



CN & Fort Frances

CN 101

Safety & Operations

CAPEX 2020

Incident Response

Fort Frances Town Council Presentation
October 13, 2020 | Virtual Presentation



Introductions

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Protecting CN Employees during COVID -19 Pandemic

Social distancing	Cleaning	Protecting our dispatchers
<ul style="list-style-type: none">• We are:<ul style="list-style-type: none">- Conducting job briefings over radio or by phone- Staggering start times to avoid contact- Spacing out and isolating work areas in buildings- Encouraging people to drive their own vehicles to work- Applying work-from-home and rotation policy for ~ 5000 employees.- Mandatory use of face masks on CN property – May 1st	<ul style="list-style-type: none">• We have reinforced cleaning activities in all work areas:<ul style="list-style-type: none">- Main locations, including elevators, bathrooms, lunch and rest rooms- Shops, booking in rooms, bunkhouses- Team vehicles and buses for Engineering production gangs- Tools• For crews and locomotives:<ul style="list-style-type: none">- Additional wipes are provided in crew packs- Disinfecting locomotives at each arriving event	<ul style="list-style-type: none">• Split dispatchers in different locations• Assigned dedicated parking spots and elevator• Nurses/medical personnel positioned at each center to test for symptoms• Entrances secured to only vital Operations personnel• Extra cleaning in place for each work station, bathrooms, lunch and rest rooms
Communication		
<ul style="list-style-type: none">• Daily messages to all employees on situation and measures taken• Continuing to educate employees on measures in place – internal web page in place with centralized information available• CN dedicated cross functional COVID-19 team, including 15-member CN Occupational Health Services team and contact tracking by CN Police		

Who we are

A leading North American transportation and logistics company

CN is a world-class transportation leader and the only transcontinental railway in North America. Our 19,500 mile network spans Canada and Mid-America, connecting three coasts.

We offer fully integrated rail and other transportation services, including intermodal, trucking, freight forwarding, warehousing, and distribution. Our extensive network coupled with our unique supply chain partnerships provide connections to all points in North America and beyond.

CN handles over \$250 billion worth of goods, hauls about 20% of Canada's exports and carries more than 300 million tons of cargo annually.

If you eat it, drive it, or use it, chances are we move it.



2019 HIGHLIGHTS

25,000+
employees

C\$15B
in revenue

62.5%
operating ratio

C\$3.9B
in capital investments

19,500
route miles

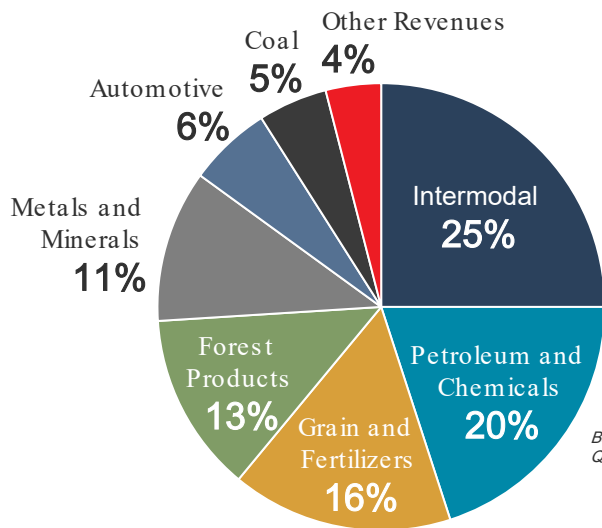
C\$84B
market capitalization

5.9 million
carloads

Our franchise

Unparalleled reach coupled with profound geographic and product diversity

Well-diversified portfolio



Based on Q2 2019 revenues

Global West 25%

Domestic Canada 16%

Transborder 35%

Southbound 24%
Northbound 11%

Domestic U.S. 15%

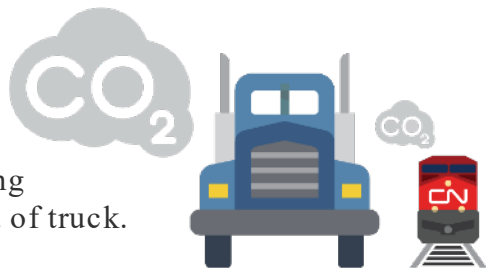
Global South 4%

Global East 5%

The benefits of shipping rail

75%

GHG reduction moving freight by rail instead of truck.



4X

Railroads are approximately four times more fuel efficient than trucks. Leveraging rail for the long haul and trucking over shorter distances reduces GHG emissions.



479 miles

One train can move on average a ton of freight 479 miles on a single gallon of fuel.



300 trucks

A single freight train can replace over 300 big trucks.



Sources: The Railway Association of Canada; The Association of American Railroad

Ontario by the Numbers

3,970

Railroaders employed

\$326M

Capital investments

2,541

Route miles operated

\$145M

Paid in taxes

\$2.8B

Local spending

\$5.2M

Community partnerships



TOP THREE COMMODITIES



Intermodal



Automotive



Metals

CN's 2020 CAPEX Program

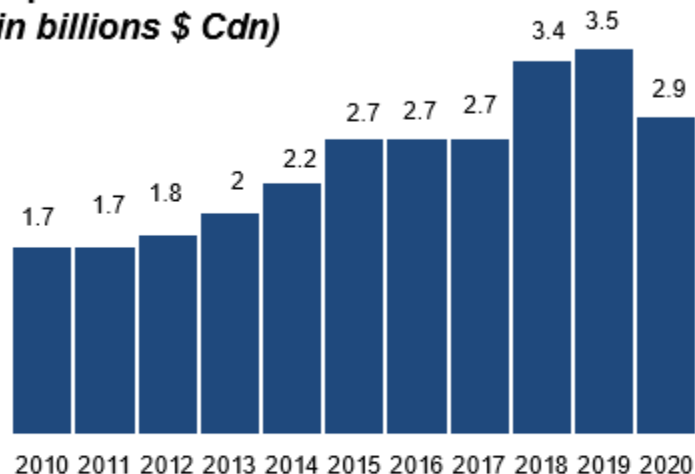
\$310 million

Invested in Ontario in 2020

- Replacement of more than 60 miles of rail
- Installation of approximately 195,000 new railroad ties
- Rebuild of 86 road crossing surfaces
- Maintenance work on bridges, culverts, signal systems and other track infrastructure



Capital Investments
(in billions \$ Cdn)



~C \$27B

capital investments
from 2010 to 2020

Dangerous Goods

Dangerous goods are materials used every day in the goods and products we consume, in our water treatment plants, in our automobiles and other common products. Rail keeps large volumes of these commodities off the roads and highways. CN regularly shares information about dangerous goods and emergency response with communities across its network.



Dangerous Goods

CN's emergency response plan must be designed and maintained to be applicable to any emergency incident at any location on our network. CN's Dangerous Goods Team regularly reviews the types and quantities of dangerous goods traffic transported across each Province and conducts an analysis of the response measures required and resources available to respond everywhere at any time. When our analysis reveals an area where we can improve, our teams work quickly to address the issue. You can find more information about our Emergency response measures as well as a map of our Emergency Response Resources at cn.ca/dg

Training

Online courses, links
and access to various
training resources

Resources

Mobile applications,
Web tools and
dangerous goods reports

Guides

Reference materials,
handbooks and
manuals

Contacts

DG Officers across the
CN network, various
railroads

AskRail

AskRail

The AskRail® app is a safety tool that provides qualified first responders immediate access to accurate, timely data about what type of hazardous materials a railcar is carrying so they can make an informed decision about how to respond to a rail emergency. AskRail is a backup resource if information from the train conductor or train consist is not available.

Benefits of Ask Rail

- Access to the real-time data about contents of railcars
- Search to see whether a train is carrying dangerous goods
- View railroad emergency contact information



Safety in CN Operations

Specific to Fort Frances Area

- **Annual Inspections**

Detailed inspections of crossings and turnouts

Joint bar inspections

- **Semi-Annual Inspections**

Track geometry inspections

- **Monthly Inspections**

Rail flaw detections (TC mandates 4 times per year)

- **Weekly Inspections**

Travelled or traversed at minimum twice per week

ATIP inspections at minimum twice per week

Lights & bells at crossings inspected weekly

*Note: extreme temperatures of -30 or +25 degrees result in increased frequency of above inspections

Autonomous Track Inspection Program

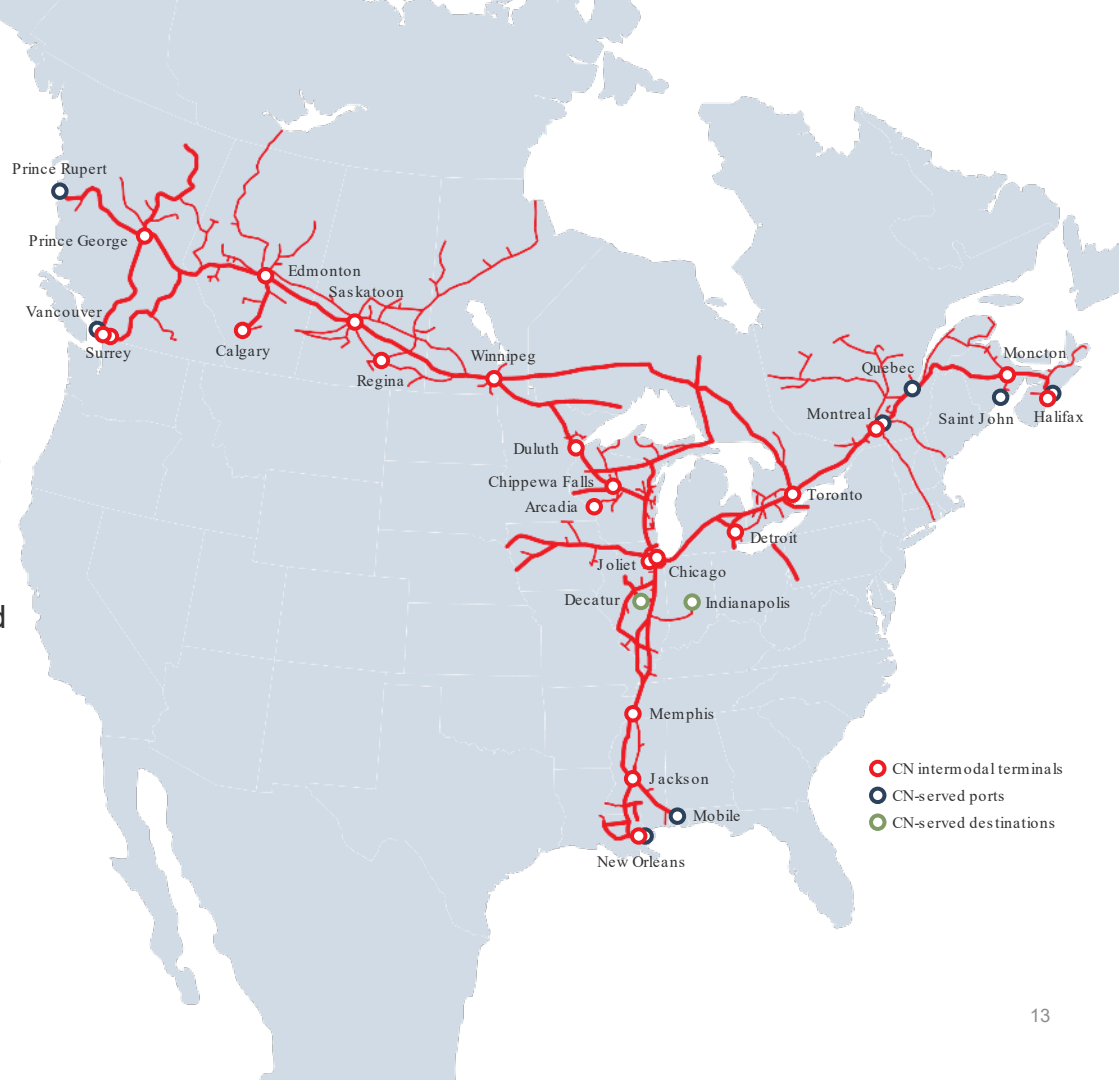


CN AITP car at MacMillan Yard, Toronto.

- Uses latest sensor and AI technology to develop fully automated track inspection
- Sends automated alerts to CN Maintenance team
- Embedded in train service

Incident Response

- Immediate notification begins with outreach to local police service and first responders
- CN crews are mobilized to get to site (DGO's, CNPS, response crews)
- PAGA team reaches out to the Mayor and CAO and continues to keep in communication during and well after incident
- Coordination between local first responders and CN throughout the process
- CN remains involved with community where an incident occurs until things have been made right



Thank you

