



MyCargoGate

CRITICAL FREIGHT: WHEN SPEED MEETS PRECISION

An Insights Report by MyCargoGate



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Critical freight is increasingly vital to maintain operations across many industries. In some sectors, this includes the essential components that are required on time to keep production lines running. In others, critical freight deliveries are crucial to maintaining the safety, integrity and operation of key infrastructure. In healthcare, it might even mean the difference between life or death.

However, there are inevitable complexities to getting urgent, high value or medically-sensitive shipments across borders, when they are needed.

The answer lies in a combination of speed and precision – ensuring critical freight shipments are compliant, with the necessary customs clearances, and that processes are streamlined. It takes specialized expertise, dedicated resources and a comprehensive understanding of complex customs requirements to meet those goals with confidence.

This report from MyCargoGate explores the current state of play in critical freight logistics, examines the challenges and assesses the trends that are shaping solutions across multiple sectors. We also introduce some of the specialized solutions from MyCargoGate, using advanced automation, AI and machine learning to cut down delivery times whilst improving accuracy and communication.

I hope you find this report informative. If you want to learn more or discuss anything with our team, you can find details of how to get in touch with MyCargoGate after the key takeaways on page 13.

Michael Geraets
CEO, MyCargoGate Group

“There are inevitable complexities to getting urgent, high value or medically-sensitive shipments across borders, when they are needed.

The answer lies in a combination of speed and precision – ensuring critical freight shipments are compliant, with the necessary customs clearances, and that processes are streamlined.”

Whether in healthcare, aviation, automotive or other critical sectors, some shipments simply must be made on-time, reliably and in line with regulations. And with increasing globalization, demand for critical freight is growing across the world.

These deliveries include essential components in power generation, vaccines, aircraft parts, automotive supplies and much more - items that are essential to critical manufacturing, infrastructure and even health. Managing these high-pressure deliveries with speed and precision is complex, and requires specialized expertise.

There are many reasons for this increase in demand for critical freight.

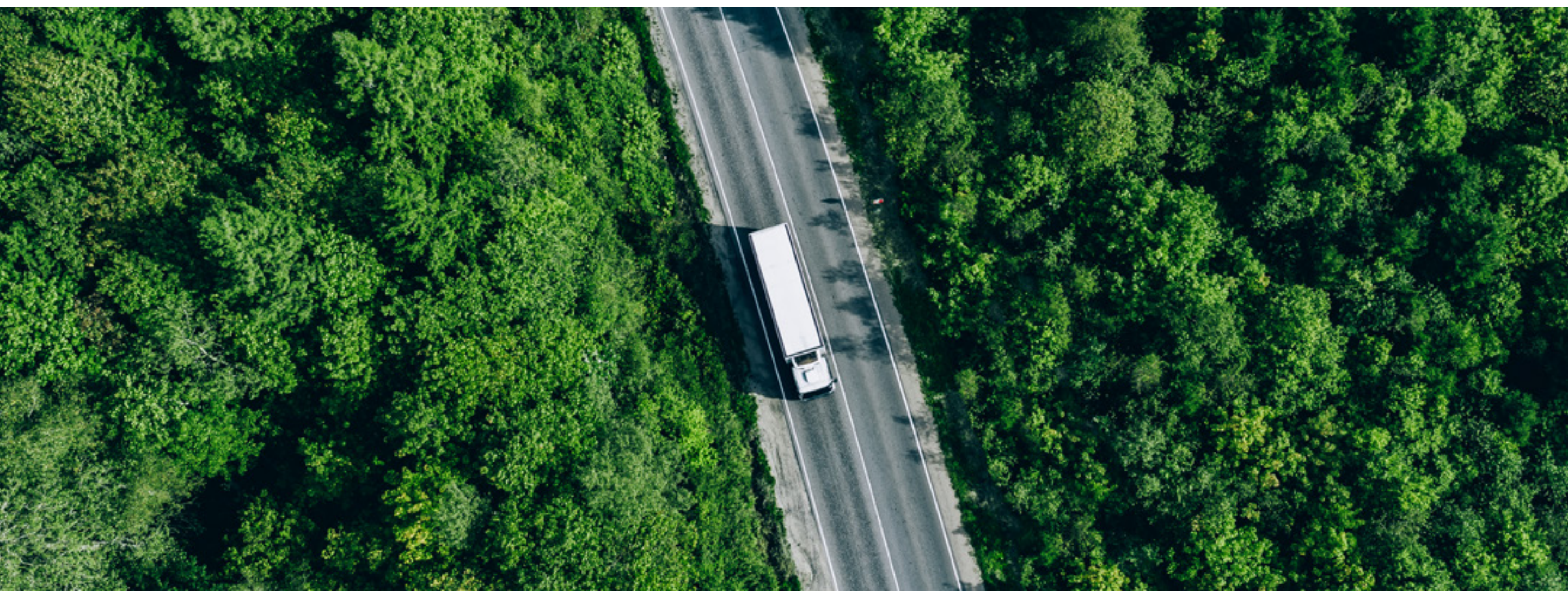
Globalization, which brings new global manufacturing hubs and additional complexities to global supply chains. However, with new opportunities come additional requirements for critical freight.

Technological advancements, which are driving change across so many aspects of society and, in doing so, bringing new criticalities to essential components and supplies across medicine, renewable energy and more.

Innovative hi-tech manufacturing methods, which rely on timely delivery to drive cost-efficiencies and maintain tight production schedules, all whilst meeting increased global demand for consumer products.

Even **medical advances** and ageing populations, which have increased the need for temperature-sensitive supplies, samples and vaccines.

The world may feel smaller than ever before due to globalization, but managing critical freight to meet increased demand is increasingly complex, particularly in light of pandemics, geopolitical conflicts and supply chain challenges.



SETTING THE SCENE: WHY DEMAND IS INCREASING FOR CRITICAL FREIGHT

- Aviation manufacturing is on the rise due to increasing global passenger traffic, with aircraft deliveries expected to rise 20% in 2025.¹
- Advanced manufacturing is rising globally - the number of firms engaged in advanced manufacturing activities rose by 571% in China, 130% in EU and 75% in USA between 2009 and 2022.²
- The International Air Transport Association (IATA) estimates that airlines lose between \$10,000 and \$15,000 per hour of downtime.³
- The global healthcare logistics market size is estimated to rise 87% from \$105.9 billion/€101 billion in 2025 to \$196.3 billion/€187.2 billion by 2033.⁴
- Replacing fossil fuel production equipment with renewables equipment of the same capacity is predicted to need a 1,000x increase in global logistics capacity.⁵
- The Red Sea shipping crisis increased cargo travel distances by an average of nine per cent.⁶

Sources:

1. [Aerospace Manufacturing & Design](#)
2. [European Commission](#)
3. [Soma Aviation Software](#)
4. [Straights Research](#)
5. [DHL](#)
6. [Logistics Business - November 2024](#)



Critical freight is the transportation of urgent, high-value or mission-essential goods that need rapid and reliable delivery. These shipments are often necessary to prevent operational disruptions, financial losses or safety risks, and require specialized logistics solutions.

Key sectors for critical freight

Critical freight solutions are particularly important for industries that require time-sensitive, high-value, and/or highly regulated shipments. These include:



Aviation/Aerospace

Rapid delivery of aircraft parts and components to prevent prohibitively expensive downtime.



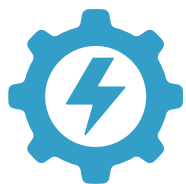
Healthcare

Urgent transport of medical supplies, vaccines, lab specimens and life-saving equipment.



Automotive

Where Just-in-time (JIT) delivery is essential to maintain fixed production schedules.



Energy & Utilities

Delivering critical components for power plants, renewable energy assets and oil & gas operations.



Defense

Transport of mission-critical equipment, weapons and supplies.



Manufacturing & Industrial

Essential raw materials and machinery for other critical manufacturing sectors.

This increasing demand for critical freight logistics brings new and more frequent challenges, both for logistics partners and for their customers. Delivering time-sensitive, temperature-controlled and/or high value goods is not always a simple task. Delivering them on time, with reliability and in light of geopolitical and regulatory challenges is even more complex.



Ensuring availability

Reliable critical freight logistics is only possible with dedicated teams that can support urgent shipments round-the-clock. It goes without saying that these shipments often can't wait for the next commercial availability. Instead, they need bespoke solutions, with teams handling the process at both ends of the journey to ensure a seamless and timely delivery.

Solution: Dedicated resources and expertise, offering 24/7 logistics support.



Maintaining reliability

One of the biggest challenges is simply making sure goods are delivered on-time, without delays caused by missed pickups or delivery disruptions. The subsequent operational disruptions can include financial losses, safety risks through infrastructure failure, and even significant health risks in the medical sector. Specialized logistics solutions can help to ensure reliability.

Solution: Automated logistics solutions to reduce human error and optimize delivery times.



Meeting cross-border challenges

As with any cross-border logistics, navigating customs clearance, compliance and other regulatory hurdles can be a daunting task. For critical freight, it is vital that these challenges are met with efficiency and without error. Any delays in paperwork or compliance will inevitably delay time-sensitive shipments.

Solution: Advanced pre-clearance and customs support through automation.

Of course, the logistics industry is adapting to help meet these challenges. Whether increasing the adoption of automation, using AI to enhance operational efficiency, or developing industry-specific solutions to support critical freight, new and emerging trends are helping to facilitate enhanced service delivery.

Here we explore some of those trends and how they are making a difference in critical freight logistics.

Automation & Proactive Communication

Introducing automation across logistics workflows enables providers to remove manual processes, reduce human errors and speed up key processes. In critical freight, this is key to meeting strict delivery times, whilst also providing real-time updates for customers.

Automation covers every stage of logistics, from warehouse picking and fulfilment, through to streamlined, automated solutions for customs clearance and notifying customers. It is increasingly used by critical freight logistics providers to overcome challenges.

Automation keeps growing:

The market for logistics automation in Europe is predicted to grow from

€9.6 billion/\$10.1 billion to **€24.1 billion/\$25.2 billion** in 2030.¹

Artificial Intelligence (AI) & Predictive Analytics

An extension of automation, AI and predictive logistics tools also enhance operational efficiency in high-pressure situations, supporting the overall goal to improve reliability and delivery speed.

MyCargoGate uses machine learning to quickly analyze data, giving our specialized teams the insights to identify potential delays and make more accurate decisions at every step of the complex customs clearance process.

Logistics is leading the field:

56% of logistics companies see the industry as a pioneer in digitalization—compared to only **32%** in the economy as a whole.²

Sustainability & Green Logistics

As the world tackles the ongoing climate crisis, sustainability is a key topic in logistics. Back in 2018, the European Environment Agency predicted that logistics will account for up to 40% of global carbon dioxide emissions by 2050 unless effective measures are taken³. Significant progress has been made to ensure a more eco-friendly logistics industry, but the trend continues, even for urgent and critical freight.

Some of the measures already being adopted include switching to electric vehicles, greater use of renewable energy, pioneering packaging solutions and carbon offsetting initiatives. The use of automation (to reduce paper processes) and AI (for enhanced demand forecasting and route optimisation) are also helping to deliver more sustainable critical freight logistics.

Why sustainability matters:

30% of consumers have stopped buying from brands due to ethical or sustainability concerns.⁴

Industry-Specific Solutions

Most importantly for critical freight, there is also a growing trend to develop tailored solutions in key sectors, particularly aviation and healthcare. By focusing on the unique requirements of each sector, such as time-critical deliveries for aviation and temperature-controlled logistics for healthcare, partners such as MyCargoGate can help to overcome individual challenges for specific customers.

Focusing on bespoke solutions:

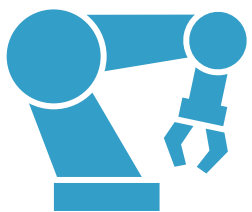
Sector-specific tailored solutions are becoming increasingly popular in critical freight.

Sources:

1. [Business Market Insights - 2022](#)
2. [Transport Logistic](#)
3. [European Environment Agency - 2018](#)
4. [Deloitte - 2023](#)

We're experts in critical freight, with specialized solutions to support customers across all industries. Through the adoption of automation, dedicated resources and advanced customs support, MyCargoGate ensures the reliable, speedy delivery of your critical freight across global markets. This includes dedicated solutions for key sectors, built on the principles of Swiss quality for which we are known.

How do we do it?



Automated Logistics Solutions

By pioneering the adoption of end-to-end automated logistics solutions, we have reduced the potential for human error and optimized delivery times. Automated processes help to streamline processes, ensuring first-time customs clearance and compliance.



Dedicated Resources & Expertise

We recognize the importance of 24/7 logistics support in critical freight, ensuring seamless execution of time-critical shipments. Whenever you need your goods to arrive, our dedicated cross-border teams are on hand to provide specialized support for complete peace of mind.



Advanced Pre-Clearance & Customs Support

The safe, compliant and timely delivery of critical freight also relies on streamlined customs and regulatory procedures. We're experienced in providing advanced pre-clearance and customs support, using AI and automated processes to help minimize delays and ensure compliance, with complete visibility of the process from start to finish.

As with most sectors, it is widely expected that increased adoption of AI will continue to unlock benefits in logistics over the coming years. This isn't about replacing the human element, it is about enhancing service with machine learning, giving specialists greater insights and improved tools to deliver a better service.

In particular, emerging technologies like AI and machine learning will further enhance freight logistics by improving predictive capabilities, optimizing delivery routes, and ensuring even faster delivery times.

At MyCargoGate, we will continue to deliver on our roadmap for continuous innovation and service enhancement, focusing on expanding capabilities and enhancing global partnerships in the critical freight sector. All whilst exploring new and evolving technologies to benefit our customers.

"Critical freight will only grow in volume and importance, as we continue to develop new manufacturing methods, unlock new medical breakthroughs and keep reaping the benefits globalization. It's more important than ever that we find ways to deliver critical shipments on time, with reliability and confidence."

"We believe our specialized solutions provide the solution, harnessing the power of automation and AI to unlock efficiencies and maintain accuracy. And we'll keep investing in new, innovative tools to help support our customers' evolving needs."



Michael Geraets
CEO, MyCargoGate Group

- Critical freight demand continues to rise across many sectors as a result of globalization, technological and medical advancements, and hi-tech manufacturing volumes
- Key challenges include ensuring availability, maintaining reliability and addressing cross-border complexities
- A number of emerging trends are helping organisations and their logistics partners to overcome these challenges, including the use of automation and AI to optimise delivery times and improve accuracy
- MyCargoGate offers specialized solutions for critical freight logistics, including tailored services for key sectors
- As the adoption of AI continues to grow, MyCargoGate is well placed to support our critical freight customers now and in the future

As demand for critical freight continues to rise, so do the challenges of getting time-sensitive, high value and mission-critical goods delivered on time. Specialists such as MyCargoGate offer the tailored solutions needed to overcome those challenges with full peace of mind.



**OVERCOME
YOUR
CRITICAL
FREIGHT
CHALLENGES
WITH
CONFIDENCE.**

**Contact our team today to learn more
about MyCargoGate's tailored logistics
solutions for critical freight.**

Email: shipit@mycargogate.com

