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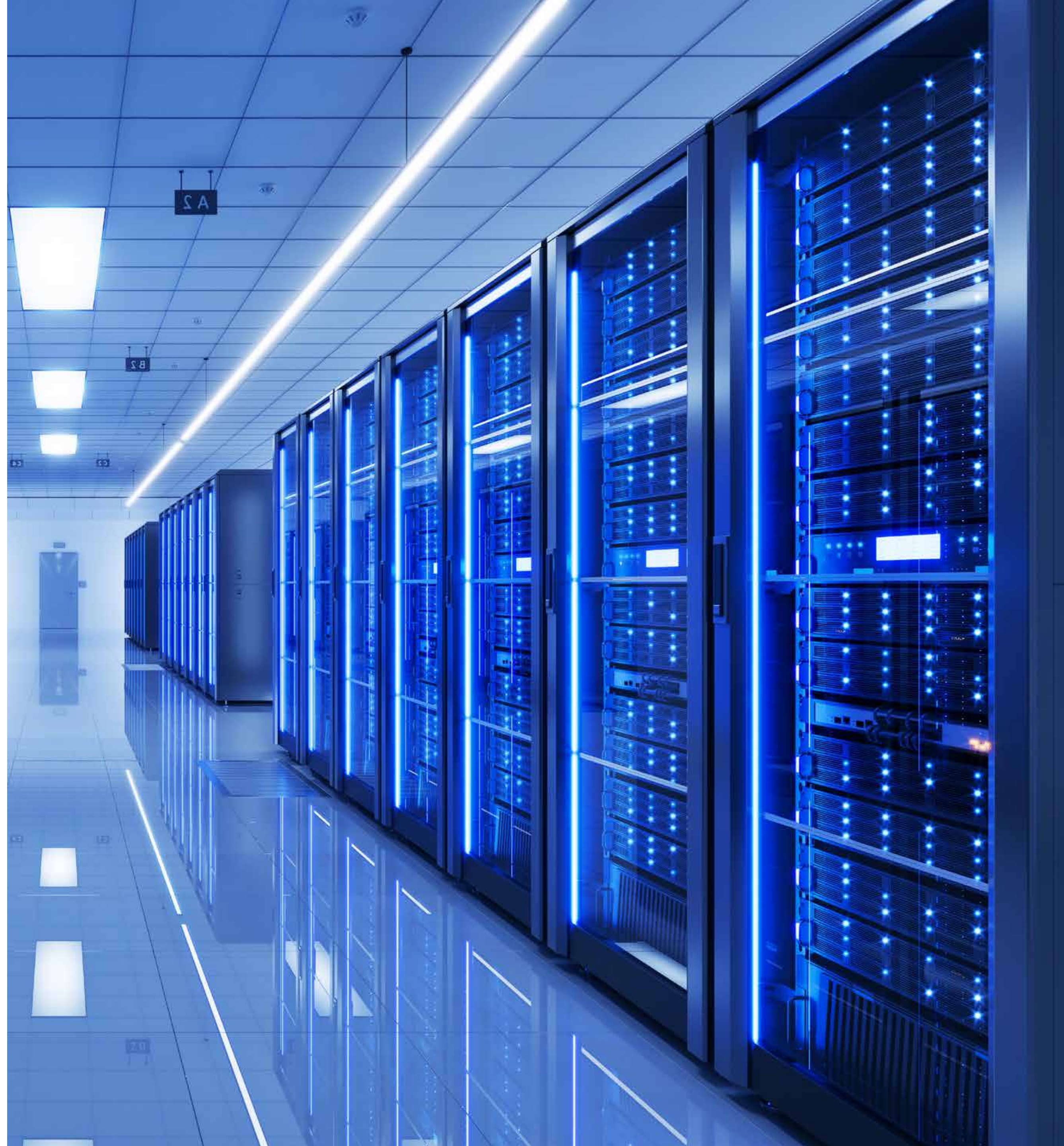
Reimagine the high-tech supply chain

Innovate faster, plan smarter and execute with confidence—all on a connected supply chain platform

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Four challenges high-tech leaders can't ignore

Today's high-tech supply chains are under constant pressure. Disruption is no longer the exception—it's the new normal. Volatile demand, rising costs, global instability, and nonstop product launches are making traditional supply chains obsolete.

To keep pace, companies need a smarter, more connected approach. They need real-time visibility, intelligent planning and seamless execution across the entire supply chain.

The risks are too big to ignore

One small misstep can ripple across the business. Late product launches. Missed revenue. Damaged customer trust. In this industry, speed and precision aren't nice to have—they're required.

This ebook explores four of the biggest challenges facing high-tech supply chains today:

- Visibility gaps that slow decision-making
- Rigid, disconnected planning processes
- Fragmented collaboration across global networks
- Rising execution costs and inefficiencies

We'll explore how to address each one—and how leading high-tech companies are building supply chains that are faster, smarter and more resilient.

Challenge 1:
Limited visibility across a fragmented supply chain

Many high-tech companies struggle with blind spots. Global production footprints, multi-tier supplier networks, and outsourced manufacturing make it hard to get a clear, real-time picture of what's happening. Data lives in silos. Signals arrive late. And decisions lag behind reality.

When leaders can't see across the full supply chain, they can't act fast—and they definitely can't act with confidence.

Why this matters

You can't respond to a delay if you don't know it's happening. You can't plan for a constraint you can't see. Visibility gaps lead to missed revenue, delayed product launches and mounting customer frustration.

The solution: Real-time visibility and supply chain synchronization

Leading high-tech companies are moving to unified, connected platforms that bring together demand signals, inventory levels, supplier status, and logistics flows in one place. Blue Yonder's solutions, built on a unified data cloud, give you the control and speed to make better decisions faster.

When everyone is working from the same real-time truth—from planners to suppliers to logistics partners—the entire ecosystem becomes more agile and more intelligent.

ONLY 6% OF COMPANIES REPORT FULL VISIBILITY INTO THEIR SUPPLY CHAIN, AND JUST 17% CAN FULLY UNDERSTAND THEIR RISKS. (SOURCE: IEEE PRESENTATION)

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Challenge 2:
Rigid, disconnected planning in a volatile world

In high tech, things change fast—and often. Yet many companies are still stuck using outdated planning processes that can't adapt to shifting demand, supply shocks or new product introductions. These plans are built in isolation, updated too slowly and disconnected from execution.

The result? Static plans in a dynamic world.

Planning isn't just a numbers game

It's about connecting decisions across sourcing, manufacturing and distribution—and being able to adjust quickly when things change. Without that, companies over correct. They tie up capital in the wrong inventory. They miss launch windows. They disappoint customers.

The solution: Scenario planning and AI-driven adaptability

Modern planning needs to be dynamic and data-driven. That means modeling what-if scenarios, building flexible plans and adjusting in real time based on what's actually happening across the supply chain.

Blue Yonder helps high-tech companies do exactly that. With machine learning-powered forecasts, AI agents that suggest adjustments and integrated planning that spans functions, companies can respond faster, optimize inventory and build smarter supply strategies.

Challenge 3:
Fragmented collaboration across global networks

Even the best-laid plans fall apart without alignment. In the high-tech industry, collaboration doesn't stop at the company's four walls—it spans suppliers, contract manufacturers, logistics providers, and more. But most companies still rely on disconnected tools, emails and spreadsheets to coordinate that work.

When global teams and partners don't share the same data, delays and missteps are inevitable.

Disconnected decisions create downstream chaos

A sourcing change made in one region might not reach the distribution team until it's too late. A supplier delay might go unnoticed until it halts production. Collaboration must be real-time, contextual, and built into day-to-day workflows.

The solution: Unified collaboration and shared context

Blue Yonder's platforms are built for seamless collaboration—connecting internal teams and external partners around a shared view of supply chain data. From planning to execution, everyone can see what's happening, why it's happening and what to do about it.

That kind of shared intelligence accelerates decisions, reduces friction and builds resilience across the entire supply chain network.

82% of executives say supply chain collaboration is more important now than it was three years ago—but only 23% say they're doing it well. (Source: PwC)

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Challenge 4:
Rising costs and inefficient execution

Every part of the high-tech supply chain is under pressure. Manufacturing costs are rising. Labor is harder to find. Logistics constraints are getting tighter. With margins shrinking and expectations growing, execution needs to be faster, leaner, and more intelligent.

But many high-tech companies are still juggling fragmented systems for transportation, warehousing and order fulfillment—making it nearly impossible to optimize in real time.

Execution gaps show up everywhere

Late shipments. Missed dock appointments. Stockouts in some regions, excess in others. These aren't isolated problems—they're symptoms of a supply chain that can't respond quickly enough or coordinate effectively across functions.

The solution: Synchronize execution and intelligent automation

With Blue Yonder's unified execution solutions—from transportation and warehouse management to order orchestration—high-tech companies can automate decisions, reduce waste and better serve customers.

The key is tying execution directly to planning. When inventory levels, logistics capacity and demand forecasts are connected in one system, companies can route smarter, fulfill faster and flex operations to match shifting needs.

HIGH-TECH COMPANIES THAT SYNCHRONIZE PLANNING AND EXECUTION REPORT 2%–5% IMPROVEMENTS IN SERVICE LEVELS AND 10%–15% REDUCTIONS IN LOGISTICS COSTS. (SOURCE: BLUE YONDER DATA)
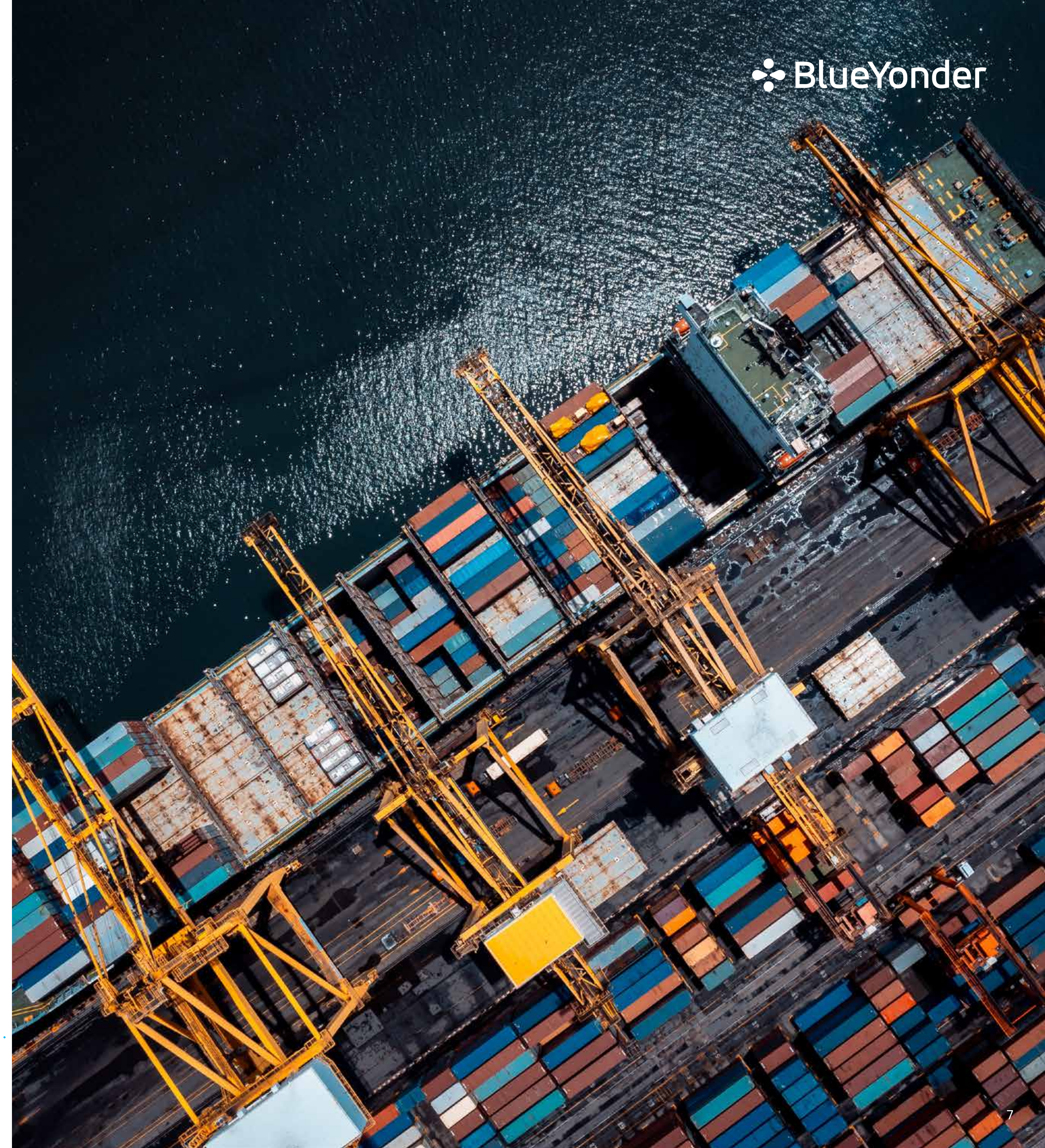
You don't need to patch a broken supply chain. You need to redesign it for the future of high tech.

From friction to flow:
Start building your intelligent, connected supply chain

The high-tech supply chain will only get more complex. Volatility, margin pressure and rapid innovation aren't going away—but companies that can see clearly, plan intelligently, collaborate in real time, and execute with speed will win.

Modern supply chains aren't just responsive—they're proactive. They're powered by real-time data, AI-driven insights and seamless collaboration across global partners. That's what Blue Yonder helps you build.

If your current systems are holding you back, now's the time to reimagine what's possible.

What's next?
This ebook gave you a high-level view of the challenges facing high-tech supply chains—and the transformation needed to overcome them. For a deeper dive into how leading companies are solving these problems today, check out the full white paper.

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