

WEBINAR

Allianz Research/ Maxime Lemerle Paris / September 2018, 25th





EXECTIVE SUMMARY 01

THE AUTOMOTIVE MARKET IS SET TO GROW BY +3.0% IN 2018 COMPARED TO +3.1% IN 2017 AND TO SLOW DOWN TO +1.9% IN 2019, WITH NEW VEHICLE REGISTRATIONS EXPECTED TO EXCEED 100MN UNITS IN 2019, WORLDWIDE

02

MEDIUM-TERM PROSPECTS REMAIN FAVORABLE, WITH ANNUAL SALES TO REACH 110 MILLION UNITS BY 2022 MAINLY DRIVEN BY THE DEMAND IN CHINA AND TO A LESSER EXTENT INDIA

03

HOWEVER, FOR MANUFACTURERS AND SUPPLIERS, TRANSITION TO ELECTRIC VEHICLE AND PROTECTIONISM ARE LEADING TO GREATLY INCREASED UNCERTAINTY AND RISING COSTS, NOTABLY INPUTS COSTS, RELOCATION OF PRODUCTION AND UPHEAVAL OF SUPPLY-CHAINS

04

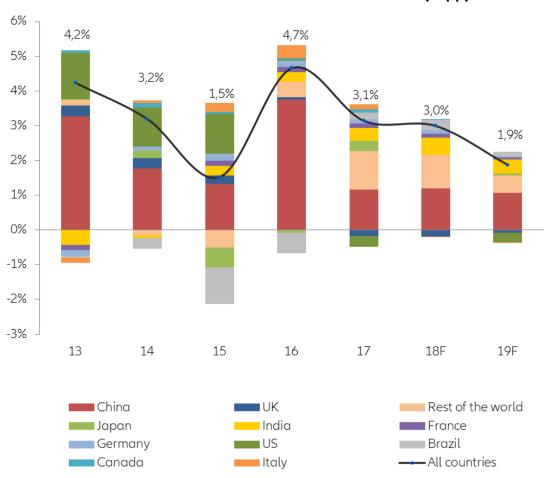
SOME CAR MAKERS WILL BE FORCED TO DEDICATE CAPEX TO MEETING SHORT TERM CHALLENGES AND THEREFORE NOT BE ABLE TO DEPLOY THE SIGNIFICANT AMOUNTS REQUIRED TO TAKE ADVANTAGE OF OPPORTUNITIES STEMMING FROM THE FUTURE OF MOBILITY

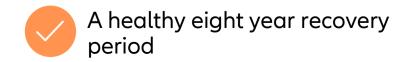
GLOBAL AUTOMOTIVE CONTINUES TO GROW, WITH STILL FAVORABLE MEDIUM-TERM PROSPECTS MAINLY DRIVEN BY THE DEMAND IN CHINA AND INDIA

SHORT TERM FORECASTS: +3% IN 2018, +1.9% IN 2019



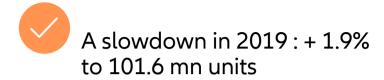
Contributions to Growth in Global Vehicle Sales (in pp)











Sources: OICA, IHS, Bloomberg, Allianz Research

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SHORT TERM FORECASTS: KEY MARKETS



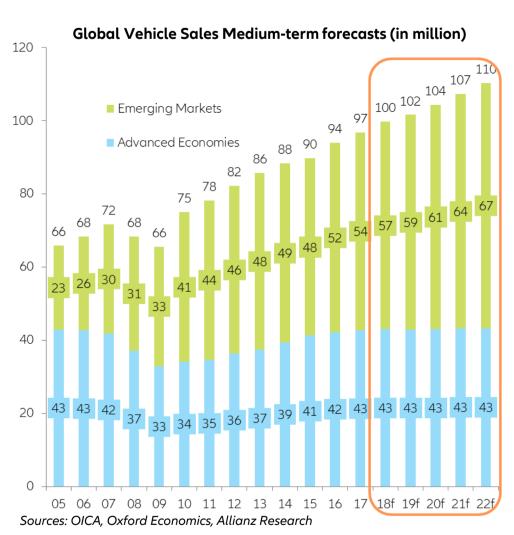
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Numbers in tho	asaria aria v	anationi	n percentage,

		201	[8	2019				
	All countries	99 702	3,0%	101 569	1,9%			
**	China	30 287	4,0%	31347	3,5%			
	US	17 584	0,0%	17 320	-1,5%			
	Japan	5239	0,0%	5 2 9 1	1,0%			
•	India	4500	12,0%	4 905	9,0%			
	Germany	3 926	3,0%	3 965	1,0%			
	France	2709	4,0%	2 763	2,0%			
	UK	2 778	-6,0%	2 695	-3,0%			
	Italy	2 168	-1,0%	2 147	-1,0%			
*	Canada	2 0 9 8	1,0%	2 0 9 8	0,0%			
	Brazil	2 5 3 0	13,0%	2 6 5 6	5,0%			
	Rest of the world	25 883	3,7%	26 382	1,9%			

Sources: OICA, Allianz Research

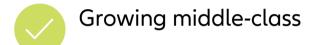
MEDIUM TERM FORECASTS: 110MN UNITS IN 2022













- 'Natural' needs for replacement
- Consumer appetite for innovation and new technologies and services
- 'Environnemental' needs (consumer demand + regulation)

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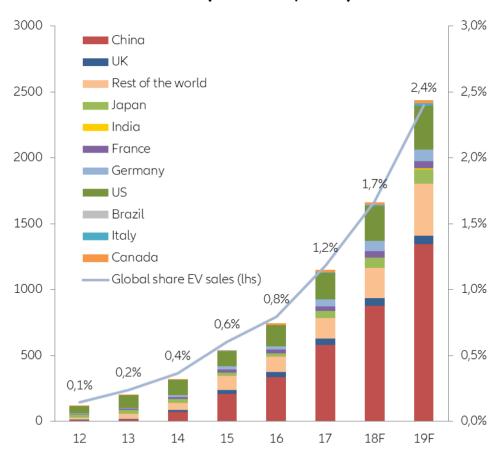
SHORT TERM TURBULENCE ON ELECTRIC VEHICLE

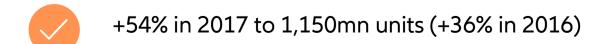


STRONG DOUBLE DIGIT MOMENTUM BUT STILL A LOW PENETRATION RATE



Global EV Sales (in thousand, and %)





- Double digit expectations (+45% for 2018 and +46% for 2019) to almost 2,5mn units
- Global EV fleet to climb from 3.1mn in 2017 to 7.2mn in 2019
- China the first market (approx. 880K in 2018) and first contributor to growth (>50%)
- Low penetration rate at global and country levels (less than 1.7% expected in 2018)
- The Norwegian exception (31%)

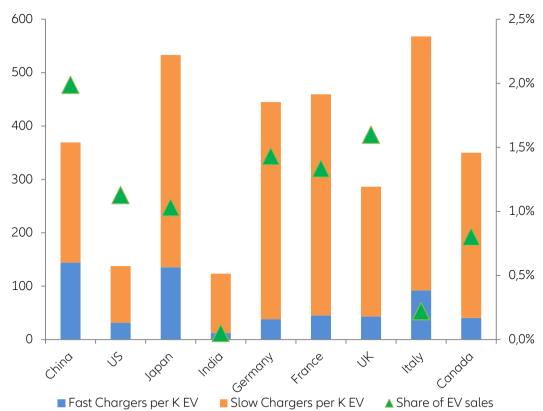
Sources: IAE-EV, EAFO, Allianz Research



TWO LIMITING FACTORS: CHARGING INFRASTRUCTURE+VALUE PROPOSITION



Charging infrastructure and share of EV sales



Sources: IAE-EV, Allianz Research

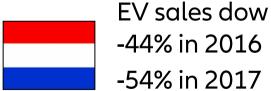
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■ Fast Chargers per K EV ■ Slow Chargers per K EV ▲ Share of EV sales

cost (from about 400~600 USD/kWh in 2016 to 250~300 USD/kWh in 2018 for the lithium-ion batteries, ie USD 15,000 per electric passenger car)

The key role of **financial incentives** (subsidies, tax exemptions)

Example: the Dutch case, with EV share dropping from 8.4% in 2015 to 2.2% in 2017



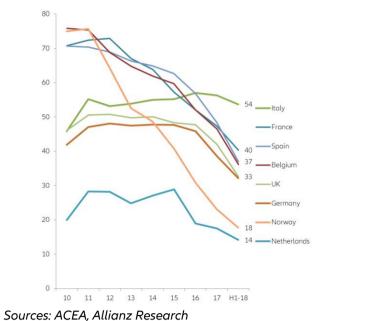


TWO NEW CHALLENGES: LESS TIME AND MORE COST OF ADAPTING



ACCELERATED END OF DIESEL

Market share of Diesel in new registrations (in %)





TIGHTENING OF REGULATIONS













- Costly modifications of engines
- Accelerated sales in non-compliant models (discounts)
- Faster roll-out of now models (R&D, industrial deployment, marketing)
- Flexible platforms



SHORT TERM TURBULENCE ON INTERNATIONAL TRADE

3



BREXIT-RELATED UNCERTAINTIES A SIGNIFICANT MARKET + A MAJOR HUB





Annual sales to decline -6% in 2018 and -3% in 2019 (-5% in 2017) to respectively 2.8mn and 2.7mn units (Central scenario = last minute agreement)



80% of the cars sold in the UK are imported (imports totaled USD79.5bn in 2017), notably 66% from the EU



80% of the domestic production is exported (Exports totaled USD52bn in 2017)



Domestic production imports 3x more components from the EU than the export to the EU



Local-based foreign brands have key positions (Japanese brands accounted for 40% in total production)



Investments in the sector declined by -46% in H1 18



TRUMP INITIATIVES **SURRONDING THE AUTO SECTOR**













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TRUMP INITIATIVES UNCERTAINTIES ON TRADE (1)



Bilateral net balance in trade in automotive (USDbn, 2017)

Partner	Brazil	Canada	China	France	Germany	India	Italy	Japon	Korea	Mexico	Russia	Spain	Tukey	UK	US	RoW	Total WORLD
Brazil		- 5	- 844	- 262	- 935	- 150	- 388	- 839	- 1028	- 300	185	- 111	- 50	- 162	- 1 292	7 034	878
Canada	5		- 56	- 62	- 3 250	- 140	- 341	- 4768	- 2324	- 3 829	39	- 133	- 90	- 871	7 613	- 295	- 8 502
China	844	56		143	- 21 508	1 370	- 1238	- 8 048	- 1175	725	1 410	- 40	533	- 4412	3 759	28 111	- 1 487
France	262	62	- 143		- 7 834	- 160	- 694	- 1231	- 540	- 48	305	- 4138	- 1 467	1884	92	- 2 941	- 16 412
Germany	935	3 250	21 506	7 634		149	6 666	3 811	3 613	- 1678	3 927	- 170	2 488	22 789	22 701	27 784	125 403
India	150	140	- 1370	160	- 149		112	- 351	- 1394	598	- 1 332	- 1113	- 1013	- 1115	- 61	7 483	13 895
Italy	388	341	1 238	694	- 6 666	- 112		- 610	- 593	- 22	283	- 2 648	- 1794	253	5 028	- 1014	- 5 258
Japon	839	4768	8 046	1 231	- 3811	351	610		697	3 124	3 383	1 170	735	2 021	49 038	49 788	121 989
Korea	1 028	2 3 2 4	1 175	540	- 3 813	1 394	593	- 697		1 910	2 481	742	689	751	17 614	20 089	46 288
Mexico	300	3 829	- 725	48	1 678	- 598	22	- 3 124	- 1910		72	- 389	- 89	139	61 528	1 769	61 148
Russia	- 185	- 39	- 1410	- 305	- 3 927	1 332	- 283	- 3 363	- 2481	- 72		- 293	- 230	- 852	- 514	- 3 472	- 17 532
Spain	111	133	40	4 138	170	1 113	2 648	- 1170	- 742	389	293		208	3 487	676	6 606	16 718
Tukey	50	90	- 533	1 487	- 2 488	1 013	1794	- 735	- 689	89	230	- 208		1731	1 038	4 738	6 152
UK	162	871	4 412	- 1884	- 22 789	1 115	- 253	- 2 021	- 751	- 139	852	- 3 487	- 1731		6 763	- 7 451	- 27 628
US	1 292	- 7813	- 3 759	- 92	- 22 701	61	- 5028	- 49 038	- 17814	- 61 528	514	- 676	- 1 038	- 6763		10 017	- 165 078
RoW	- 7 034	295	- 28 111	2941	- 27 784	- 7 483	1014	- 49 788	- 20 089	- 1789	3 472	- 6 606	- 4738	7 451	- 10 017		- 146 483
Total WORLD	- 876	8 502	1 487	16 412	- 125 403	- 13 895	5 258	-121 969	- 46 288	- 61 148	17 532	- 16 718	- 6 152	27 626	165 078	146 483	

US: world's biggest importer (USD291bn in 2017, i.e. 20% of global imports)



US: biggest deficit in auto trade (USD165bn in 2017)



TOP 3 imbalances:

US-Mexico (USD62bn) US-Japan (USD49bn) US-Germany (USD23bn)

Sources: UNCTAD, Allianz Research



TRUMP INITIATIVES UNCERTAINTIES ON TRADE (2)





Pending threat on US import duties with EU

A 20-point in US import tariffs

- >+EUR6.5K (average price of a EU car imported to the US)
- > -270K cars imported
- > -EUR10bn shorfall for the European auto industries



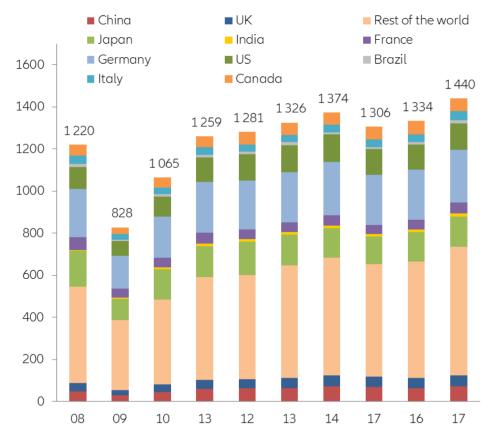
Trade escalation with China / retaliation

> US-made vehicles are now subject to 40% tariffs



Global exports to decelerate further than curent expectations (from +8% in 2017 to +5.5% in 2018 and +4.8% in 2019 to USD1,600bn)

Global exports in Automotive (USDbn)



Sources: UNC I AD, Allianz Research

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TRUMP INITIATIVES: UNCERTAINTIES ON STRATEGIES OF GLOBAL PLAYERS

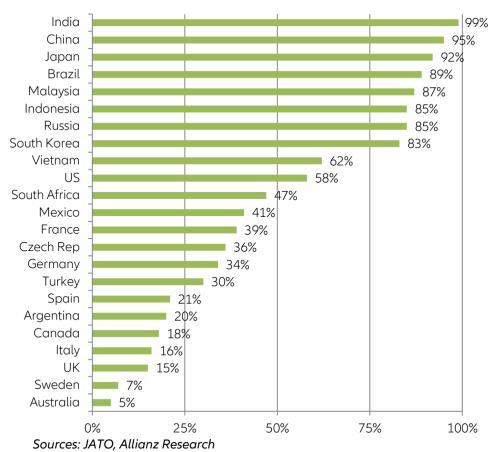


FROM INPUT COST TO SELLING PRICE?

- Resp. 25% and 10% tariffs on steel and aluminium
- Metals > 50% of the car components
- Already a +USD250 increase in cost of producing a new car in the US
- Tariffs escalation on a variety of parts and components used in respective local-based assembly lines

RELOCATION OF PRODUCTION?UPHEAVAL OF SUPPLY-CHAINS?

Percentage of locally-produced cars on total sales

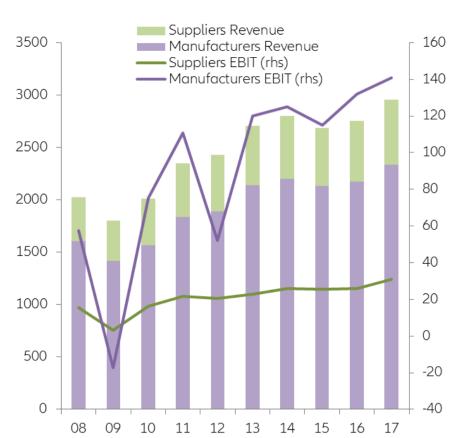


WEAKER MARGIN, CAPEX UNDER CLOSER WATCH



MARGIN RATIO TO WEAKEN IN 2018 AFTER RECORD REVENUE AND EBIT IN 2017

Revenue and EBIT (USDbn)



Sources: Bloomberg, Allianz Research
Top 60 listed manufacturers + Top 100 listed suppliers
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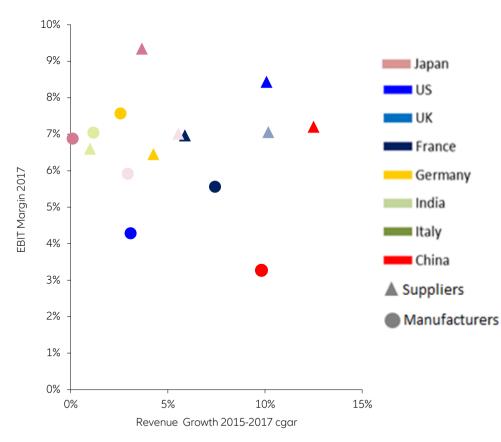
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8 years of recovery (+ 5.7% CAGR since 2009)

Record high in 2017 for cumulative revenue and EBIT

EBIT margin to weaken from 2017 top levels (5% for manufacturfers and 7.2% for supliers in average)

EBIT margin – Suppliers vs Manufacturers

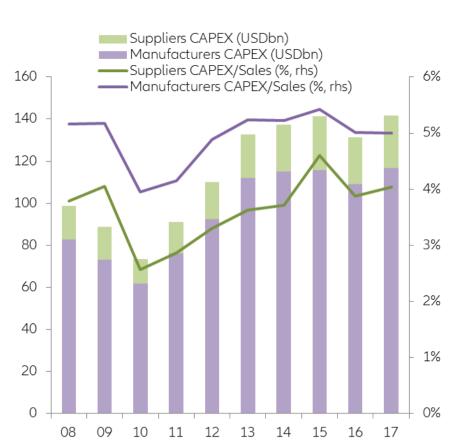


Sources: Bloomberg, Allianz Research Top 60 listed manufacturers + Top 100 listed suppliers

CAPEX: UNDER CLOSER WATCH



CAPEX (USDbn)

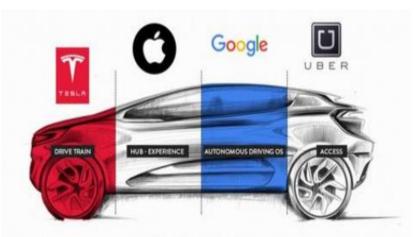


CAPEX at a new record in absolute terms in 2017 (USD140bn)

CAPEX/ sales ratio on the downside (5.3% in 2015 to 4.8% in 2017 in average)

Short-term challenges to mobilize part of the CAPEX that were planned for the longer term competition on mobility

Less M&As, more JVs and strategic alliances



IS THIS YOUR CAR IN 2020?

Sources: Bloomberg, Allianz Research Top 60 listed manufacturers + Top 100 listed suppliers

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