THE 2014 AUTOMOTIVE VALUE CREATORS REPORT

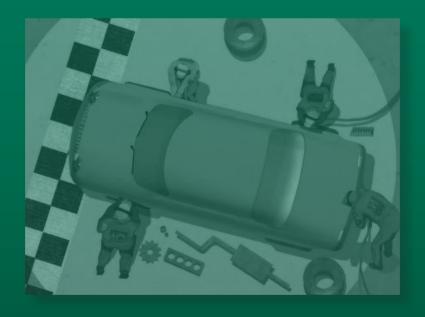
# A COMEBACK IN THE MAKING





THE BOSTON CONSULTING GROUP

The Boston Consulting Group (BCG) is a global management consulting firm and the world's leading advisor on business strategy. We partner with clients from the private, public, and not-for-profit sectors in all regions to identify their highest-value opportunities, address their most critical challenges, and transform their enterprises. Our customized approach combines deep insight into the dynamics of companies and markets with close collaboration at all levels of the client organization. This ensures that our clients achieve sustainable competitive advantage, build more capable organizations, and secure lasting results. Founded in 1963, BCG is a private company with 81 offices in 45 countries. For more information, please visit bcg.com.



# THE 2014 AUTOMOTIVE VALUE CREATORS REPORT A COMEBACK IN THE MAKING

XAVIER MOSQUET

JUSTIN ROSE

RAKSHITA AGRAWAL

FRANK PLASCHKE

SACHIN NANDGAONKAR

MARCO GERRITS

# **CONTENTS**

### 3 INTRODUCTION

### 6 AUTOMOTIVE OEMS: RATTLED BUT RESILIENT

A Wide Range of Returns Emerging-Market Sales Powered the Top Performers

### 15 IMPORTANT TAKEAWAYS FOR OEMS

Adding Global Scale and Presence Innovating to Capture Share Restructuring for Improved TSR Preparing a Value Creation Strategy

### 18 COMPONENT MAKERS: SEARCHING FOR SUSTAINABILITY

A Handful of Perennial Value Creators Assembly Rates Are Stuck in Neutral Power Train Suppliers Are in Overdrive The Aftermarket Advantage

### 25 IMPERATIVES FOR GROWTH

An Agenda for Component Makers Developing a Strategy for Sustainable Returns

### 27 FOR FURTHER READING

### 28 NOTE TO THE READER

# INTRODUCTION

A COMEBACK IN THE MAKING is the first in a series of annual reports from The Boston Consulting Group on value creation in the automotive industry. The report analyzes the industry's two largest sectors, original-equipment manufacturers (OEMs) and makers of automotive components that are sold either to OEMs or to end users in the aftermarket.

These two businesses are very different, with distinct dynamics, financial characteristics, typical growth rates, capital requirements, and profit margins. Nevertheless, the sectors are inextricably linked and often have in common the same challenges; a pressing one for both sectors has been finding their footing in a global economy that was rocked to its foundation in 2008. Our analysis of total shareholder return (TSR) over the past three, five, and ten years suggests that the long-awaited recovery for both OEMs and component makers is finally starting to gain traction—across countries and regions and in all subsectors.

In fact, few economic sectors have mounted a more impressive comeback from the ravages of the financial crisis than those in the automotive industry. Both OEMs and component makers delivered five-year median annual returns that were well in excess of the median return for the 26 industries tracked by BCG. OEMs produced a median annual TSR of 29 percent from 2009 through 2013, while component makers posted a median annual TSR of 33 percent. The median annual return for all industries was 21 percent. The automotive industry's recent performance represents a striking recovery from the depths of the 2008 financial crisis, when the big three U.S. automakers alone posted nearly \$75 billion in losses and unit sales plunged worldwide.

However, some companies are recovering more quickly than others. Automotive OEMs recorded the third-highest standard deviation in TSR of the 26 industries BCG tracks. The top value creator, Great Wall Motor Company, posted a median annual TSR of 109 percent over the five-year period, while the worst performers destroyed 5 percent of value annually—a swing of 114 percentage points.

OEMs that concentrated on emerging markets produced a median annual TSR that ranged from 36 to 49 percent; automakers that focused globally on developed markets posted lower median annual returns, ranging from 23 to 35 percent. The country or regional focus of manufacturers also influenced how they created value. OEMs that concentrated on emerging markets created value primarily through a combination of margin improvement and sales growth. Almost

39 percent of their TSR was attributable to wider margins; revenue increases accounted for an additional 52 percent. OEMs that had a global focus created value in large part by expanding their profit margins and returning cash to shareholders in the form of dividends and share repurchases.

Manufacturers' performance, highlighted by growth of 47 percent in combined unit sales for the five largest-selling OEMs during the past ten years, underscores the vital importance of global scale: it helps OEMs remain competitive on costs and positions them to capture share in high-growth markets and thus solidify their competitive advantage.

Going forward, OEMs must also make product innovation a priority, while focusing on the development of vehicles suited to the unique requirements of individual markets. Some industry players still need to undertake a broad restructuring of their value propositions, product portfolios, finances, and governance to spur the growth-propelling innovation needed to serve a global marketplace in constant flux.

The performance of component makers was to some extent dependent upon location, with those in China producing a five-year median annual TSR of 29 percent and those in the rest of the world outside the developed markets of Europe, Japan, and North America posting 49 percent. The five-year median annual TSR for European component makers was 38 percent, while their North American counterparts delivered 39 percent.

Japanese and South Korean component makers posted a median annual TSR of 29 percent in the most recent five-year period, in line with companies in China. The toll taken by the 2011 Fukushima Daiichi nuclear disaster and the weak yen was clear.

The drivers of TSR varied widely across countries and regions. Component makers that focused on the mature markets of Europe and North America generated returns largely through improved valuation multiples and cash payments to shareholders. Parts manufacturers that concentrated on Japan directed the bulk of their value-creation efforts toward returning cash to shareholders and improving margins. And component makers that focused on developing markets relied on revenue growth and, to a lesser degree, cash distributions to shareholders.

Power train suppliers were the top-performing component subsector: their revenues and returns were boosted by new laws and regulations aimed at improving fuel efficiency and reducing vehicle weight, as well as growing consumer demand for "greener" vehicles.

Component makers that derived a high percentage of their sales from the aftermarket channel were resilient during the most recent three-, five-, and ten-year periods. These companies benefited from approximately 14 percent growth in the number of light passenger vehicles in operation globally and about an 18 percent rise in the average age of vehicles on the road. As vehicles age, parts wear out and need to be replaced, generating a positive impact on aftermarket demand.

The growth agenda for both OEMs and component makers hinges on their ability to attain or expand global scale, establish a sustainable presence in the world's automotive markets, and continue to support innovation.

Both OEMs and component makers should not count on a rising tide to lift all boats. These sectors have been among the biggest beneficiaries of the upswing in global capital markets from 2012 through 2013, but they shouldn't depend on expanding market multiples to continue driving shareholder returns. The general climate may be improving, but specific moves by individual companies will determine the winners and losers in the future.

# **AUTOMOTIVE OEMS**

# RATTLED BUT RESILIENT

E'LL SAY THIS FOR the automotive industry: it's resilient. Despite operating in a business environment destabilized by a global financial crisis, local credit contractions, and pervasive political uncertainty, the industry's original-equipment manufacturers (OEMs) turned in a median annual total shareholder return (TSR) of 29 percent for the five-year period from 2009 through 2013. (See the sidebar "How We Measure Value Creation: The Components of TSR.") It's noteworthy that 29 percent is 8 percentage points higher than the median annual TSR of 21 percent for the 26 global industries tracked by The Boston Consulting Group. (See The 2014 Value Creators Report: Turnaround; Transforming Value Creation, BCG report, July 2014.)

The standout TSR is not the result of a few high performers pulling up the median.

The industry has come a long way from the depths of the 2008 financial crisis. The U.S. was ground zero for the crisis, and accordingly, its OEMs suffered the most during the period, posting aggregate losses of nearly \$75 billion and suffering declines in unit sales of as much as 55 percent (in Chrysler's case).

The damage was less severe in markets outside the U.S., but it was bad enough to doom weaker OEMs such as Saab.

The five-year standout TSR for OEMs is not the result of a few high performers in a handful of subsectors pulling up the median. Drawn from a broad sample of 41 manufacturers, the ten-year data confirms that many OEMs across countries and regions and in all subsectors created value. (See Exhibit 1.)

### A Wide Range of Returns

Although the OEM sector's 29 percent median annual TSR outpaced most other industries, that result masks a wide range in performance by individual OEMs. In fact, automotive OEMs recorded the third-highest standard deviation in TSR of the 26 industries BCG tracks. The top value creator, Great Wall Motor Company, posted a median annual TSR of 109 percent over the five-year period, while the worst performers destroyed 5 percent of value annually—a swing of 114 percentage points.

Wide performance variations also marked OEM subsectors. From 2009 through 2013, manufacturers of diversified commercial and light passenger vehicles, which accounted for 13 percent of the OEM sector's total market capitalization, and motorcycle manufacturers, which also accounted for 13 percent, de-

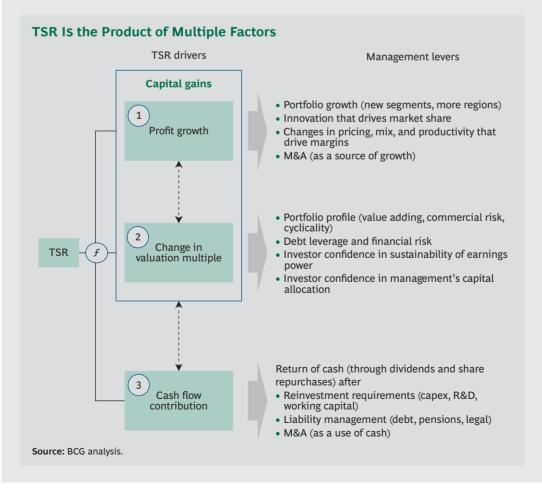
# HOW WE MEASURE VALUE CREATION The Components of TSR

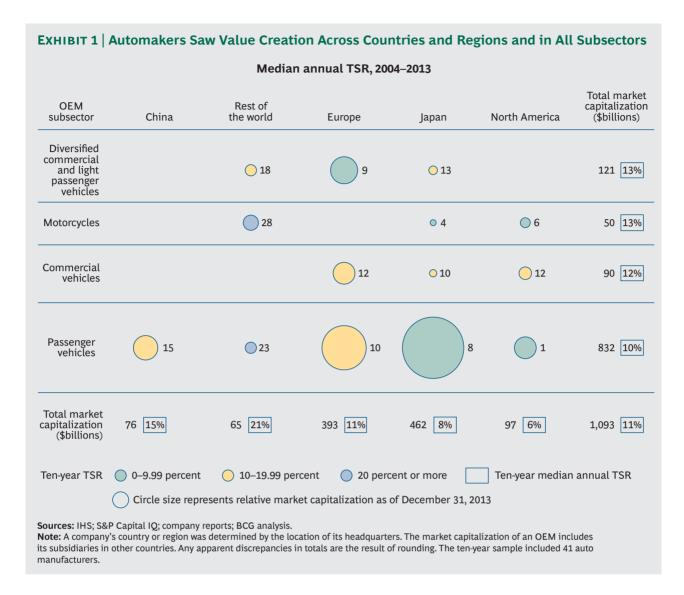
Total shareholder return, a measure of the value a company creates for its investors, is the product of multiple factors. Readers of BCG's Value Creators series are likely familiar with the BCG methodology for quantifying the relative contribution of the various sources of TSR. (See the exhibit below.) The methodology uses a combination of revenue (that is, sales) growth and change in margins as an indicator of a company's improvement in fundamental value. It then uses the change in the company's valuation multiple to determine the impact of investor expectations on TSR. Together, the improvement in fundamental value and the change in the valuation multiple determine the change in a company's market capitalization and the capital gain (or loss) to investors. Finally, the model also tracks the distribution of free cash flow to investors and debt holders

in the form of dividends, share repurchases, and repayments of debt in order to determine the contribution of free-cash-flow payouts to a company's TSR.

These factors all interact—sometimes in unexpected ways. A company may increase its earnings per share through an acquisition but create no TSR if the new acquisition has the effect of eroding the company's gross margins. And some forms of cash contribution (for example, dividends) have a more positive impact on a company's valuation multiple than others (for example, share buybacks).

TSR is a useful measure of value creation, but it is determined by looking backward. As such, it is not a reliable predictor of future returns





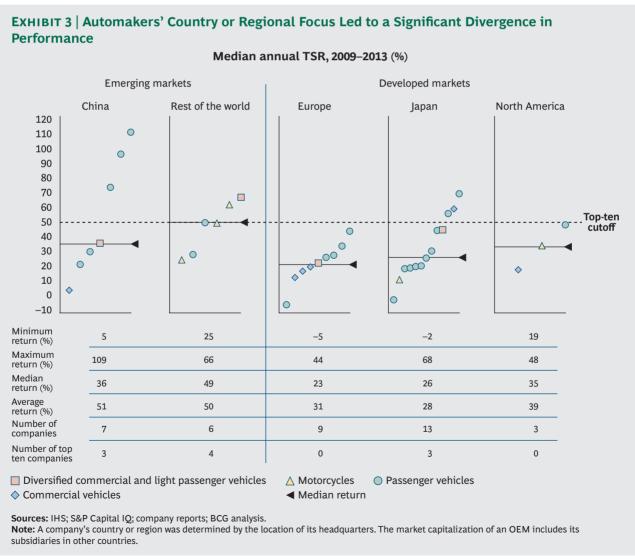
livered a median annual TSR of 40 percent and 35 percent, respectively. OEMs in the significantly larger passenger-vehicle subsector posted a median annual TSR of 30 percent, while the commercial vehicle segment showed an 18 percent median annual TSR. (See Exhibit 2.)

# Emerging-Market Sales Powered the Top Performers

The growing wealth of the developing world powered the gains of the leading value creators. OEMs that concentrated on emerging markets produced a median annual TSR that ranged from 36 to 49 percent; automakers that focused globally on developed markets posted lower median annual returns, ranging from 23 to 35 percent. (See Exhibit 3.)

This trend is evident in the rankings of the top automotive OEM value creators. The three-year list is dominated by companies from developed markets, while the five- and ten-year rankings are dominated by automakers from emerging economies. For example, three China-based passenger carmakers, Great Wall Motor Company, Brilliance China Automotive, and ChanganAn AutoMobile, lead the list of the top ten value creators from 2009 through 2013, ahead of players such as Fuji Heavy Industries (the parent corporation of Subaru), Tata Motors, and Kia Motors. (See Exhibit 4.) It should be noted, however, that Brilliance and ChanganAn owe much of their success to their joint ventures with multinational automakers—BMW in the case of Brilliance, and Ford in the case of ChanganAn.





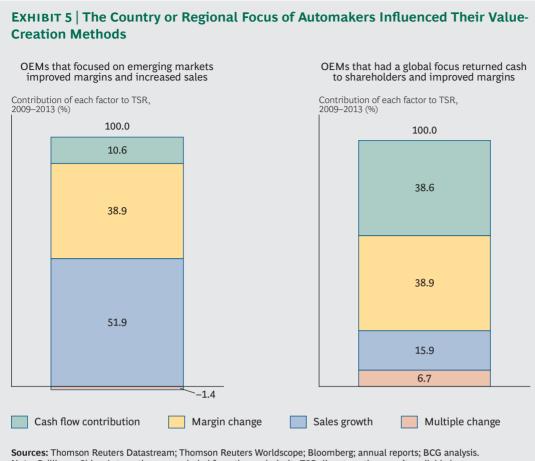
ank	Three-year TSR, 2011-2013			Τ	Five-year TSR, 2009-2013			Ten-year TSR, 2004-2013		
	Company	Country or region	Subsector		Company	Country or region	Subsector	Company	Country or region	Subsecto
	Tesla Motors	North America	Passenger		Great Wall Motor Company	China	Passenger	Astra International	Rest of the world	Motorcycle
	Fuji Heavy Industries	Japan	Passenger	1	Brilliance China Automotive	China	Passenger	Great Wall Motor Company	China	Passenger
	Great Wall Motor Company	China	Passenger		ChanganAn AutoMobile	China	Passenger	Mahindra & Mahindra	Rest of the world	Passenger
	Hino Motors	Japan	Commercial		Fuji Heavy Industries	Japan	Passenger	Volkswagen	Europe	Passenger
	ChanganAn AutoMobile	China	Passenger		Tata Motors	Rest of the world	Diversified	Fuji Heavy Industries	Japan	Passenger
	Mazda	Japan	Passenger		Bajaj Auto	Rest of the world	Motorcycles	Hero MotoCorp	Rest of the world	Motorcycle
	Toyota	Japan	Passenger		Hino Motors	Japan	Commercial	Kia Motors	Rest of the world	Passenger
	Harley- Davidson	North America	Motorcycles		Kia Motors	Rest of the world	Passenger	BYD	China	Passenger
	Brilliance China Automotive	China	Passenger		Astra International	Rest of the world	Motorcycles	Hyundai	Rest of the world	Passenger
	Isuzu	Japan	Diversified		Mahindra & Mahindra	Rest of the world	Passenger	Tata Motors	Rest of the world	Diversified
	Top ten value	creators a	cross three-, fiv	ve-,	and ten-year p	periods				

Country or regional focus also influenced how manufacturers created value. (See Exhibit 5.) OEMs that focused on emerging markets created value primarily through a combination of improving margins and growing sales. Almost 39 percent of their TSR was attributable to wider margins; revenue increases, a result of fast-growing personal incomes, accounted for approximately 52 percent. These OEMs returned little cash to shareholders, opting instead to add scale, expand product lines, and improve distribution and service.

The strongest five-year performers among OEMs that focused on emerging markets il-

lustrate how these champions are rapidly developing the strategic sophistication and operational excellence that are prerequisites to competing successfully on the global playing field. India's Bajaj Auto, for example, aggressively raised its brand profile and diversified its revenue stream to increase top-line growth and improve margins, which in turn boosted investor expectations of sustainable growth—and the company's market multiple. (See the sidebar "Bajaj Auto Grows Up Fast.")

By contrast, OEMs that had a global focus, many of which initiated full-scale turnaround or restructuring programs during the period



Note: Brilliance China Automotive was excluded from the analysis; its TSR disaggregation wasn't available because earnings before interest, taxes, depreciation, and amortization were negative for the five-year period. Any apparent discrepancies in totals are the result of rounding.

# BAIAI AUTO GROWS UP FAST

Bajaj Auto was unquestionably a company in the right place at the right time, poised to prosper on the strength of India's growing middle-class wealth and motorization. But Bajaj was not content to rely on demographics alone for its growth. Its success should serve notice to the rest of the industry that emerging-market OEMs are rapidly developing the scale and savvy to take on all comers.

In recent years, Bajaj reinvested heavily in its flagship Discover brand and launched two new models, the 100M and the 125, that carry the Bajaj nameplate. The company undertook a top-to-bottom revamp of its three-wheel product line, as such vehicles are a key segment of India's urban and rural vehicle markets alike.

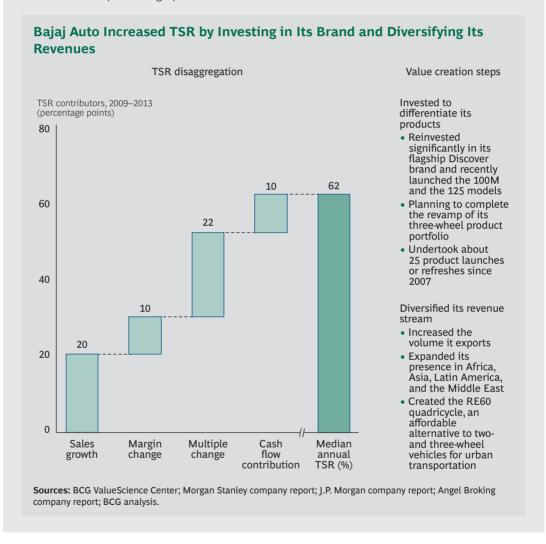
When completed, the renovated portfolio will take its place alongside the 25 or so other product launches and refreshes the company has undertaken since 2007.

Bajaj's products also sold well outside India: approximately 35 percent of the company's output was destined for export markets, one of the highest percentages among emerging-market automakers. Exports both diversified the company's revenue stream and provided a cushion against continued turmoil in its home market. Today, Bajaj is the best-selling brand in Africa and enjoys a sizable presence in Asia, Latin America, and the Middle East as well. The new RE60 quadricycle, designed as an affordable, safer alternative to two- and three-wheel vehicles

# BAJAJ AUTO GROWS UP FAST (continued)

for urban transportation, should further diversify the company's revenue stream.

The success of Bajaj's approach is visible in the makeup of its median annual TSR, which at 62 percent was among the highest in the industry from 2009 through 2013. (See the exhibit below.) Sales growth contributed 20 percentage points to that total, and improved margins accounted for an additional 10 percentage points. Perhaps most remarkably, a higher multiple added 22 percentage points to TSR, a considerable feat for any emerging-market OEM—especially for a company based in India, whose equity markets are mired in a long-running decline.



under study, created value in large part by returning cash to shareholders in the form of dividends and share repurchases and by expanding their profit margins. In many cases, these manufacturers also benefited from multiple expansions influenced by investor expectations of the industry's continued recovery. Although Kia Motors' market multiple

shrank, it is a standout performer among OEMs that had a global focus, executing a comprehensive overhaul of its product line, operations, and financial position that elevated the company into the top ranks of automakers and spurred demand for its products. (See the sidebar "Kia Scores Two Hat Tricks.")

### KIA SCORES TWO HAT TRICKS

A top value creator that earns most of its sales from developed markets is South Korea's Kia Motors, which from 2009 through 2013 produced a median annual TSR of 55 percent. One hundred Korean won invested in Kia at the beginning of 2009 would have been worth 583.5 won at the end of 2013.

That's quite a performance, considering Kia's humble beginnings. Founded in 1944, Kia initially produced bicycle tubing and components before diversifying into trucks and, with the introduction of the midsize Brisa in 1974, passenger cars. Aided initially by a partnership with Ford, Kia grew steadily and began selling cars under its own name in the U.S. in 1994. A currency crisis in Asia forced Kia into bankruptcy protection in 1997, and in 1998, Hyundai bought the majority of Kia's shares, forming Hyundai Motor Group.

Using BCG's value patterns, which were introduced in our 2012 Value Creators report, Improving the Odds: Strategies for Superior Value Creation, Kia, in 2009, fit the definition of a deep-value company. Deep-value companies typically have low gross margins (a median of 18 percent, which is approximately half of the global sample median), reflecting an undifferentiated value proposition and a lack of any clear source of competitive advantage. As a result of the weak competitive positions and high debt ratios of deep-value companies, they typically have very low valuations: our global sample of deep-value companies trades at about 60 cents per dollar of enterprise book value.

Experience teaches that in order to create value, deep-value companies have to differentiate their offerings, improve productivity and margins, and reduce balance sheet risk. This is precisely what Kia did—a veritable hat trick.

It, first of all, invested strategically to differentiate its product offering. After identifying design as its "core future growth engine," Kia, in 2006, hired Peter Schreyer away from Volkswagen—where his previous work had included the iconic Audi TT—to be its new head of automotive design. Schreyer overhauled Kia's lineup, most recognizably by creating Kia's new, tiger nose grille. The new emphasis on design earned Kia international acclaim, culminating in 2012, when Kia's products won the Red Dot Award, the iF Design Award, and the International Design Excellence Award—the automotive-design world's version of a hat trick. Kia's focus on design was accompanied by consistent improvement in product quality. Ranked last in J.D. Power's 2003 Initial Quality Study, Kia climbed to number 11 among 34 OEMs in 2013, while parent Hyundai Motor Group claimed the top spot.

A localization program and high capacity utilization increased inventory turns.

Kia also improved its productivity and margins. Beginning in 2002, Kia embarked on a localization program, opening a production facility in China, followed by plants in Slovakia (2006) and the U.S. (2009). Combined with consistently high capacity utilization, the localization push increased the number of inventory turns from 1.16 in 2007 to 1.78 in 2013. A systematic platform-sharing program with parent Hyundai Motor Group helped reduce complexity and cut operating expenses from 23 percent of revenues in 2006 to 17 percent in 2013. Kia's operating cash-flow margins (calculated by dividing cash from operations by total revenues) widened from -2 percent to 10 percent over the same period.

Finally, Kia reduced its balance-sheet risk. By reducing global inventory from approxi-

# KIA SCORES TWO HAT TRICKS (continued)

mately five months at the beginning of 2008 to less than two months at the end of 2013, Kia was able to reduce its total debt by about \$6.5 billion and eliminate net debt.

As a result of this deep-value turnaround, Kia managed to return to a balanced TSR profile. (See the exhibit below.) Sales growth accounted for 17 percentage points of Kia's 55 percent median annual TSR from 2009 through 2013, and margin growth contributed an additional 26 percentage points. Those elements helped offset a shrinking multiple, which took 35 percentage points off TSR. Cash flow distributions accounted for the remaining 15 percentage points.

# **Kia Expanded Its Margins and Returned Cash by Focusing on Design and Costs**



Value creation steps

Invested strategically to differentiate its offerings

- Improved product design; in 2012, Kia won the Red Dot Award, the iF Design Award, and the International Design Excellence Award—an auto-design hat trick
- Improved product quality; in 2013, Kia ranked number 11 of 34 in J.D. Power's Initial Quality Study, a big jump from last place in 2003

Improved productivity and margins

- Localized production in China, Slovakia, and the U.S.; maintained high utilization and increased inventory turns from 1.16 to 1.78
- Reduced complexity by sharing platforms with Hyundai
- Cut operating expenses from 23 percent of revenues to 17 percent

Reduced balance sheet risk

 Reduced debt by roughly \$6.5 billion, eliminating net debt

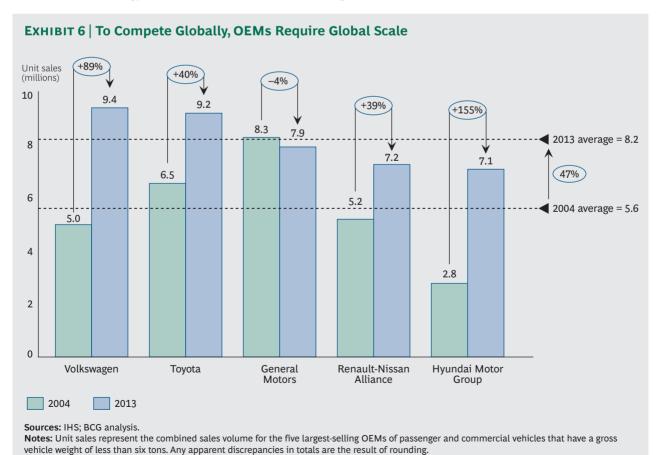
 $\textbf{Sources:} \ \mathsf{BCG} \ \mathsf{ValueScience} \ \mathsf{Center}; \mathsf{company} \ \mathsf{reports}; \mathsf{FactSet} \ \mathsf{Broker} \ \mathsf{Research}; \mathsf{BCG} \ \mathsf{analysis}.$ 

# **IMPORTANT TAKEAWAYS** FOR OEMS

EVERAL CLEAR PRIORITIES FOR automotive OEMs emerged from our analysis of TSR. Automakers should add global scale and presence, innovate to capture share, consider restructuring to improve TSR, and prepare a value creation strategy.

# Adding Global Scale and Presence

Manufacturers' performance, highlighted by a growth of 47 percent in combined unit sales for the five largest-selling OEMs during the past ten years, underscores the vital importance of global scale. (See Exhibit 6.) Global



scale not only helps OEMs remain competitive on costs but also positions automakers to capture share in high-growth markets and thus solidify their competitive advantage. It is no mere coincidence that from 2004 through 2013, top performers such as Volkswagen and Hyundai Motor Group roughly doubled the number of markets in which each sells at least 100,000 units. These companies had the global scale to establish a pervasive presence in new markets, which enabled Volkswagen to increase sales from 5 million units in 2004 to 9.4 million units in 2013, an 89 percent gain in volume; Hyundai Motor Group posted a rise in sales from 2.8 million units in 2004 to 7.1 million units in 2013, a stellar 155 percent increase.

Global scale in itself is not sufficient to boost TSR, however, especially if growth comes at the expense of profitability. For the past five years, emerging-market OEMs Hero Moto-Corp and BYD turned in annual sales-growth rates that ranged from 15 to 20 percent, but their margins barely budged, growing no more than 2 percent annually. Global scale can help OEMs attain and maintain a high TSR, but not without margin expansion.

# Innovating to Capture Share

OEMs must also make product innovation a priority, while focusing on developing vehicles suited to the unique requirements of individual markets. To successfully serve an emerging market, for example, an OEM might need to develop a low-cost, easy-to-operate, ultrasmall vehicle, while at the same time developing for mature markets a family van that has multiple components connected to the Internet. As is the case in many other industries, the top TSR performers among automotive OEMs have outspent their rivals on R&D and filed more patents.

# Restructuring for Improved TSR

To spur the growth-propelling innovation needed to serve a demanding global market-place that's in constant flux, some industry players will have to undertake a broad restructuring of their value propositions, product portfolios, finances, and governance. That will require those OEMs to reexamine and redefine their core value proposition to high-

light points of differentiation and competitive advantage. The new value proposition should lead both the overhaul of the core product portfolio (and high-return adjacencies) and the divestment of noncore, low-return assets. To support the transformation to an innovative company, OEMs will need to make targeted investments to radically improve the business model, continuously improve asset productivity, reduce complexity, and cut costs.

Global scale can help OEMs attain a high TSR, but not without margin expansion.

Ford has already traveled some distance down this route, successfully refocusing its core portfolio on high-quality, affordable vehicles that are adaptable to a wide variety of markets. At the same time, it discarded or divested noncore nameplates such as Aston Martin, Mercury, and Volvo, as well as parts maker Visteon.

General Motors has also slimmed down drastically in the past several years, discontinuing its Daewoo, Hummer, Oldsmobile, Pontiac, and Saturn nameplates, selling its Saab unit, and divesting its share of New United Motor Manufacturing, a joint venture with Toyota. It has also invested heavily in alternative-fuel technology, although sales of alternative-fuel vehicles have been disappointing to date.

Hyundai Motor Group, for its part, has invested strategically to improve product quality and technology and has initiated operational improvements to increase both productivity and margins. The stronger cash flow generated by these measures has enabled the company to deleverage dramatically and halve its debt-to-enterprise-value ratio.

Fiat and Tata Motors have taken a different turnaround route, using expedient acquisitions as their launching pads. Fiat swooped in to acquire key Chrysler assets while the U.S. company was under bankruptcy court protection and then used those assets to redefine Chrysler's value proposition. It repositioned flagship products, such as the Jeep Grand

Cherokee, as premium vehicles and launched a world-class manufacturing initiative to upgrade the entire product line and sharply reduce manufacturing waste.

Tata, for its part, has capitalized on its acquisition of the Jaguar and Land Rover brands to reinvigorate its product line, releasing new models such as the XF and the Range Rover Evoque. At the same time, Tata invested aggressively but strategically to enlarge its footprint in high-growth China, where the company recently opened its hundredth dealership. Inventory turnover, which has more than doubled since the restructuring, is pushing returns higher.

As many OEMs were painfully reminded during the financial crisis, such transformations are impossible to execute from a shaky capital base. Automakers should raise capital sufficient to stave off disruptive defaults or early repayment demands and use their cash flow to deleverage. Reduced dependence on a single country or region, market segment, or product will in turn reduce risk, as will greater control over the cost of critical inputs.

# Acquisitions should focus on filling strategically important gaps and amassing scale.

Inorganic growth, though indisputably vital to some restructuring plans, needs careful management and discipline to avoid deals that make a splash without adding substantially to cash-on-cash returns. Acquisitions should focus on filling strategically important gaps and amassing the scale needed to play in the global arena. Automakers that have successfully acquired companies could very well have the advantage here, applying what they've learned from earlier restructurings to unlock the value latent in their target companies.

Governance should be aligned with an automaker's restructuring strategy. Management incentives should be designed to support the major levers of TSR: margins, capital returns, and effective risk control. And as financial

stability returns, OEMs should shift their focus to returning cash to shareholders steadily and predictably.

# **Preparing a Value Creation** Strategy

Whether or not OEMs contemplate restructuring, they need to prepare a long-term valuecreation strategy that takes into account all the drivers of TSR. To implement the strategy, automakers should cultivate execution excellence along multiple dimensions, including product quality, supplier relations, manufacturing footprint, and globally optimized platforms. Attaining excellence on the latter will prove especially challenging, as manufacturers will have to deliver high-performance, regulation-compliant vehicles for mature markets while optimizing costs for emerging markets.

In addition to these considerations, OEMs face a number of longer-term strategic issues for which they will have to define their course to stay relevant in a fast-moving market. These issues include the following:

- The Increasing Importance of the Connected Car. The rising number of embedded electronic components and the related external infrastructure requirements (such as sensor-equipped roads) will pose significant cost challenges even as OEMs deliver a value-adding suite of services.
- Higher Standards for Emissions and Fuel Economy. Meeting the standards set to take effect in 2025 and 2030 will require OEMs and their supply chains to innovate in power trains, transmissions, and lightweight materials.
- New Retail Concepts. OEMs need to develop an end-to-end digital strategy stretching from lead generation and virtual showrooms to a full e-commerce consumer offering.
- The Rise of New Mobility Concepts. Developments such as self-driving vehicles and car sharing promise to wreak profound changes on the automotive industry, altering consumer choices and behaviors and attracting nontraditional competitors (such as Google).

# **COMPONENT MAKERS**

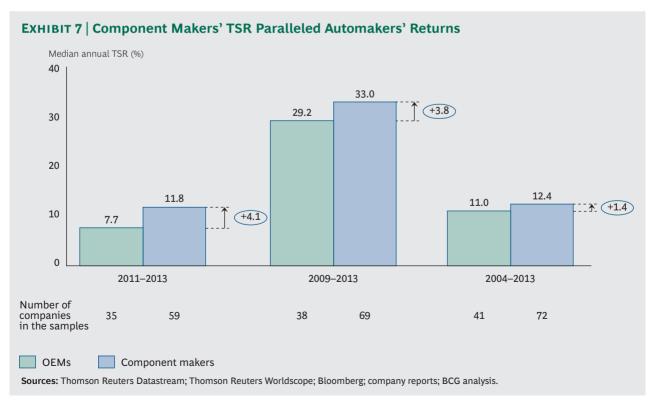
# SEARCHING FOR SUSTAINABILITY

S WE'VE SHOWN IN the preceding pages, shareholders of automotive manufacturers have generally prospered during the past five years. Shareholders of component makers have prospered even more. Like companies in the OEM sector, those in the component maker sector created significant value from 2009 through 2013, posting a 33 percent median annual TSR. (See Exhibit 7.) That showing would place component

makers among the highest performers of the 26 industries tracked by BCG.

## A Handful of Perennial Value Creators

The top ten performers in the component maker sector combined for a median annual TSR of 63 percent from 2009 through 2013. They were led by Plastic Omnium, with a 96 percent medi-



an annual TSR; Dana, with 94 percent; and TRW, with 83 percent. (See Exhibit 8.) Three companies—exterior-parts supplier Plastic Omnium, manufacturer and distributor Dorman Products, and tire maker MRF—ranked among the top ten performers across the most recent three-, five-, and ten-year periods. (See the sidebar "Dorman Products: Average No More.") The five-year performance figures should be considered in their proper context, though. That time frame begins with the calendar year immediately following the largest contraction in global economic activity since the Great Depression; therefore, the improvement in TSR is measured from an extraordinarily low base.

Performance was to some extent dependent on location, with component makers in China

subsidiaries in other countries.

producing a five-year median annual TSR of 29 percent and those in the rest of the world outside the developed markets of Europe, Japan, and North America posting a 49 percent return. The five-year median annual TSR for European component makers was 38 percent, while their North American counterparts delivered a 39 percent return.

Japanese and South Korean component makers posted a median annual TSR of 29 percent in the most recent five-year period, in line with companies in China. The toll taken by the 2011 Fukushima Dajichi nuclear disaster and the weak yen was more apparent when we looked at their returns on a weighted-average basis to reflect their market capitalizations. The disaster disrupted—if not altogether obliterated—

#### EXHIBIT 8 | Three Companies Consistently Ranked in the Automotive-Component Value-**Creators Top Ten** Rank Three-year TSR, 2011-2013 Five-year TSR, 2009-2013 Ten-year TSR, 2004-2013 Country Country Country Company or region Subsector Company or region Subsector Company or region Subsector Motherson Plastic Exterior Plastic Exterior Rest of Electrical (1) Europe Sumi Europe parts the world Omnium parts Omnium systems Systems North Dorman North Retailer or Tovo Tire Chassis Tires Dana lapan America Products America distributor North Dorman North North Retailer or Retailer or Diversified TRW LKQ. distributor **Products** America distributor America America North Kenda Tires Chassis Nexen Tire China Tires Tenneco Tires lapan America Plastic North Retailer or North Exterior LKQ Linamar Chassis Europe distributor Omnium America America parts Rest of Retailer or (6) Chassis Yazicilar Showa Japan MRF Tires Europe the world distributor ---------------Dorman North Exide North Electrical Diversified Continental Europe **Products** America distributor Technologies America systems Xinyi Glass Exterior Rest of China MRF Brembo Europe Chassis Tires Group the world Rest of North (9) MRF Tires Valeo Europe Diversified Tenneco Chassis the world America (10 Kenda Tires China CST China Tires Yokohama lapan Tires Tires Tire Top ten value creators across three-, five-, and ten-year periods Sources: Thomson ONE Analytics; company reports; analyst reports; BCG analysis.

Note: A company's country or region was determined by the location of its headquarters. The market capitalization of an OEM includes its

# DORMAN PRODUCTS Average No More

Dorman Products, founded in 1918 in Cincinnati, Ohio, has been in the automotive aftermarket business almost as long as automobiles have been manufactured. Providing aftermarket and repair parts for vehicles in the U.S., Dorman designs, packages, contract manufactures, and markets more than 150,000 products for the light-passenger-vehicle aftermarket. In 1995, R&B acquired Dorman; in 2006, R&B changed its name to Dorman Products to take advantage of the well-established Dorman brand.

Dorman Products produced standout returns for shareholders over the short and long terms, as evidenced by its top-ten appearances in our three-, five-, and ten-year automotive-component value-creator rankings. Dorman's consistent record of value creation derived in part from its position as a supplier of replacement parts. The aftermarket business tends to have less margin pressure than the OEM-focused supply business, and Dorman's particular niche contracted much less than the automotive industry as a whole during the financial crisis.

Being in the right place at the right time was only part of the story, though. Dorman enjoyed very healthy cash gross margins of 34 to 40 percent. Its return on gross investment never dropped below 8 percent during the financial crisis and then held steady at 18 percent. And the company had little or no debt.

In addition, Dorman adroitly applied a few major levers to create significant value

during the five years from 2009 through 2013. Using BCG's value patterns, Dorman would have been classified as an average company in 2007. (See *The 2013 Value Creators Report: Unlocking New Sources of Value Creation*, BCG report, September 2013.) Dorman's priorities helped unlock value. (See the exhibit at right.)

First, Dorman continued to develop a differentiated value proposition and thus improved or maintained its high gross margins. Second, it managed the health of its product portfolio, focusing on measured growth through careful expansion into segments that were in or had many synergies with its core business. At the same time, it largely avoided segments that added high commercial risk or complexity. To a lesser extent, it also applied other valuecreation levers suitable for an average company, including de-averaging the company profile, applying differentiated strategies to diversified business units, consistently returning cash to shareholders, and protecting its customer base and market share while continually improving returns.

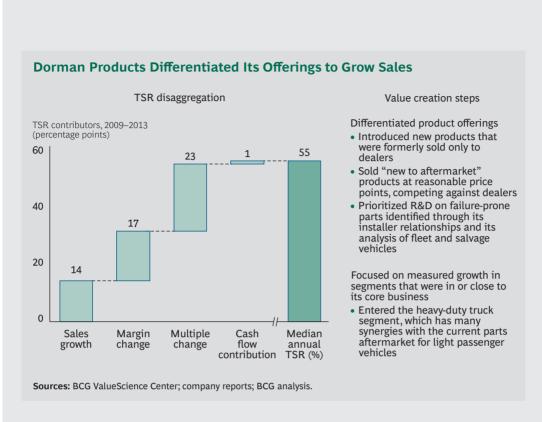
Dorman continued to focus on products that were new to the aftermarket, often introducing 2,000 or more products each year. Of those products introduced, typically 30 percent or more were items that were available in the aftermarket channel for the first time, being previously reserved for dealers only. During the five-year period under review, Dorman increased its parts portfolio by 45 percent while culling low-volume and low-margin products. New products

some supply chains, and the weak currency severely slowed economic activity.

# Assembly Rates Are Stuck in Neutral

Automotive assembly rates fell into negative territory in Europe and Japan in the five years

following the 2008 financial crisis, but nearly €8 billion in European government-subsidized scrappage programs generated enough new-vehicle sales to hold sales declines from 2008 through 2009 to 4.9 percent in Europe. Japan's scrappage initiative was less successful, as demonstrated by that country's 8.3 percent drop in automobile sales during the same



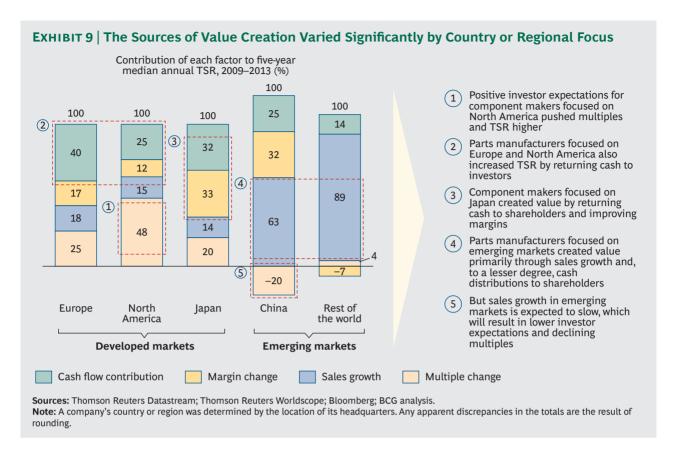
were important to Dorman's growth, with more than 20 percent of sales coming from products introduced from 2012 through 2013. This is a good example of how increased complexity can be a source of value creation, provided the complexity is well managed.

Dorman also focused on selling "new to aftermarket" products at reasonable price points, which was a strong selling point with consumers unwilling to pay dealership prices for replacement parts. The company would be able to extend its very strong growth trajectory in the U.S. light-passenger-vehicle market only as long as it could continually introduce products at advantageous price points.

To that end, Dorman used a variety of methods to target failure-prone original equipment (OE) for which it could sell a new-to-aftermarket replacement. Many new-product concepts emerged from insights gained through its strong ties with installers. By gathering intelligence from shops that had daily experience with failing OE parts. Dorman could gauge consumers' needs and set product development priorities. To that same end, Dorman also dispatched engineers to examine fleet and salvage vehicles to identify additional failure-prone items. By focusing on products with high failure rates and sourcing roughly 80 percent of production from low-cost countries. Dorman was able to maintain a differentiated brand with attractive gross margins.

time period. Economic softness attributable to the Fukushima Daiichi disaster and the weak yen were again the culprits, slowing inventory turnover in the automotive industry.

Like TSR performance, the sources of TSR varied widely across countries and regions. (See Exhibit 9.) Component makers that focused on the developed markets of Europe and North America generated shareholder returns largely through improved valuation multiples—which increased in response to rising investor expectations—and cash payments to shareholders. Parts manufacturers that concentrated on Japan, the third member of the triad of primary mature markets, directed the



bulk of their value-creation efforts toward returning cash to shareholders and improving margins. And component makers that focused on emerging markets relied on revenue growth and, to a lesser degree, cash distributions to shareholders to drive TSR. Sales growth has already begun to slow in China and the rest of the world, however, and with investors clearly expecting more of the same, earnings multiples have fallen, to the detriment of TSR.

Power train suppliers' revenues were boosted by new laws and regulations.

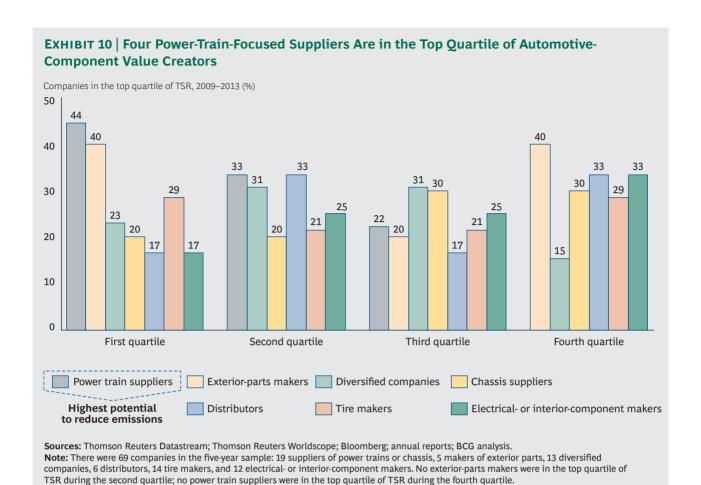
# Power Train Suppliers Are in Overdrive

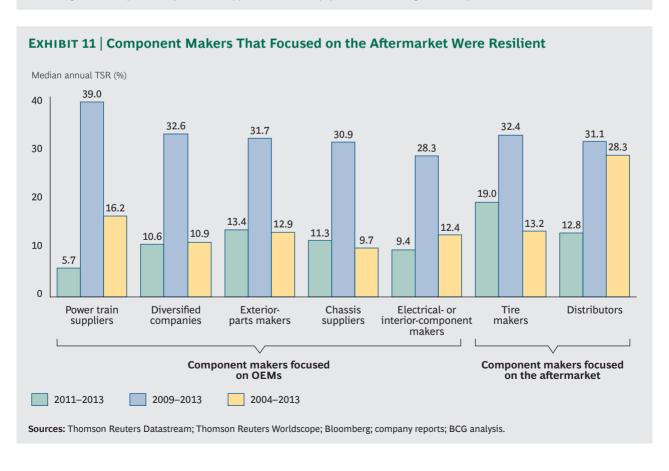
Power train suppliers were the top-performing component subsector; their revenues and returns were boosted by new laws and regulations aimed at improving fuel efficiency and reducing vehicle weight, as well as growing consumer demand for "greener" vehicles.

Suppliers' efforts to reduce emissions of carbon dioxide and other greenhouse gases are centered around dramatic efficiency improvements in internal-combustion engines. By 2020, innovations in drivetrain technology promise to reduce emissions by some 40 percent, at a cost to consumers of roughly \$50 to \$60 per percentage point reduction in CO<sub>2</sub> emissions, the equivalent of about \$2,000 per vehicle. These fundamental factors, which got a significant boost in 2008 after several years of oil price increases, have propelled four power-train-focused suppliers from our sample into the top quartile of value creators over the most recent five-year period. (See Exhibit 10.)

# The Aftermarket Advantage

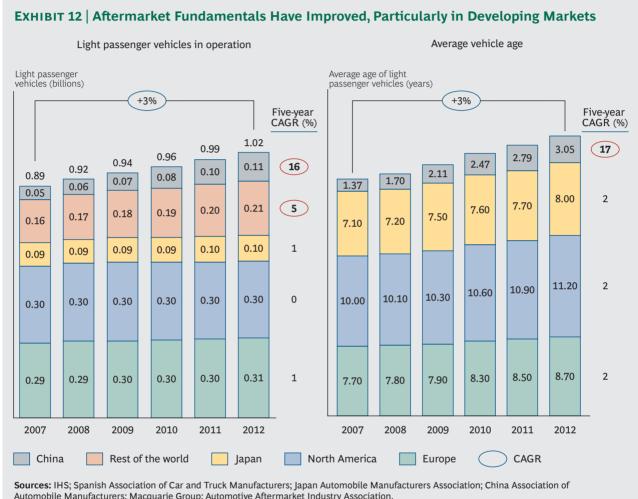
Compared with component makers that sold products predominantly to OEMs, those that derived a high percentage of their sales from the aftermarket channel were more resilient during the most recent three-, five-, and tenyear periods. (See Exhibit 11.) They benefited from approximately 14 percent growth (a CAGR of 3 percent) in the number of light passenger vehicles in operation globally and about an 18 percent rise (a CAGR of 3 per-





cent) in the average age of vehicles on the road. (See Exhibit 12.) The developing world accounts for most of the growth in both categories. In China, for example, the number of light passenger vehicles is growing at a CAGR of 16 percent, compared with 5 percent in the rest of the world, and less than 1 percent in the triad markets.

The rising age of vehicles is a positive fundamental. The average age of a light passenger vehicle in China is rising at a CAGR of 17 percent, compared with 2 percent in the triad markets. As vehicles age, parts wear out and need to be replaced, generating a favorable impact on aftermarket demand.



Automobile Manufacturers; Macquarie Group; Automotive Aftermarket Industry Association.

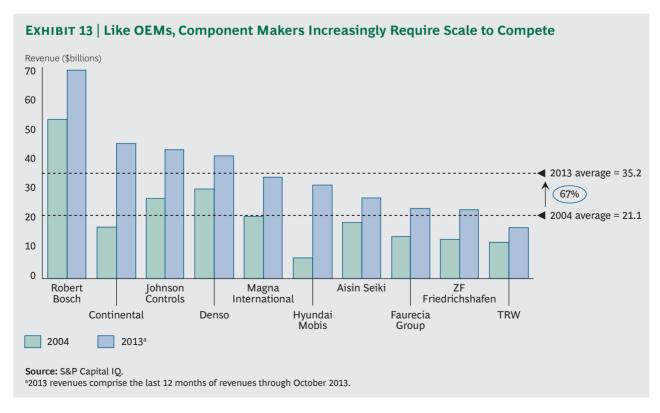
Note: Any apparent discrepancies in totals are the result of rounding. There was no data available for the average vehicle age for the rest of the world.

# **IMPERATIVES FOR GROWTH**

UST AS THE TSR of component makers closely tracked that of OEMs, so, too, does the sector's growth agenda closely resemble that of OEMs. It hinges on the ability of component makers to attain or expand global scale—which they need to establish a sustainable presence in the world's automotive markets—and to continue supporting innovation. Parts makers should also nurture aftermarket business.

### An Agenda for Component Makers

Global scale is self-reinforcing. Or to put it another way, the big tend to get bigger, as is demonstrated by the 67 percent average increase in the revenues of the top ten component makers (by size) from 2004 through 2013. (See Exhibit 13.) Global scale has enabled leading players to compete effectively on cost in disparate markets and to support



the product development efforts demanded by OEMs, which increasingly rely on parts manufacturers to deliver the innovations in power train technologies and lightweight materials that differentiate their vehicles.

Component makers will also need a truly global footprint to compete effectively. A significant presence in key markets will enable these companies to serve the growing number of OEMs that have developed single global platforms to facilitate building and selling vehicles in multiple markets.

Component makers will face increasing pressure in the coming years to step up their investments in innovation—or more specifically, in the engineering prowess needed to develop products that meet the unique needs of individual markets. Winning players will be acutely alert to the voice of the customer, will identify technology and knowledge gaps quickly and accurately, and will pool their strengths with well-chosen strategic partners to develop emerging technologies. In the past ten years, component makers have surpassed OEMs in the number of patents filed; going forward, parts manufacturers must increasingly differentiate themselves by their ability to produce a continuous stream of innovations.

At the same time, component makers will need to devote significant management time and energy to nurturing aftermarket business in new markets and segments. By steadily increasing the share of aftermarket sales in their revenue mix, these companies can cushion themselves against cyclical fluctuations in the OEM channel.

# Developing a Strategy for Sustainable Returns

The aim of building global scale, establishing a global presence, and innovating is to set a company on a course of sustained, above-market TSR performance. BCG tackled the question of sustainability several years ago. (See *Searching for Sustainability*, BCG report, October 2009.) We introduced the TSR sustainability matrix—a framework for graphically portraying the dynamic relationships among the sources of TSR. This

framework enables company leaders to quickly visualize the organization's growth drivers and plan how to optimize each of them for sustained TSR performance. The point of the exercise is to enable senior executives to develop a detailed roadmap to sustained value creation that includes the following:

- An explicit TSR target that strikes an appropriate balance first between a company's aspirations and what it can realistically achieve and then between short- and long-term performance
- A detailed understanding of the performance improvements required in order to achieve that TSR target and the precise sequence in which those improvements need to take place
- A sense for how shifts in a company's valuation multiple will likely impact the company's performance requirements, as well as contingency plans for dealing with those shifts if and when they occur
- TSR-based operational targets and metrics that a company can apply throughout the organization and embed in its incentive and compensation systems
- Shifting the planning, budgeting, and capital-allocation benchmarks away from attaining annual incremental improvements to historical performance and toward a set of criteria based on contribution to long-term TSR

Analyzing a company's performance in terms of its ability to deliver sustainable value creation is what investors do every day. Armed with the right tools, there is no reason why executives can't develop an even betterinformed perspective, given their intimate knowledge of the company's plans and industry trends. When executives do, they can stay one step ahead of investor expectations and consistently generate superior shareholder value for many years to come.

# FOR FURTHER READING

The Boston Consulting Group publishes many reports and articles that may be of interest to senior executives. Examples include:

### The 2014 Value Creators Report: Turnaround; Transforming Value Creation

A report by The Boston Consulting Group, July 2014

### Accelerating Innovation: New Challenges for Automakers A Focus by The Boston Consulting Group, January 2014

A Light Breeze or the Perfect Storm? Assessing the Risks for European Automotive Suppliers An article by The Boston Consulting Group, January 2014

# **Beyond BRIC: Winning the Rising Auto Markets**

A report by The Boston Consulting Group, October 2013

# A Conversation with Larry Summers

A video by The Boston Consulting Group, October 2013

# The Most Innovative Companies 2013: Lessons from Leaders

A report by The Boston Consulting Group, September 2013

# Transforming Russia's Auto Industry: From Recovery to Competitiveness

A Focus by The Boston Consulting Group, July 2013

# Powering Autos to 2020: The Era of the Electric Car?

A report by The Boston Consulting Group, July 2011

# NOTE TO THE READER

### **About the Authors**

Xavier Mosquet is a senior partner and managing director in the Detroit office of The Boston Consulting Group. Justin Rose is a partner and managing director in the firm's Chicago office. Rakshita Agrawal is a principal in BCG's Atlanta office. Frank Plaschke is a partner and managing director in the firm's Munich office. Sachin Nandgaonkar is a senior partner and managing director in BCG's Chennai office. Marco Gerrits is a partner and managing director in the firm's Beijing office.

### **Acknowledgments**

The authors would like to thank Philippe Dehillotte, Andreas Dinger, Hady Farag, Andrew Gillespie, Kerstin Hobelsberger, Vikram Janakiraman, Nikolaus Lang, Sudarshan Mhatre, Matt Smith, and Ryan Thorp for their contributions to the research; Harris Collingwood for his writing assistance; and Katherine Andrews, Gary Callahan, Elyse Friedman, Kim Friedman, Abby Garland, Trudy Neuhaus, and Sara Strassenreiter for their contributions to the editing, design, and production of the report.

### **For Further Contact**

For further information about the report, please contact one of the authors.

### **Xavier Mosquet**

Senior Partner and Managing Director BCG Detroit +1 248 688 3500 mosquet.xavier@bcg.com

### **Justin Rose**

Partner and Managing Director BCG Chicago +1 312 993 3300 rose.justin@bcg.com

### Rakshita Agrawal

Principal BCG Atlanta +1 404 877 5200 agrawal.rakshita@bcg.com

### Frank Plaschke

Partner and Managing Director BCG Munich +49 89 231 740 plaschke.frank@bcg.com

### Sachin Nandgaonkar

Senior Partner and Managing Director BCG Chennai +91 44 6600 1680 nandgaonkar.sachin@bcg.com

### **Marco Gerrits**

Partner and Managing Director BCG Beijing +86 10 8527 9000 gerrits.marco@bcg.com

 $\hbox{@}$  The Boston Consulting Group, Inc. 2014. All rights reserved.

For information or permission to reprint, please contact BCG at:

E-mail: bcg-info@bcg.com

Fax: +1 617 850 3901, attention BCG/Permissions

Mail: BCG/Permissions

The Boston Consulting Group, Inc.

One Beacon Street Boston, MA 02108

USA

To find the latest BCG content and register to receive e-alerts on this topic or others, please visit bcgperspectives.com.

Follow bcg.perspectives on Facebook and Twitter.



Abu Dhabi Amsterdam Athens Atlanta Auckland Bangkok Barcelona Beijing Berlin Bogotá Boston Brussels **Budapest Buenos Aires** Calgary Canberra Casablanca

Chicago
Cologne
Copenhagen
Dallas
Detroit
Dubai
Düsseldorf
Frankfurt
Geneva
Hamburg
Helsinki
Ho Chi Minh City
Hong Kong
Houston
Istanbul

Jakarta

Chennai

Johannesburg Kiev Kuala Lumpur Lisbon London Los Angeles Luanda Madrid Melbourne Mexico City Miami Milan Minneapolis Monterrey Montréal Moscow Mumbai

Munich Nagoya New Delhi New Jersey New York Oslo Paris Perth Philadelphia Prague Rio de Janeiro Rome San Francisco Santiago São Paulo Seattle Seoul

Shanghai Singapore Stockholm Stuttgart Sydney Taipei Tel Aviv Tokyo Toronto Vienna Warsaw Washington Zurich