

All Aboard! Navigating the Complex and Changing Future of Port Developments Together

2024 APP Winter Conference

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Agenda

01 Introduction

02 What are the Challenges?

What are the solutions for 03 the future?

Land Acknowledgement

Colliers Project Leaders has offices across Canada. We acknowledge that our work takes place within ancestral, traditional, treaty and unceded territories which continue to be home to many First Nations and Indigenous people.

We continue to benefit from our presence on these lands and are committed to Reconciliation.

Colliers Project Leaders Where we are

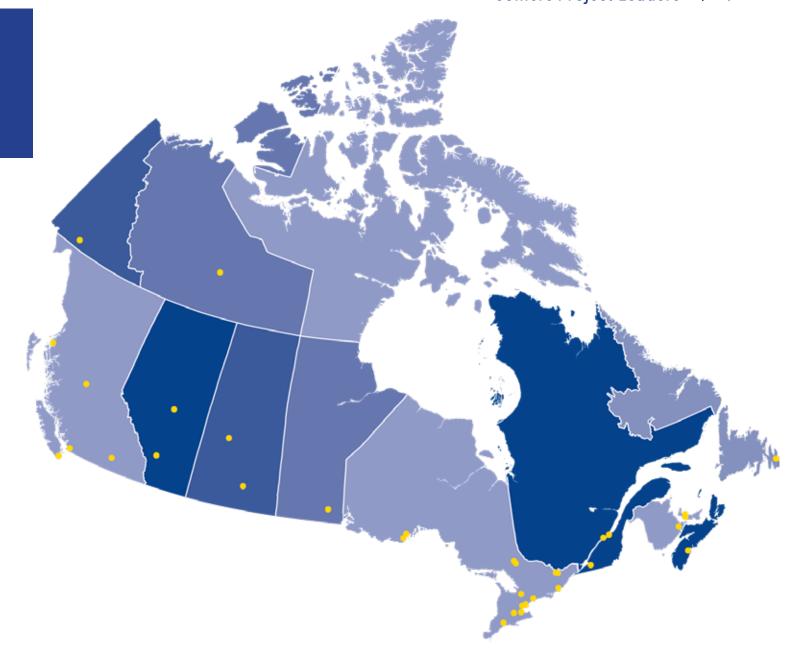
30+ offices across Canada

17,000+

public and private sector projects

ISO 9001:2015

30+
years of service



What we do Our core services

Project Management

Exceptional project leadership with experts on the client's side across all stages of the project

Construction Solutions

Construction
expertise from the
beginning of the
project to enable
informed and timely
decisions on design,
constructability, and
cost

Furniture, Equipment Planning and Move Readiness

Comprehensive equipment solutions from specifications and procurement to delivery and installation

Infrastructure Advisory

Strategic advisory services to reduce cost, manage risk, address complex challenges, and achieve sustainable strategies

IPD and Lean

Expert Integrated Project Delivery (IPD) and Lean services to guide IPD teams and advocate for projects

Projects

Halifax Ferries

Seaspan Shipyards

Montreal Contrecoeur Terminal Expansion

Roberts Bank Terminal Two





Automation

- Potential labour displacement
- Integration of technologies
- Unclear reliability of machinery



Autonomous Vessels

- Safety, efficiency, and regulatory considerations
- Ship/Shore Interface
- Reliability of Sensors/Autonomous systems



Cybersecurity in Ports

- Cyber threats and attacks
- Software and hardware upgrades
- Human error



Digitization in Supply Chain

- Integration and interoperability of digital technologies
- Data security and privacy
- Cost of implementation



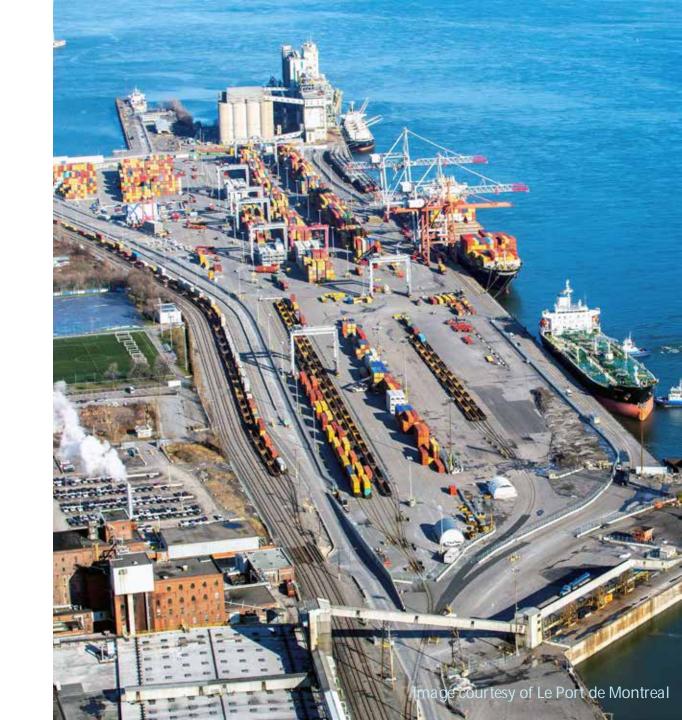
Global Connectivity

- Seamless communication across diverse technologies
- Global partnerships and collaboration
- Efficient coordination of all port activity components



Infrastructure Upgrades

- Optimizing Port for larger vessels
- Increasing capacity to manage trade volumes
- Escalating capital costs



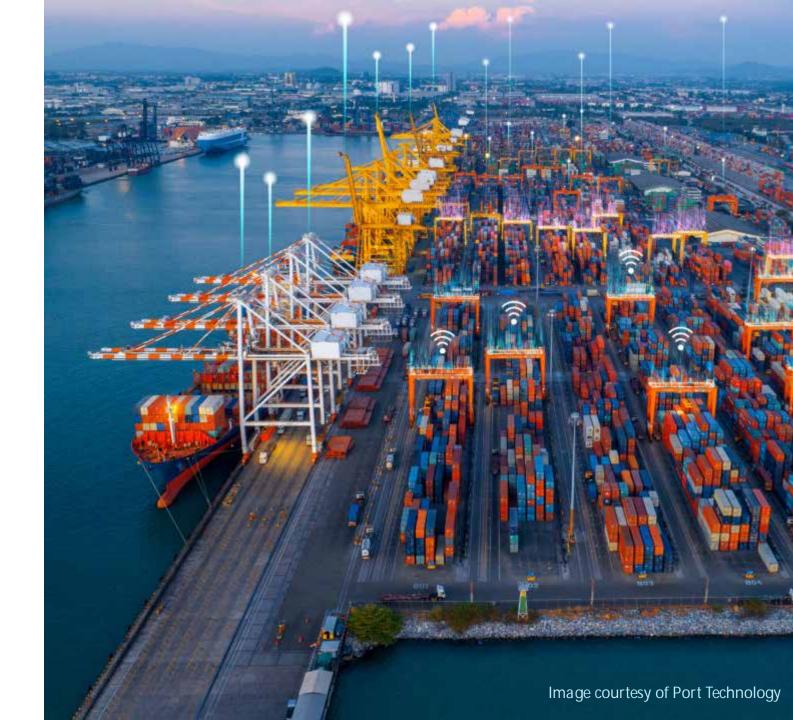
Regulatory

- Ever-changing regulations
- Interpretation and application
- Conflicts of different regulatory frameworks



Smart Port Technologies

- Adapting existing infrastructure and legacy systems
- Resistance to change
- Standardization





Sustainable Port Practices

- Electrification of shore power
- Provision of alternative fuels
- Reduction of ecological footprint of ports

Interactive Table Sessions

Here's how....

- Work at your tables for 10 mins
- Based on your Topic, outline the solutions to one of the challenges that have been identified at your table
- Assign a scribe to capture your innovative solutions and a speaker to present to the group
- Report back to the group in less than 2 mins

Together we can create a vision for the Ports of the Future.

What are the Solutions?

Thank you

Let's stay in touch

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