

BEV's – Has the 2021 weakness in values stabilised...

...and what are the future drivers we should consider



Andy Shields

Business Unit Director INDICATA



Agenda

About INDICATA

What is happening with BEV sales and RVs?

Market Days Supply – Tracking Supply and Demand

Why is Supply and Demand changing?

Summary





About INDICATA

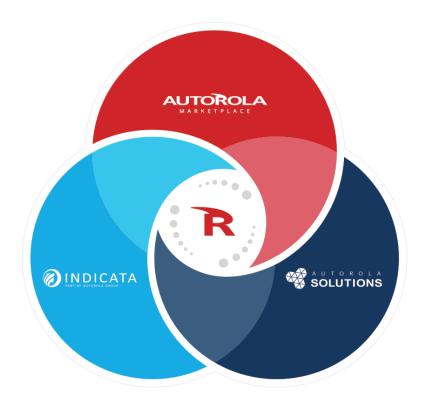
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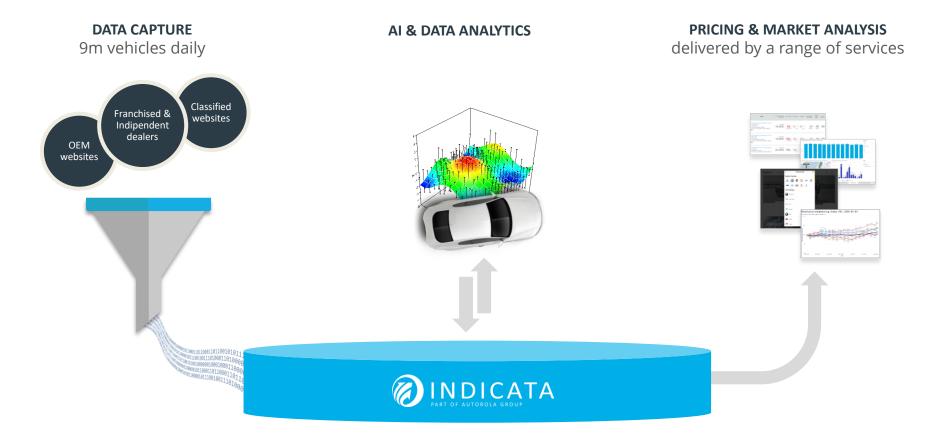








INDICATA PRICING AND MARKET ANALYSIS





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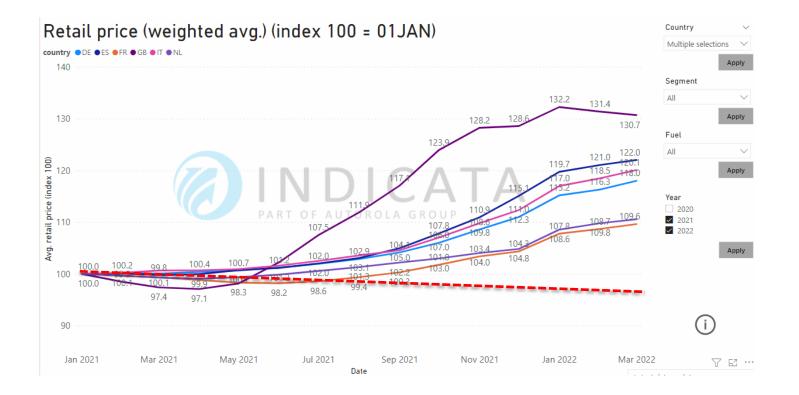
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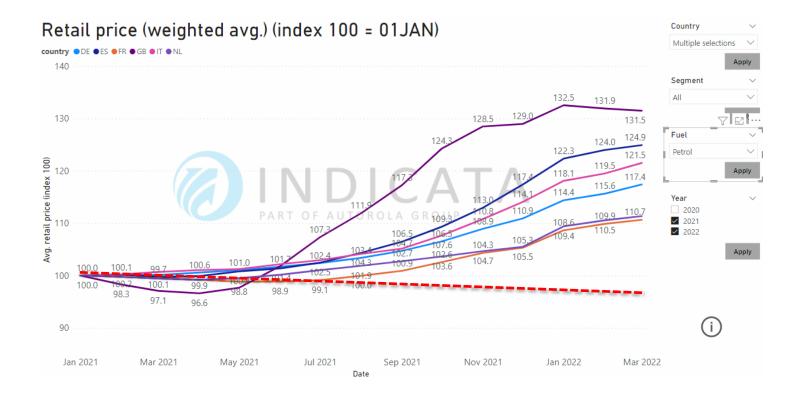


PRICES ACROSS EUROPE ARE RISING – ALL FUEL TYPES



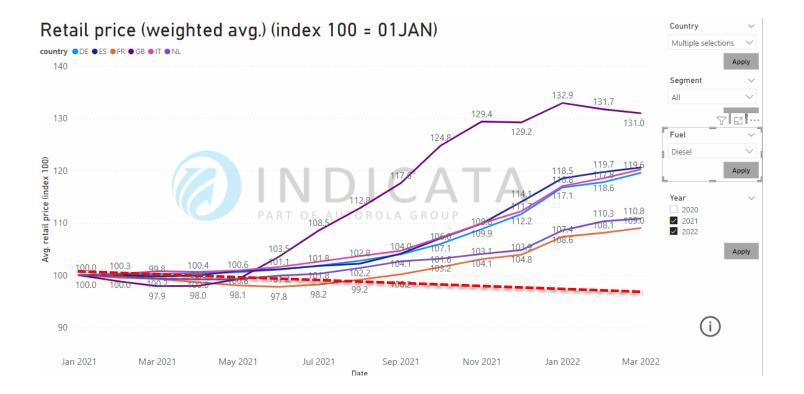


PRICES ACROSS EUROPE ARE RISING – PETROL



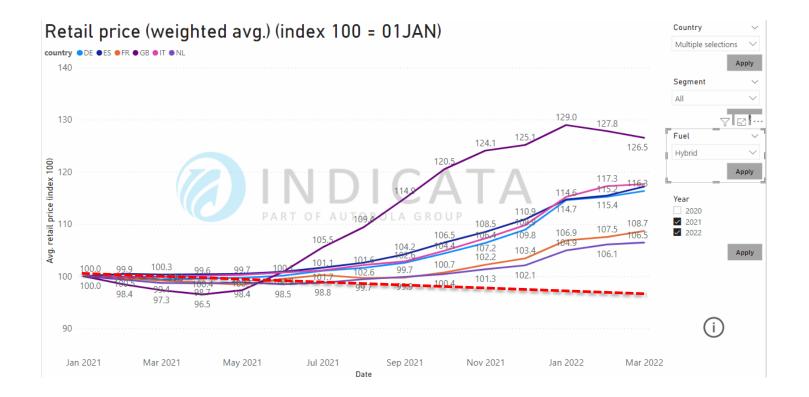


PRICES ACROSS EUROPE ARE RISING – DIESEL



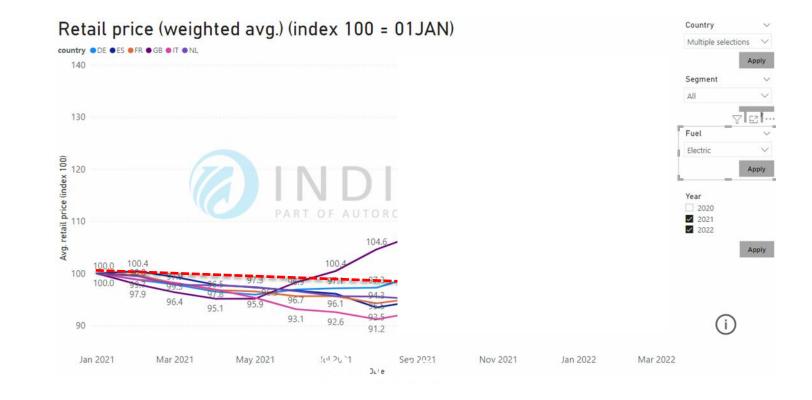


PRICES ACROSS EUROPE ARE RISING – HYBRID





BUT THE PICTURE IS DIFFERENT WITH BEV...Initially underperforming





BUT THE PICTURE IS DIFFERENT WITH BEV...Now with signs of recovery





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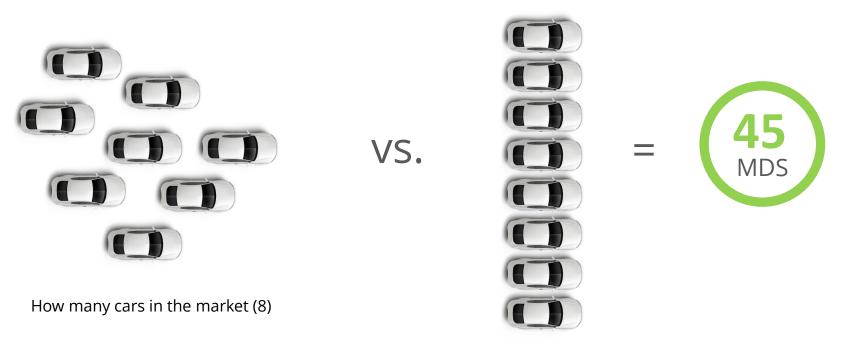


THE REASON CAN BE FOUND IN MARKET DAYS SUPPLY

- MDS measures the "marketability" or attractiveness of a vehicle
- Volume growth alone does not measure demand!
- <u>The key is understanding the supply and demand relationship</u>







How many sold in last 45 days (8)





How many cars in the market (8)

How many sold in last 45 days (4)

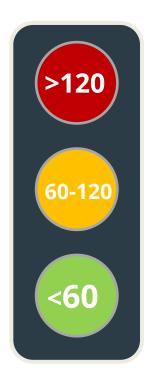




How many cars in the market (8)

How many sold in last 45 days (2)





SLOW MOVING STOCK Ageing risk – **AVOID!**

AVERAGE STOCK May cause issues

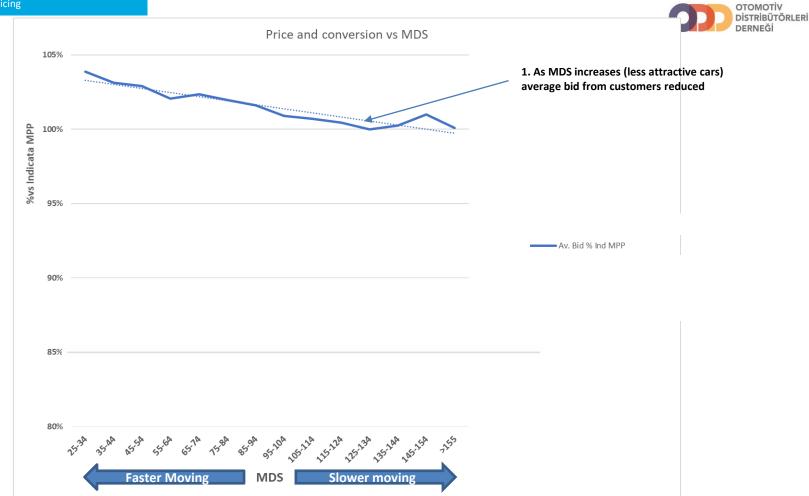
FAST MOVING STOCK Good profits / high turn – **DO!**

Case Study

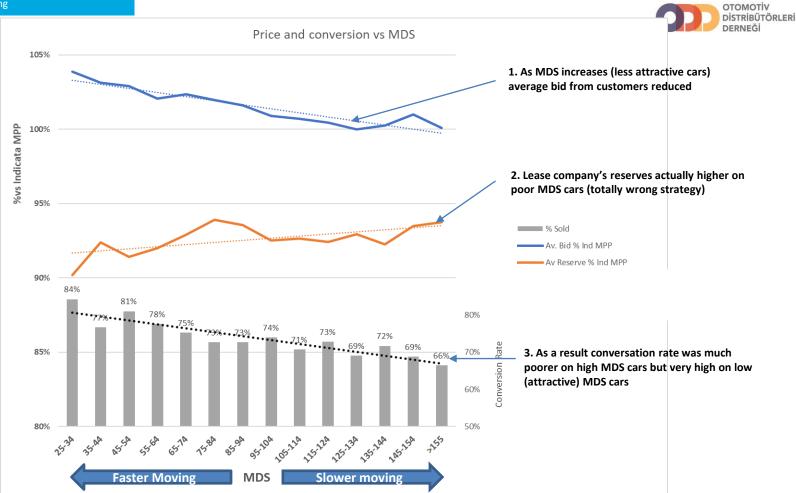


CASE STUDY – Remarketing and MDS

- Germany Leasing Company
- Assessment of correlation of auction conversion vs MDS
- Impact of reserve positioning

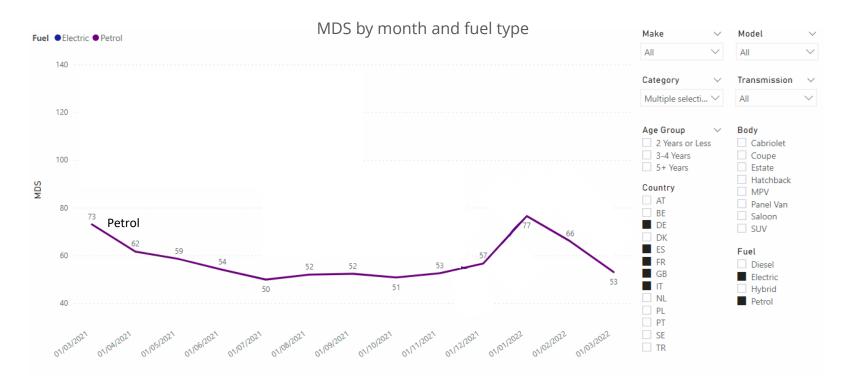






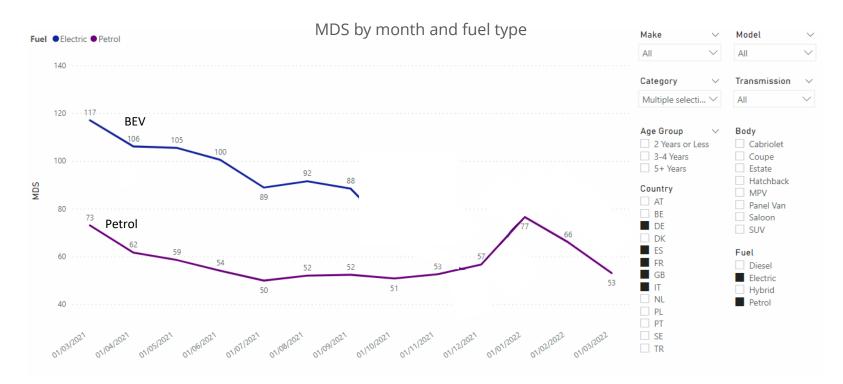


PETROL MDS IS LOW – ILLUSTRATING THE SHORTAGE OF VEHICLES



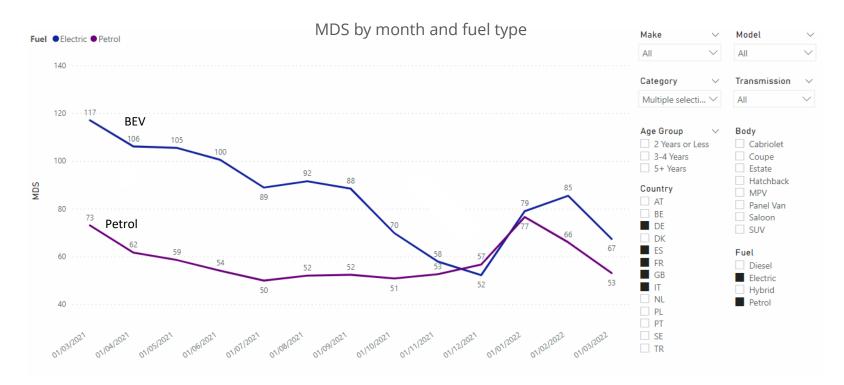


BEV's WERE IN OVERSUPPLY – HENCE REDUCING PRICES



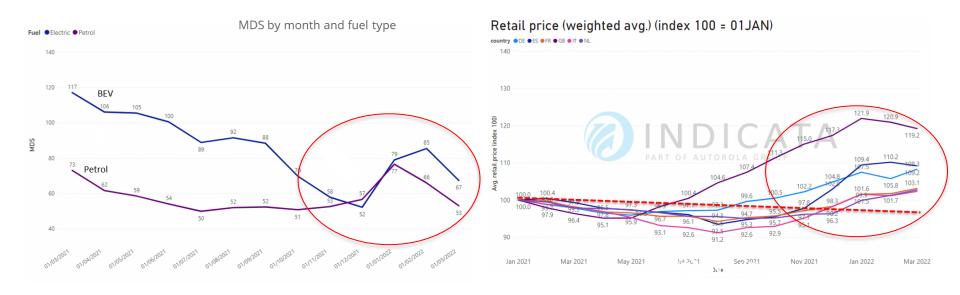


BEV SUPPLY / DEMAND RATIO HAS RAPIDLY CORRECTED





THIS CORRECTION IN SUPPLY / DEMAND IS DRIVING BEV PRICE RECOVERY





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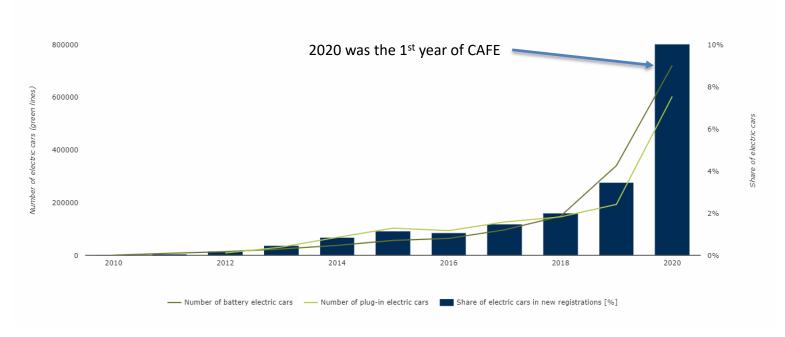
Why is Supply and Demand changing?

Summary



2020 SAW A MASSIVE JUMP IN NEW ELECTRIC VEHICLE SALES

Figure 1. Electric cars registered in the EU-27, Iceland, Norway and the United Kingdom

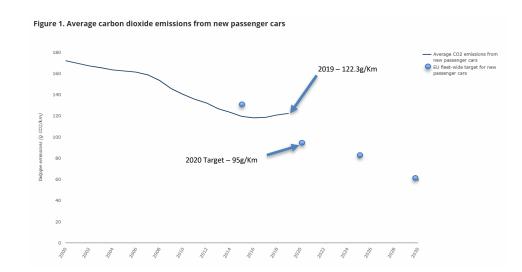




HOW DOES CAFE WORK – 2020-2025

Overall Rules

- OEM's need to get overall CO2 emission to 95g/Km (NEDC)
- Individual targets (can be pooled)
- Penalty of €95 for every g/Km over own target
- Thus an OEM at 110g/Km would be 15g/Km over target
- €1400 penalty per car registered
- An OEM with 1m registrations would have €1.4bn fine



The OEM's had a massive task to avoid extreme penalties in 2020 given 2019 CO₂ levels



HOW DOES CAFE WORK – 2020-2025

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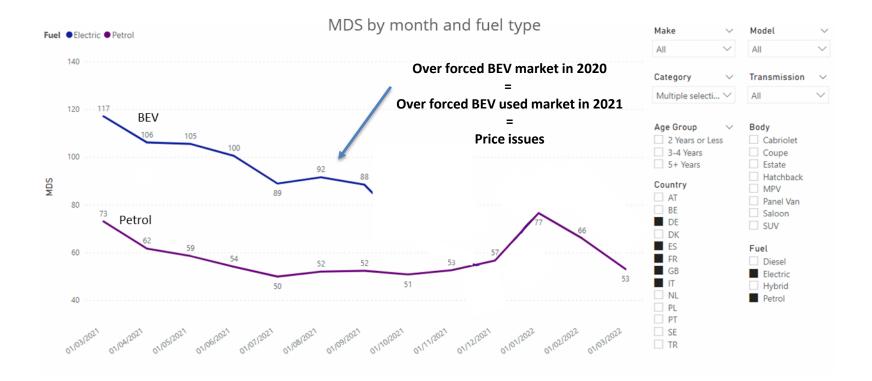
Transition support – "Super Credits"

- 2020 Every <50g/Km counts double
 - BEV's have twice the 0g/Km benefit
- 2020 only 95% of least polluting cars count
 - Every extra 0g/Km BEV removes a 350g/Km V8 M5
- Each BEV registered could reduce fines by €20-€30K

<u>Net effect – OEM's had massive incentive to force market with BEV</u> <u>and ZLEV</u>



Many of these cars were on short cycle





So, what is happening in now?

CAFE issues having less effect

- The ZLEV "Super Credits" have less and less impact
 - 2020 ZLEV count 2x
 - 2021 ZLEV count 1.67x
 - 2022 ZLEV count 1.33x
- The 95% best emissions rule only for 2020
 - A new BEV does not replace a high emission car from the count
- "Super Credits" usage had a cap
 - Most OEM's used their 2020-2022 allowance in before end 2021

OEM compliance with CAFÉ no longer an issue

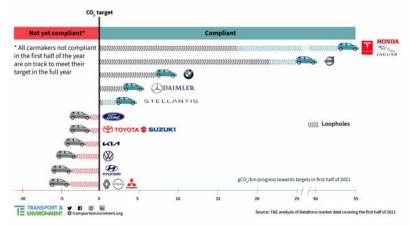


Figure 20 - OEM's compliance gap in the first half of 2021

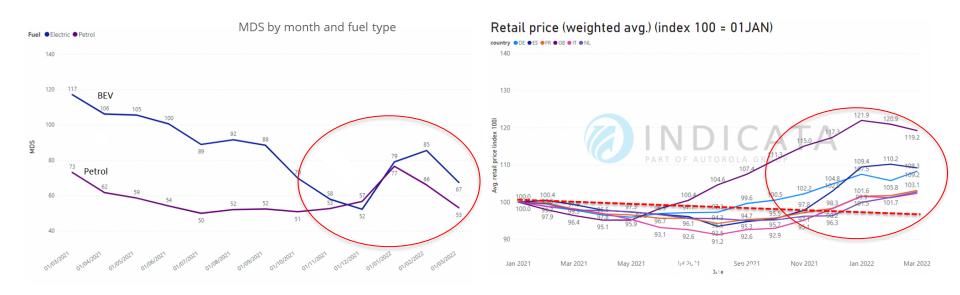
<u>Super Credits have less impact – so less benefit in forcing</u> <u>the market</u>

Most OEM's hit target in 2021 (due to technical loopholes) and will continue across to 2030 despite new targets in

<u>2025</u>



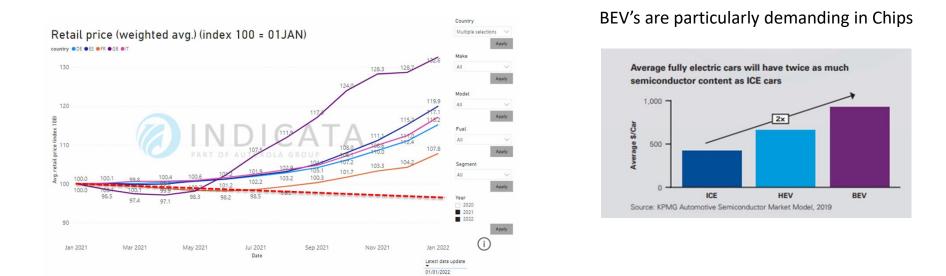
THIS CORRECTION IN SUPPLY / DEMAND IS DRIVING BEV PRICE RECOVERY



But if the chip shortage is the biggest driver – how do we see that progressing



THE CHIP SHORTAGE IS DRIVING PRICE RISES



A sustained shortage of chips and reduced CAFE pressure - will OEM's then re-focus back to ICE?

And how long will chip issues last?

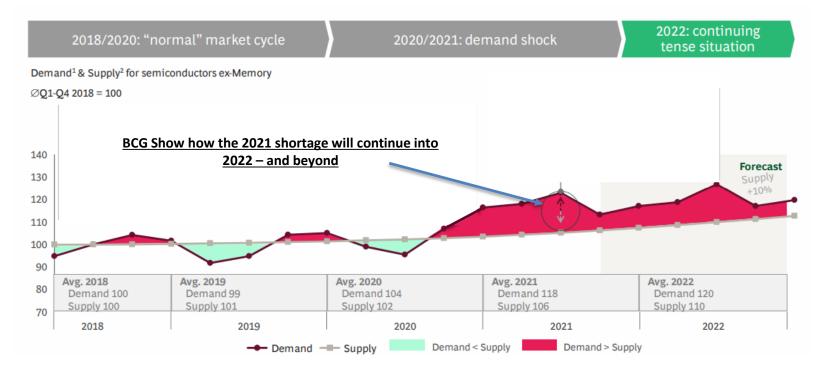


PREDICTING THE CHIP SHORTAGE – Boston Consulting Group



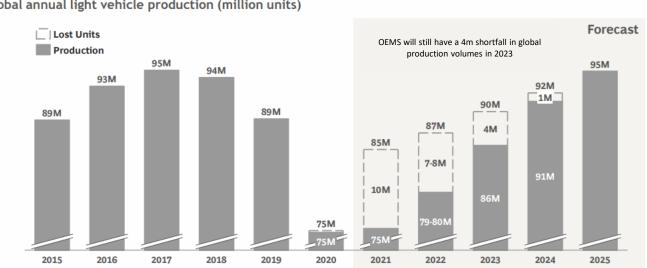


PREDICTING THE CHIP SHORTAGE





BCG see the balance only returning in 2024!

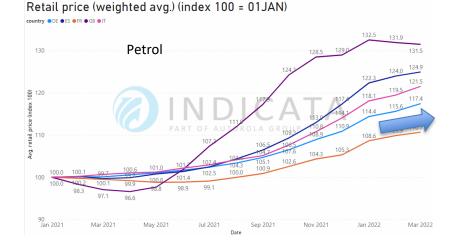


Global annual light vehicle production (million units)

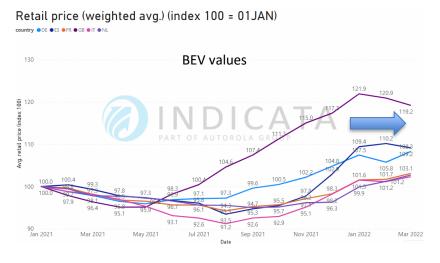
This has 2 key impacts for residual values...



MARKET STRENGTH LOOKS TO CONTUNUE



Unlikely to be a radical reversal in overall RV's in the near term – at worst "stabilisation"



But are undelying pricing issues with BEV's going to dominate or will chip shortage sustain recovery?



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Indicata Data Analytics



Used Values rose in H1 2021 bar BEV's



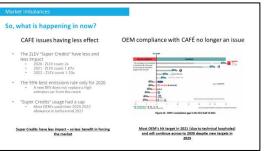
BEV Supply / Demand now balanced



CAFÉ Effect in 2020 – Impact on 2021



CAFÉ Effect reduced



Chip shortage to 2024 – high impact on BEV's?

