Special Report

Emerging Trends Shaping the Collision Repair Industry





COVID-19 halted mobility in most countries; VMT, lead indicator of collision repair market, declined significantly in 2020 in top markets

Estimated Decline in VMT (Billion Passenger km) – Passenger Vehicles (Top 20 markets*) (2019-20)



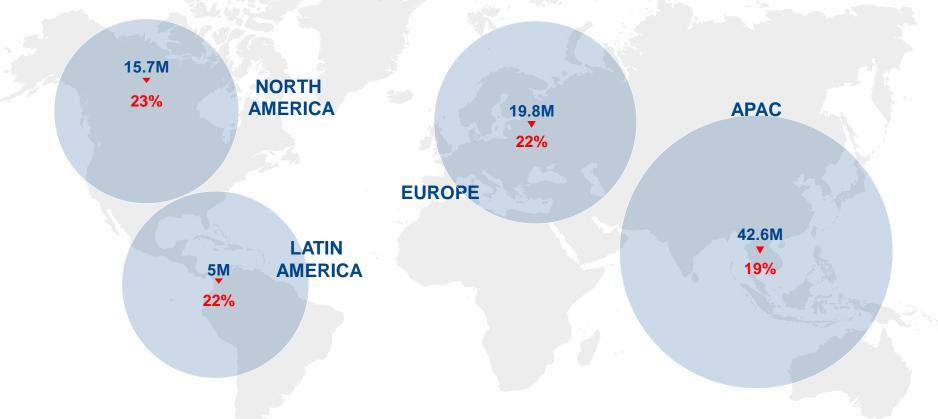
*includes US, Canada, Germany, France, Italy, UK, Spain, Japan, Australia, Poland, China, India, Brazil, Mexico, Russia, Turkey, Korea, New Zealand, Malaysia, Thailand

Source: Government Sources, Associations, Primary Interviews, Aranca Analysis



Collisions fall sharply by 20-25% in key regions as number of vehicles-on-road drop

Estimated Decline in Number of Collisions – Key Markets* (2019-20)



*includes US, Canada, Germany, France, Italy, UK, Spain, Japan, Australia, Poland, China, India, Brazil, Mexico, Russia, Turkey, Korea, New Zealand, Malaysia, Thailand

Source: News Articles, Country Mobility Trackers, Inrix, Primary Interviews, Aranca Analysis



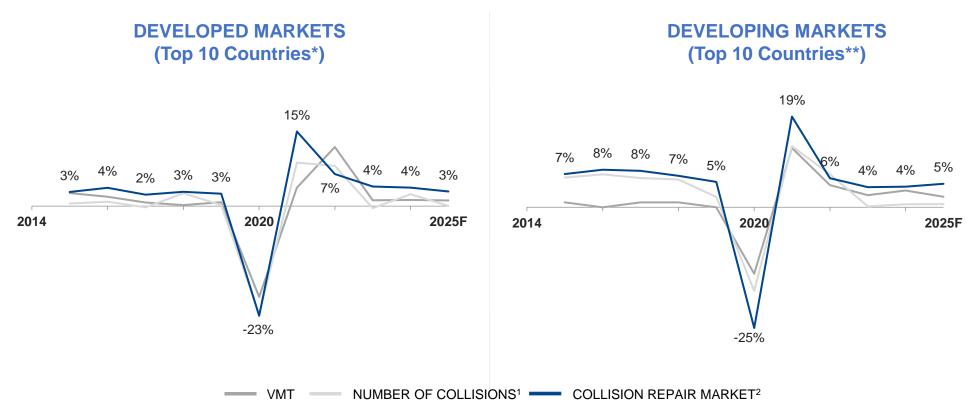
Size of the bubble represents the number of collisions in 2020





Developed markets expected to drag recovery; developing countries to emerge resilient

Performance of Industry Metrics Defining Collision Repair Industry (YoY Change) (2014-25F)



^{**}includes China, India, Brazil, Mexico, Russia, Turkey, Korea, Vietnam, Malaysia, Thailand

Source: Primary Interviews with Collision Repair Experts, Government Sources, Associations, Aranca Analysis



^{*}includes US, Canada, Germany, France, Italy, UK, Spain, Japan, Australia, Poland

¹ Total number of collisions involving passenger vehicles

²Collision Repair Market includes a total of labor, parts and consumables

Following global recovery, changing customer demands and some emerging trends attract stakeholder interest worldwide

Mapping Degree of Impact of Key Trends in Collision Repair Industry

	Trends in Collision Repair	North America	LATAM	European Union	APAC (ex. China)	China
1	Sophistication Increasing ADAS penetration drives demand for advanced technical infrastructure	^	→	^	^	^
2	Consolidation Larger body shops taking over smaller ones to expand	^	•	^	→	→
3	Digitalization Increased digital practices optimize businesses across value chain	^	^	^	^	^
4	Rising Repair Cost Newer technology demands new types of products, services in collision repair space	^	•	^	→	→
5	Increasing Insurance Penetration Rise in share of repair orders through insurance claims versus customer orders	→	^	→	^	^
urce: Aranca Analysis				Prevalence of Trend	↑ High → Mode	erate

#1: Rise in ADAS offers growth avenues in sensor calibration, replacement; **growing sophistication** to drive speedy CAGR of 10–20% over next five years

Change in ADAS Penetration

2019-25F

Change in Mix of Average Repair Cost; Case Example: US

2019-25F I Figures in USD

	2019	2025F	
	11%	40%	, (2019
	12%	38%	(\$)
	10%	36%	2025F (\$)
*)	6%	20%	2019-25 CAGR

		Eme			
	Average Cost of Repair (ex. margins)	Labor	Refinish Coatings & Consumables	Traditional Parts and Components	ADAS parts
2019 (\$)	1400	643	93	537	• 73
2025F (\$)	1772	759	105	606	202
2019-25 CAGR	4%	3%	2%	2%	18%

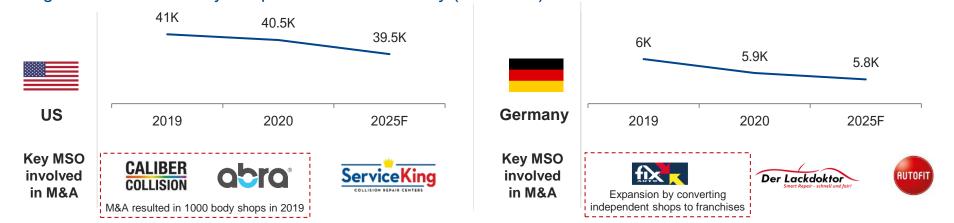
Emerging					
ADAS parts	ADAS Calibration / Recalibration				
•	•				
73	54				
•	•				
202	100				
18%	11%				

Source: Primary Interviews with Automotive OEMs and Collision Repair Shops, Aranca Analysis



#2: Larger players aggressively take over smaller, distressed body shops, thus paving way for **greater consolidation**

Change in Number of Body Shops in US and Germany (2019-25F)



Change in Share of Body Shop Type in US and Germany (2019-25F)



Strengthening of A&B type of body shops will support the need for a more structured industry offering improved service quality

Source: Primary Interviews with Body Shop Associations, Aranca Analysis

A (Revenue >\$3M/yr)C (Revenue \$600k -\$1.5M/yr)

B (Revenue \$1.5M -\$3M/yr)D (Revenue <\$600k/yr)



#3: <u>Digitalization</u> changing collision repair industry operations; offers opportunities in repair process optimization, workflow management

Penetration of Select Digital Solutions in Body Shops

Digital Solutions	Factors	Penetration Levels	Growth Rate (2019–25F)	Tailwinds
Digital Vehicle Inspection	Digital record of vehicle inspection with real-time updates to customers	80–90% 30–40%	8–10% 30–35%	Improved transparency between body shops and customers Time savings of up to 50% Enables tracking history of repairs
Digitalized OEM Repair Procedures	Digital manuals and procedures with timely updates	80–90% 45–50%	12–15% 20–25%	Increasing vehicle complexity: New materials, sensors, parts (such as AEB) will require OEM support Aggressive push by OEMs, associations, states for mandates in collision repair
Workflow Management Software	Track repair journey, cost estimation, part sourcing, order management	75–80% <40	8–10% 20–30%	Push from insurance companies to reduce time cycle Optimized resource allocation, process control, higher vehicle throughput, better order history tracking
Scanning, Diagnosis & Callibration	Diagnostics pre-/post-scanning, ADAS calibration / recalibration	30-35% <5%	30-35% 35–40%	Increasing ADAS penetration in parc Repair shops see high share of scanning requirement driving need for sophisticated tools Industry transitioning from OBD to OTA diagnostics

Source: Body Shop Magazines, News Articles, Primary Interviews with Collision Repair Shops,, Aranca Analysis

Developed Markets

Developing Markets

#4: Demanding overheads, technical complexities compel body shops to **push up auto repair costs**

Factors Impacting Average Cost of Collision Repair

Factors >> Driving Cost	Cost of Vehicle Components and Parts	Vehicle Complexity Impacting Skills and Infrastructure	Additional Service Requirements	
Scenario	 Sensor-based parts (bumper, windshield, etc.) incur additional replacement costs. <u>Each</u> sensor costs \$500–1500 based on application. Light-weight and dissimilar materials <u>raise panel cost by 30–50%.</u> Different parts are required to cater to electric vehicles. 	 Labor rates: 20–25% Training expenses: 50% Capital investment: 1.3–1.5x 	 Addition of ADAS recalibration as a new service in repair shops Increase in average share of scanning and recalibration service from <1% of total repair cost to ~10% by 2025 	
Impact	Average increase in part replacement cost \$500–1000	Increase in operating expenses for collision repair shops 1.2x	Increase in cost of repair service 10–20%	

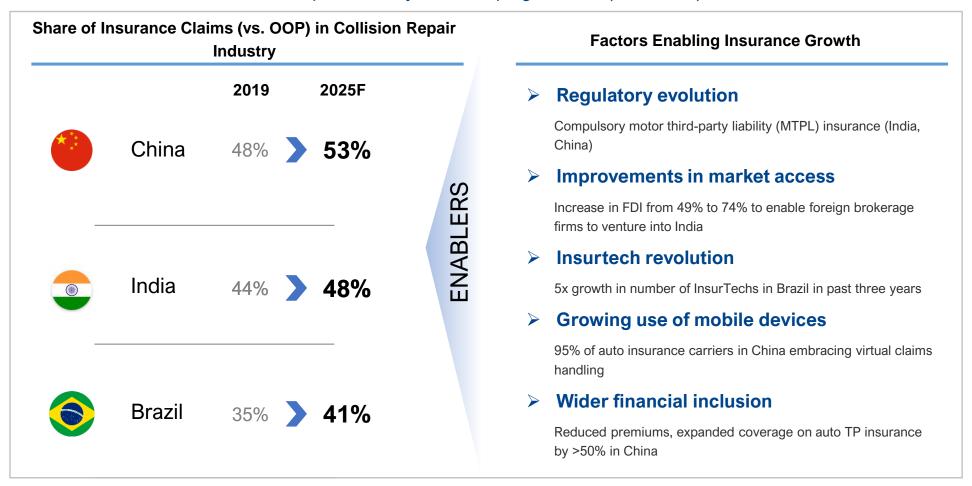
With the rising complexity of parts and the irreparable nature of some components, such as sensors, the **industry** is transitioning towards a trend of replacement over repairs, especially in developed markets.

Source: Body Shop Magazines, News Articles, Primary Interviews with Collision Repair Shops, Aranca Analysis



#5: <u>Increasing insurance penetration</u> further driving share of claims within repair orders, especially in emerging markets

Insurance Penetration in Collision Repair Industry in Developing Markets (2019–25F)



Source: Insurance Reports 2020, News Articles, Primary Interviews, Aranca Analysis



How is Aranca helping players in the collision repair industry?

We offer solutions serving a diverse set of requirements across the value chain



Market Tracker

(Tracking collision repair indicators such as VMT, collisions, claims, parc, sales, age of vehicle, etc. across 30+ markets to perform relative benchmarking)



Industry Assessment and Implications

(Estimating market size, its implication on businesses, covering elements of labor, parts, paints, allied materials while studying repair order costs, claims/OOP, etc.)



Opportunity Quotient for New Tech Solutions

(Evaluating emerging profit pools with technology trends such as ADAS (recalibration tools, etc.), digitalization (diagnostic tools, workflow management, etc.) shaping the industry)



Business Expansion Strategy

(Identifying partners, targets to pursue inorganic expansion to capitalize on opportunities emerging from adjacencies in existing portfolio, markets, value chain)



Competition Assessment

(Deep-dive analysis on peers across value chain, including suppliers of parts and consumables and collision repair equipment, as well as body shops; detailing peers' financial and operational dynamics)



Voice of Customers

(Studying customer behavior in terms of purchase, business workflow, sales to gather intel on purchase criteria, repair timelines, changing customer requirements, technology uptake, etc.)





Our Work in Collision Repair Industry

25+
Market & Business Advisory
Projects

500+

Network of Body Shops
Connections across 30+ markets

15+
Clients Assisted in Collision Repair
Ecosystem

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Brokerage, Hedge Funds, IRPs, I-Banks, AMCs, Investor Relations



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