

PREPARING LOGISTICS FOR THE LONG HAUL

IT networks: the driving force behind modern logistics

Behind every data-driven technology, whether it's focused on real-time tracking, automation, process optimisation or remote working, there needs to be a strong IT network to get the data where it needs to go. At Riverbed, we recognise that innovations like these are essential for the modern logistics industry. Our performance and visibility solutions are focused on helping you get the most out of new innovations, manage all of your network's traffic and get better performance from your critical logistics apps.

When you're preparing for the long haul, it's important to keep an eye on the horizon. So let's take a look at what's next for the industry.



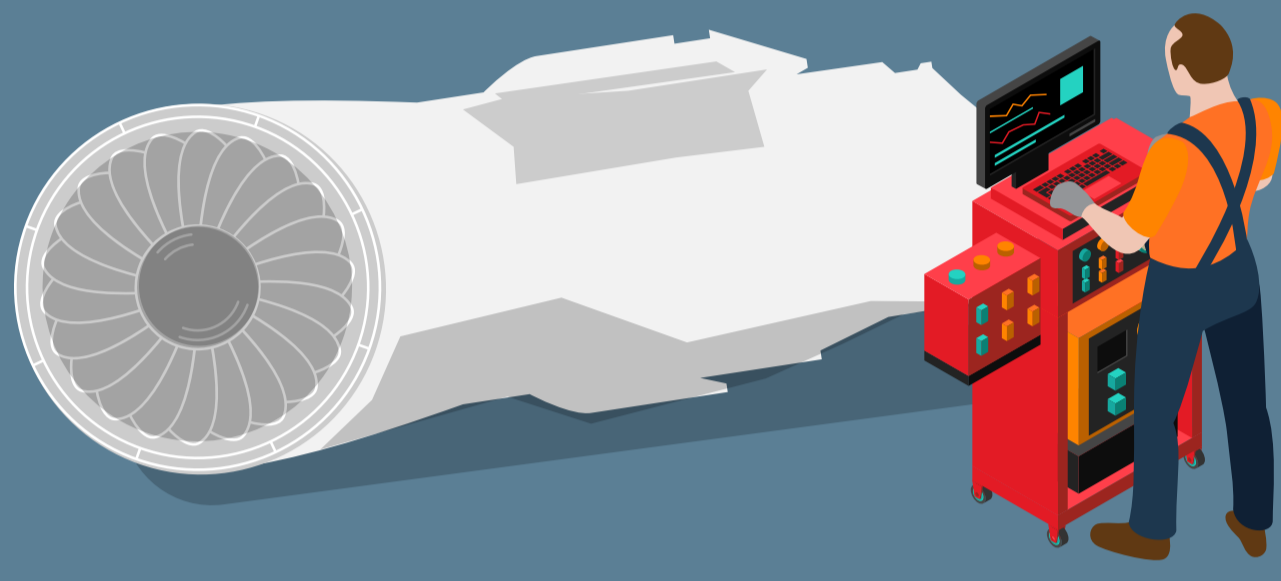
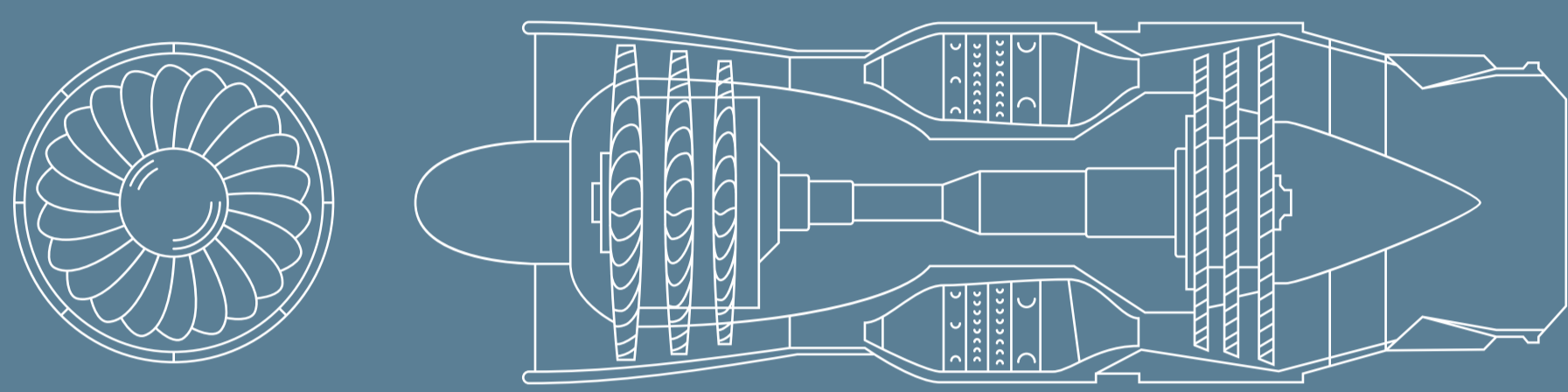
Control Towers

Connect disparate systems to give real-time end-to-end visibility and control over supply chains. AI and machine learning are then used to identify potential disruptions, assess alternative actions and optimise supply chain resources.



Contactless HMI

Machinery and transport systems will be communicated with using motion sensors, voice control, and virtual environments.



Digital Triplets

The next generation of the digital twin will see every individual product having their own digital twin that generates data via connected sensors. AI analysis will allow for real-time predictions about product life cycle and predictive maintenance.



Blockchain

Will allow easy, secure coordination of documents, smart contracts to speed up approvals and customs clearance, real-time shipment tracking and visibility and for easier settlement of payment disputes.

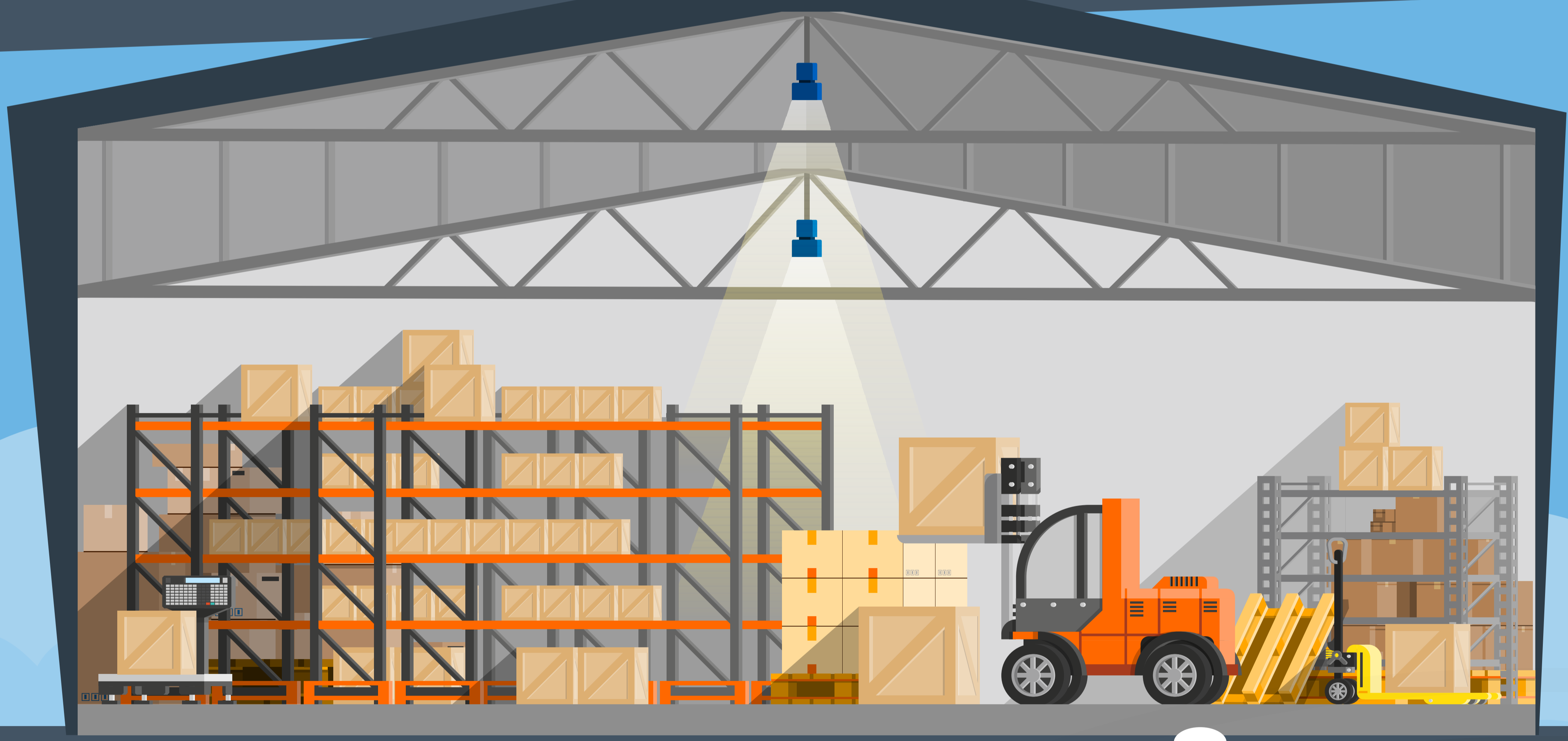
The Cold Chain

The refrigerated shipping market is expected to grow 10.2% YoY to 2025¹, faster than any other container segment, as logistics companies seek to give customers shorter overall lead times and more predictable costs. Companies are using blockchain to control temperatures and even enable fruit to ripen on delivery.



Platooning

Synchronised braking, accelerating and steering in autonomous trucks could see operating costs for freight forwarding companies reduced by up to 40%.²



On-Demand Warehousing

More online marketplaces will allow companies to access shared warehousing, fulfillment, and logistics on a pay-per-use basis, meaning warehouses can monetise quieter periods during low season.

Automated Warehouses

Data-driven automated capacity management will drive fewer capacity planning errors and better space utilisation. Automation-as-a-service will allow warehouses to test, deploy and scale up/down automation rapidly as needed.

Autonomous Mobile Robotics

The next stage of automated guided vehicles currently used in warehouses, these will make intelligent decisions on routes, lead operators to the locations of items, be able to move around obstacles and even bring individual items on a shelf directly to an operator.



AR & VR

Augmented and virtual reality will allow teams to be trained virtually anywhere, shipments, warehouses, machinery and vehicles to be examined and managed from a distance and the security of deliveries and shipments to be enhanced with facial recognition technology.

Drones

Distribution centres and last mile delivery transport will disperse small package deliveries to drones. Drones will also conduct in depth inventory counts and audits in warehouses and take photos for construction and engineering assessments across ware houses, ports and airports.



Is any of the above on your horizon? Begin your voyage by getting your networks and applications ready for the long haul with Riverbed.

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CONTACT US



1. "Shipping Containers Market - Persistence Market Research." <https://www.persistencemarketresearch.com/market-research/shipping-containers-market.asp>. Accessed 22 Oct. 2020.
2. "Autonomous vehicles in logistics part 1: Opportunities and risks." 1 Jun. 2020. <https://www.allthingsupplychain.com/autonomous-vehicles-in-logistics-part-1-opportunities-and-risks/>. Accessed 22 Oct. 2020.