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# Black swan events

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Imagine a world where one single, unforeseen event can cripple the healthcare industry, leaving millions without access to essential medical supplies. This is not a dystopian future—it is the reality of black swan events. These dramatic incidents,

characterized by their extreme rarity and severe impact, can disrupt critical healthcare supply chains in ways that demand heightened focus on customer experience (CX) to ensure recovery and continuity.



# The repercussions of black swan events on healthcare logistics

The COVID-19 pandemic, one of the most significant black swan events in recent memory, disrupted global supply chains on an unprecedented scale, causing shortages of critical healthcare products such as personal protective equipment (PPE), ventilators, and essential medications.



Healthcare logistics service providers (LSPs) struggled to keep pace with the sudden surge in demand while grappling with border closures, labor shortages, and manufacturing shutdowns. This event underscored the fragility of just-in-time inventory systems and the need for greater supply chain resilience in the healthcare industry.

In March of this year, the collapse of the Baltimore bridge in the eastern United States blocked most shipping to and from the Port of Baltimore for 11 weeks. The flow of healthcare products and pharmaceuticals across the region was disrupted, leading to delays and shortages at hospitals and clinics. The incident highlighted the vulnerability of transportation infrastructure and its crucial role in maintaining the smooth operation of healthcare supply chains.

It also demonstrated the cascading effects that infrastructure failures can have on the availability of essential medical goods.

Another notable black swan event is the Red Sea crisis, beginning in October 2023, geopolitical tensions have led to the suspension of shipping through the Red Sea and the re-routing of ships around Africa and the Cape of Good Hope. This has caused significant delays, affecting the delivery of medical supplies to various regions, illustrating how disruptions in one part of the world can have far-reaching effects on healthcare systems globally. The Red Sea crisis has emphasized the need for healthcare LSPs to develop contingency plans for geopolitical risks and to diversify their supply chains to avoid over-reliance on a single route or region.





### Mitigating black swan events

In the healthcare industry the ability to mitigate and manage the effects of black swan events is vital. While much of the focus during these crises is on operational resilience and supply chain continuity, one critical yet sometimes overlooked factor is the role of CX. A robust CX strategy can be the difference between a swift recovery and prolonged disruption, which is why CX serves as a cornerstone of Kuehne+Nagel's Healthcare Logistics strategy.

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# The intersection of CX and black swan preparedness

In the context of black swan events, where the stakes are extraordinarily high, maintaining a strong, proactive CX approach is not optional; it's a necessity. For example, during the COVID-19 pandemic, the unprecedented demand for medical supplies placed enormous pressure on LSPs.



Companies that prioritized open communication, provided real-time shipment updates, and quickly addressed delays emerged as trusted partners to healthcare providers, effectively alleviating logistical burdens. This support allowed healthcare providers to concentrate on delivering patient care without the added stress of supply chain disruptions.

Similarly, LSPs that had invested in strong CX frameworks minimized disruptions during the Baltimore bridge collapse by rerouting supplies and keeping healthcare providers fully informed. These proactive measures not only ensured continuity but also bolstered the security of sensitive medical shipments, preventing theft or loss amid rerouting challenges.

The Red Sea crisis of 2023 further demonstrated that LSPs with customer-centric strategies were better positioned to offer secure alternatives and maintain trust, even in the face of complex geopolitical disruptions that could otherwise compromise the safety and timeliness of critical healthcare deliveries.

A well-executed CX strategy and a continuous improvement mindset not only helps in managing the immediate effects of a crisis but also strengthens the long-term relationship between LSPs and their customers.



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## Enhancing CX to build resilience against black swans



### Proactive communication and transparency

During black swan events, uncertainty can paralyze operations. LSPs that emphasize proactive, clear communication can drastically reduce the strain on healthcare providers, enabling them to better navigate crises.



#### Flexibility and responsiveness

Rapid shifts in strategy are often required in such situations.

CX strategies that emphasize flexibility ensure that healthcare providers can adapt seamlessly, even in the most turbulent times.



#### Partnership and collaboration

Strong customer relationships are built on trust and collaboration.

By working closely with healthcare providers to understand their specific needs and challenges, LSPs can tailor their services to ensure that both parties are aligned and can work together to effectively navigate black swan induced crises.



#### Investment in technology

Digital tools play a crucial role in enhancing CX, particularly during unpredictable events. Real-time tracking with "Internet-of-Things" sensors, automated notifications, advanced analytics, and digital lane risk assessments using PESTLE\* factors can provide healthcare providers with the information they need to manage their supply chains optimally, even when faced with significant disruptions.

## Conclusion: CX as a strategic imperative

In an industry where the timely delivery of healthcare products can mean the difference between life and death, CX is not just a competitive advantage—it is a strategic imperative. As black swan events continue to disrupt global supply chains, healthcare LSPs must prioritize CX to mitigate risks and ensure continuity of care and build trust. By embracing proactive communication, adaptability, partnership, and technological innovation, LSPs can better support healthcare providers in navigating the uncertainties of black swan events, ultimately

driving better patient outcomes and more resilient supply chains.

In a world where the unexpected is becoming the norm, the importance of CX cannot be overstated; it is the key to resilience, responsiveness, and strong health-care systems. By focusing on customer-centric strategies, LSPs will not only navigate black swan events more effectively but will also thrive in their aftermath, fostering long-term partnerships and allowing healthcare providers to remain focused on their core mission: patient care.



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With approximately 80,000 employees at almost 1,300 sites in close to 100 countries, the Kuehne+Nagel Group is one of the world's leading logistics providers. Headquartered in Switzerland, Kuehne+Nagel is listed in the Swiss blue-chip stock market index, the SMI. The Group is the global number one in air and sea logistics and has strong market positions in road and contract logistics.

Kuehne+Nagel is the logistics partner of choice for 400,000 customers worldwide. Using its global network, logistics expertise and data-based insights, the Group provides end-to-end supply chain solutions for global companies and industries. As a member of the Science Based Target Initiative (SBTi), Kuehne+Nagel is committed to sustainable logistics by reducing its own environmental footprint and by supporting its customers with low-carbon logistics solutions.

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