



August 26, 2021

The Honorable Michael S. Regan  
Administrator,  
U.S. Environmental Protection Agency  
Mail Code 1101A  
1200 Pennsylvania Avenue, N.W.  
Washington, DC 20460

RE: Request for Regulatory Clarity Regarding Semiconductor Supply Chain Impacts Arising from the COVID Pandemic

Dear Administrator Regan:

On behalf of our members, including auto manufacturers that produce 99 percent of the cars and light trucks sold in the U.S., as well as major automotive suppliers and technology companies, I write to request EPA's assistance in providing short-term confirmation of regulatory interpretation concerning unforeseen supply chain challenges to automotive production arising from the unprecedented and crippling semiconductor shortage that is a byproduct of the COVID pandemic.

At issue are EPA regulations concerning a "model year," and in particular 40 CFR § 85.2305, which restricts "production" of vehicles to no later than December 31 of the calendar year for which the model year is covered by a certificate of conformity.

Our members seek confirmation that EPA will not take the position that manufacturers who retrofit late-arriving semiconductors on already-produced vehicles will be considered to be in violation of the regulation. We do not consider such retrofits to be the type of "production" reasonably contemplated by the regulation. A contrary interpretation could present risk to vehicle production this year, impacting automakers, workers, and consumers alike, due to the unforeseen logistical delays arising from the continued shortage of semiconductors.<sup>1</sup> In an effort to keep workers employed and manufacturing facilities running, automakers have already produced many thousands of Model Year (MY) 2021 vehicles that are otherwise complete but for the semiconductors, or component parts requiring semiconductors, they are awaiting.

As manufacturers await delivery of these semiconductors, companies have had no choice but to store these vehicles and delay their entry into commerce until they are retrofitted with the missing semiconductors. As the semiconductor shortage has worsened, the industry now faces a situation where some of these vehicles may not be able to be retrofitted with semiconductors until after the new year.

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<sup>1</sup> On February 24, 2021, the President signed [Executive Order \(E.O.\) 14017](#), "America's Supply Chains," directing a whole-of-government approach to assessing vulnerabilities in, and strengthening the resilience of, critical supply chains (including semiconductors).

I am therefore writing to confirm that EPA does not consider retrofitting MY2021 vehicles with these late-arriving semiconductors that takes place during the first quarter of 2022 to be considered the type of “production” contemplated by 40 CFR § 85.2305, so that installation at that time will not affect the MY2021 certification of these vehicles. Our industry does not believe that EPA intended the regulation to preclude the late fitment after the end of the year, due to COVID pandemic global supply chain issues, of at most a handful of parts on vehicles that had been already appropriately produced in the calendar year corresponding to their model year.

In the alternative, to the extent that EPA determines that such late fitment does constitute “production” past January 1, then we request that EPA provide a No Action Assurance letter stating that manufacturers can proceed with retrofitting such vehicles in the first quarter of 2022, if necessary, and have them enter commerce under their MY2021 certificates of conformity. We also want to alert EPA that automakers may need an extension to file the required reports on final MY2021 sales to the various agencies to allow for time to deliver vehicles for sale after they receive all necessary components.

Without question, the stakes in terms of vehicle production, auto worker employment, and consumer impacts are high. Already, North American production is estimated to have lost 1.87 million vehicles this year and is projected to lose 2.18 million by the end of 2021.<sup>2</sup> As the following chart shows, the effect of this lost production is in addition to the unprecedented low level of new vehicle inventory. Currently, automakers are trying to make up for lost production capacity due to the unprecedented supply chain challenges that are a byproduct of the COVID pandemic and prevent further plant slowdowns or shutdowns, but not to “stockpile” vehicles before a model year change.

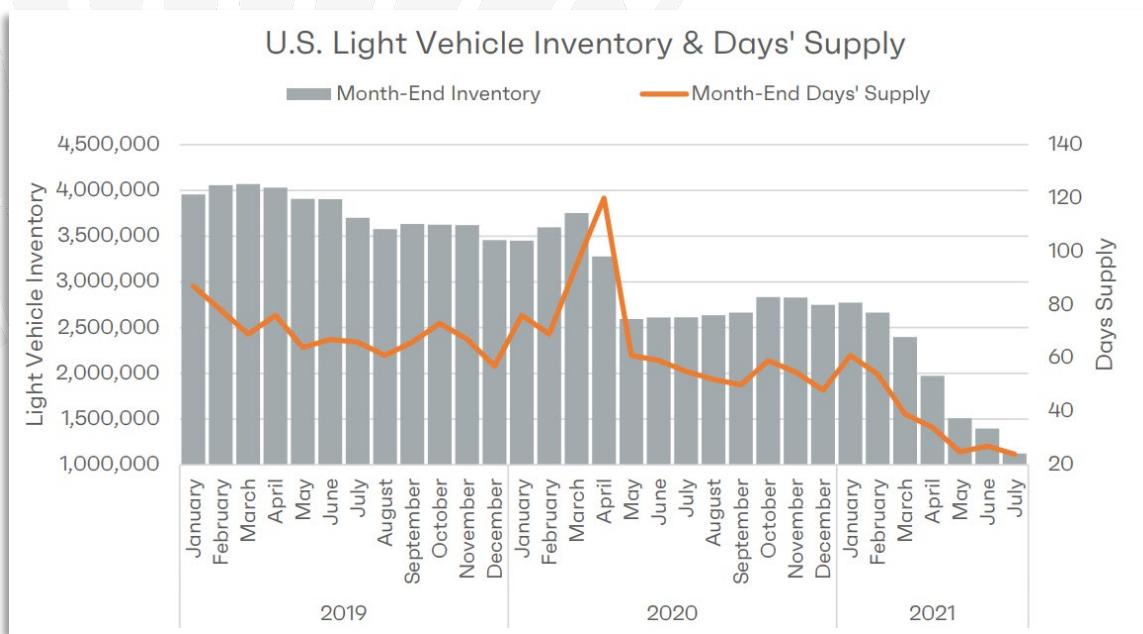


Figure 1: U.S. Light Vehicle Inventory & Days' Supply (source: Alliance for Automotive Innovation, “Reading the Meter: State of the Industry Report 8-12-2021.” See <https://www.autosinnovate.org/posts/papers-reports/reading-the-meter-8-12-21.>)

<sup>2</sup> “[AutoForecast Solutions Inc] raised its estimate for the toll of vehicles that have been cut from worldwide production plans to date to 5.8 million. It now forecasts that as many as 7.1 million vehicles eventually could be eliminated because of the supply problem.” [“The Latest Numbers On The Microchip Shortage: Production Cuts Lessen,”](#) Automotive News, 9/8/21.

Earlier this month, WardsIntelligence noted that:

U.S. light-vehicle inventory fell 19.4% from June, finishing July at 1.12 million units, 56% below the same year-ago period.

The decline continues a trend of sharply falling inventory due to supply disruptions caused mostly by the global microchip [semiconductor] shortage that have sharply curtailed production for the U.S. market in North America and overseas plants. The downward slide has been ongoing since January, with declines accelerating in Q2.

July 31 days' supply totaled 24, down from like-2020's 54 and well below the 60-65 range normal for the month.<sup>3</sup>

Meanwhile, vehicle demand remains high. In the context of this tight supply, high demand is pushing up vehicle prices, which is evidenced by July's all-time high transaction price of \$41,044 for new vehicles.<sup>4</sup> Likewise, the lack of new vehicle supply has also increased used vehicle sales<sup>5</sup> with the Bureau of Labor Statistics noting the Consumer Price Index for used cars and trucks increased 41.7 percent over the 12-month period ending July 2021.<sup>6</sup>

Although production is projected to increase in the coming months, WardsIntelligence has noted that:

[A]s has been the trend through the first seven months of this year, supply-chain disruptions could continue to push future production totals below expectations, mainly from the microchip shortage - and there already is planned factory downtime as far ahead as October due to the chip shortage - but existing bottlenecks in shipments via water, rail and truck also loom large. Furthermore, the rise in Covid-19 cases in North America and abroad could cause an increase in safety measures that further limit vehicle production for the U.S.<sup>7</sup>

Other industry projections are equally sobering when it comes to the challenges that automakers face. For instance, IHS Markit released the Monthly Automotive Update – August 2021, which noted:

**North America:** The outlook for North America light vehicle production was sharply reduced by 775,000 units for 2021 and increased by 192,000 units for 2022 (and increased by 406,000 units for 2023). The production outlook for 2021 was meaningfully reduced in the near-term as the semiconductor supply chain is not improving at the pace that was expected with renewed COVID-19 restrictions adding further weight to an already hamstrung global supply chain. Production in Q3-2021 was revised down 11.8% or 433,000 units on continuing and expected incremental downtime. Production in the third quarter was expected to begin a marked improvement in the supply of semiconductors with the August 2021 forecast release essentially erasing any increases compared to the benchmark December 2020 forecast. Production in the Q4-2021 was revised down 8.3%

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<sup>3</sup> Haig Stoddard, "July U.S. Light-Vehicle Inventory Falls 19%; 2021 Sales Outlook Chopped," WardsIntelligence, 8/4/21.

<sup>4</sup> For July 2021, average transaction prices are expected reach an all-time high of \$41,044. J.D. Power, Press Release, "[Inventory Shortages Cause July Sales Pace to Weaken but Demand Drives Average Transaction Price Above \\$41,000 for First Time](#)," 7/28/21.

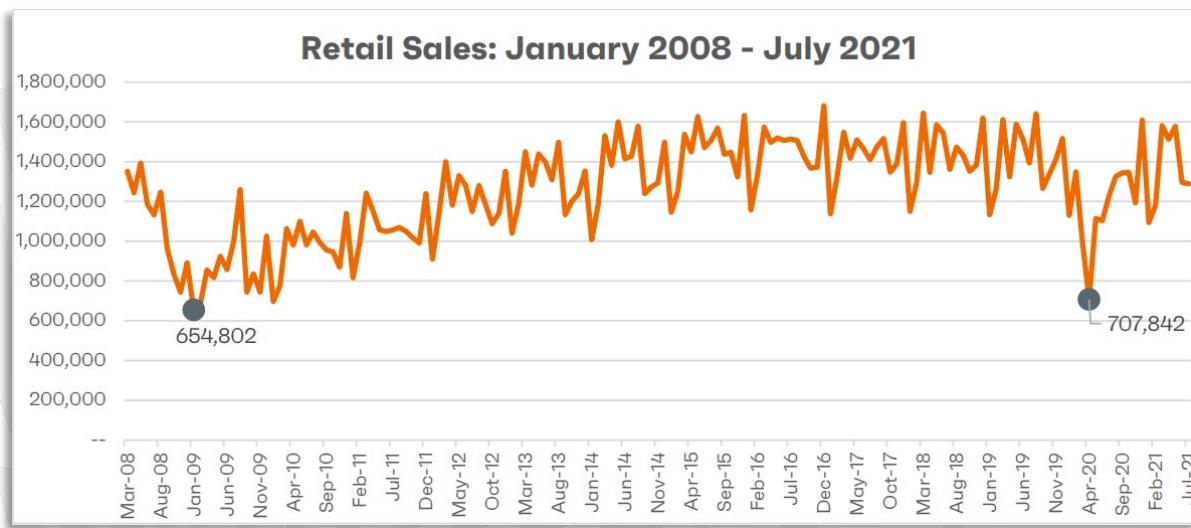
<sup>5</sup> Cox Automotive noted that used-vehicle prices set another record in June, with "the average listing price for used vehicles surpassed the \$25,000 mark for the first time – \$25,101 to be exact. Cox Automotive, "[Used-Vehicle Average Listing Price Sets Record](#)," 7/22/21.

<sup>6</sup> Bureau of Labor Statistics, Press Release, "[Consumer Price Index Summary](#)," 8/11/21.

<sup>7</sup> Haig Stoddard, "July U.S. Light-Vehicle Inventory Falls 19%; 2021 Sales Outlook Chopped," WardsIntelligence, 8/4/21.

or 333,000 units amid expectations for disruptions to continue for a more protracted period that extends through Q2-2022. Production in 2022 was revised higher by 192,000 units with production more heavily weighted in the second half amid expectations that the semiconductor industry will be able to support levels that allow automakers to finally begin recovering lost volume. Significant production recovery is limited due to expectations of a tougher first half along with many high-volume plants unable to produce beyond their already strong work patterns with this phenomenon decidedly weighting on full-size pickup production.<sup>8</sup>

Our industry has stepped up to help fuel our nation's response to and recovery from the COVID pandemic, not to mention producing critically needed personal protective equipment for frontline workers and ventilators for those in need. Nevertheless, we are still witnessing the ramifications from the eight-week shutdown of all vehicle production facilities in North America – the first such time since World War II.<sup>9</sup>



*Figure 2: Retail Sales: January 2008 - July 2021 (source: Alliance for Automotive Innovation, "Reading the Meter: State of the Industry Report 8-12-2021." See <https://www.autosinnovate.org/posts/papers-reports/reading-the-meter-8-12-21.>)*

To combat these supply chain challenges, the industry has taken measures to continue to produce vehicles (both MY2021 and MY2022) that are still awaiting semiconductors and are parked on manufacturers' lots. For a vehicle built at the end of the fourth quarter of 2021, needed semiconductors may not be available until early in the first quarter of 2022. As we near the fourth quarter of 2021, ensuring regulatory clarity will allow automakers the possibility of selling these MY2021 vehicles as soon as their corresponding semiconductors become available. Without this clarity, ongoing production may need to be halted prematurely, and the already-completed vehicles risk becoming a wasted investment and removed from the supply chain altogether ultimately as scrappage.

<sup>8</sup> IHS Markit, email, "IHS Markit Monthly Automotive Update - August 2021," 8/16/21.

<sup>9</sup> U.S. Auto Sales dropped nearly 15 percent to 14.463 million units in 2020 when compared to pre-COVID sales in 2019. WardsIntelligence, "U.S. Light Vehicle Sales, December 2020," 1/5/21.

I have enclosed some additional tables that show the estimated impact of the semiconductor shortage to U.S. facilities, North American facilities, and global auto production through Q3 of 2021.

Auto Innovators respectfully submits that its interpretation of the regulations to allow installation of semiconductors into MY2021 vehicles through Q1 of 2022 is appropriate due to the unique circumstances that manufacturers currently face. Administrator Regan, your assistance can further the Administration's focus on our nation's economic recovery by ensuring that automakers are able to maintain and increase vehicle production, save jobs, and reduce supply-based pressure on vehicle prices.

Auto Innovators appreciates your attention and timely consideration to this critically important matter.

Sincerely,



John Bozzella  
President and CEO

cc: Joseph Goffman, EPA Office of Air and Radiation

Bryon Bunker, EPA Office of Transportation and Air Quality

White House National Economic Council

White House National Security Council

U.S. Department of the Treasury

U.S. Department of Commerce

U.S. Department of Transportation

Enclosures:

Auto Production Loss Estimates for 2021: U.S., North America, and Global (IHS Markit and Company Reports)

Auto Industry Letter to Biden Administration Regarding Semiconductor Shortage (January 19, 2021)

Auto Innovator Comments to U.S. Department of Commerce Semiconductor Supply Chain Request for Comment (April 5, 2021)

*The attachments are included in the following pages. The link above will redirect you to the documents within this PDF.*

**Auto Production Loss Estimates for 2021: U.S., North America, and Global  
(IHS Markit and Company Reports)**

| U.S. Volume Loss   |                |                |                |                |
|--------------------|----------------|----------------|----------------|----------------|
| Company            | Q1 Loss        | Q2 Loss        | Q3 Loss (Est)  | Total          |
| Ford               | 63,600         | 347,700        | 85,500         | 496,800        |
| Geely              | 600            | -              | -              | 600            |
| General Motors     | 42,300         | 116,600        | 59,000         | 217,900        |
| Honda              | 38,100         | -              | -              | 38,100         |
| Hyundai            | -              | 12,200         | -              | 12,200         |
| Nissan             | 3,400          | 26,300         | 8,100          | 37,800         |
| Stellantis         | 17,700         | 63,600         | 47,300         | 128,600        |
| Subaru             | 6,100          | 16,800         | -              | 22,900         |
| Toyota             | 20,900         | 6,000          | -              | 26,900         |
| Volkswagen         | -              | 12,000         | -              | 12,000         |
| <b>Grand Total</b> | <b>192,700</b> | <b>601,200</b> | <b>199,900</b> | <b>993,800</b> |

| North America Volume Loss |                |                |                |                  |
|---------------------------|----------------|----------------|----------------|------------------|
| Company                   | Q1 Loss        | Q2 Loss        | Q3 Loss (Est)  | Total            |
| Ford                      | 79,600         | 393,200        | 99,600         | 572,400          |
| Geely                     | 600            | -              | -              | 600              |
| General Motors            | 99,800         | 189,300        | 107,900        | 397,000          |
| Honda                     | 63,100         | 1,000          | -              | 64,100           |
| Hyundai                   | -              | 12,200         | -              | 12,200           |
| Mazda                     | -              | 1,600          | -              | 1,600            |
| Nissan                    | 3,400          | 55,200         | 8,100          | 66,700           |
| Stellantis                | 69,100         | 134,700        | 71,900         | 275,700          |
| Subaru                    | 6,100          | 16,800         | -              | 22,900           |
| Toyota                    | 23,900         | 6,000          | -              | 29,900           |
| Volkswagen                | 8,400          | 56,400         | 26,000         | 90,800           |
| <b>Grand Total</b>        | <b>354,400</b> | <b>866,900</b> | <b>313,500</b> | <b>1,533,900</b> |

| Global Volume Loss   |                  |                  |                |                  |
|----------------------|------------------|------------------|----------------|------------------|
| Region               | Q1 Loss          | Q2 Loss          | Q3 Loss (Est)  | Total            |
| Europe               | 428,900          | 736,900          | 152,600        | 1,318,400        |
| Greater China        | 364,700          | 419,600          | 60,000         | 844,300          |
| Japan/Korea          | 129,700          | 389,300          | 136,600        | 655,600          |
| Middle East/Africa   | 15,000           | -                | -              | 15,000           |
| <b>North America</b> | <b>354,400</b>   | <b>866,900</b>   | <b>313,500</b> | <b>1,534,800</b> |
| South America        | 56,500           | 130,900          | 95,900         | 283,300          |
| South Asia           | 88,700           | 47,800           | 103,300        | 239,800          |
| <b>Grand Total</b>   | <b>1,437,900</b> | <b>2,591,400</b> | <b>861,900</b> | <b>4,891,200</b> |

## U.S. Facility Estimated Volume Loss – January to Mid-Summer 2021

| Company            | Facility               | Volume Loss     |
|--------------------|------------------------|-----------------|
| Ford               | Chicago                | 107,500         |
| Ford               | Dearborn Truck         | 82,200          |
| Ford               | Flat Rock              | 27,700          |
| Ford               | Kansas City #1         | 30,400          |
| Ford               | Kansas City #2         | 95,500          |
| Ford               | Kentucky Truck         | 61,900          |
| Ford               | Louisville             | 66,800          |
| Ford               | Michigan Assembly      | 16,900          |
| Ford               | Ohio Assembly          | 7,700           |
| Geely              | Charleston             | 600             |
| General Motors     | Bowling Green          | 5,700           |
| General Motors     | Fairfax                | 95,400          |
| General Motors     | Lansing Delta Township | 15,700          |
| General Motors     | Lansing Grand River    | 19,800          |
| General Motors     | Orion                  | 2,800           |
| General Motors     | Spring Hill            | 14,300          |
| General Motors     | Springfield            | 5,000           |
| General Motors     | Wentzville             | 58,900          |
| Honda              | East Liberty           | 4,400           |
| Honda              | Greensburg             | 10,200          |
| Honda              | Lincoln #1             | 2,800           |
| Honda              | Lincoln #2             | 3,800           |
| Honda              | Marysville             | 16,700          |
| Hyundai            | Montgomery             | 7,800           |
| Hyundai            | West Point             | 4,400           |
| Nissan             | Canton #1              | 7,700           |
| Nissan             | Canton #2              | 23,200          |
| Nissan             | Canton #3              | 100             |
| Nissan             | Smyrna #1              | 2,900           |
| Nissan             | Smyrna #2              | 3,700           |
| Stellantis         | Belvidere              | 43,900          |
| Stellantis         | Jefferson North        | 41,900          |
| Stellantis         | Sterling Heights       | 23,600          |
| Stellantis         | Toledo North           | 2,000           |
| Stellantis         | Warren Truck           | 17,000          |
| Subaru             | Lafayette #1           | 8,800           |
| Subaru             | Lafayette #2           | 14,100          |
| Toyota             | Georgetown #1          | 9,800           |
| Toyota             | Georgetown #2          | 9,800           |
| Toyota             | Georgetown #3          | 2,300           |
| Toyota             | San Antonio            | 3,500           |
| Toyota             | Tupelo                 | 1,300           |
| Volkswagen         | Chattanooga            | 12,000          |
| <b>Grand Total</b> |                        | <b>992,500*</b> |

\*Due to rounding differences, there's a slight variation between the U.S. facility volume loss and the U.S. volume loss chart (993,800 vs 992,500).



January 19, 2021

The Honorable Brian Deese  
Designated Director, National Economic Council  
The Presidential Transition Team  
1800 F Street NW, Room G117  
Washington, DC 20270

Dear Mr. Deese,

We write as representatives of automotive companies, supplier partners and workers that collectively manufacture and sell 99 percent of the cars and light trucks distributed in the United States. By safely bringing automotive production and distribution back online following a complete eight-week shut down in the spring of 2020, our industry continues to be a leading contributor to America's ongoing economic recovery from the COVID pandemic. As such, we want to alert you to an urgent matter regarding a shortage of automotive semiconductors that is significantly impacting this critical manufacturing sector at home and abroad. We seek the Administration's assistance in helping to reduce the severity and longevity of this situation, in order to protect American jobs and minimize the negative impact to consumers and the broader economy that a drop in production would cause.

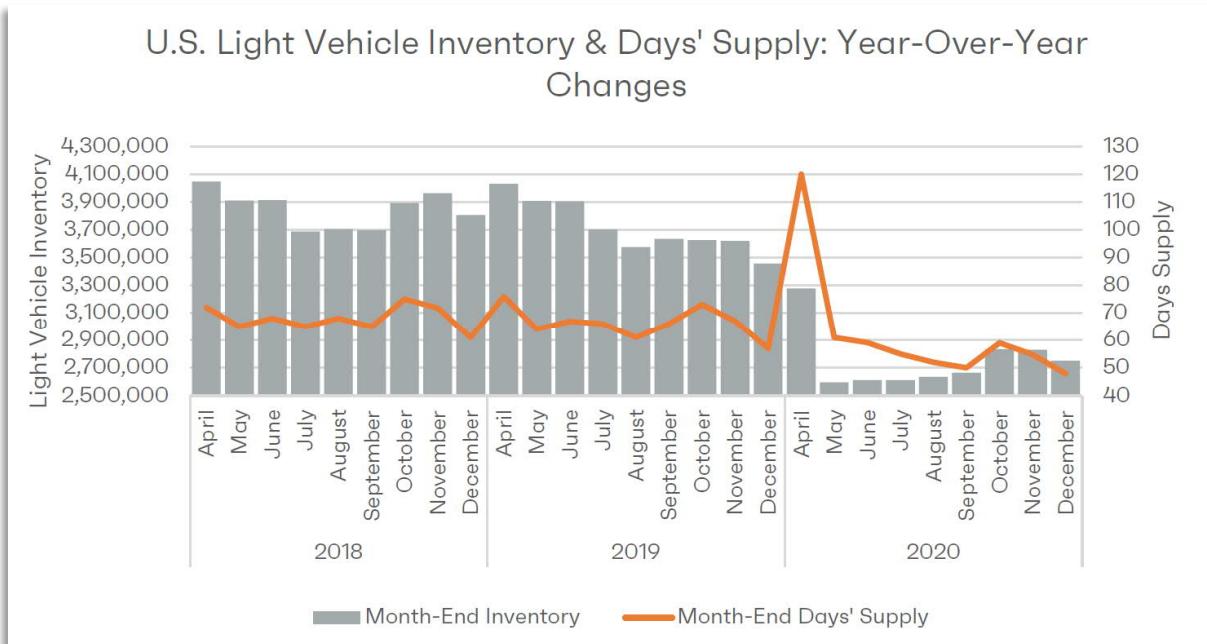
Semiconductors are used in a wide variety of automotive electronic components to perform critical vehicle control, safety, emissions, and driver information functions. The manufacture of these electronic components relies on the semiconductor industry that, in turn, relies on the silicon wafer foundry industry. The recent shortage of automotive semiconductors is a direct result of capacity reallocation in the silicon wafer foundry industry from the automotive sector to the consumer product sector during the automotive COVID-19 shutdown. This automotive grade wafer capacity has subsequently not been completely restored following the global restart of automotive manufacturing.

This shortage of automotive semiconductors will cause harm to American workers including layoffs and shift cancellations, resulting in production loss of hundreds of thousands of vehicles, if not more, in the first quarter alone. These losses, combined with a larger expected economic impact in Q2 and Q3, require urgent action. Because the lead time to manufacture silicon wafers is between 12 and 22 weeks, it is critical to address this shortage as quickly as possible. Currently, the automotive industry has no assurance that the silicon wafer foundries will return to manufacturing their "pre-COVID" volumes, thus perpetuating the global automotive grade wafer shortage and subsequent economic harm.

These events underscore the critical importance of a robust semiconductor supply chain to the future of the automotive industry. Many innovations currently underway in the automotive space – including electrification, automation, and connectivity – increasingly depend on access to silicon wafers and semiconductors. It is important, therefore, to also think longer-term when it comes to ways to address supply chain and capacity limitations here in the U.S. We stand ready to work with the Administration and other policy makers to address these long-term challenges to support semiconductor manufacturing and supply chain workforce needs.

In the near-term, we encourage the Biden Administration to explore immediate steps that can be taken to help resolve this issue, including urging major silicon wafer foundries to ramp-up production of automotive grade wafers by either expanding production capacity or by a short-term rebalancing of a modest portion of current wafer supply. These efforts could significantly reduce the longevity of this shortage, thus protecting American jobs and minimizing negative impacts to the U.S. economy. We understand that other countries are currently taking such steps to support their automotive industries and the U.S. must move quickly to address our domestic shortage.

To further underscore just how the current and projected silicon wafer shortage will impact the auto sector and consumers, it is important to note that even with the significant rebound from the industry shutdown last year, light-duty vehicle inventory stood at a nine-year low at the end of December 2020, or about 21 percent lower than December 2019. A production slowdown or stoppage now will only further reduce vehicle inventory levels to the detriment of suppliers, current and retired autoworkers, and prospective new vehicle purchasers.



Source: Alliance for Automotive Innovation, “Reading the Meter,” January 14, 2021.

We look forward to working with you and your senior team on this developing matter, as well as longer-term solutions, to help reduce or ameliorate the economic impact of the current semiconductor shortage on our economy, auto industry, as well as on American workers and consumers.

Sincerely,

John Bozzella  
President and CEO  
Alliance for Automotive Innovation

Rory L. Gamble  
President  
United Auto Workers

Mike Stanton  
President and CEO  
National Automobile Dealers Association

Bill Long  
President and CEO  
Motor & Equipment Manufacturers Association

Governor Matt Blunt  
President  
American Automotive Policy Council

Jennifer Safavian  
President and CEO  
Autos Drive America

Damon Lester  
President  
National Association of Minority Automobile  
Dealers

Cody Lusk  
President and CEO  
American International Automobile Dealers  
Association



April 5, 2021

Matthew Borman  
Deputy Assistant Secretary  
Bureau of Industry and Security  
U.S. Department of Commerce  
1401 Constitution Ave, NW  
Washington, D.C. 20230

**RE: Request for Comments on Risks in the Semiconductor Manufacturing and Advanced Packaging Supply Chain**

Dear Deputy Assistant Secretary Borman:

The Alliance for Automotive Innovation (“Auto Innovators”) is pleased to submit comments to the Department of Commerce (“Department”) in response to its Request for Comments on Risks in the Semiconductor Manufacturing and Advanced Packaging Supply Chain. As you know, the auto industry has been uniquely and significantly impacted by the current semiconductor shortage. We appreciate the continued engagement and commitment of the Administration and the Department on this critical supply chain issue and welcome the opportunity to provide additional input and feedback.

Auto Innovators is the singular, authoritative, and respected voice of the automotive industry. Focused on creating a safe and transformative path for personal mobility, Auto Innovators represents the manufacturers that produce nearly 99 percent of cars and light trucks sold in the United States. Members of Auto Innovators include motor vehicle manufacturers, original equipment suppliers, technology companies, and others within the automotive ecosystem. As you are well aware, as the nation’s largest manufacturing sector, the auto industry contributes \$1.1 trillion to the United States economy and represents 5.5 percent of the country’s GDP. As a significant engine for our nation’s economy, the auto sector is responsible for 10.3 million jobs and \$650 billion in paychecks.

Semiconductors are currently used in a wide and growing variety of automotive electronic components that perform vehicle control, safety, emissions, driver information, and other functions. Many innovations that are underway in the automotive space will define the future of mobility – including electrification, automation, and connectivity – and are highly dependent on semiconductors. With the increased incorporation of new safety and further emission reduction technologies, there is no doubt that auto production represents a growth sector for the semiconductor industry.

The chips that are generally used in vehicles are not the same chips used in consumer electronics devices. As with many defense and industrial control users, auto production largely relies on chips made using mature nodes. These chips are more robust and reliable than the advanced node chips that are used in consumer electronics devices and, as a result, can withstand the challenging environments in which vehicles operate and can last the life of a vehicle.

The microchip shortage that the auto industry is facing is an outgrowth of the unprecedented shutdown in auto production that occurred in the early weeks of the COVID pandemic. During that eight-week shutdown across all North America manufacturing plants (and similar shutdowns across the globe), silicon wafer foundries reallocated capacity away from auto grade chips to chips used in consumer electronics and other products. As you are aware, auto production has since resumed. However, the auto industry's demand for auto grade chips is not currently being met.

The microchip supply shortage facing the auto industry has been further exacerbated in recent weeks by severe weather in Texas that impacted domestic suppliers, a fire at a major overseas chip supplier, congestion at West Coast ports, and the significant stoppage of global trade through the Suez Canal shipping route. These additional challenges have further strained the existing supply of auto grade chips and have bolstered industry concerns and economic impacts.

The chip shortage has forced a number of automakers to halt production and cancel shifts in the United States, with serious consequences for their workers and the communities in which they operate. Our immediate priority, and one that we appreciate is shared by the Department, is reducing the severity and longevity of the microchip shortage for the auto industry in order to protect American jobs and minimize the negative impact to the broader economy.

We have been conducting anonymized surveys of our member companies since the onset of the chip shortage. The most recent survey was conducted within the last couple of weeks and, unfortunately, the high end projections indicate an even more significant impact to United States auto production than was projected in previous surveys. This survey, which is generally aligned with recent projections made by IHS Markit<sup>1</sup> and AlixPartners<sup>2</sup>, revealed that the projected impact for 2021 could be as high as 1.276 million fewer vehicles produced. While there is no consensus among our member companies on how long the shortage will continue to impact production, some companies are predicting up to 6 more months of additional disruption.

The current semiconductor supply chain crisis has certainly exposed overall capacity limits in the semiconductor sector and revealed significant risks in the current automotive semiconductor supply chain. There is clearly a need to expand semiconductor capacity to meet the growing demand for semiconductors in the auto industry and across the economy. Policies that can incentivize this additional capacity in the United States, such as the programs authorized under the *CHIPS for America Act* and included in the *FY 2021 National Defense Authorization Act*, are essential to addressing the longer-term challenges. For this reason, Auto Innovators strongly supports full and robust funding for the programs authorized under the *CHIPS for America Act*.

That being said, it is critical that federal programs focused on increasing domestic capacity of semiconductors benefit all impacted industries and their workers. Given the importance of chips to current auto production and future automotive innovation, it would be regrettable if none of the funding under the *CHIPS for America Act*, once appropriated, was used to increase the resiliency of automotive supply chains through the construction of new facilities that produce or have the ability to produce auto grade chips. For this reason, we suggest that at least some portion of any *CHIPS for America Act* funding be used to build new capacity that will support the auto industry and mitigate the risks to the automotive

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<sup>1</sup> On March 31, IHS Markit reported that it now expects the chip shortage to disrupt the production of nearly 1.3 million global light vehicles, up from a prior forecast of 1 million in the first quarter.

<sup>2</sup> AlixPartners recently predicted that automakers will produce 1.5 million to 5 million fewer vehicles worldwide than planned due to the microchip shortage.

supply chain evidenced by the current chip shortage. This could be accomplished by, for example, specifying that a particular percentage – that is reasonably based on the projected needs of the auto industry – be allocated for facilities that will support the production of auto grade chips in some manner.

New foundries take years to build, so Auto Innovators also recommends that policies be implemented that support increased chip capacity in the mid-term. This includes enactment of a semiconductor manufacturing investment tax incentive. Such an incentive can help companies offset the cost of creating new lines within existing facilities or reallocating current production to meet evolving needs.

A significant investment in and sustained commitment to building additional domestic semiconductor capacity that meets the future needs of the auto industry in the United States is absolutely essential. We appreciate your focus and attention to this critical issue and look forward to continuing to work with you to ensure that the auto industry in the United States continues to lead the world in innovation and in building a cleaner, safer, and smarter transportation future.

Sincerely,



John Bozzella  
President and CEO