



DHL Resilience360: Manufacturing network restructuring and raw material shortages among top 10 supply chain risk predictions for 2019

- **First Resilience360 Annual Risk Report includes 7 key challenges from 2018 and outlook on supply chain risks in 2019**
- **Key events in 2018 included climate-driven disruptions affecting shipping, higher than expected cyber-attacks targeting supply chain assets, and industry zone shutdowns impacting production activities**

Bonn, March 25, 2019: DHL Resilience360 has released its first annual Risk Report. The report, based on risk and incident data collected by DHL's cloud-based risk management provider Resilience360, examines last year's major supply chain challenges and identifies trends that will shape the risk landscape in 2019. In a rapidly evolving supply chain risk environment, successful risk assessment is a significant challenge for companies in all sectors. The Resilience360 Annual Risk Report is based on the experience and insights of in-house analysts, who monitor hundreds of risk events each day. DHL's experts help companies proactively manage disruptive events, from political violence to cargo theft, and minimize business interruption.

"The Resilience360 Annual Risk Report sums up our expertise to our customer's benefit in a very comprehensive way. Risk assessment and building up supply chain resilience is a crucial part of our customers' business. Wherever they operate, the report's insights will make the re-evaluation of the respective risk environment easier and thus complement the existing Resilience360 offer," says Tobias Larsson, CEO Resilience360.

Key supply chain disruptors in 2018

The first Resilience360 Annual Risk Report examines the major supply chain risks that companies experienced in 2018. The world's top three risks were uncertainties concerning trade flows, cyber security incidents, and climate change paired with extreme weather conditions. Uncertainty in trade increased due to disputes between the US and other countries, in particular China, including new unilateral import tariffs. The still-open question of the UK's withdrawal from the EU is also contributing to uncertainty, as companies fear border congestions and delays at ports in the event of a disorderly departure. In the realm of cyber security, a rising number of incidents involving supply chain and transport infrastructure showed how actors are intent on



obtaining trade secrets, engaging in blackmail, or causing economic disruption. Lastly, climate change presented a myriad of severe weather-related disruptions in 2018, which was the 4th warmest year on record. Wildfires, droughts, low water levels and melting ice had the most significant impacts on supply chains.

Challenges across Europe

In Europe, Resilience360 recorded the most incidents in Germany and the United Kingdom. Two-thirds of high-impact events were caused by cargo theft, industrial fires and explosions, and train accidents. However, the distribution of incidents across Europe was more even than in other regions. Air and ground transportation incidents represented the majority of incidents with 44.7%. Such events are especially relevant for supply chains, as seen by the disruption of railway traffic on key rail corridors for more than two weeks that resulted from two train accidents. Civil unrest accounted for the second-highest portion of events at 12.9%. Protests related to Labor Day (May 1) and the Yellow Vests in France and Belgium disrupted highways, ports, border crossings and access roads to industrial areas. Weather events also posed problems for supply chains. A month-long drought in summer and autumn resulted in record-low levels of water on the Rhine River. The water levels inhibited shipping traffic, and chemical and steel makers in Germany, France and the Netherlands were compelled to declare force majeure on deliveries. Natural disasters affected countries across Europe as well. In October, Greece was struck by an earthquake near Zakynthos Island, while Italy, Spain, France, and the United Kingdom experienced heavy floods.

Anticipating supply chain risks in 2019

The report also highlights an array of threats that may become particularly salient for businesses in 2019 and beyond. In addition to ongoing global risks like the international tensions that characterized trade in 2018, companies may also face additional costs and uncertainty due to raw material shortages, recalls and safety scares or tougher environmental regulations. First, rising demand for raw materials, coupled with a fragile supply caused by political instability and supplier shutdowns, may result in raw material shortages for crucial materials such as lithium, cobalt, and adiponitrile. Second, recalls and safety scares may increase, as wider public awareness of quality issues and stricter enforcement by regulators in highly regulated sectors such as pharmaceuticals and medical devices subject products to higher scrutiny. Lastly, anti-pollution measures may be expanded in 2019 to a broader range of industries across Asia. The US Environmental Protection Agency is also expected to announce new requirements. As a result, tougher environmental regulations will increase costs for



businesses in a number of industries. All of these developments have the potential to put suppliers under threat and force significant changes throughout supply chains.

“Modern supply chains are vulnerable. Transportation delays, theft, natural disasters, inclement weather, cyber-attacks and unexpected quality issues can disrupt cargo flows, creating short term costs and delivery challenges,” adds Shehrina Kamal, Director Risk Intelligence, Resilience360. “Resilience360 strives to understand these risks and gain a common understanding of how they impact supply chains across countries, regions, industries and organizations in measurable ways.”

Detailed findings from 2018 and an overview of the coming challenges in 2019 are available in the full report, which can be downloaded at www.resilience360.dhl.com.

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Notes to editors:

About Resilience360

Resilience360 is an innovative, cloud-based platform that helps companies to visualize, track and protect their business operations. The solution facilitates intuitive supply chain visualization, tracks assets, suppliers, orders and shipments, and enables near real-time monitoring of incidents capable of disrupting or delaying supply chains. Resilience360 easily integrates with business systems and helps companies keep track of risk in combination with their business performance indicators. It enables companies to better ensure business continuity, building risk profiles based on over 30 risk databases, and identifying critical hotspots using heat-maps to mitigate risks and to turn potential disruptions into a competitive advantage.

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DHL is part of Deutsche Post DHL Group. The Group generated revenues of more than 61 billion euros in 2018.