

## **Executive Summary**

The COVID-19 pandemic has posed several issues on the global supply chain. Lack of labour and multiple national lockdowns have cut down production in almost every industry. Lack of raw materials has lowered manufacturing capabilities globally, disrupting the logistics network. The pandemic has not only created new challenges, but also exposed previously unseen vulnerabilities in the supply chain network [1]. This report will explore the shortcomings in supply chain across food retail, oil & gas, shipping & packaging, construction materials (lumber), and the semiconductor market globally.

Through investigation of these industries, similarities have been identified and recommendations determined for future operations management. These recommendations are to invest in automation and robotics, change supply chain thinking from a global model to local model, incorporate Industrial Internet of Things (IIoT) into operations, invest in sustainable solutions, and a streamlined approach to managing the workforce.

Ways to take action are end-to-end action plans, embracing collaboration, and assessing each node involved in the supply chain. These actions should eliminate most of the disruptions pre and post pandemic.