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## The West Midlands' Automotive Industry in the Aftermath of COVID-19: Survival of the Fittest?

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### WM REDI

## WM REDI Policy Briefing Series



## The West Midlands' Automotive Industry in the Aftermath of COVID-19: Survival of the Fittest?

#### Dr Amir Qamar and Professor Simon Collinson

Research by Oxford Economics identifies Birmingham to be hit exceptionally hard by the pandemic because the city, as well as the region, is heavily exposed to manufacturing and local supply chains. The industry is already suffering from Brexit-related issues and a significant decline in sales from China, but coupled with Covid-19, it is forecasted that multiple car plants will close (Inman, 2020). Given the interconnected nature of automotive supply chains in general, and the high concentration of other firms that are highly dependent on the industry, the West Midlands regional economy could shrink by 10.1%. This figure includes the automotive sector itself, which makes up around 6% of the local economy, plus other dependent suppliers an contractors. Factory shutdowns and interruptions to supply chains, alongside a significant decline in demand for new vehicles, means that the sector will take a long time to recover and there are likely to be a growing number of lay-offs and possibly bankruptcies along the way.

Given the UK's pledge to help large businesses via the Coronavirus Large Business Interruption Loan Scheme (CLBILS), in this study, we explore the financial position of the 50 largest (in terms of revenue) automotive firms in the West Midlands. How resilient are they in the face of economic shocks of this scale? Our findings show that 21 firms are at high risk as they have relatively poor current liquidity ratios. These are the firms that will face severe cash flow issues and will need support immediately. Importantly, some of these firms include key Original Equipment Manufacturers (OEMs), thus they inevitably operate at the downstream end of supply chains. Multiplier analyses show that if these firms were to fail, there would be a significant ripple effect with a destructive impact on the industry and the local economy.





#### Introduction

As attention begins to move from the health-related risks of the Covid-19 crisis to the economic and social impacts, assessments show that English regions outside of London and South-East are amongst the worst affected areas (Inman, 2020). Of these, the West Midlands stands out as vulnerable due both to its demographic structure and its high dependence on manufacturing industries. The automotive industry, already facing significant challenges, sits at the heart of the region and this threat.



#### The UK Automotive Industry

Although key OEMs in the UK are predominantly foreign owned corporations (Qamar et al., 2019a), the automotive sector is an integral part of the UK economy. The sector accounts for over £82 billion turnover and £18.6 billion in value adding activities (SMMT, 2018), employs around 168,000 people directly in automotive manufacturing and over 823,000 across the wider automotive industry. It also accounts for 14.4% of total UK exports (worth £44 billion), with 80% of vehicles produced in the UK exported to 160 different markets in the world (SMMT, 2018). The industry invests £3.75 billion each year in automotive R&D. More than 30 manufacturers build in excess of 70 models of vehicles in the UK, supported by 2,500 component providers and some of the world's most skilled engineers. In 2019, over 1.3 million cars, 78,270 commercial vehicles and 2.5 million engines were produced in the UK (SMMT, 2020).

The West Midlands is one of the main UK centres for car production and is best known for its OEMs such as Jaguar Land Rover, Aston Martin and Mini. Yet, the West Midlands automotive industry is not only home to large 1<sup>st</sup> Tier suppliers, it has a large cluster of organisations and component groups including driveline, chassis and body panel, engine components, interior trim, electrical components and design. These manufacturers operate as part of a large cluster in different tiers of the supply chain.

#### **Examining Corporate Resilience and the Impact of Government Financial Support Measures**

On April 3<sup>rd</sup> 2020, the UK government announced that they would be supporting businesses via an initiative known as the Coronavirus Large Business Interruption Loan Scheme (CLBILS). The aim of this scheme was to support large businesses, who achieve an annual turnover of over £45 million, by allowing them to apply for up to £25 million in finance (offered at commercial rates of interest). Firms with a turnover of more than £250 million could apply for up to £50 million in finance. This funding was made available through a series of accredited lenders (listed on the British Business Bank website) and the government has assured lenders that it will provide them with an 80% guarantee on individual loans. This provides banks with the security and confidence to proactively lend to as many businesses as possible to mitigate against the economic impacts of COVID-19.

Overall, the aim of the scheme was to ensure that lenders provide temporary financing to support firms who still have bills to pay but are earning little or no revenue. One-quarter of UK businesses have temporarily closed, others particularly in the travel industry, such as Hertz and Flybe, have closed permanently. Schemes like this provide cash-flow or liquidity to help firms survive until markets pick up again.









The need for these schemes and the value of them to the economy in terms of helping firms survive and reducing redundancies, varies by sector and by firm. This partly depends on: (1) to what degree is this particular crisis impacting their business (e.g. British Airways vs. Netflix), and; (2) how resilient are they, for example do they have assets, savings, a cash surplus sufficient to survive an economic shock? The current economic crisis provides a unique opportunity to analyse corporate resilience. We studied the top-50 automotive firms in the West Midlands, based on revenue, to assess which of these firms required the most support during the economic downturn.

. Table 1: Top 50 Automotive Firms in the West Midlands Ranked by Current Ratio

Rank   Company name   accounts   Revenue/Turnover   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/50)   (1/	20 266 HI 0 2,173 HI 0 222 HI
2 Aston Martin Lagonda Limited     31/12/2018     949,497     4.83     21,121     0.47     0.34     95     0.       3 Aisin Europe Manufacturing (UK) Ltd.     31/03/2019     27,255     -18.55     -22,775     0.61     0.35     77     2.       4 ADV Manufacturing Limited     30/06/2018     27,584     -21.54     -19,805     0.64     0.40     26     11	0 2,173 HI 0 222 HI
3 Aisin Europe Manufacturing (UK) Ltd.     31/03/2019     27,255     -18.55     -22,775     0.61     0.35     77     2.       4 ADV Manufacturing Limited     30/06/2018     27,584     -21.54     -19,805     0.64     0.40     26     11	0 222 HI
4 ADV Manufacturing Limited 30/06/2018 27,584 -21.54 -19,805 0.64 0.40 26 11	
5 Mahle Filter Systems UK Limited 31/12/2018 28,125 -30.69 -44,495 0.67 0.41 77 2. 6 Uk-Nsi CO. Limited 31/03/2019 92,629 2.58 5,685 0.84 0.59 27 11	
	111
· I i i i i i i i i i i i i i i i i i i	
g Jaguar Land Rover Limited 31/03/2019 20,870,000 -18.55 -117,551 0.86 0.70 86 0.  g ZF Automotive UK Limited 31/12/2018 336,380 1.58 2,826 0.86 0.78 89 0.	
10	
12	
13 TRW Systems Limited 31/12/2018 501,982 -2.63 -11,229 0.98 0.86 40 4.  14 Rimstock Limited 31/03/2018 18,744 0.10 77 0.98 0.50 92 0.	
27	
15 Grainger & Worrall Limited 31/05/2019 61,047 6.43 6,624 1.02 0.68 28 11 16 Brose Limited 31/12/2018 263,830 2.62 9,481 1.04 0.83 92 0.	
10	
±'	
18 London EV Company Limited 31/12/2018 79,198 n.s -215,525 1.07 0.89 86 0.	
19 International Automotive Components Group Limited 31/12/2018 332,502 1.14 3,122 1.10 0.98 89 0.	
20 Tricom Group PLC 31/03/2019 22,763 4.17 3,125 1.10 0.70 95 0.	
21 Paintbox Banbury Limited 31/12/2018 24,150 -3.39 -3,916 1.11 0.93 30 11	
22 Auto-Sleepers Group Limited 31/08/2018 138,694 5.54 16,710 1.20 0.14 99 0.	
23 Adient Seating UK Ltd 30/09/2018 402,003 -1.29 -3,258 1.23 1.06 81 2.	·
<b>24 Arlington Engineered Systems Limited</b> 30/03/2018 70,112 4.09 12,630 1.26 1.14 92 0.	
25 MG Motor UK Ltd 31/12/2018 107,420 3.65 103,211 1.33 1.00 85 0.	IVICE
26 Sertec Precision Components Limited 31/03/2019 20,243 -6.16 -6,928 1.34 1.13 86 0.	
27 Stadco Limited 31/12/2018 171,054 2.51 5,586 1.35 1.24 92 0.	
28 Rheinmetall BAE Systems Land Limited 31/12/2018 190,000 3.16 8,571 1.51 1.50 86 0.	IVICE
29 Don-Bur (Bodies And Trailers) Limited 30/09/2018 51,088 3.87 4,193 1.71 1.19 99 0.	11122
30 Morgan Motor Company Limited 31/12/2018 33,729 9.38 15,204 1.71 0.90 92 0.	IVICE
31 Valeo Engine Cooling UK Limited 31/12/2018 33,419 16.93 70,725 1.75 1.66 99 0.	
32 Bevan Motor Bodies Limited 31/12/2018 23,863 1.46 1,638 1.75 1.36 95 0.	Wille
33 Auto-Sleepers Investments Limited 31/08/2018 138,809 5.73 17,290 1.76 0.22 95 0.	Wille
34 Trakm8 Holdings PLC 31/03/2019 19,145 -18.61 -15,292 1.76 1.40 86 0.	
35 Sumitomo Electric Wiring Systems (Europe) Limited 31/03/2019 697,875 0.31 89 1.78 1.01 92 0.	
<b>36 Titan Europe Limited</b> 31/12/2018 428,832 2.78 4,726 1.81 0.90 99 0.	
37 Bevan Group Ltd 31/12/2018 28,125 3.26 3,013 1.93 1.50 95 0.	
38 DAU DraexImaier Automotive UK Limited 31/12/2018 45,791 5.36 4,425 1.95 1.95 99 0.	
39 Morgan Motor Company Manufacturing Limited 31/12/2018 28,836 7.34 13,069 1.96 0.43 95 0.	EC.
40 Arcelormittal Tailored Blanks Birmingham Limited 31/12/2018 47,145 2.72 12,232 2.02 1.01 95 0.	
41 GKN Driveline Birmingham Limited 31/12/2018 195,637 -1.96 -4,872 2.04 1.74 81 2.	
42 Walsall Pressings Company Limited 30/06/2018 38,845 3.43 4,687 2.08 1.61 99 0.	
43 Dennis Eagle Limited 31/12/2018 226,383 6.86 18,347 2.11 1.52 95 0.	
44 SAI Automotive Fradley Ltd 31/12/2018 176,010 11.18 37,047 2.14 2.03 92 0.	
45 <b>HUF U.K. Limited</b> 31/12/2018 40,305 5.76 11,540 2.74 2.42 33 11	
46 Koito Europe Limited 31/12/2018 88,495 10.78 14,385 2.83 2.57 99 0.	
47 Leoni Wiring Systems U.K. Limited 31/12/2018 306,374 4.26 34,168 3.37 3.00 77 2.	LC
48 Carwood Motor Units Limited 31/08/2018 35,034 12.24 16,689 3.75 3.31 99 0.	20
49 Pailton Engineering Limited 31/12/2018 17,772 13.80 14,176 4.41 2.69 99 0.	
50 <b>Brian James Trailers Limited</b> 31/07/2019 25,870 20.69 30,939 5.14 4.22 99 0.	0 173 LC

Source: FAME Bureau Van Dijk database

Notes: (1) the latest available accounts were used in this study and vary by firm; see latest accounts column in Table 1 for exact dates; (2) FAME does not provide precise information about the region in which employees are based.









#### **How Resilient are Regional Car Manufacturers?**

Table 1 lists the largest 50 automotive manufacturing organisations in the West Midlands region (based upon revenue) and are ranked on their current ratios (ascending order). The current ratio is a liquidity ratio that compares a firms' current assets to its current liabilities and is commonly used to evaluate whether an organisation has enough resources to meet its short-term obligations. We define a firm as being high-risk when its current ratio is below 1.2, medium-risk if current ratios are between 1.20 and 1.80 and low-risk firms if above 1.80. Based upon the latest available accounts in FAME we find that 21 firms (highlighted in grey) have an annual turnover below the £45 million threshold, so they are not eligible to apply for the CLBILS.

In Table 1, firms highlighted in orange are the 21 firms that we define as high-risk. Together they employ 45,814 people, but only 12 of these high-risk firms are eligible for the CLBILS. Out of these 12 firms we find that 4 firms (Uk-Nsi CO. Limited, Faurecia Emissions Control Technologies UK Limited, TRW Systems Limited and Grainger & Worrall Limited) have weak credit scores, thus applying for the CLBILS is exceptionally important for these organisations. Critically important, the big OEMs and particularly JLR, but also Aston Martin, are amongst the high-risk firms. JLR is the largest direct employer, but also supports several tiers of supply chain firms and a wide range of dependent contractors and service firms in the region. If either of these firms were to shut down the repercussions for the West Midlands economy would be severe.

Moreover, out of the 9 high-risk firms that *do not* qualify for the CLBILS, 6 of these firms (CAB Automotive Ltd, Aisin Europe Manufacturing (UK) Ltd, ADV Manufacturing Limited, Mahle Filter Systems UK Limited, Polytec Car Styling UK Limited, Paintbox Banbury Limited), also have negative profit margins. These 6 firms have a total workforce of 1,553 individuals and negative profits coupled with poor current ratios makes these jobs vulnerable to redundancies.

Next, there are 14 firms classified as medium-risk, with a total of 29,770 employees. However, out of these firms only 9 firms (highlighted in blue) have an annual turnover greater than £45 million, thus qualify for the CLBILS. Two out of the 5 medium-risk firms that cannot qualify for the CLBILS and have negative profit margins, thus are relatively vulnerable to closures; Sertec Precision Components Limited and Trakm8 Holdings PLC. These two firms employ a total workforce of 413 people.

We identify 15 firms that cumulatively employ 7,945 people with relatively healthy current ratios. Out of these firms, 8 qualify to apply for the CLBILS. The 7 firms, which we deem as low-risk and are not eligible to apply for the CLBILS illustrate relatively healthy and positive profit margins. However, HUF U.K. Limited, which is one of the firms not eligible for the CLBILS, has an exceptionally weak credit score, thus sourcing alternative funding is most certainly required.











#### What Does this Mean for Management and Policy Makers?

Our analysis shows that the largest 50 automotive manufacturing firms in the West Midlands employ a total of 83,529 individuals and of these, 45,814, 29,770 and 7,945 people are employed in organisations of high-risk, medium-risk and low-risk respectively, using the current ratio as a proxy measure for cash flow or liquidity.

Cash flow is a key measure of resilience in the face of economic shocks, as explained by Dieter Becker (KPMG Partner, Global Head of Automotive), who describes how firms will face a time delay across their supply and demand chains, created by both breaks in component supply and stalled demand. His view is that this could create a double five-month wave effect with fluctuating capacity utilization, in the automotive industry. Becker states, "While governments and central banks make all efforts to mitigate the virus effects, I am convinced that the automotive industry will not be able to survive a similar second coronavirus wave with the same restrictive lock down consequences" (Becker, 2020).

Our analysis shows that only 29 out of the top 50 firms have an annual turnover greater than £45 million, and qualify for the CLBILS. The 21 firms that do not qualify for CLBILS will rely heavily on the Coronavirus Job Retention Scheme (CJRS), which is only a temporary measure. This scheme is designed to support firms by allowing them to furlough employees with the government paying cash grants of 80% of their wages up to a maximum of £2,500. The above data should provide a quide for government agencies to target support more precisely where it is needed.

One of the reasons for direct government intervention is the need to limit redundancies. While these reduce costs and can improve resilience for firms, unemployment places the financial burden on the taxpayer via the costs of benefits and welfare support. The significance of the key OEMs in the automotive industry is revealed when we apply appropriate multipliers to account for both direct and indirect unemployment impacts.

A multiplier effect can be defined as "An increase (or decrease) in income or employment in a local or regional economy triggered by the emergence of a new type of economic activity" (Domanski and Gwosdz, 2010 p.27). Crucially, multiplier effects result in the formation or loss of a range of additional jobs within the economic system or regional economy, outside of the industry sector affected (Moretti and Thulin, 2013). Local services in particular, including restaurants and many kinds of retailers, rely on consumption and therefore the incomes of those employed in other sectors.

The knock-on effects are expressed as a ratio of direct to indirect jobs and can be as high as 1:5. These provide some important indicators for policy makers looking to mitigate against the risks of redundancies that will have significant direct and indirect impacts on any one region, or promote economic growth and social well-being through employment. In this respect JLR is unusually important for the West Midlands, because it has such a high proportion of global production and employment in this one region.









From a strategic perspective, firms will need to be more 'agile' than ever before. Research by Qamar *et al.* (2018; 2019a; 2019b) into lean (efficient) and agile (flexible and responsive) firms within the West Midlands automotive sector shows why. Across all of their analyses of supply chains they find that downstream firms predominantly adopt a lean strategy and upstream firms an agile strategy. Although this may work within a relatively stable market, Covid-19 and other economic shocks require a more agile approach across all tiers within the automotive supply chain. Even if this requires higher levels of buffer stocks and less just-in-time approaches or at the expense of certain process improvement practices, the ability to respond and react flexibly is more important than ever.

#### Summary

Overall, in this policy brief our results show that many of the top 50 automotive firms are facing severe cash flow issues, to the degree that some business closures are inevitable. This will impact specific firms and particular regions far more than others and policy makers need to adapt support mechanisms appropriately. Firms need to be agile in response to the current and likely future economic shocks as this will provide resilience in a competitive environment where only the 'fittest' will survive.

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COVID-19: Automotive Business Support

Industry Topics: UK Automotive

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