

EXISTING AND PENDING INFRASTRUCTURE PROJECTS: POTENTIAL COMPATIBILITY WITH THE CANADIAN NORTHERN CORRIDOR

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KEY MESSAGES

- Rigorous planning of a multi-modal corridor at a national scale requires identifying current and future infrastructure needs and determining opportunities for co-location of linear infrastructure.
- Ensuring compatibility of such a major and complex infrastructure expansion with existing and pending infrastructure projects is necessary to avoid potential redundancies, minimize environmental impact, optimize resource allocation and enable long-term, sustainable economic growth.
- Determining the regions, cities and communities to be served by the corridor requires a comprehensive investigation of the existing and pending infrastructure projects serving an area in addition to determining the needs and priorities of the stakeholders and the area's economic potential. Successful integration of existing infrastructure primarily depends on the design principles and priorities determined and agreed upon by the stakeholders in the early stages of infrastructure development.
- Developing a systematic approach for measuring compatibility first requires an overview of the existing and pending infrastructure projects. To provide input for future research on the compatibility of infrastructure projects and its potential implementation to the CNC, this paper provides a comprehensive overview of the major components of Canada's infrastructure network, organized by mode and complements an accompanying database of Canada's linear infrastructure network.