

Creative Global Investments

Thursday, January 21st 2016



Sabine CJ Blümel Automotive Research

Creative Global Advisers (UK) LLP

sblumel@cg-inv.com Tel +44 7785 301 588

Creative Global Investments LLC

115 East 57th Street 11th Floor New York, NY 10022 Tel +1 212 939 7256

Creative Global Investments/Europe

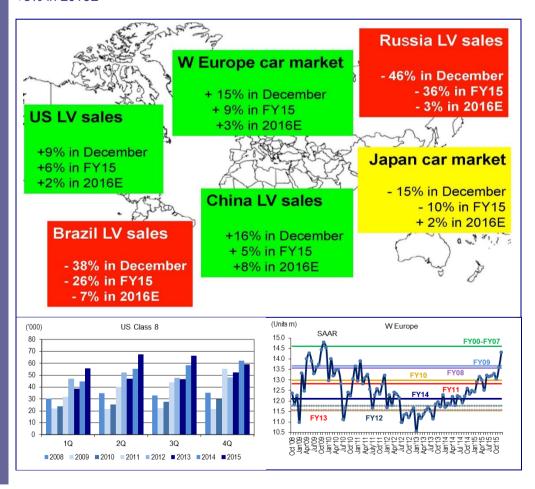
5, op der Heed L-1709 Senningerberg Luxembourg Tel +352 2625 8640

Objectivity
Integrity
Creativity

Global Automotive Demand Atlas January 2016 edition

Global light vehicle markets

- +5% in December
- +2% in FY15
- +3% in 2016E



IMPORTANT DISCLAIMER: As a company purely focused on research, CGI LLC has no business relationships with the company covered in this report, be it investment banking, consulting or any other type of relationship. In addition, CGI LLC does not seek and does not intend to seek in the future any such businesses, maintains complete independence and has no conflicts of interest related to the companies in its research universe. Neither the analysts responsible for this report nor any related household members are officers, directors, or advisory board members of any covered company. No one at a covered company is on the Board of Directors of CGI LLC or any of its affiliates. In addition, CGI LLC and its employees, including the analyst who wrote this report, hold no equity, debt or other linked derivative investments, the value of which is related in any way, directly or indirectly, to the operating and stock price performance of the company covered in this report. No such investment positions are held in any of the competitors, suppliers or customers of the companies in our coverage universe. This report is provided for information purposes only. It should not be used or considered as an offer of securities and it does not represent a solicitation to either buy or sell any securities or derivatives thereof.

Contents

Global LV markets	3
US LV sales	4
Western Europe car market	
Germany	10
France	11
Italy	12
Spain	13
UK	
Japan pc market	15
China LV market	16
Brazil LV market	
Russia LV market	19
Demand trends for trucks	20
US medium & heavy truck market	20
Europe heavy truck markets	
Japan medium & heavy truck market	22



Global LV markets

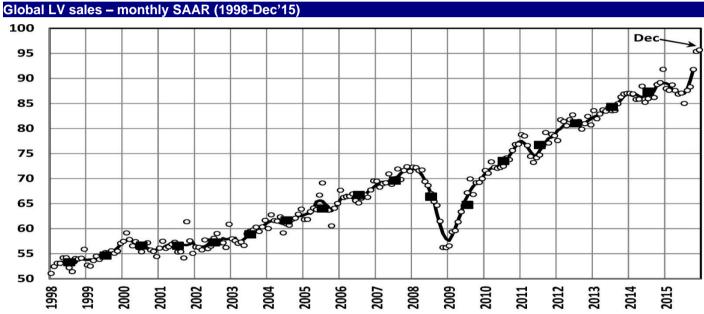
+5.2% in December

+2.0% in FY15

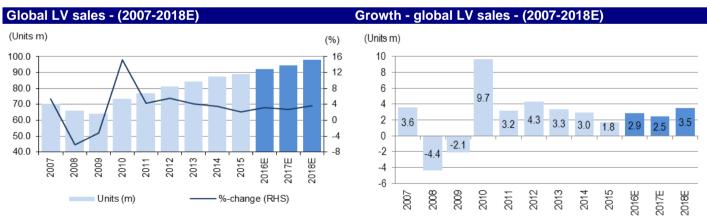
In December, global light vehicle sales increased 5.2% yoy to 8.44m, after 4.9% in November, resulting in a global market of 89.10m in FY15, implying an increase by 2.0% or 1.76m from FY14's 87.34m. LMC Automotive (LMCA) calculate that underlying demand continued to strengthen in December, with a SAAR (seasonally adjusted annualised rate) of 95.7m units/year, 1.7% up from 94.1m in November. The strong recovery of the SAAR in 4Q15, exceeding even those of December'14 (92.1m) and January'15 (89.4m), is due to a strong recovery in China, supported by continuing strong performances in the US and Western Europe.

+3.2% in FY16E

For FY16E, we expect a global LV market of almost 92m, implying an increase by some 3.0% or 2.9m, implying a slight acceleration from FY15's growth of 2.0%. We expect that the LV markets in the US, W Europe and China will continue to grow, while markets in commodity- and oil-dependent economies will be able to stabilise at low level, despite prolonged and deep recessions. In 2016E-18E, global LV sales are expected to grow by just over 3% p.a.



Source: LMC Automotive



Source: LMC Automotive and CGI estimates

Source: LMC Automotive and CGI estimates

US LV sales

+9.0% in December

+5.8% in FY15

Sales boom driven by consumers....

...and trucks

Big Four

VW brand sales down 11% in 4Q15

+1.9% in FY16E

Stabilisation from 2017E onwards

In December, US LV sales increased 9.0% yoy to 1.64m units, after 1.4% in November and 13.7% in October, resulting in a 5.8% increase to 17.44m in FY15. Adjusted for the number of selling days (28 in Dec'15 & 26 in Dec'14, 23 in Nov'15), the market was up 1.2% yoy and up 2.3% mom in December and up 5.5% yoy in FY15. According to LMCA, the December SAAR of 17.3m was up 0.5m yoy and down 0.9m from 18.2m in November.

Retail sales have been the US market's dominant driver since May 2012. In December, the retail SAAR of 14.6m was up 0.7m yoy and up 0.6m from November's 13.9m and down 0.7m from a record 15.3m in September. Low gas prices have continued to fuel the outperformance of light trucks that advanced 18.6% in December and 12.4% in FY15, to 10.08m or 57.8% of total market. Sales of SUVs were up 22.8% in December and 15.7% in FY15, at 6.44m or 36.9% of the market. Despite higher discounting, the improving mix has resulted in a further increase in average transaction prices by 1.8% yoy to an all-time record of USD 34.5k in December, (See pp.4-5.)

At the **GM group**, sales increased 5.7% in December, resulting in a 5.0% increase to 3.08m in FY15 or a 17.7% share. Sales at the **Ford group** increased 8.8% in December and 5.5% to 2.58m or 14.8% in FY15. **Toyota's group** sales increased 10.8% in December and 5.3% in FY15, to 2.50m or 14.3%. **FCA** generated increases of 12.3% in December and 7.2% in FY15 to 2.26m or 12.9%.

Due to the diesel scandal and the stop of sale of diesel powered LVs in the US, the VW brand's sales decline accelerated to -11.3% yoy in 4Q15, from -2.5% in 1-3Q15, resulting in a -4.8% decline to 349.4k units in FY15. At Audi, sales growth decelerated from +12.5% in 1-3Q15 to +7.4% in 4Q15, resulting an 11.1% increase to 202.2k units in FY15. With even a technical solution remaining elusive, domestic and foreign volume brands should continue to gain share from the expense of the VW brand.

At 17.44m units, the FY15 LV market reached the highest level since 2000, exceeding the 17m mark for the first time since 2001. Running currently at a SAAR of 18m, the LV is set for an increase of almost 2% to 1.78m units in FY16E. Positive factors include continuing pent-up demand, the economic recovery, strong consumer confidence, and plunging gas prices. However, the LV market has become increasingly dependent on generous consumer credit conditions, with easy access and extended loan terms. The steady growth of the average term of loans and the rising share of loans with duration longer than 72 months is a growing concern and could hamper future sales growth.

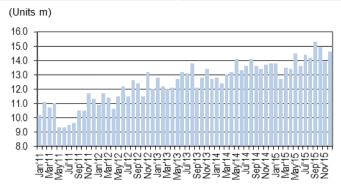
In 2017-18E, the US market is expected to stabilise at high levels; this is based on the assumption of annual GDP growth rates in excess of 2.5% and supporting factors such as replacement demand, growing household wealth, and new household creations.

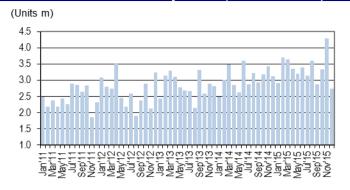
US LV sales - monthly SAAR (Dec'07-Dec'15)



Note: The estimated seasonal factors for the SAAR calculations for July 2014 – June 2015 are restated due to the recent update of seasonal factors from the U.S. Bureau of Economic Analysis (BEA). Source: Autodata

US Retail LV sales – monthly SAAR (Jan'11–Dec'15) US Fleet LV sales – monthly SAAR (Jan'11–Dec'15)

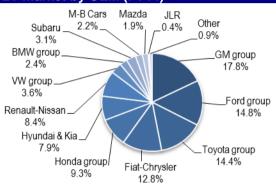


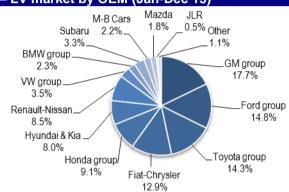


Source: LMC Automotive Source: LMC Automotive

US - LV market by OEM (FY14)

US - LV market by OEM (Jan-Dec'15)



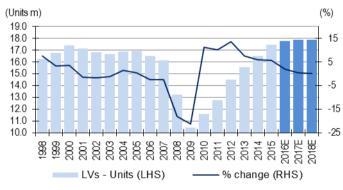


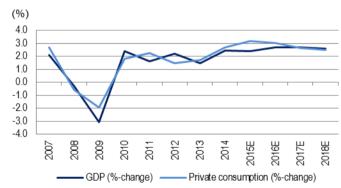
Source: LMC Automotive and CGI calculations

Source: LMC Automotive and CGI calculations

US LV sales (1998-2018E)

US - real GDP and private consumption (2007-18E)



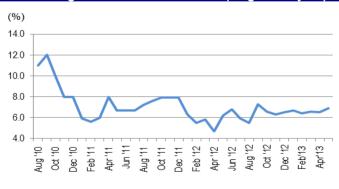


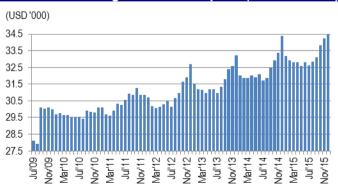
Source: LMC Automotive and CGI estimates

Source: Oxford Economic, IMF and CGI estimates

US LV – avge. discount from MSPR (Aug'10-May'13)

US LV market – avge. transaction price (Jul'09-Dec'15)





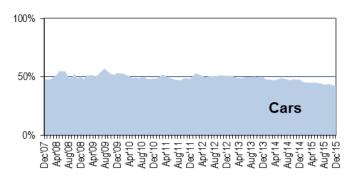
Source: TrueCar

Source: PIN (Power Information Network by J.D. Power and Associates)



US LV sales - split cars & trucks (Dec'07-Dec'15)

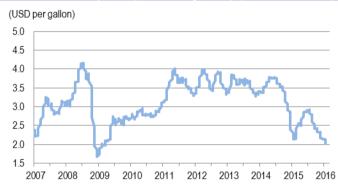


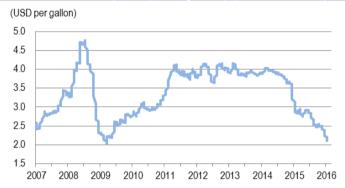


(*) July of respective year. Source: Polk

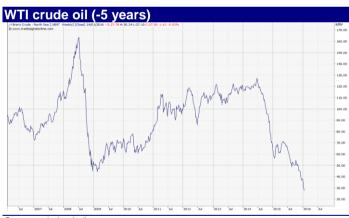
Source: Autodata

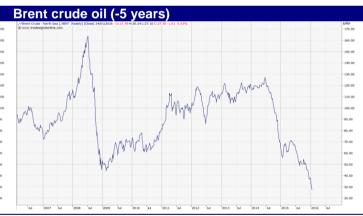
US - Gas retail price (USD/US gallon) (Jan'07-Jan'15) US - Diesel retail price (USD/gallon) (Jan'07-Jan'15)





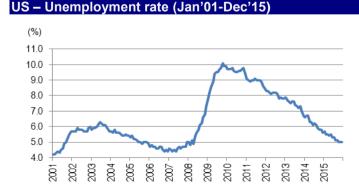
Weekly U.S. All Grades All Formulations Retail Gasoline Prices (Dollars per Gallon) Source: EIA Weekly U.S. Diesel (On-Highway) - All Types (Dollars per Gallon) Source: EIA





Source: tradesignalonline.com

Source: tradesignalonline.com





Source: Bureau of Labor Statistics

S Source: Thomson Reuters/University of Michigan

Western Europe car market

+15.2% in December

+9.0% in FY15

In December, WE passenger car registrations increased 15.2% yoy to 1.06m units, after +12.6% in November and +2.5% in October, resulting in a 9.0% increase to 13.20m in FY15. In December, the SAAR continued to strengthen strongly, to 14.31m, 5.3% up mom/from November's 13.59m and the best result since December 2009 (14.53m) that had been boosted by scrappage schemes in the Germany and the UK.

However, December saw a major pull forward in sales in the Netherlands (ahead of changes in taxation) and a spike in the UK market. Adjusted for these outlier results, WE SAAR was closer to 13.5m, in line with November.

Over the past 36 months, the SAAR has improved by some 30%, from an exceedingly low SAAR of 10.55m in January 2013. Although FY15's market of 13.20m was 9.0% better than FY14's 12.10m, it remained 9.7% below the long-term pre-crisis average of 14.6m units. (See p.7.)

All Big 5 advance strongly in FY15

Germany +5.6%

France +6.8%

UK +6.3%

Italy +15.8%

Spain +20.9%

+3.0% in FY16E

+1.9% in 2017E

Germany, Western Europe's largest car market by far increased 7.7% in December and 5.6% in FY15. However, at 3.21m units, the FY15 market remained 2.9% below the LT pre-crisis level of 3.3mm. **French** car registrations increased 12.5% in December and 6.8% to 1.92m in FY15. However, at 1.92m units the market 3.8% below the pre-crisis 2000-07 level of 2.09m. In the UK, the car market increased 8.4% in December and 6.3% in FY15. At 2.63m units, the market was 7.6% above the long-term pre-crisis average of 2.45m units. In FY15, **Italian** car registrations increased 14.5% to 1.57m and thus remained 33% below the 2.34m LT pre-crisis trend. In **Spain**, improving consumer confidence and the PIVE incentive scheme drove the car market's 20.9% increase in FY15. At 1.05m, the FY15 market remained 30% below pre-crisis trend. (See discussion for the Big Five on pp. 9-13.)

A weak euro and lower energy prices have greatly enhanced the macro-economic fundamentals In the Eurozone. After two years of contraction, GDP growth in the Eurozone is expected to accelerate from 0.9% in FY14 to 1.5% in FY15E and 1.7% in 2016E. The UK economy is expected to decelerate moderately, from FY14's 2.9%. Growth in the WE car market is set to continue to grow, 3.0% to 13.60m in FY16E and by 1.9% to 13.85m in 2016E. In 2016E, Italy, Spain and peripheral markets are expected to drive the expected 0.4m increase in unit sales, whereas in FY15, all major markets contributed to the 1.09m increase.

Only limited reversal of collapse in pricing discipline in the short term

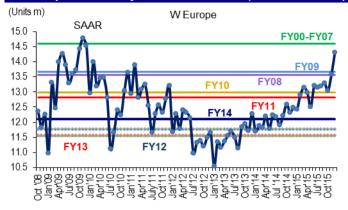
VW emission scandals should intensify again competitive pressure

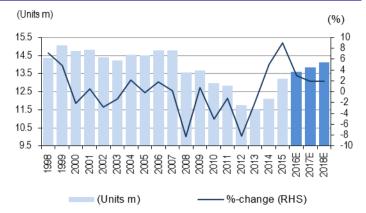
However, we continue to caution that the recovery in the WE car market after six years of recession is overshadowed by OEMs expecting to be able to increase pricing only slowly and indicating that discounts from sticker prices in excess of 10% are still widespread. Although the horrendous competitive pressures originated in the crisis-hit Southern European markets, they have been spreading to the better performing northern European ones, a trend that has intensified since mid-2012. In addition to record discounts, special deals and cheap financing, OEMs and dealers have increasingly resorted to tactics such as pre-registering. This is the more the case as the VW group is seen and expected to continue to use aggressive marketing as a means to contain the erosion of market share as a result of the emission scandals.

Polarisation in demand

The trend of polarisation in demand into premium and discount brands and products has been intact for the past 20 years and intensified during the prolonged crisis. Driving forces have been the downsizing on the part of the premium brands and an improvement in quality of discount branded products.

W Europe – monthly SAAR¹ vs. trend (Oct'08–Dec'15) W Europe – pc registrations (1998-2018E)



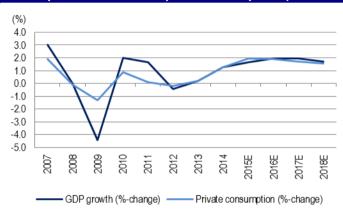


(1) SAAR according to calculations by LMC Automotive. Source: ACEA, LMC Automotive , CGI calculations

Source: LMC Automotive and CGI estimates

W Europe – pc registrations (1961-2020E)

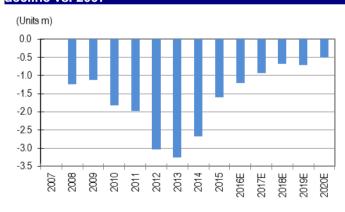
W Europe - real GDP and priv. consumption (2007-18E)



Source: ACEA, LMC Automotive and CGI estimates

Source: Oxford Economics and CGI estimates

W Europe – depth of recession – 2008-20E volume decline vs. 2007



W Europe – current recession in historic context

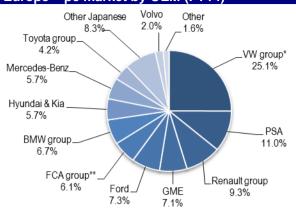
				Frend growth
	Depth ¹		Duration	rate
	(Units m)	(%)	(years)	(%)
1970 - oil shock	-1.15	-12.4	< 3	5
Early 1980s recession	-0.75	-7.0	~ 6	3-4
1993 recession	-2.26	-16.8	~ 5	2-3
Current crisis (E)	-3.24	-21.9	>~14	1-2

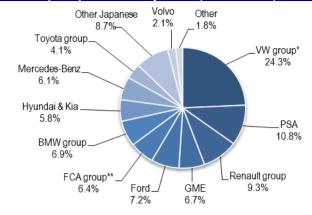
Source: LMC Automotive and CGI estimates

Source: LMC Automotive and CGI estimates

W Europe – pc market by OEM (FY14)

W Europe - pc market by OEM (Jan-Dec'15)



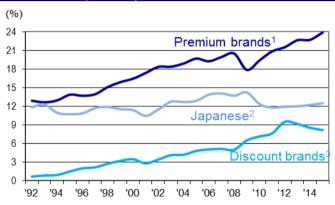


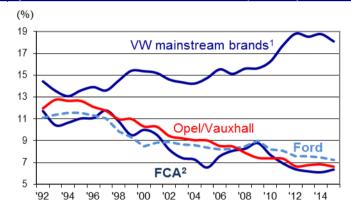
(*) VW group incl. Porsche. (**) Fiat group incl. Chrysler and Jeep. Source: Association Auxiliaire de l'Automobile, ACEA and CGI calculations

(*) VW group incl. Porsche. (**) Fiat group incl. Chrysler and Jeep. Source: ACEA and CGI

Premium brands, Japanese and discount brands - WE Mainstream brands: VW group excl. Audi, market share ('92-'15*)

Opel/Vauxhall, Ford, FGA - WE share ('92-'15*)



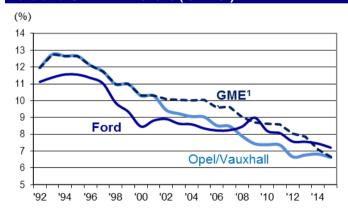


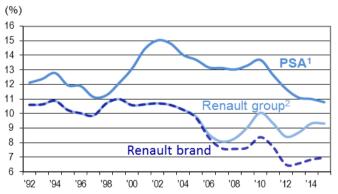
(1) Premium brands: BMW, Mini, Mercedes-Benz, Smart, Audi, Lexus, Porsche, Jaguar, Land Rover, Volvo, SAAB, DS and super-premium brands. (3) Discount brands: Kia, Hyundai, GM's Chevrolet, and Renault's Dacia. (2) Exl. Lexus (*) YTD=Jan-Dec. Source: Association Auxiliaire de CGI calculations

(1) VW mainstream brands: VW, Seat, Skoda. (2) FCA: Fiat, Lancia & Alfa Romeo. Since 2012 also Chrysler & Jeep. (*)YTD=Jan-Dec. Source: Association Auxiliaire de l'Automobile, ACEA,

Ford and GME - WE share ('92-'15*)

PSA and Renault group - WE share ('92-'15*)





(1) GM Europe: Opel, Vauxhall, Chevrolet and other US GM brands; does NOT incl. SAAB. (*)YTD= Jan-Dec. Source: Association Auxiliaire de l'Automobile. ACEA. CGI calculations

(1) PSA: Peugeot, Citroën & DS brands; (2) Renault group: Renault and Dacia brands (*)YTD= Jan-Dec. Source: Association Auxiliaire de l'Automobile, ACEA, CGI calculations

Germany

+7.7% in December

+5.6% in FY15

Retail share continues to decline

VW's aggressive discounting since the scandal broke

+0.7% in 2016E

In December, the German pc market grew 7.7% to 247.4k units, after 8.9% in November and 1.1% in October, resulting in a 5.6% increase to 3.21m in FY15. This follows a 2.9% recovery to 3.04m units in FY14, after two years of decline. In December, underlying demand weakened again to a SAAR of 3.17m, down 2.8% mom/from November's 3.26m and remained 9.0% below July's 3.48m that had been the strongest month since February 2012's 3.49m. Although, at 3.21m units, FY15 was 5.6% better than FY14's 3.04m, it remained 2.9% below the 2000-07 LT pre-crisis level of 3.3m.

We understand that despite the solid recovery in the German market, even until end of September when the VW emission scandal hit the news, the pricing improvement had been only moderate with discounts reportedly above 10%. In addition, the quality of the market has continued to deteriorate with fleet/business and pre-registrations driving sales; the retail share fell to 32.1% in December and 34.2% in FY15, from 36.2% in FY14. About one fifth of car registrations are pre-registered by dealers and then sold as 'used' cars at considerable discounts. We understand that VW has used aggressive discounting, in particular for the VW brand's smaller core models to limit loss in market share and is thus exacerbating the competitive environment.

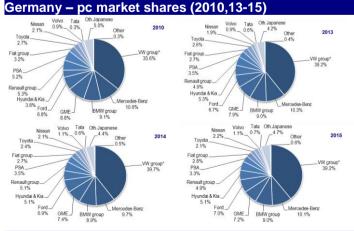
The medium-term outlook for the German car market is stability. In 2016E, the market is expected to grow 0.7% to 3.23m in FY16E and 0.2% to 3.23m in 2017. In FY15P, GDP growth accelerated slightly to 1.7% from FY14's 1.6%, driven by strong domestic demand. Private consumption accelerated from 1.0% in FY14 to 1.9% in FY15P. The combination of a tight labour market, rising wages and disposable income have propelled consumer confidence to a 13-year high and should ensure that consumption will remain the main driver behind a likely acceleration in GDP in 2016E-17E.

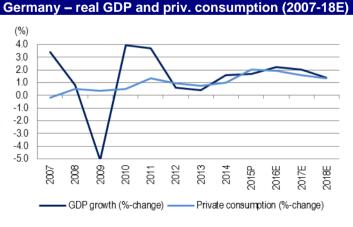
Germany – monthly SAAR¹ vs. trend (Oct'08-Dec'15) Germany - pc registrations (1998-2018E) (Units m) (Units m) Germany 42 SAAR 3.7 4.0 FY09 3.5 38 3.3 3.6 3.1 34 2.9 32 2.7 3.0 2.5 2.8 Apart de Partir 성단축구성단축구성단



(1) SAAR according to LMC Automotive. Source: KFBA, LMC Automotive and CGI calculations

Source: KFBA, LMC Automotive and CGI estimates





(*) VW group incl. Porsche. Source: KFBA and CGI calculations

France

+12.5% in December

+6.8% in FY15

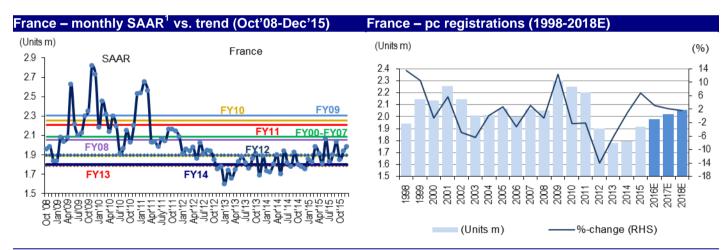
+3.1% in FY16E

+2.2% in 2017E

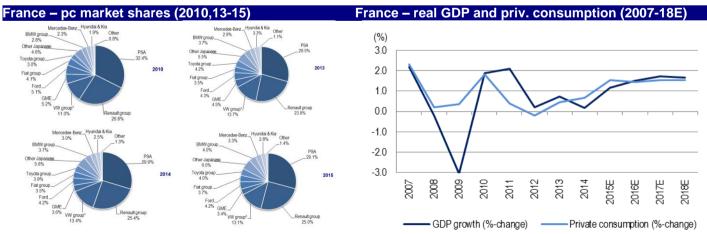
In December, French car registrations increased 12.5% to 183.7k units, after 11.3% in November and 0.6% in October, resulting in a 6.8% increase to 1.92m in FY15. However, adjusted for the number of working days, the yoy increase was 5.7% in November, after 5.1% in October. This follows a flat FY14 market, up 0.3% at 1.80m, and four years of decline.

In December, underlying demand continued to strengthen, to a SAAR of 1.98m, up 2.3% mom/from November's 1.94m, and remained 3.8% below June's 2.06m that had been the strongest month since December 2011 (2.09m). FY15's market of 1.92m, though up 6.4% from FY14's 1.80m, remained 8.1% below the pre-crisis 2000-07 level of 2.09m. With a medium-term outlook for the French market of 2.1-2.2m, we expect the French market to grow 3.1% to 1.98m units in FY16E and 2.2% to 2.02m in 2017E.

France's macro-economic credentials have remained mixed; in 3Q15, thanks to a pick-up in domestic demand, GDP accelerated again to 0.3%, after stagnation in 2Q15 and 0.7% growth in 1Q15, the latter being the fastest quarter since 2Q13. Low inflation is boosting disposable income and thus private consumption, all of which should accelerate GDP growth to 1.2% in FY15E, from just 0.2% in FY14. However, since mid-2014 and against EU trend, unemployment has increased again, thus remaining stubbornly above 10%.



(1) SAAR according to calculations by LMC Automotive. Source: CCFA, LMC Automotive and Source: CCFA, LMC Automotive and CGI estimates CGI calculations



(*) VW group incl. Porsche. Source: CCFA and CGI calculations

Italy

+18.7% in December

+15.8% in FY15

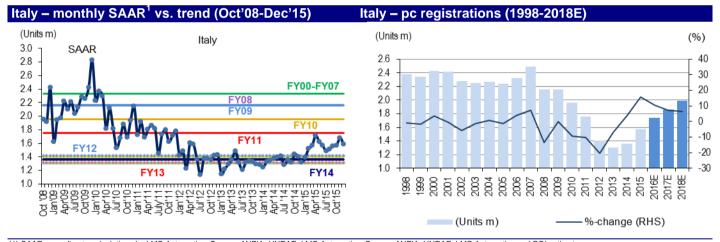
In December, Italian car registrations grew 18.7% yoy to 109.4k units, after 23.5% in November and 8.6% in October, resulting in a 15.8% increase to 1.57m in FY15. In December, underlying demand weakened again, to a SAAR of 1.58m, down 5.9% mom/from November's SAAR of 1.68m, and was only 7.9% below April's 1.72m that had been the strongest month since December 2011 (1.99m). Although FY15's market of 1.57m was up 15.8% from FY14's 1.36m, it remained 33% below the 2.34m precrisis trend.

Things are looking up

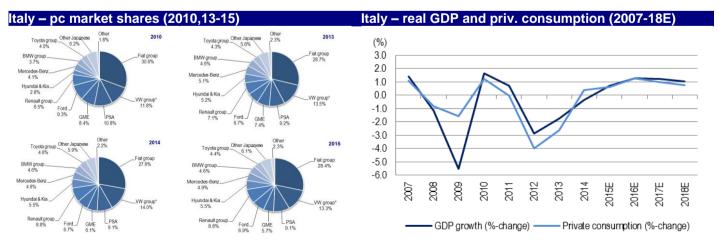
Italy's recovery from a three-year, triple-dip recession has continued and broadened as the economy has now grown for three consecutive quarters. However, GDP growth decelerated to 0.2% qoq in 3Q15, from upgraded growth rates of 0.3% and 0.4% in 2Q15 and 1Q15 respectively, making them the strongest quarters in four years that included 13 quarters of contraction or stagnation at best. The driving force has been domestic demand that benefited greatly from lower energy prices and deflation, with consumer confidence jumping to levels not seen since 2002. After having shrunk by almost 5% in 2012-14, real GDP is set to recover, albeit slowly in 2015E-16E, by some 0.7% and 1.3% respectively. Although we expect that the government's efforts in restructuring will have eventually some positive effect, there remain considerable challenges such as a vicious circle of austerity and, despite recent improvements, high unemployment that only recently has fallen to close to 11%.

+10.3% in FY16E

In view of the macro-economic improvement, a large car parc and considerable pentup demand, the Italian car market is set to continue to recover strongly. We expect that the market will grow 10.3% to 1.74m units in FY16E and 7.3% to 1.86m in 2017E.



(1) SAAR according to calculations by LMC Automotive. Source: ANFIA, UNRAE, LMC Automotive Source: ANFIA, UNRAE, LMC Automotive and CGI estimates and CGI calculations



(*)VW group incl. Porsche. Source: Anfia and CGI calculations

Spain

+20.7% in December

+20.9 % in FY15

In December, Spanish car registrations grew 20.7% yoy to 88.6k units, after 25.4% in November and 5.2% in October. As a result, in FY15, the Spanish pc market accelerated to 20.9% from 18.4% in FY14. At 1.03m units, the market exceeded the 1.0m mark for the first time since 2008, though remained 30% below the 2000-07 level of 1.48m units. In December, the SAAR weakened again to 1.09m, down 2.0% mom/from November's 1.11m that had been the strongest month since June 2010 (1.13m). At 1.03m, FY15 was 20.9% better than FY14's 0.72m,

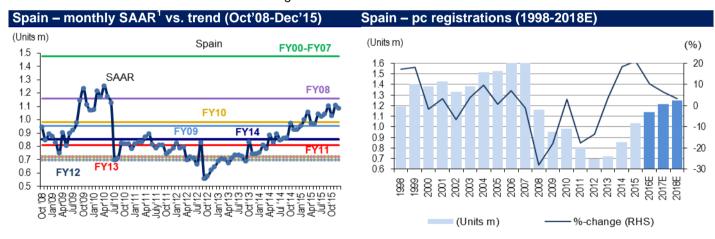
Government incentive scheme

The relative strength of the Spanish car market since 4Q12 was initially primarily due to the PIVE scrappage scheme that was first announced and introduced in October 2012. It has been topped up and is now in its eighth incarnation that is scheduled to run until July 2016. However, increasingly important drivers of the car market have been the recovery in the Spanish economy, greatly exceeding that of the Eurozone, improving consumer confidence and replacement demand.

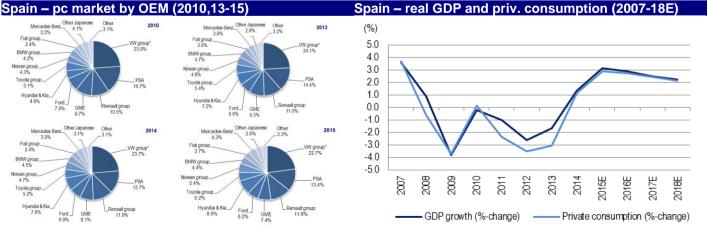
+10.1% in FY16E

+6.3% in 2017E

Spain, one of the fasted growing economies in the Eurozone, saw GDP continue to grow strongly, 0.8% qoq in 3Q15, after 1.0% in 2Q15, the highest growth rate in a decade. In FY15E, GDP is expected to grow 3.1%, after 1.4% in FY14. The recovery has steadily broadened into services and the domestic sector, the latter benefiting from the 2012 labour market reforms; consumer confidence has recovered greatly since mid-2012, to the highest level in over a decade. However, unemployment that has eased only recently and being close to 21% overall should remain a drag for years to come. We understand that the Spanish government plans to keep extending the PIVE scheme in some form until underlying demand stabilises. On this basis, the Spanish pc market is set to grow 10.1% to 1.14m in FY16E and 6.3% to 1.21m in 2017E.



(1) SAAR according to calculations by LMC Automotive. Source: ANFAC, LMC Automotive and Source: ANFAC, LMC Automotive and CGI estimates CGI calculations



(*) VW group incl. Porsche. Source: ANFAC and CGI calculations

UK

+8.4% in December

+6.3% in FY15

In December, UK car registrations increased 8.4% yoy to 180.1k units after a 3.8% increase in November and a 1.1% decline in October, the latter being the first yoy decline after 43 consecutive months of growth, resulting in a 6.3% increase to 2.63m in FY15. The FY15 result was the best ever for the UK market, exceeding the pre-crisis LT trend level of 2.45m by 7.6%.

In December, underlying demand continued to strengthen strongly and spiked at an all-time record SAAR of 2.99m, up 10.9% mom/from November's 2.64m, topping September's 2.79m that had been a six-year high.

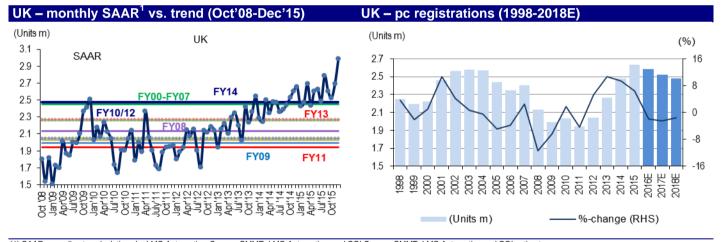
The UK market is approaching the end of longest period of growth on record that has/d been driven by pent-up demand, easy credit, aggressive marketing and a continuing economic recovery, with GDP growing 2.9% in 2014 and 2.5% in FY15E . Falling petrol prices, zero inflation and accelerating earnings growth have turbo-charged consumer confidence to record levels.

The slowdown in the UK market has been heralded throughout 2015 by the fact that fleet/business sales have taken over from retail as market driver: In FY15, private demand increased only 2.5%, reducing its share to 45.9%, after a 10.0% to 47.6% increase in FY14.

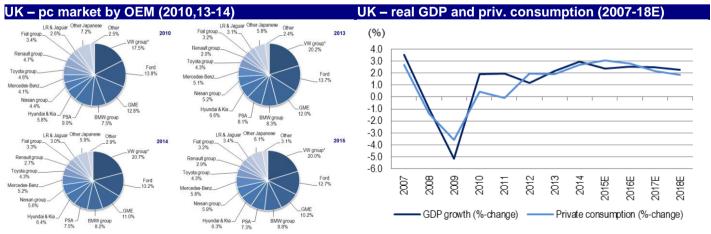
-1.9% in FY16E

-2.5% in 2017E

We expect that the UK car market, having reached and surpassed its medium term level, will decline -1.9% to 2.58m in FY16E and -2.5% to 2.52m in 2017E, while the economy is expected to decelerate moderately. Challenges include growing political uncertainty in view of the UK's relationship with Europe.



(1) SAAR according to calculations by LMC Automotive. Source: SMMT, LMC Automotive and CGI Source: SMMT, LMC Automotive and CGI estimates calculations



(*) VW group incl. Porsche. Source: SMMT and CGI calculations

Japan pc market

-14.6% in December

-10.3% in FY15

In December, vehicle sales declined -14.6% yoy to 0.31m pcs and -9.3% to 0.38m LVs, resulting in FY15 declines of 10.3% and 10.0% respectively. At 4.9m, the FY15 LV market was down 10.0% from FY14's strong 5.44m that had been boosted by the 1Q14 sales boom ahead of the increase in consumption tax from 5% to 8% on April 1st 2014. However, after a strong 1Q15 with a SAAR of more than 5m, thanks to some prebuying in anticipation of increases for the annual mini car tax and tighter rules to qualify for the 'eco-car' tax, the SAAR deteriorated considerably, to a low of 4.89m in August and has recovered since to a solid 5.0m in 4Q15 and 5.1m in December.

+1.9% in FY16E

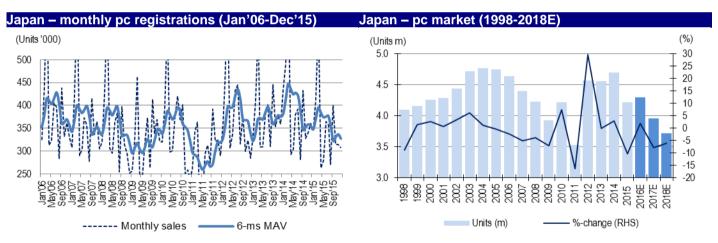
The Japanese pc market is expected to grow by less than 2.0% to 4.29m in FY16Eand then decline by more than 5% p.a. in 2017E-18E, reflecting another hike in the consuer tax (to10%) expected in April 2017 and a declining population.

Macro-economic indicators remained mixed and prone to huge revisions; indeed 3Q15

Weak private demand...

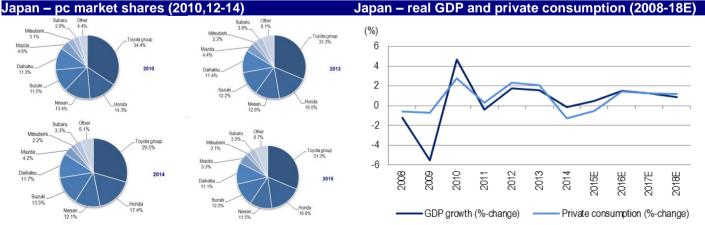
GDP was revised up to an annualised 1.0% increase from a preliminary -0.8% decline, after -0.5% in 2Q15 and +4.4% in 1Q15. According to revised figures, business investment contributed 0.3%-pts to GDP growth (instead of -0.7%-pts) and inventory reduction -0.8%- pts (instead of -2.1%-pts). However, private consumption contributed a lower 0.8%-pts (instead of preliminary +1.2%-pts). In FY15E, GDP growth is thus expected to have remained well below 1.0%, after a small contraction in FY14, while private consumption is expected to have continued to shrink. Indeed, weak private demand has remained Japan's main challenge, with savings surpluses at the domestic sector and in particular at corporates.

...remains the greatest structural challenge



Source: JAMA and CGI calculations

Source: JAMA, LMC Automotive and CGI estimates



Source: JAMA and CGI calculations

China LV market

+16.2% in December +5.3% in FY15 In December, the recovery in China LV wholesales continued to accelerate to 16.2% and 2.80m, after 15.1% in November, resulting in a 5.3% increase to 24.89m in FY15. In December, the LV SAAR is estimated to have reached 29.3m, unchanged from November and considerably better than October's 25.6m and 3Q15's less than 22m.

Srong 4Q15 recovery in PV sales....

The introduction of a temporary 50% cut in purchase tax for small cars (with engines of up to 1.6l) to 5% was the main driver of the sharp improvement in the dominant private vehicle (PV) segment to a SAAR of 25.6m in December, 25.0m in November and 23.1m in October, from lows of 19m on July/August and 19.65m in FY14. During the first eight months of 2015, the correction in the LV market was partly due to a falling consumer confidence (reflecting a deteriorating economy and the stock market crash) and was exacerbated by a necessary reduction in dealer inventories and pay-back in Tier 1&2 cities (where the fear of introduction of purchasing restrictions had led to buying frenzy in late 2013 and early 2014).

...due to temporary tax cut...

buying frenzy in late 2013 and ear

...and after inventory adjustments

With the inventory reduction out of the way and the tax cut in place until YE16, PV sales are expected to continue to recover during this year. On this basis, after having expanded by a CAGR of 9.6% in 2011-15, PV sales are expected to grow another 7.9% to 22.4m in FY16E and 1.0% to 23.2m in 2017E. (Note: LCVs continued their decline of four years by another 9% in FY15, due to uncertainties over emission regulations and the slowdown in construction.) As a result, growth in the overall LV market is expected to remain resilient and accelerate slightly in FY16E to 7.5% and 26.75m, after 5.3% in FY15A and 8.0% in FY14.

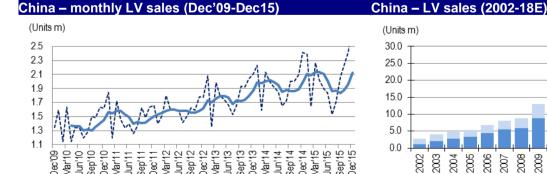
+7.5% in FY16E

'New normal'

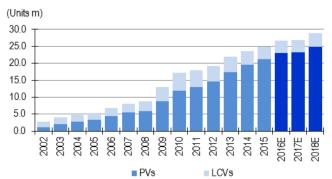
GDP growth continued to decelerate to 6.8% in 4Q15, after 6.9% in 3Q15 resulting in 6.9% growth rate in FY15, down from FY14's 7.3%. The government's FY15 target of 'around 7%' reflects the change of focus away from rapid growth towards employment and the environment. In the medium term, GDP growth should continue to decelerate considerably as domestic activity is curbed by a correction in the real estate market, high levels of debt and excess capacity in various industrial sectors. Although 'Likonomics' aims at weaning the economy off government-led FA investments and rebalancing it towards private consumption and services, we expect that the central and regional governments will continue to use mini-stimuli to stabilise the economy.

Long-term trends weaker

The Chinese LV market is expected to grow at a CAGR of 5.1% in 2014-2018E, the result of a flat LCV segment and a PV segment growing at a CAGR of 6.0%. During this period, the economy is also expected to develop private consumption as a growth engine. The expected long-term growth in the LV market should be supported by vehicle density growing in tandem with GDP/capita, rising urbanisation (from 52% in 2012) and a growing middle class. A growing customer base should be spreading demand inland from Tier 1 regions and the coastal areas. (See charts on p.16.)



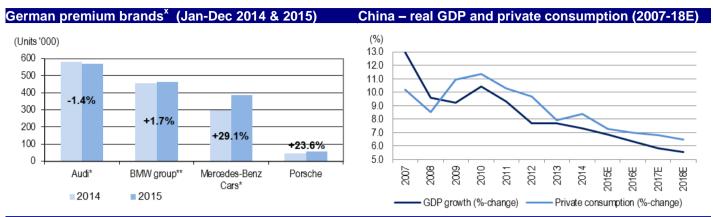
6-ms MAV



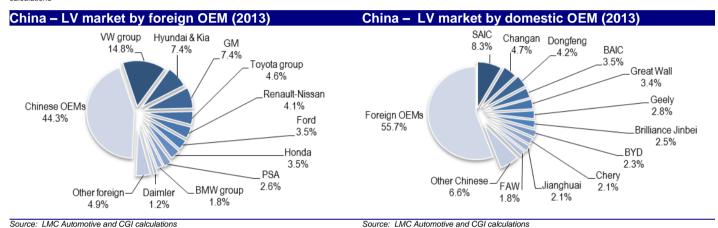
(1) incl. imports Source: LMC Automotive and CGI calculations

----- Monthly sales

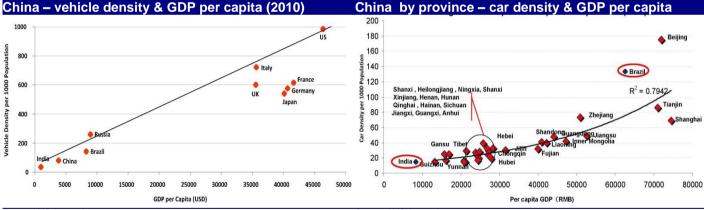
Source: LMC Automotive and CGI estimates



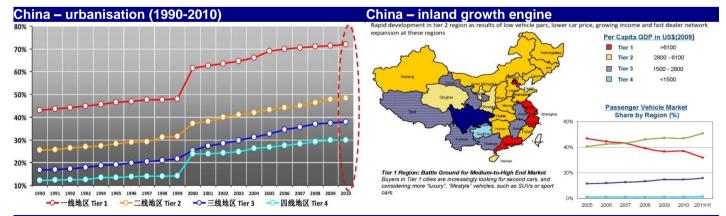
(x) Deliveries. (*) Incl. Hong Kong. (**) BMW and Mini only. Source: Company data and CGISource: Oxford Economics and CGI estimates







Source: LMC Automotive Source: LMC Automotive



Source: LMC Automotive Source: LMC Automotive -37.6% in December

-25.6% in FY15

Brazil descending into deepest recession since the 1930s

Consumer sector in meltdown

-7% in FY16E

-

Brazil LV market

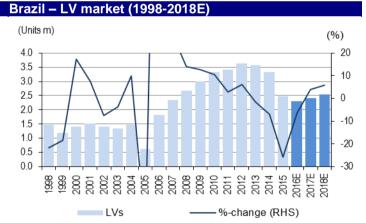
In December, Brazilian LV sales declined 37.6% yoy to 220.8k units, after -32.3% in November and -36.4% in October, resulting in a 25.6% decline to 2.48m in FY15. The downward trend in LV sales that started in mid-2012 has accelerated sharply during 2015. Indeed, after a spike in November/December 2014, when pre-buying ahead of the expiry of the second tranche of IPI tax cuts had boosted the SAAR to 3.3m and 3.7m, underlying demand has collapsed from 3.1m in January to less than 2.3m in 4Q15, the lowest levels since the financial crisis.

Brazil is further descending into a broad-based fiscal crisis and the deepest recession since at least the 1930s as the fall-out from declining exports (due to collapsing commodity prices and slower growth in China), rising inflation and interest rates is exacerbated by the economy's and country's structural problems. The deepening political crisis includes the resignation of the hawkish, internationally well respected Finance minister Joaquim Levy on December 18th.

Private consumption that, fuelled by subsidised credit, had been driving the economy in 2007-13, had slowed dramatically to 0.9% in FY14, and is expected to contract at least -3.5% in FY15E and -2.0% in 2016E. The need for deleveraging is now overwhelming and consumer confidence has collapsed to levels not seen since 2001. Inflation has surged to more than 10%, fuelled by a collapsing currency that has lost 70% vs. USD in the past 12 months alone. However, having raised interest rates by 700bpts between mid-2013 and July 19th 2015, the Bank of Brazil has kept the Selic rate unchanged for the past six months as the economy is believed to be on the brink of 'fiscal dominance'.

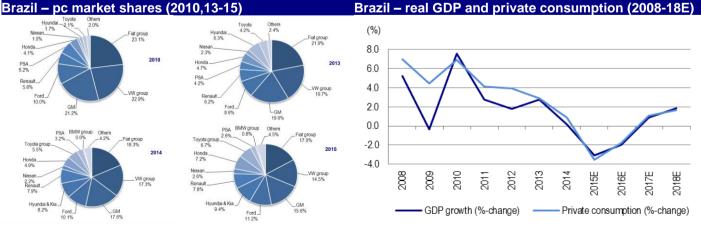
In view of the recent sharp downgrade by the IMF and the continuing and accelerating fall in commodity prices, there remains a considerable downside risk to the macroeconomic forecast, in our view. However, in view of the -32% fall in annual LV sales between 2012 and 2015, we believe that the decline in FY16E will remain limited to some -7% to around 2.3m units, which is the current running rate.

Brazil – monthly LV registrations (Jan'08-Dec'15) (Units '000) 360 340 320 300 280 260 240 220 200 180 ----- Monthly sales 6-ms MAV



Source: ANFAVEA and CGI calculations

Source: ANFAVEA, LMC Automotive and CGI estimates



Source: ANFAVEA and CGI calculations

Russia LV market

-45.7% in December

-35.7% in FY15

Russia in major recesssion...

...as oil price outlook deteriorates

-2.5% in FY16E

In December, Russian LV sales declined 45.7% to 147.0k units, after -42.7% in November and -38.5% in October, resulting in a 35.7% decline to 1.60m in FY15, after -10% to 2.49m in FY14. Since April, the SAAR has hovered around the 1.5m mark. about 50% below the 2012 record of 2.94m and estimated to be the bottom of the current recession. The deeper vov decline rates in 4Q15 reflect the relative strength of the market in 4Q14, following the introduction of a scrappage incentive scheme

Over the past six months, Russia's economic malaise has worsened dramatically and the speed of decline has increased after a brief glimmer of hope in 2Q15. Besides international sanctions and geopolitical tensions, the sharp and accelerating decline in the oil price to currently below USD 30/bbl and the corresponding weakening of the rouble are the greatest challenges.

As a consequence the Bank of Russia is likely to further postpone the resumption of monetary easing. The benchmark interest rate has remained at 11.0% since July 31st, after having been cut by 6.0%-pts in the first seven months, only partially reversing last year's rate hike (of 11.5%-pts).

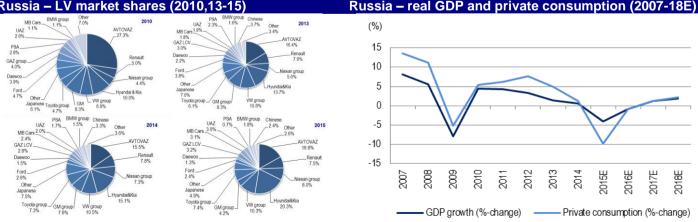
The recession is expected to continue well into FY16E and GDP to contract by 0.8% after -4.0% in FY15E and to be followed by an extremely subdued recovery from 2017E onwards. The consumer is being hit particularly badly as real wages are declining by an annual rate of 10%, resulting in private consumption contracting -10% and -0.9% in 2015E-16E.

In the Russian LV market is set for another year of decline in FY16E, by -2.5% to 1.56m, worst case scenario -16%. This takes into account multiple incentive schemes brought in by the government, including scrappage initiatives, discounted leasing support, and preferential loan interest subsidies. RUB50bn/RUB 20bn.

Russia – monthly LV sales¹ (Jun'08-Dec'15) **Russia – LV sales (2003-18E)** (Units m) (Units k) (%) 30 40 280 2.5 20 240 2.0 n 200 1.5 -20 160 1.0 40 120 0.5 0.0 -60 80 Od111 - Od112 - Od122 - Od122 - Od122 - Od122 - Od132 - Od133 - Od133 - Od134 - Jun'14 - Jun'14 Oct.10 88 200 2012 2013 2015 201 Feb'1' ğ Units (m) %-change (RHS) ----- Monthly sales

(1) LV sales = passenger cars and LCV. Source: AEB and CGI calculations

Russia – real GDP and private consumption (2007-18E)



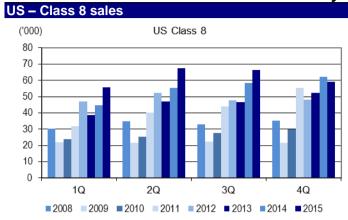
Source: AEB and CGI calculations

Source: Oxford Economics and CGI estimates

Source: AEB, LMC Automotive and CGI estimates

Demand trends for trucks

US medium & heavy truck market



	1Q	2Q	3Q	4Q	FY
Units					
2010	23,839	25,418	27,825	30,070	107,152
2011	31,978	40,110	43,907	55,430	171,425
2012	46,845	52,401	47,585	48,192	195,023
2013	38,828	47,064	46,788	52,242	184,922
2014	44,566	55,279	58,526	62,146	220,517
2015	55,839	67,395	66,378	59,278	248,890
% change					
2011 yoy	34.1	57.8	57.8	84.3	60.0
2012 yoy	46.5	30.6	8.4	-13.1	13.8
2013 yoy	-17.1	-10.2	-1.7	8.4	-5.2
2014 yoy	14.8	17.5	25.1	19.0	19.2
2015 yoy	25.3	21.9	13.4	-4.6	12.9
2014 vs. 2007	-12.8	52.9	97.7	82.2	46.1
2015 vs. 2007	9.2	86.4	124.4	73.8	64.9

Source: Automotive News Data Center, CGI calculations

Source: Automotive News Data Center, CGI calculations

US - Cla	ss 4-8	sales	5					
('000')			US	Class 4	1-8			
140								
120						-		_
100						-16-		
80		Н		ш		ш		ш
60	-11	н	ы	ш	ы	ш		ш
40 +	ш	Н	ш	ш	ш	ш	•	ш
20 —	ш	Н	ш	ш	ш	ш−	ш	ш
0				•		ш,		
	1Q		2Q		3Q		40	2
■2007	2008	2009	■ 2010	2011	2012	■2013	■ 2014	■ 2015

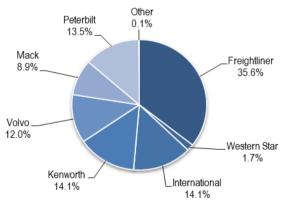
	1Q	2Q	3Q	4Q	FY
Units					
2010	57,781	59,533	62,231	66,399	245,944
2011	67,399	82,416	84,409	93,768	327,992
2012	87,763	94,962	89,898	91,752	364,375
2013	81,254	98,680	94,150	104,073	378,157
2014	91,432	111,169	115,103	117,095	434,799
2015	106,075	123,685	125,193	122,475	477,428
% change					
2011 yoy	16.6	38.4	35.6	41.2	33.4
2012 yoy	30.2	15.2	6.5	-2.1	11.1
2013 yoy	-7.4	3.9	4.7	13.4	3.8
2014 yoy	12.5	12.7	22.3-	12.5	15.0
2015 yoy	16.0	11.3	8.8	4.6	9.8
2014 vs. 2007	-20.5	5.5	30.1	30.1	9.0
2015 vs. 2007	-7.8	17.4	41.5	36.0	19.7
		•	•	•	

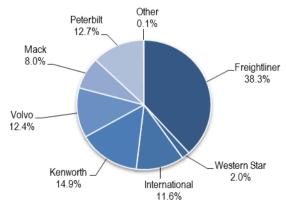
Source: Automotive News Data Center, CGI calculations

Source: Automotive News Data Center, CGI calculations

US – Class 8 sales by manufacturer (FY14)

US - Class 8 sales by manufacturer (Jan-Dec'15)

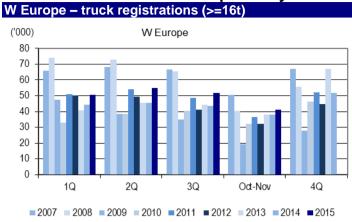




Source: Automotive News Data Center, CGI calculations

Source: Automotive News Data Center, CGI calculations

Europe heavy truck markets

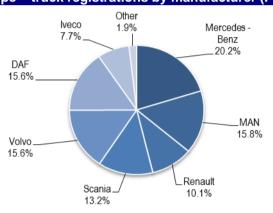


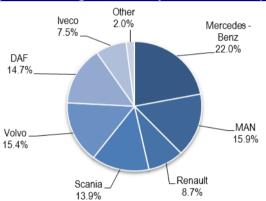
	1Q	2Q	3Q	Oct-Nov	4Q	FY
Units						
2010	32,828	38,461	40,483	32,161	46,174	157,946
2011	50,998	53,938	48,692	36,566	52,099	205,727
2012	50,162	49,411	41,293	32,128	44,674	185,540
2013	40,649	45,321	44,436	38,078	66,956	197,508
2014	44,355	45,298	43,638	37,947	51,662	185,397
2015	50,716	54,712	51,593	41,091	-	-
% change						
2011 yoy	55.3	40.2	20.3	13.7	12.8	30.3
2012 yoy	-1.6	-8.4	-15.2	-12.1	-14.3	-9.8
2013 yoy	-19.0	-8.3	7.6	18.5	49.7	6.5
2014 yoy	9.1	-0.1	-1.8	-0.3	-22.7	-6.0
2015 yoy	14.3	20.8	18.2	8.3	-	-
2014 vs. 2008	-40.0	-37.8	-33.2	-6.2	-7.1	-30.7
2015 vs. 2008	-31.4	-24.9	-21.0	1.6	-	<u>-</u>

Source: ACEA, CGI calculations

Source: ACEA, CGI calculations

W Europe – truck registrations by manufacturer (FY12) W Europe – truck registrations by manufacturer (FY13)





Source: Association Auxiliaire de l'Automobile, CGI calculations

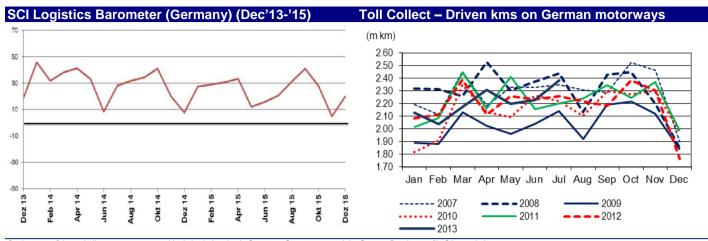
Source: Association Auxiliaire de l'Automobile, CGI calculations

Germ	any – tru	ck registra	ations (>=16t)	
('000')		Ger	many		
25 7					
20 -		_			
15 -	li sa	-H-nath			Tab.
10 -		-1488	-11-11	Harat	
5 -	-	╢	-111	H	-1111 1-
0 -					
	1Q	2Q	3Q	Oct-Nov	4Q
= :	2007 = 2008	■2009 ■ 201	0 = 2011	■2012 ■2013	■2014 ■ 2015

	1Q	2Q	3Q	Oct-Nov	4Q	FY
Units						
2010	9,145	12,064	13,388	9,724	14,220	48,817
2011	14,577	15,718	15,358	10,036	14,560	60,213
2012	14,148	15,226	13,211	8,562	11,859	54,444
2013	11,432	14,038	13,310	9,527	15,796	54,576
2014	14,287	16,133	14,016	9,660	13,450	57,886
2015	14,842	16,255	14,935	10,836	-	-
% change						
2011 yoy	59.4	30.3	14.7	3.2	2.4	23.3
2012 yoy	-2.9	-3.1	-14.0	-14.7	-18.6	-9.6
2013 yoy	-19.2	-7.8	0.7	11.3	33.2	0.2
2014 yoy	25.0	14.9	5.3	1.4	-14.9	6.1
2015 yoy	3.9	0.8	6.6	12.2	-	-
2014 vs. 2008	-14.9	-9.9	-32.3	7.6	8.9	-14.6
2015 vs. 2008	-11.6	-9.2	-27.9	20.7	-	-

Source: ACEA, CGI calculations

Source: ACEA, CGI calculations



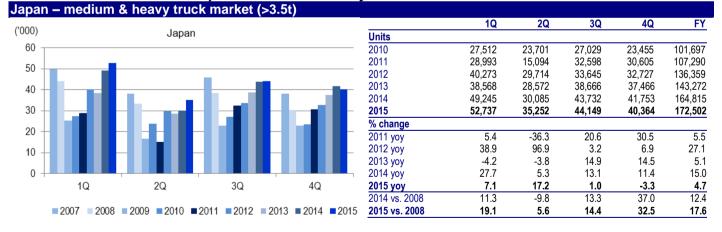
Business confidence indicator - transport and logistics industries in Germany. Source: www.sci.de Source: Bundesamt für Güterverkehr

						1Q	2Q	3Q	Oct-Nov	4Q	FY
00)	New	EU			Units						
					2010	3,384	4,779	5,509	4,775	7,351	21,023
	_				2011	8,594	9,912	8,693	6,899	10,016	37,215
					2012	8,020	9,333	8,811	6,451	8,585	34,749
					2013	7,468	9,505	9,513	9,431	14,990	41,476
			_		2014	9,737	9,365	9,430	7,949	11,500	40,013
	The second				2015	11,430	12,912	12,374	10,916		
					% change						
ш					2011 yoy	154.0	107.4	57.8	44.5	36.3	77.0
					2012 yoy	-6.7	-5.8	1.4	-6.5	-14.3	-6.6
ш			_		2013 yoy	-6.9	1.8	8.0	46.2	74.6	19.4
					2014 yoy	30.4	-1.5	-0.9	-15.7	-23.3	-3.5
1Q	2Q	3Q	Oct-Nov	4Q	2015 yoy	17.4	37.9	31.2	37.3		
IQ	20	JQ	Ou-NOV	40	2014 vs. 2008	-20.3	-43.2	20.1	-19.7	-2.6	-17.3
2008	2009 2010	= 2011 = 20	012 2013	2014 = 2015	2015 vs. 2008	-6.5	-21.6	57.6	10.2		

(1) New EU, mostly Central Europe and Baltic countries. Source: ACEA, CGI calculations

Source: ACEA, CGI calculations

Japan medium & heavy truck market



Source: JAMA, CGI calculations

Source: JAMA, CGI calculations

Carlo R Besenius, CEO & Head of Global Strategy

cbesenius@cg-inv.com office: +352 2625 8640 mobile: +352 691 106 969 Luxembourg/Europe Steve Gluckstein, Global Strategist

sgluckstein@cg-inv.com office: 212 939 7256 mobile: 732 768 8843 New York, NY, USA

Sabine CJ Blümel, Head of Global Automotive

Research

sblumel@cg-inv.com office: +44 7785 301 588

London, UK

Marc Peters, Head of Global Industrial Strategy

mpeters@cg-inv.com office: +352 26 25 86 40 mobile: +352 621 36 44 50 Luxembourg/Europe

Feliks Lukas, Director of Industrial Consulting

flukas@cg-inv.com office NY: 212-939-7256 mobile: +385 9848 8951 Kastela, Croatia Allison M Cimon, Director of Sales & Technology

amcimon@cg-inv.com office: 646 228 4321 Boston, MA, USA

Gary Schieneman, Director, Global Accounting and Finance gschieneman@cg-inv.com

office: 917 868 6842 New York, NY, USA Jennifer Crisman, COO jcrisman@cg-inv.com
office: + 352 2625 8640
Luxembourg/Europe

IMPORTANT DISCLAIMER: As a company purely focused on research, CGI LLC has no business relationships with the company covered in this report, be it investment banking, consulting or any other type of relationship. In addition, CGI LLC does not seek and does not intend to seek in the future any such businesses, maintains complete independence and has no conflicts of interest related to the companies in its research universe. Neither the analysts responsible for this report nor any related household members are officers, directors, or advisory board members of any covered company. No one at a covered company is on the Board of Directors of CGI LLC or any of its affiliates. In addition, CGI LLC and its employees, including the analyst who wrote this report, hold no equity, debt or other linked derivative investments, the value of which is related in any way, directly or indirectly, to the operating and stock price performance of the company covered in this report. No such investment positions are held in any of the competitors, suppliers or customers of the companies in our coverage universe. This report is provided for information purposes only. It should not be used or considered as an offer of securities and it does not represent a solicitation to either buy or sell any securities or derivatives thereof.

This document has been prepared by Creative Global Advisers (UK) LLP ('CGA (UK)') solely for the use of its clients and for purely informational purposes. It does not constitute or contain advice on the merits of investing in any investment nor does it constitute or form part of a prospectus or any such offer or invitation to sell or to issue, or any solicitation of any offer to invest in, any investment, nor shall it or any part of it or the fact of its distribution form the basis of, or be relied on in connection with, any such offer, invitation or solicitation, nor constitute any contract therefore. Neither CGA (UK) nor any of its members or employees give any representation or warranty, express or implied, as to the fairness, accuracy, completeness or correctness of any information or expressions of opinion contained in this document.

This document, insofar as it is distributed in or into the United Kingdom, is for distribution only to persons to whom the financial promotion restriction in section 21(1) Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (SI 2005/1529) (the 'Financial Promotion Order').

This document is directed at Investment Professionals as defined in article 19 of the Financial Promotion Order who have professional experience in matters relating to investments. Persons who do not have professional experience in matters relating to investments should not rely on this document. The contents of this document have not been approved by an authorised person. The distribution of this document in other jurisdictions may be restricted by law and persons into whose possession this document comes should inform themselves of, and observe, any such restrictions. Any failure to comply with these restrictions may constitute a violation of the laws of any other such jurisdictions.