

Automotive Globalization & COVID-19 Implications for the Future of the Automotive Supply Chain

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Coronavirus (COVID-19) Update Threats to U.S. Production & U.S. Firms



Motor Vehicle Sales During Economic Slowdowns China, Europe, & the United States





Globalization & Trade

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Top 35 U.S. Automotive Parts Imports Sources 2019



Countries in Green account for 99% of all U.S. auto parts imports

70% of U.S. parts imports from 4 countries: Mexico (39%) Canada (11%) China (10%) Japan (10%)

The "World Car"



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Wehicle Platform, Model Variants, & Production





T3 Platform

Models: F-150

F-250/350 Super Duty Expedition Navigator







C-Max





Plants: Kentucky Truck, KY Dearborn, MI Kansas City, MO Avon Lake, OH





Plants:

Louisville, KY Chongqing, CHN Saarlouis, DEU Kocaeli, TUR St. Petersburg, RUS Valencia, ESP

C2 Platform

Models:

Focus

Escort (China) Escape/Kuga Transit Connect/Turneo Lincoln MKC

Chung Li, TWN Pluak Daeng, THA Hai Duong, VNM

Chinese sales growth was slowing & wages were rising, and then...

Average tariff rate, percent 2019 2018 2020 February 14 Phase one deal 21.1 goes in effect 20.3 +4.6pp in 19.3 four months 18.3 -0.8pp eight months -1.7pp 16.5 +9.0pp in +11.1 pp in three months three months 12.0 ----- eight months ----12.0 China's tariffs 21.8 21.1 on US exports 20.9 +8.2pp in three months 8.0% ----- six months __ 21.0 20.3 20.7 20.7 7.2 19.3 US tariffs on 18.3 18.2 Chinese exports 17.6 six months ---3.8 16.5 14.4 12.0 12.0 10.1 8.4 8.3 8.0% 8.2 7.2 6.7 3.8 3.1% 3.2 Mar Jan Mar May Jul Sep Nov Jan Mar May Jul Sep Nov Jan 2018 2018 2018 2018 2018 2018 2019 2019 2019 2019 2019 2019 2020 2020

US-China Trade War Tariffs: An Up-to-Date Chart

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The Consequences: Tariff Impacts on Chinese and the Rest of World Auto Imports 2018 vs. 2019



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Source: CAR Research based on the trade data retrieved from USITC DataWeb. The data is consist of six-digit HTS automotive goods in three tranches effected on: July 6, 2018; August 23, 2018; and September 24, 2018.

NAFTA and USMCA: Overview of Major Changes

NAFTA has a single threshold: 62.5 percent originating content	USMCA has five thresholds, each applying to a different set of parts or finished vehicles, ranging from 65 to 75 percent originating content
NAFTA was explicitly designed to prevent roll-ups	USMCA rules explicitly allow, even encourage roll-ups
NAFTA incorporates a tracing list as one of the measures against roll-up	USMCA abolishes the tracing list but requires more items to be originating
NAFTA has no requirements for steel and aluminum sourcing	USMCA introduces a requirement for North American steel and aluminum purchases
NAFTA does not have any labor value requirements	USMCA requires a minimum of 40 (45) percent of the value of manufacturing labor incorporated in a car (truck) to have been paid a wage rate above \$16 per hour. Up to 10 points of the requirement can be earned via R&D or IT salaries.
NAFTA does not address trade measures other than conditions for tariff-free access to each country's market	Provisions within the USMCA and its side letters provide limited protection for Canada and Mexico from a potential §232 tariff placed on imported vehicles and vehicle parts
	The USMCA provides limited protection for Mexico in the event that the U.S. raises its MFN tariff rates applied to vehicles and vehicle parts

Core Parts Rule + Labor Value Content Rule Combine to Incentivize U.S. & Canadian Production



chassis, axle, suspension, steering, advanced batteries)

Trucks=30% from materials & manufacturing

The Post-COVID-19 Automotive Industry

Three Options

Reshoring



Diversification

Status Quo



How will manufacturing change?

Automation



"Plump" Lean



Consolidation



