

Enhancing Alberta's Supply Chain Resiliency and Logistics Capabilities



Alberta's Recovery Plan includes several strategies focused on sector-specific needs where Alberta has substantial opportunities for promoting Alberta's position as a growing hub for logistics.

In support of this Plan, there are opportunities to leverage the Province's logistic infrastructure hubs and further enhance Alberta's position as an innovative hub that moves people in and out of the province and facilitates the flow of goods. The importance of supply chain resiliency to support these goals was made clear by recent challenges, including the COVID-19 pandemic and recent flooding in British Columbia.

Alberta's Investment and Growth Strategy includes a commitment to identify and address strategic transportation, infrastructure, talent gaps and industry supply chain barriers that deter investment into principal and enabling sectors.

Project Objectives:

Objectives were to provide information and recommendations to the Province for government actions required to strengthen Alberta's supply chain resiliency, and its competitiveness in the growing logistics sector. The first objective was to identify Alberta's supply chain risks, assess the resiliency of Alberta supply chain networks, and examine Alberta's current and future logistics capacity. The second objective was to provide recommendations on how Alberta can improve supply chain resiliency, and how to expand its logistics sector. Recommendations focused on how to predict, prevent, mitigate, and adapt to supply chain disruptions, as well as, how the Province can best utilize Alberta's competitive provincial advantages to grow the logistics industry.

Project Responsibilities:

Lanyi Rail Solutions Ltd provided senior railway engineering technical support to CPCS, as prime consultant, with a focus on railway mainline, branchline, and major terminal operating conditions in Alberta and across Western Canada regarding existing supply chain constraints and opportunities to mitigate and improve overall supply chain issues. Specific activities include the following:

- Collection and review of available supply chain information, including Alberta's economy and transportation systems, and Alberta's policies and strategies for economic growth and diversification
- Defining supply chain resiliency, ecosystems, and digital networks
- Review of CPCS's supply chain analyses and issues impacting Alberta's supply chains
- Review and evaluation of current supply chain risks and growth constraints
- Development of Rail Transportation recommendations related to Alberta's supply chain resiliency including strategic Rail Network and major Rail Terminal relocations, expansions and upgrades, tactical Railway capacity opportunities, and emerging Technology solutions to improve supply chains resiliency

Client: Province of Alberta

Role: Railway Network Analyst

Duration: June 2022 to January 2023