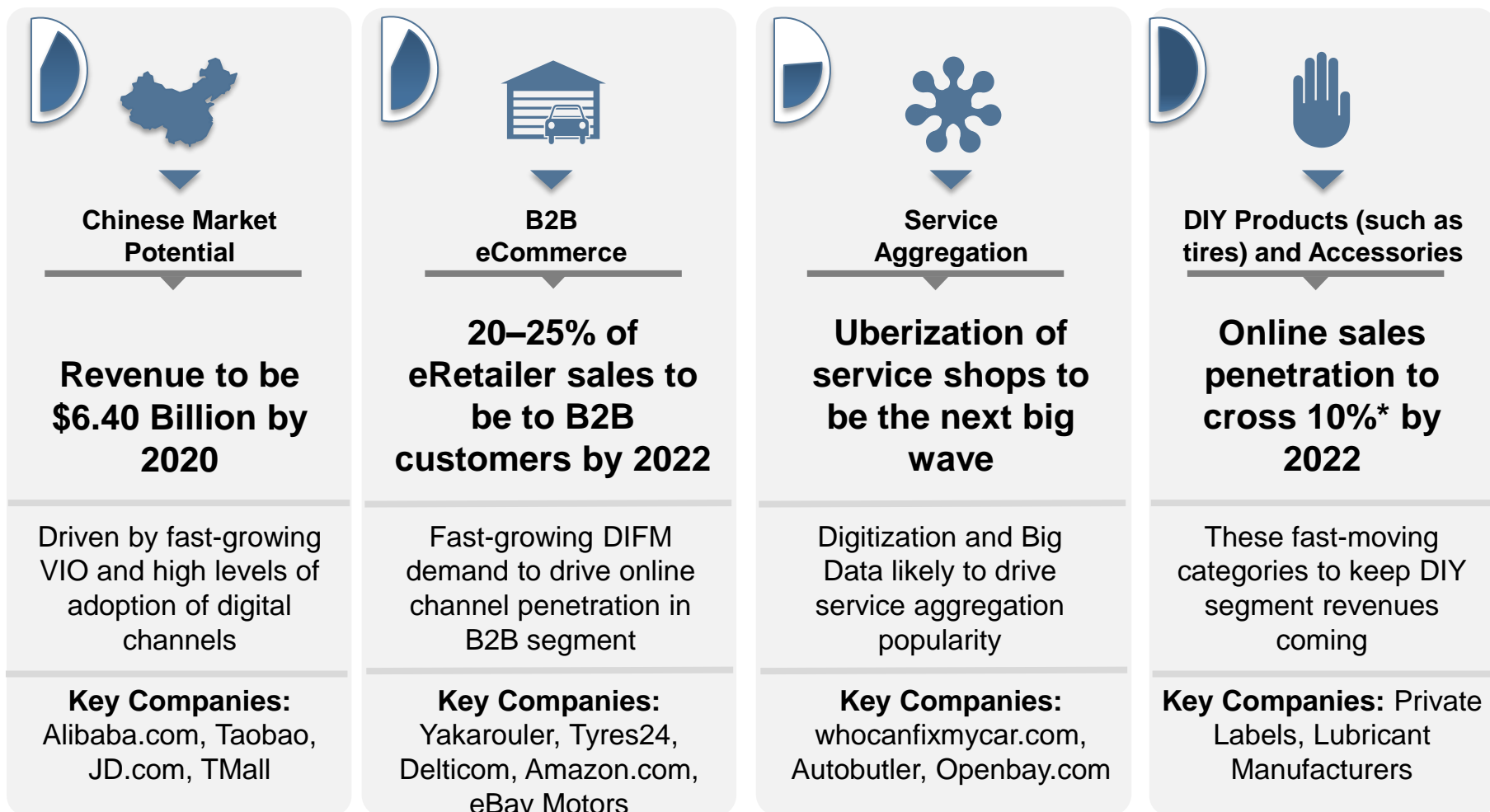
Transformation in Automotive Aftermarket

Digitization will continue to play a key role in evolving automotive aftersales at multiple levels



Source: Frost & Sullivan

Windows of Opportunity—Global Automotive Aftermarket eRetailing

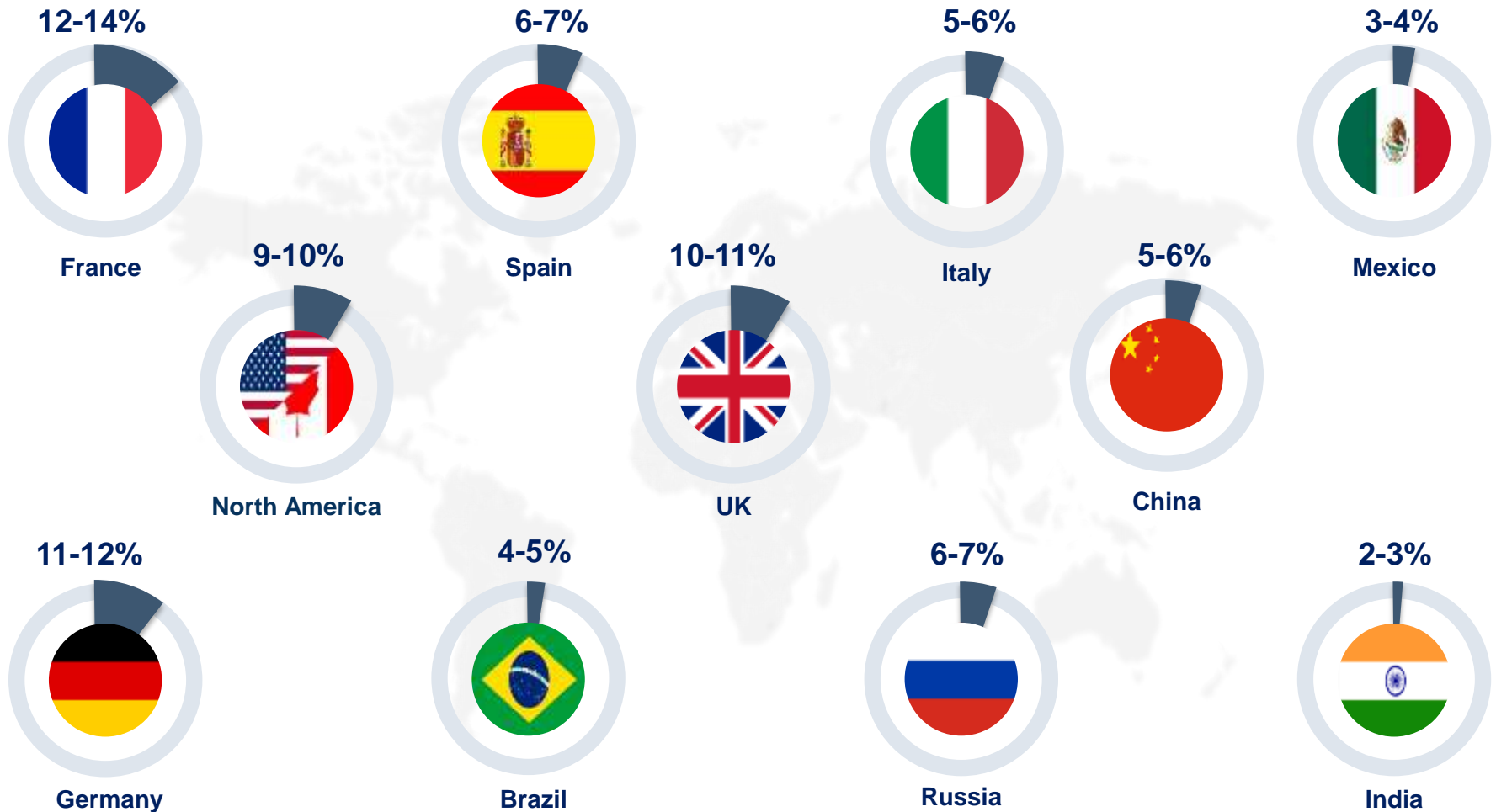


*For select product categories in North America and Western EU

Aftermarket eRetailing Penetration by 2022

North America and Western Europe will continue to lead in eRetailing penetration levels globally by 2022.

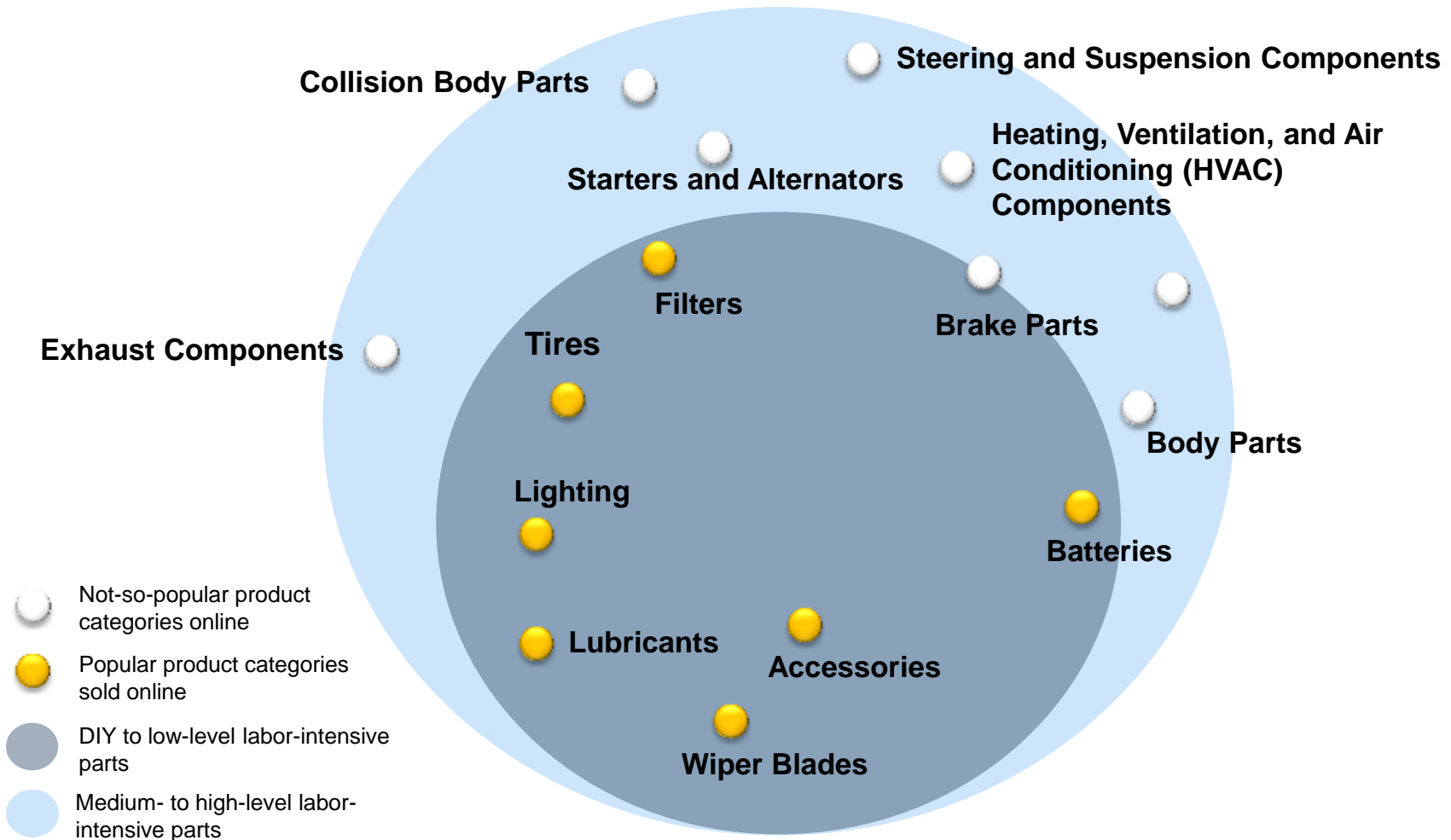
eRetailing in Automotive Aftermarket: eRetailing Penetration Level, Global, 2022



Parts Preference Map by Category

While Do-it-yourself (DIY) components and accessories are most popular online, the market for DIFM replacement part categories will grow, as sellers adopt smarter fulfillment models for customers

eRetailing in Automotive Aftermarket: Parts Preference Scenario, Global, 2016



Competitors such as Amazon are creating end-to-end vehicle management solutions for vehicle owners








Source: Frost & Sullivan

Market Share of OES by Country – EU5

The OES channel is expected to lose market share in all countries; losses in Germany and France are likely to be lower when compared to other countries.

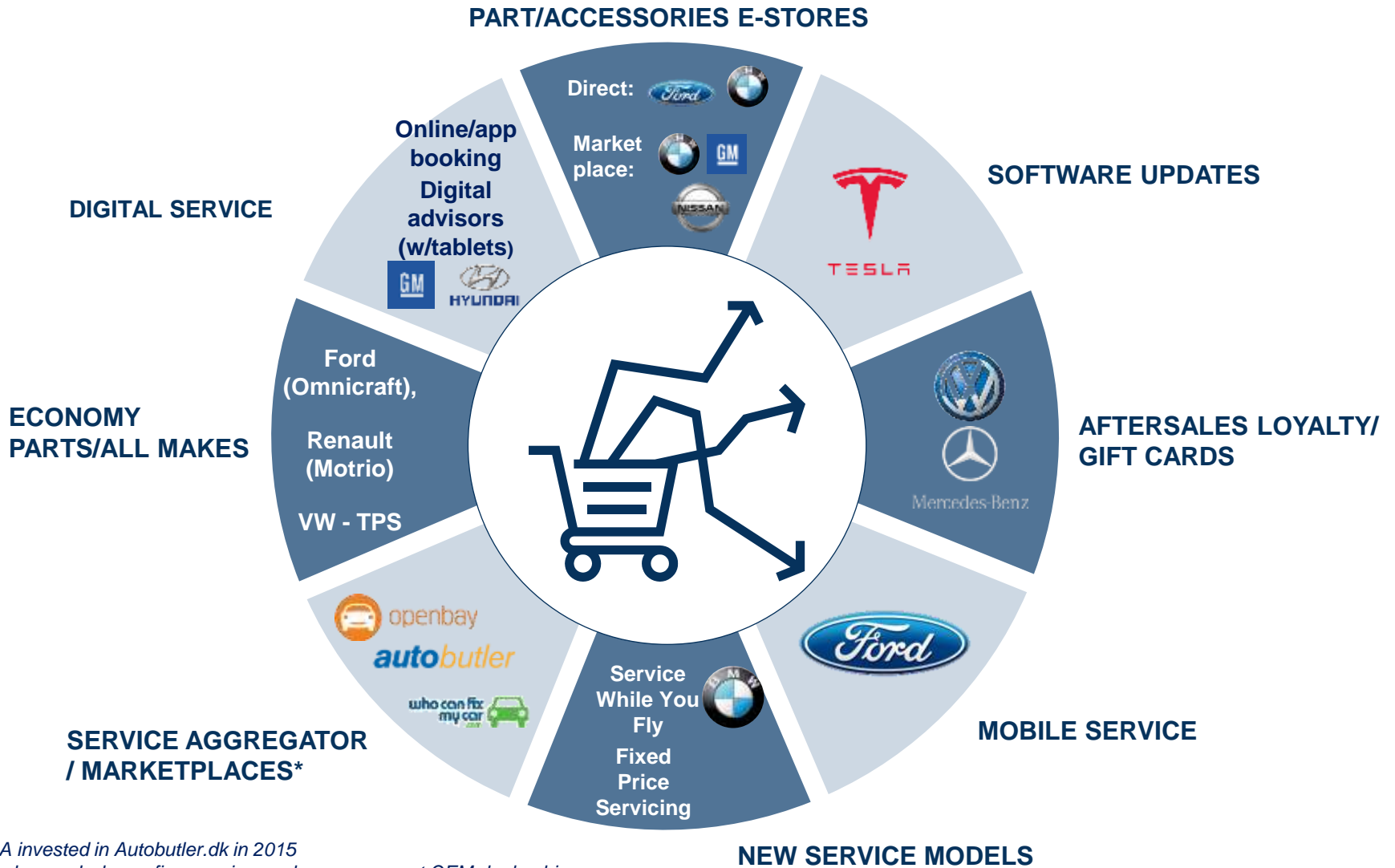
Strategic Analysis of the OES Channel: Country Outlook, Europe, 2015 and 2022

	OES Share (%) and Revenue in €B in 2015		OES Share (%) and Revenue in €B in 2022	Key Areas of Impact
	24.8% € 4.01	»	21.3% € 3.98	<ul style="list-style-type: none"> • Brexit could slow new vehicle sales ↓ • OEM telematics penetration ↑ • Service aggregation tie-ups ↑
	34.9% € 5.68	»	33.5% € 6.15	<ul style="list-style-type: none"> • Strength of franchised and authorised networks ↑ • Ageing vehicles ↓ • High DIY activity ↓
	40.5% € 9.05	»	39.1% € 10.01	<ul style="list-style-type: none"> • High OES channel loyalty ↑ • Strong DIFM market ↑ • Ageing vehicles ↓ • Impact of eCommerce ↓
	24.7% € 2.83	»	21.2% € 2.74	<ul style="list-style-type: none"> • Low OES channel loyalty ↓ • Strong DIY market ↓ • Highest in ageing vehicles ↓
	31.8% € 6.01	»	28.3% € 5.99	<ul style="list-style-type: none"> • Average vehicle age is 10 years, the 2nd-highest in the top 5 European markets ↓

↑ increase in OES channel share ↓ decrease in OES channel share

Source: Frost & Sullivan

OEM Adoption of New Business Models and Trends: Exhibits

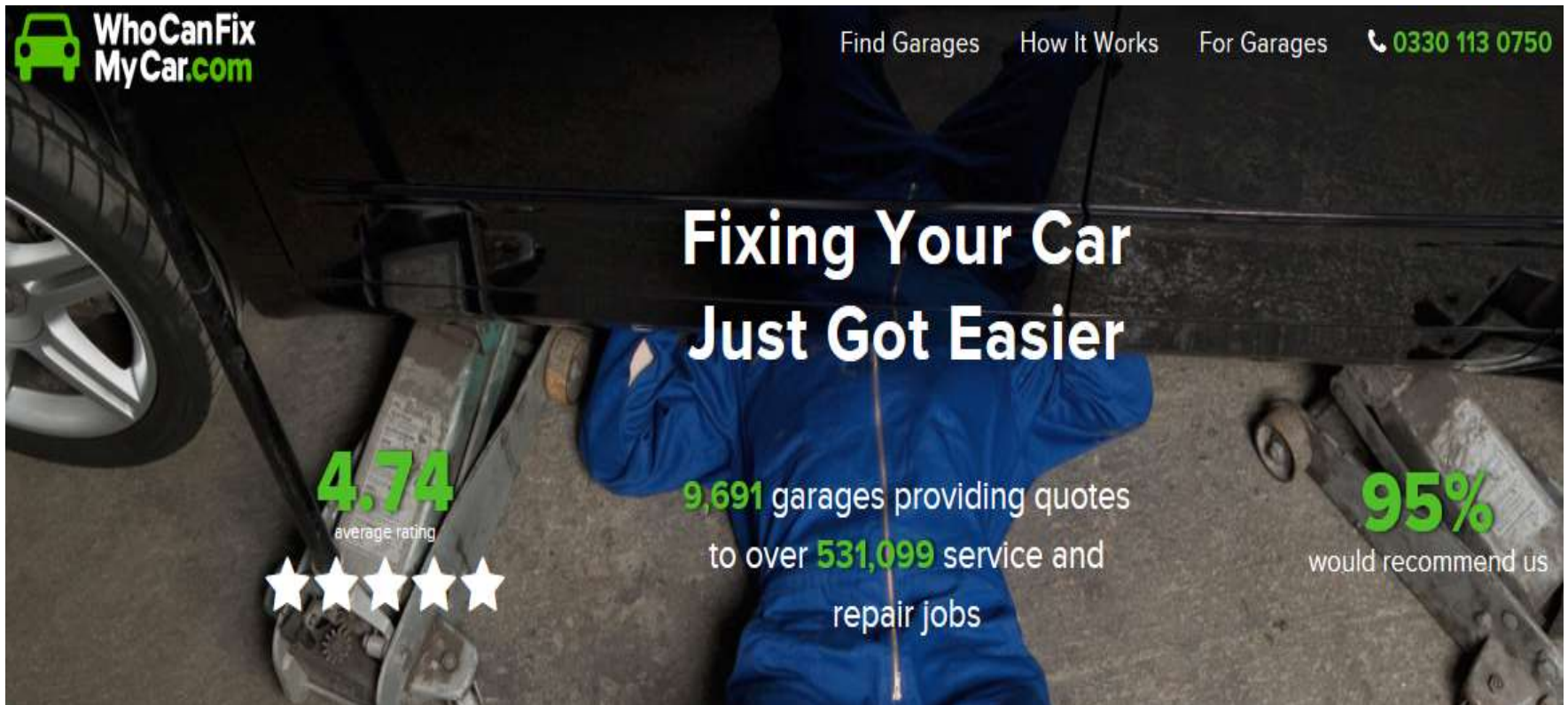


*PSA invested in Autobutler.dk in 2015

Openbay and whocanfixmycar is popular among most OEM dealerships

What is Service Aggregation? Exhibit: WhoCanFixMyCar.com

Connects car owners with IAM garages and dealerships. 500 Ford dealers joined the website, Shell selling lubricants + offering access to specialized technical support



The image is a screenshot of the WhoCanFixMyCar.com website. The background shows a mechanic in a blue jumpsuit working on a car. The website's navigation bar includes the logo, 'Find Garages', 'How It Works', 'For Garages', and a phone number '0330 113 0750'. The main headline reads 'Fixing Your Car Just Got Easier'. Three key statistics are highlighted: an average rating of 4.74 (represented by five stars), 9,691 garages providing quotes to over 531,099 service and repair jobs, and 95% of users would recommend the service.

WhoCanFixMyCar.com

Find Garages How It Works For Garages 0330 113 0750

Fixing Your Car Just Got Easier

4.74
average rating

9,691 garages providing quotes to over 531,099 service and repair jobs

95%
would recommend us

Service Aggregation / Marketplace Platforms – Global Footprint

Service aggregators and marketplaces are partnering with both traditional service providers (e.g. OEMs) as well as industry disruptors such as Uber, eBay

openbay (US):

- Flat commission on transaction
- Subscription Fee
- eBay

REPAIR PAL (US):

- Commission on transaction
- Subscription Fee

YourMechanic (US):

- Commission on transaction from Independent mechanics
- Majors accounts include Uber and Lyft

WhoCanFix MyCar.com (UK):

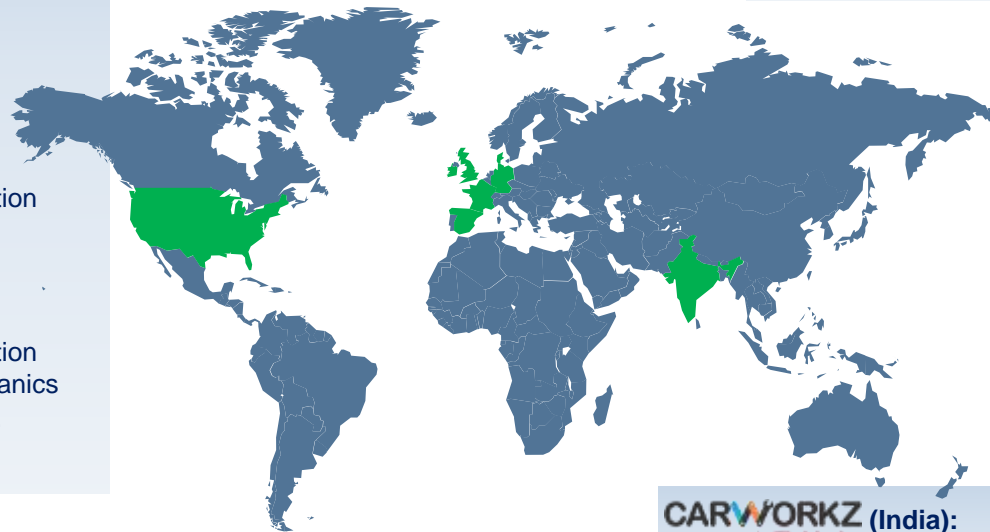
- Tiered commission plans as per subscription package
- Ford, Toyota, Renault, KIA, BMW, Lexus

Others include Click Mechanic, Approved Garages, Repairanycar.com

autobutler

- Tiered commission plans as per subscription package
- PSA

Others include Fair Garage (Germany), AutoScout24(Germany), Allogarage (France), iDGARAGES (France), MonMécanicien (France), Reparamiauto (Spain)



CARWORKZ (India):

- Flat commission on transaction
- Mahindra & Mahindra

Others include Cartisan, MeriCar and CarXpert

Business Model

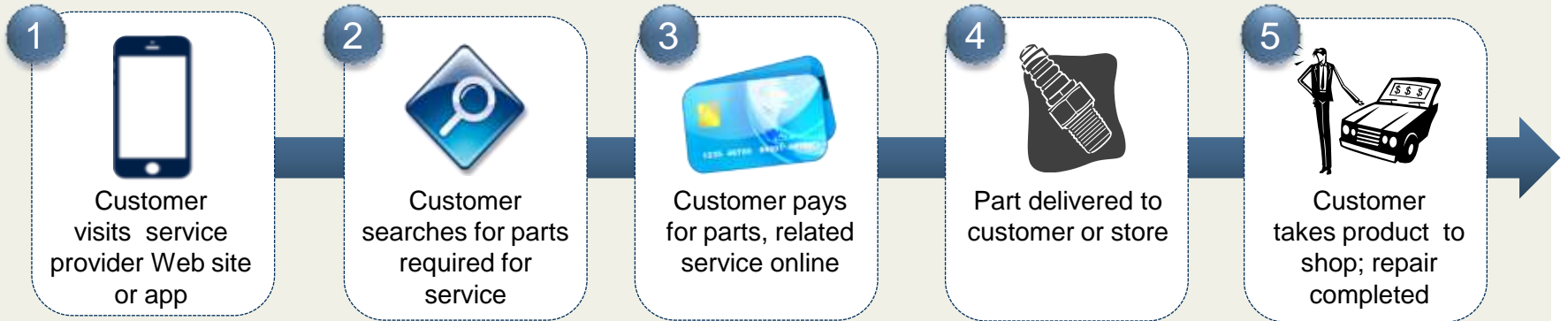
Major Partnerships

Note: Autobutler is based out of Copenhagen, Denmark Source: Frost & Sullivan

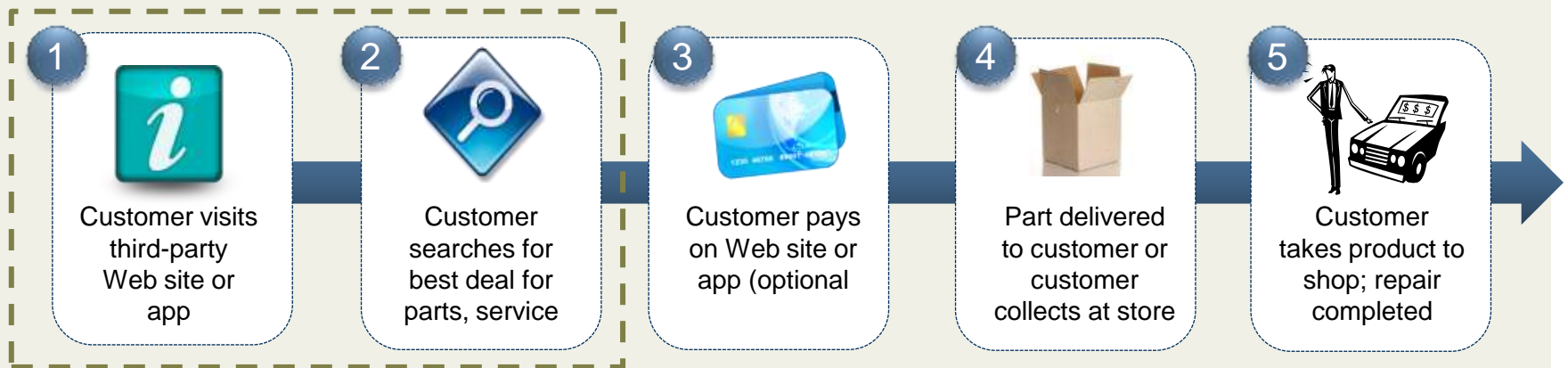
Uberization of Vehicle Service – From Closed to Open

The service aggregator or marketplace model opens customers to more choices in real-time while increasing access for service providers

SERVICE DELIVERY MODEL



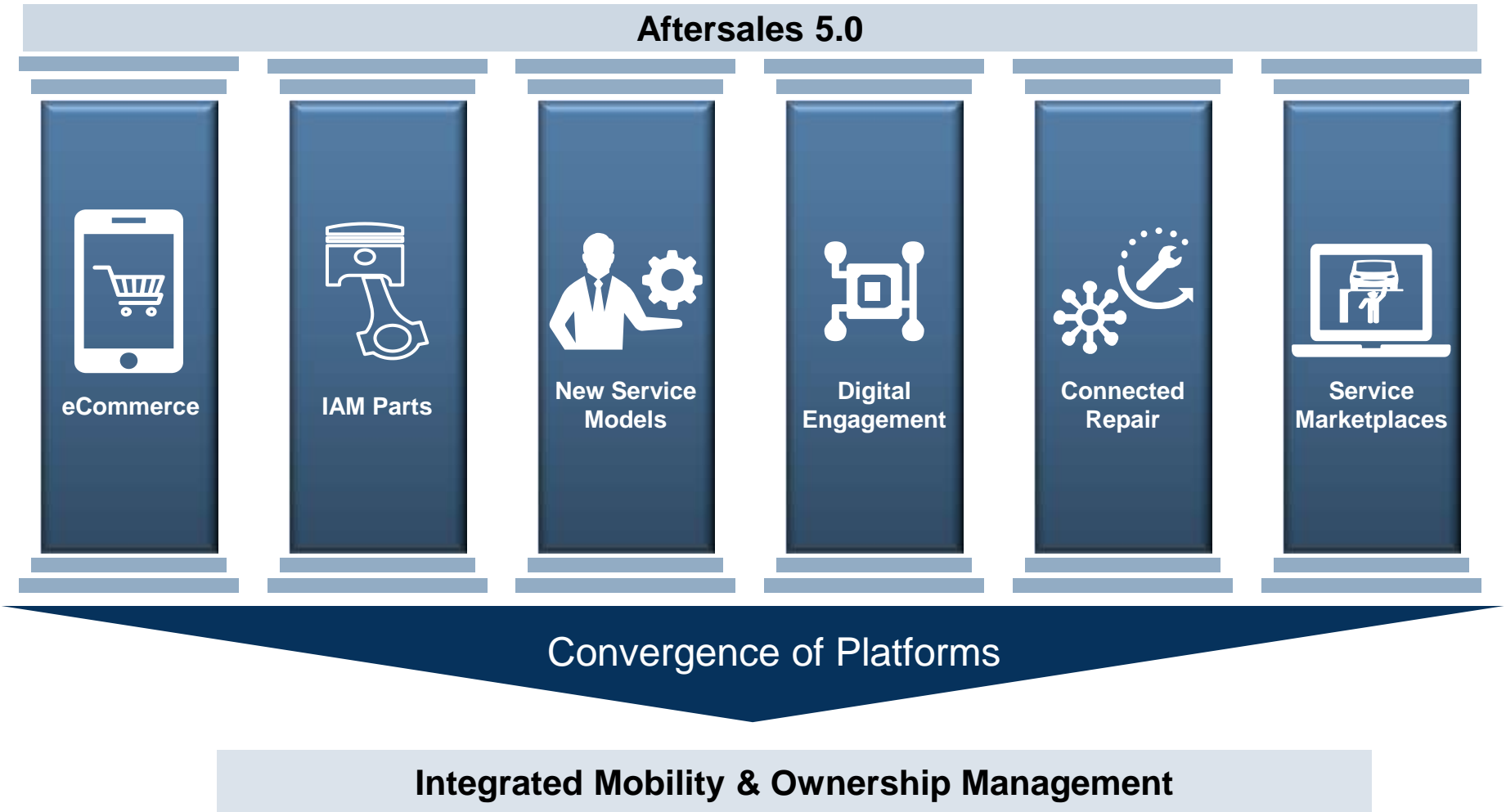
SERVICE AGGREGATOR MODEL



Source: Frost & Sullivan

The Future — OEM Aftersales 5.0

OEMs will move away from siloed platforms to create a single, comprehensive digitized platform with multiple touchpoints to serve all customer service and other aftersales needs



Source: Frost & Sullivan

Who is Frost & Sullivan?



Who is Frost & Sullivan?

Leading Market Intelligence & Business Advisory Firm with a dedicate team of consultants in 43 locations globally, including Istanbul, Turkey



**43 Offices Around
the World**



**Over 50 years of
Experience**



**250,000+ Clients
Worldwide**



Industry Groups

**Dedicated Industry
Focus
– Covering 12 Sectors**

What we offer

3 Tier Growth System

**Market Intelligence/
Research**

**Business Advisory/
Consulting**

**Growth
Implementation**

Our Industry Coverage

We are working within and across our verticals to converging our global expertise to deliver for our clients

Aerospace and Defense

Infrastructure

Industrial Automation
and Process Control

Consumer Technologies

Electronics and
Security

Information &
Communication
Technologies

Chemicals, Materials
and Food

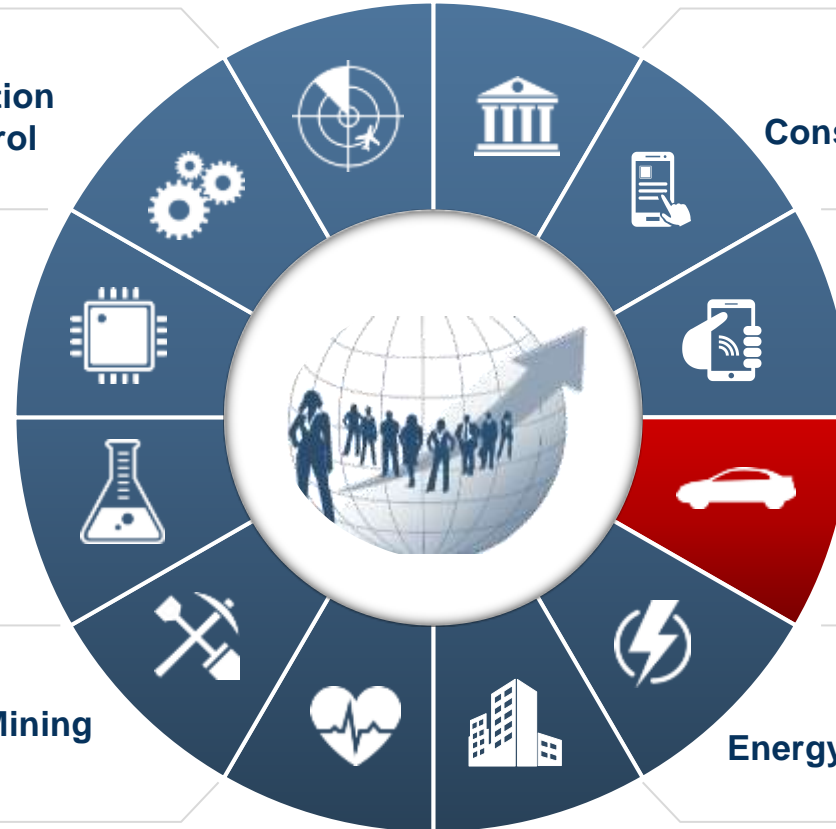
Mobility (*Automotive &
Transportation*)

Minerals and Mining

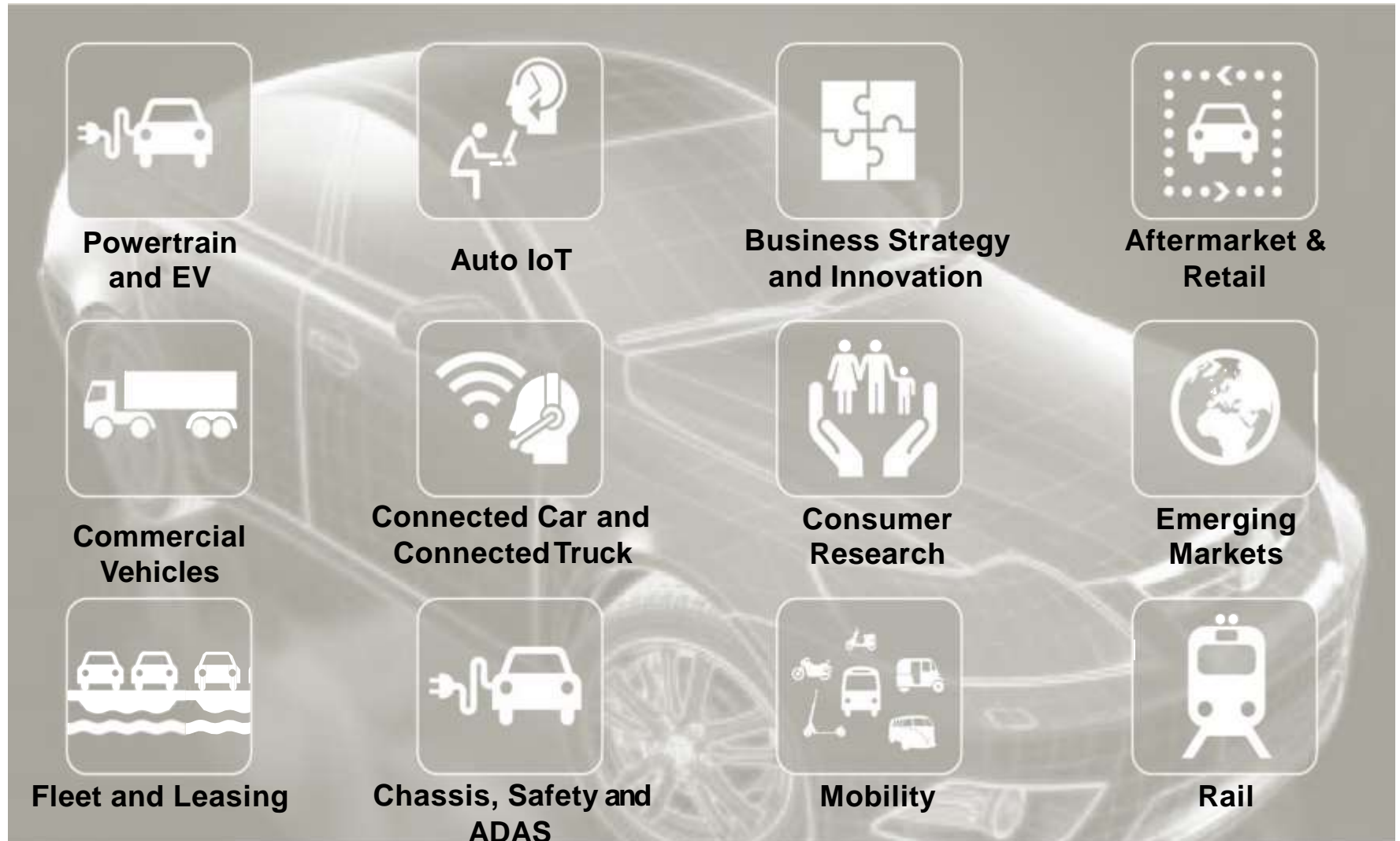
Energy and Power Systems

Healthcare

Environment and
Building Technologies



Frost & Sullivan's 12 Mobility Industry Focused Global Research Programs



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