Automotive

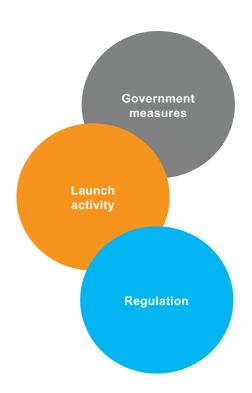
Automotive Logistics – Livestream Coronavirus Series

April 29th, 2020

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COVID-19: a generational event's impact on Autos sector

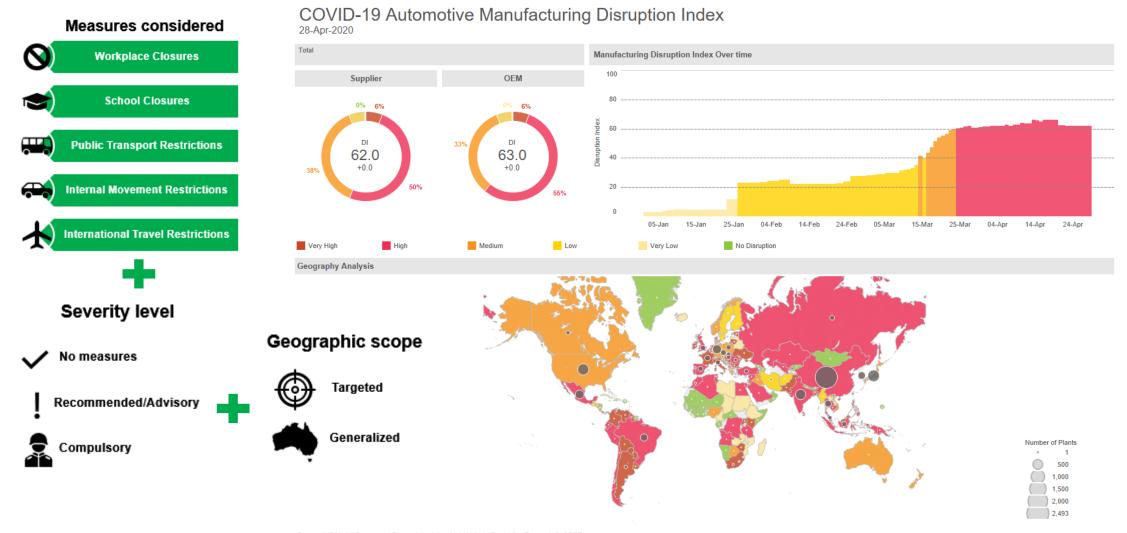


- Will government asymmetrical response to "Return to normal" exacerbate any existing asymmetry in supply and demand of parts and vehicles for several months?
- How exposed are OEMs and suppliers exposed to product launches delays?
- What does COVID-19 entail for the regulatory environment?

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Automotive Manufacturing Disruption (AMD) Index Outlining OEMs and suppliers' manufacturing exposure to government's COVID-19 measures.

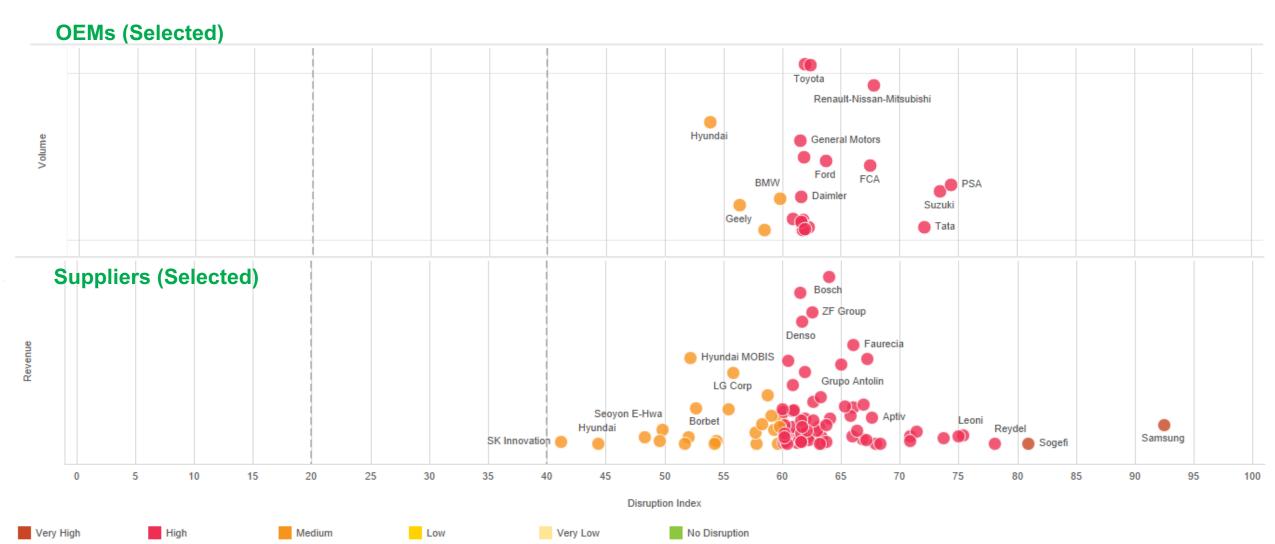




Source: IHS Markit Component Forecast Analytics, Light Vehicle Production Forecast, OxCGRT

AMD Index by OEM and suppliers (volume and revenue weighted) A greater exposure to China, Germany and Mexico favours different manufacturers.





COVID-19 impact on launch activity (delays measured as per IHSM fcst)Some OEMs' with more intense launch activity are more impacted that others



153

Programs are impacted in the last two weeks

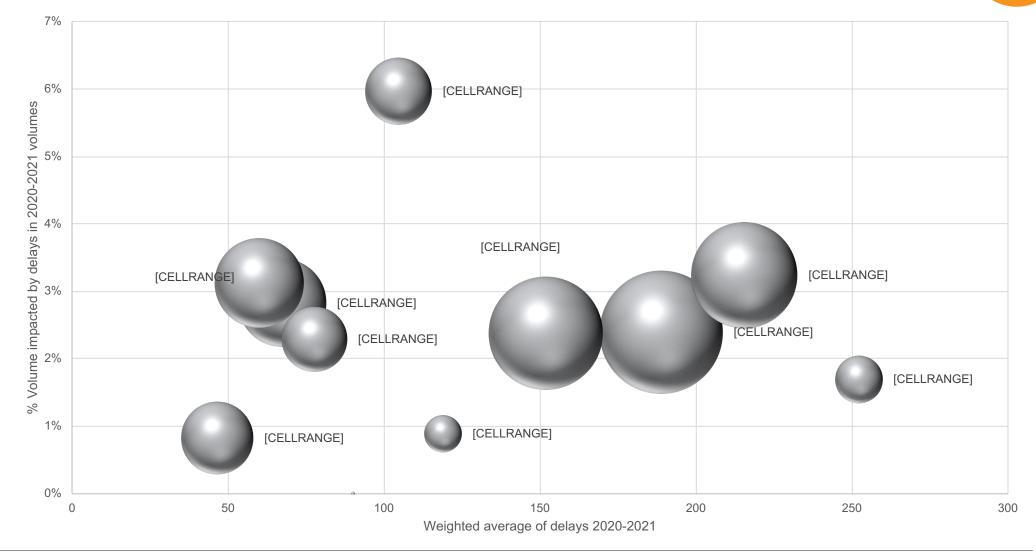
~1.3%

Of programs impacted

4.9

Average delay of impacted programs

months



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COVID-19 impact on launch activity (delays measured as per IHSM fcst)

Delays on EV launches having a major impact on CATL and BYD

Launch activity

560M

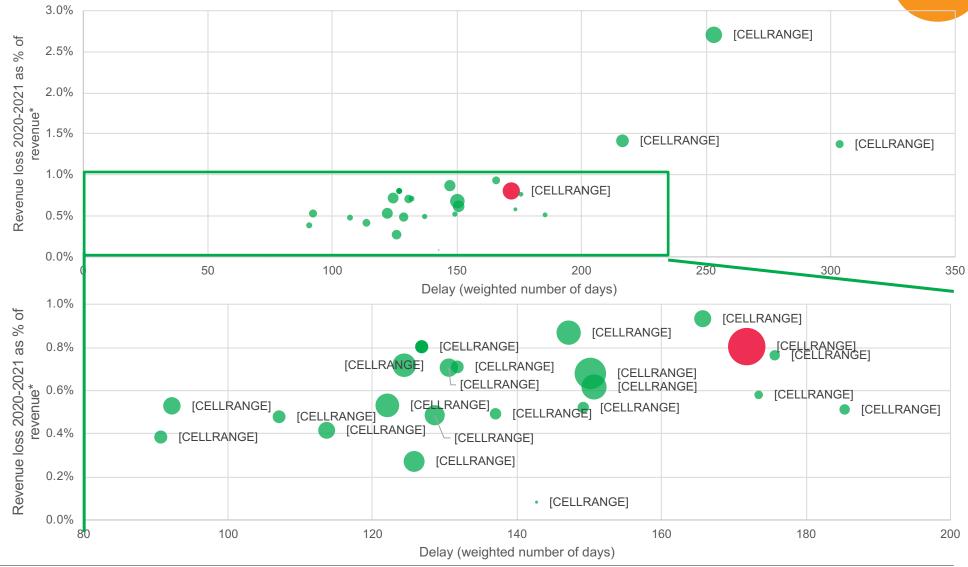
Revenue impact of delays for Bosch

107M\$

Average loss per supplier among top 50 suppliers

128 days

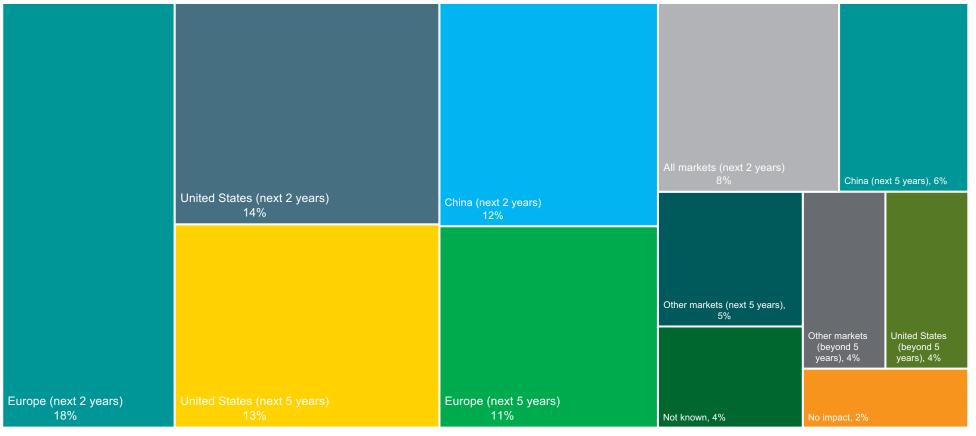
Average SOP slippage impact for top 50 suppliers



Regula tion

Regulatory implications Industry consensus on a softening of EU CO₂ seems clear, however less clear what lever will be used

IHSM Survey*: Will the COVID-19 related industry disruption result in delays of new regulation or relaxation of current regulation on CO2 and Fuel economy? If yes, which regions are impacted and for how long?



*140 respondents in early April (global OEMs and suppliers)

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Summary

- Asymmetry of market cycle likely to materialize between regions and countries as a function of restrictions, economic policies and disruption.
- Risk of extended period of supply chain disruption is therefore heightened.
- Forecast risks remain overwhelmingly on the downside given the uncertainty surrounding the pandemic & policy responses
- Industry consensus around delays to e-mobility and autonomy technology deployment is gaining momentum, however uncertainty still weighs on potential adjustments to the regulatory environment.

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