



PORT of
vancouver

Vancouver Fraser
Port Authority

Port Focus for Future of Vessel Shipping

June 4, 2024

Doug Mills, *Senior Account Representative, Trade Development*

Vancouver Fraser Port Authority enables Canada's trade

To enable Canada's trade objectives, ensuring safety, environmental protection and consideration for local communities

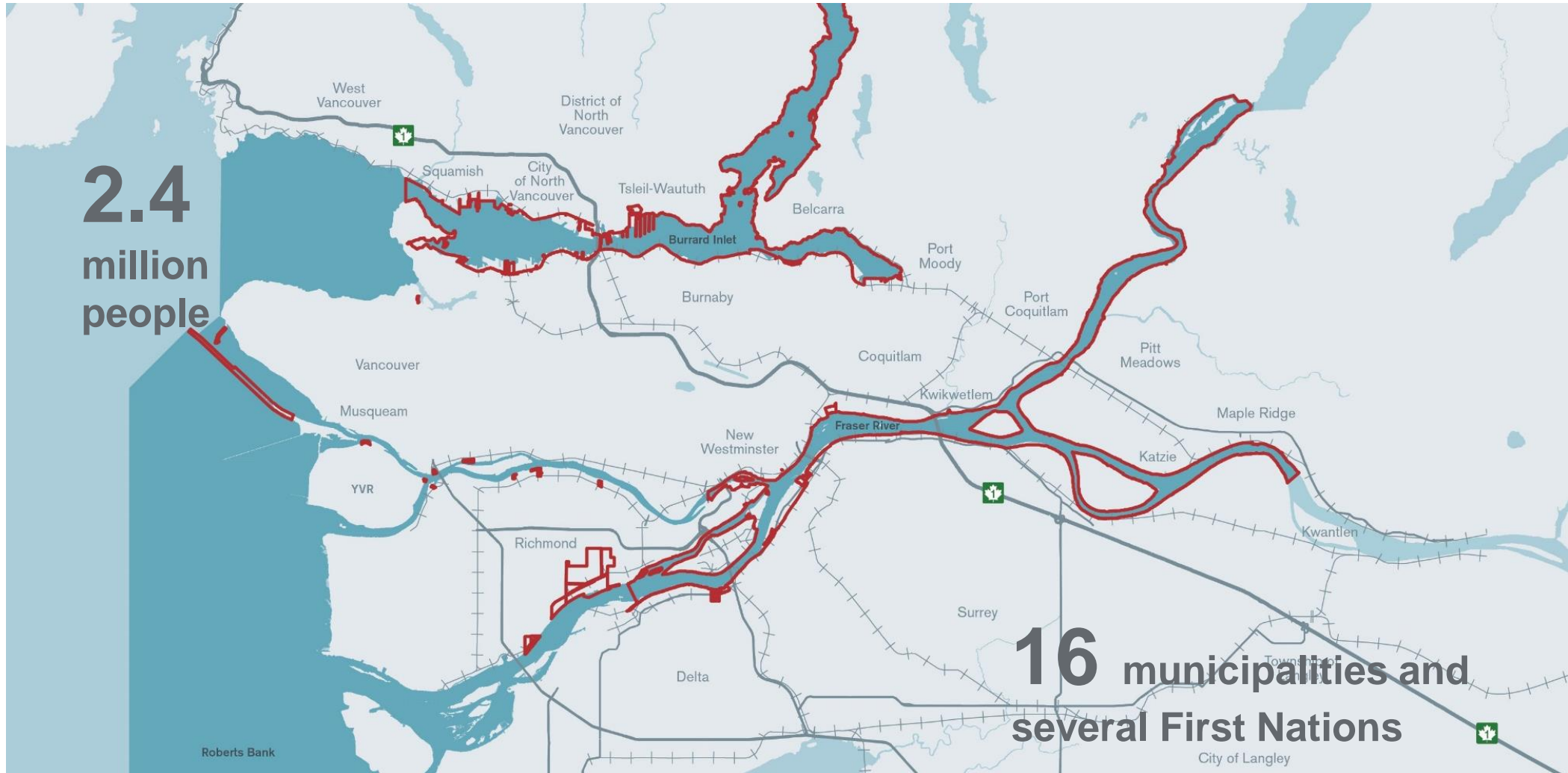
- Lease federal lands to terminals
- Build infrastructure
- Advance optimization
- Lead environmental programs
- Engage with communities and Indigenous groups
- Collaborate on port safety and security

Governance

Diverse board of directors, composed of:

- Federally-appointed port users (7)
- Federal government appointee (1)
- British Columbia provincial government appointee (1)
- Other western Canada provinces appointee (1)
- Local government appointee (1)

Port jurisdiction



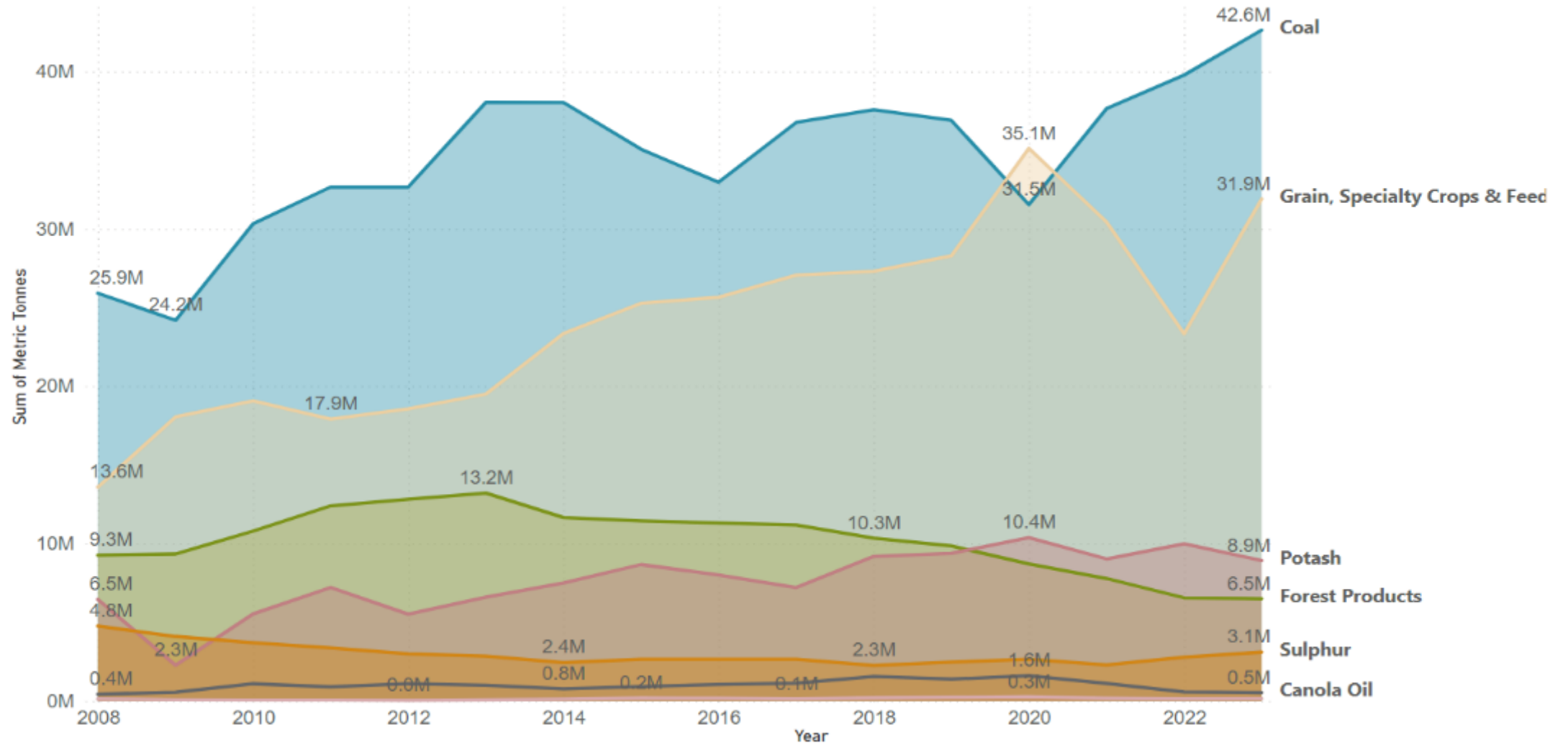
Port of Vancouver 2023 cargo volumes

	Total Cargo *	Auto	Coal	Grain	Potash	Foreign Breakbulk	Container TEUs	Cruise
Dec 2023 YTD	↑	↑	↑	↑	↓	↓	↓	↑
Compared to 2023	6%	36%	7%	39%	-11%	-26%	-12%	53%

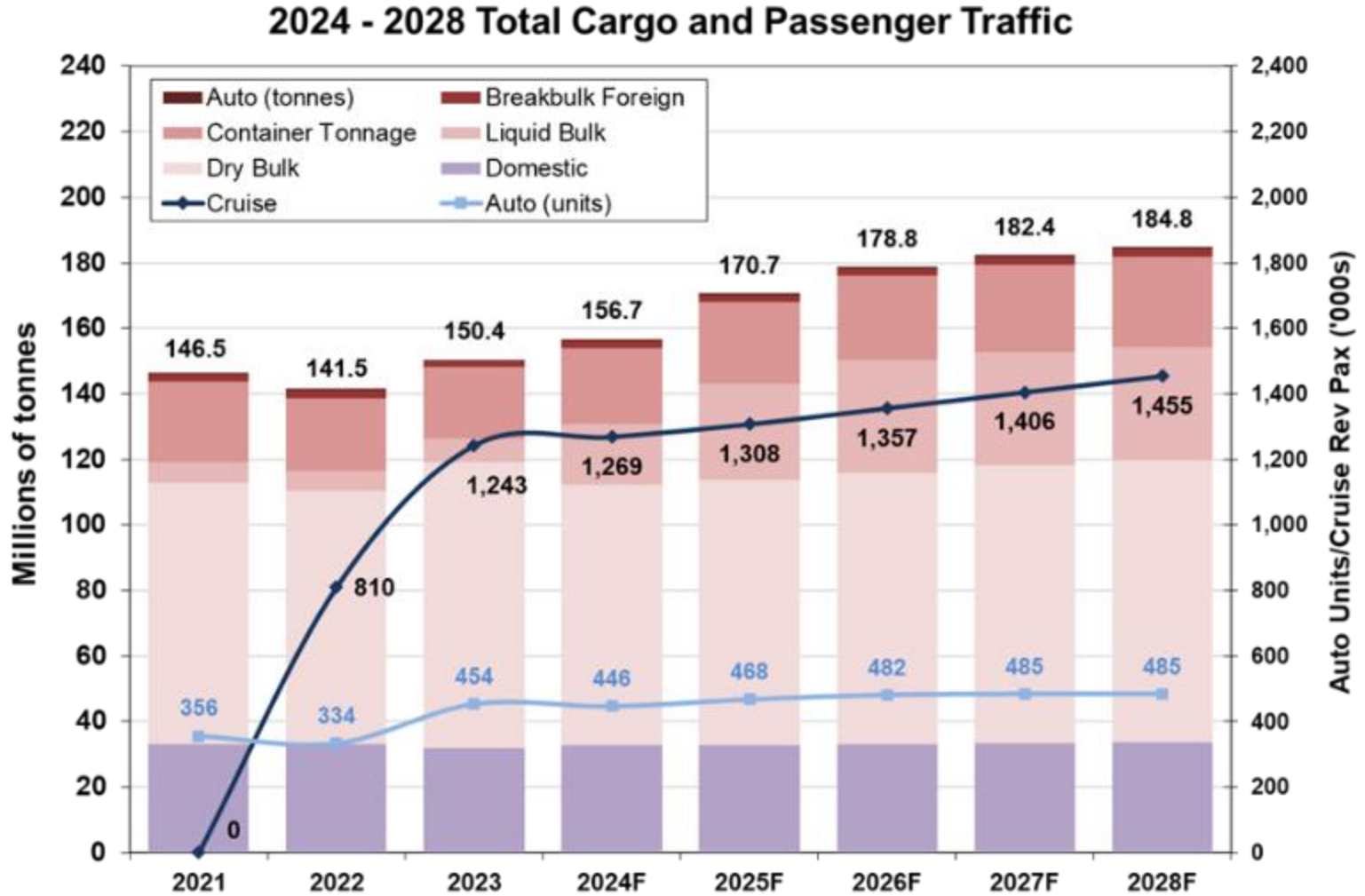


* 2023 total cargo volumes are preliminary and subject to adjustments pending further validation.

Metric tonnage by commodity and year



A decade of trade growth, with more forecasted ahead



Terminal Infrastructure

Centerm Expansion



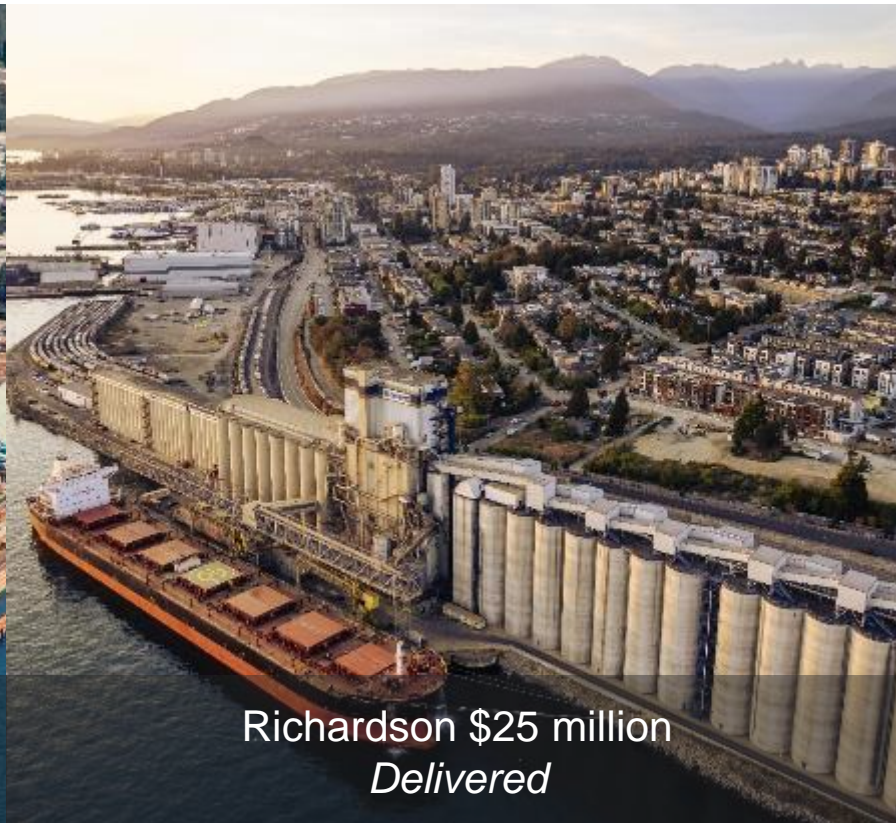
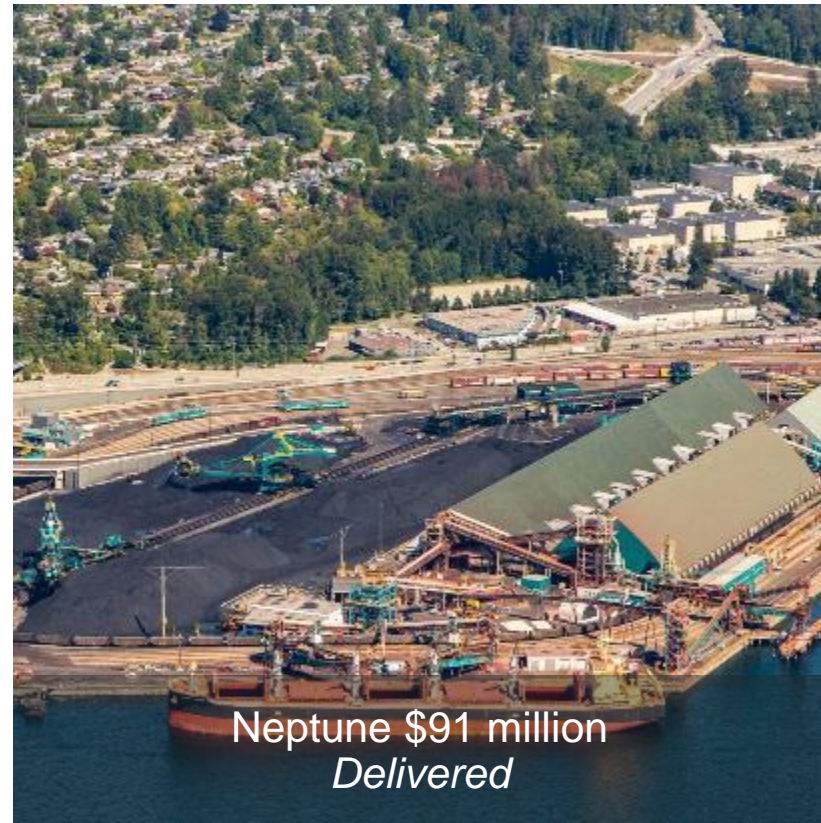
Completed: 1.5 million TEU capacity on 85-acre terminal
15% increase in physical footprint with a 60% increase in capacity
Received Institute for Sustainable Infrastructure Envision Platinum Award

Roberts Bank Terminal 2

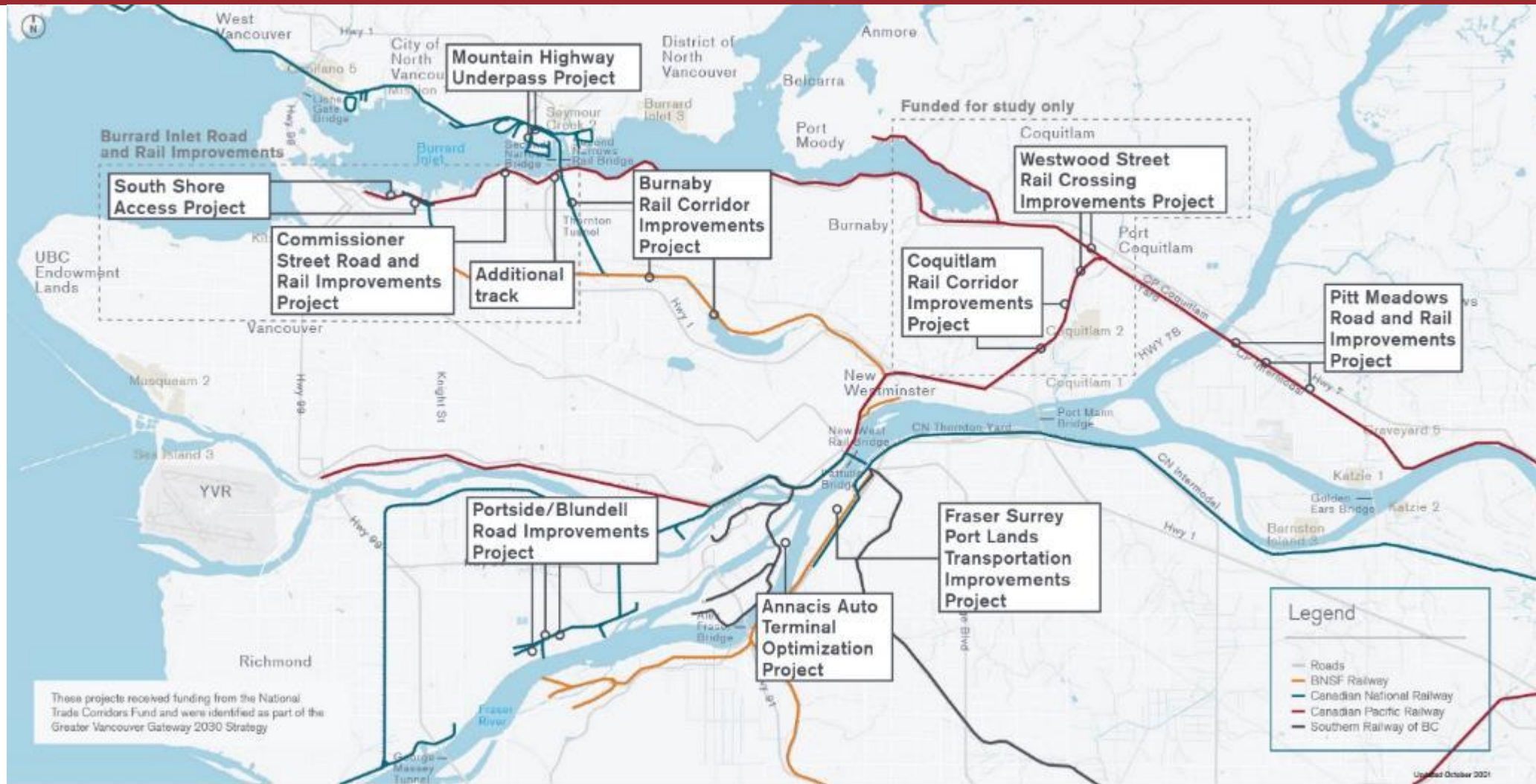


Governments of Canada and British Columbia approve the Roberts Bank Terminal 2 Project, following a rigorous 10-year environmental assessment process

Private sector terminal investment 2021 - 2023



Port authority-led gateway projects



Transportation Infrastructure: Over \$8 billion invested since 2009



South Shore Access Project



Burnaby Rail Corridor Improvements Project



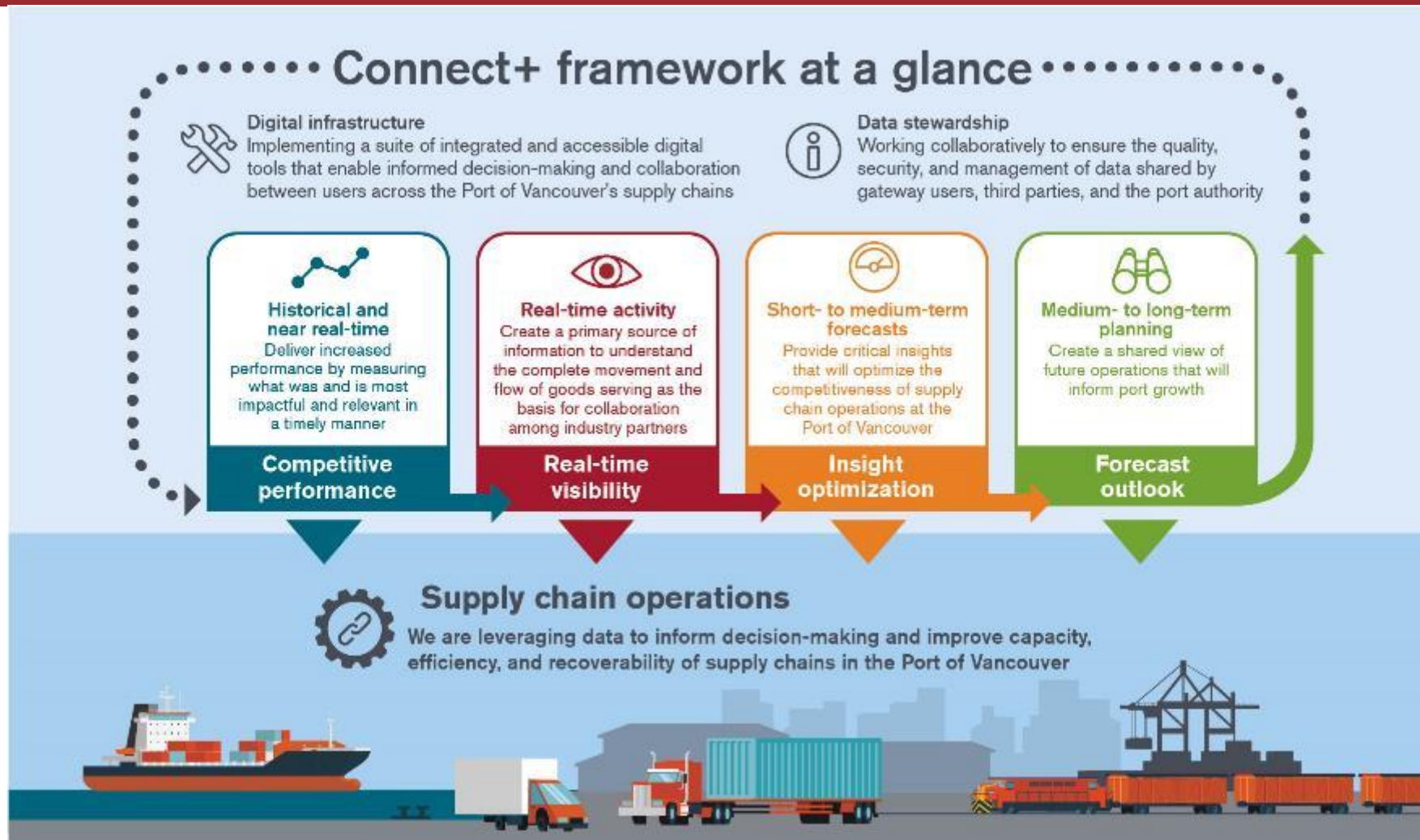
Fraser Surrey Transportation Improvements Project



Growing the gateway

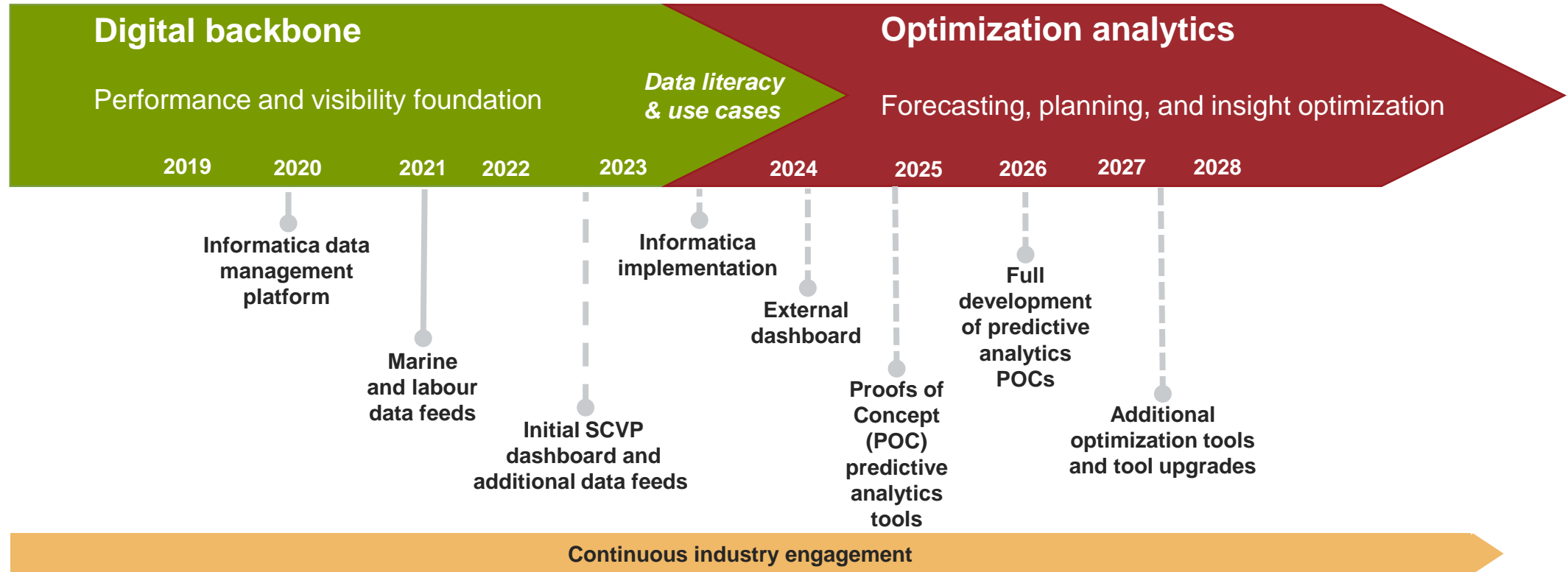


Connect+: optimizing supply chains through innovation and collaboration



Supply Chain Optimization Roadmap

Foundations to optimization



Centralized scheduling system: digital backbone of the program



- Used to coordinate commercial ship traffic in the Second Narrows for:
 - Better coordination among port users
 - A more effective utilization of existing supply chain capacity
 - Enhanced marine safety, port fluidity, and overall efficiency
- 310+ ship transits scheduled through the system since launched (October 2023)
- System use will be extended to the First Narrows (Lions Gate area) in 2024

Anchorage management for maximum efficiency and minimal disruptions

Implemented (2023)

- First anchorage code of conduct in Canada
- Arrival and departure window for ships anchoring around the Southern Gulf Islands

In progress (2024)

- Reviewing anchorage assignment procedures
- Modernizing anchorage protocol
- Enhancing in-port anchorage capacity for greater supply chain flexibility and resilience



National Supply Chain Office

Recognizing expectations for government leadership

Functioning national supply chains are vital for supporting Canadians

In response...



Early 2022: Industry Engagement

- National Supply Chain Summit – led by Minister – (January 31, 2022)
- Regional and sectoral roundtables – led by Parliamentary Secretary – (February – June 2022)



Spring 2022: Establishment of National Supply Chain Task Force

- Established to examine the key issues affecting Canada's supply chain operations
- Mandated to gather industry perspectives and provide advice on actions Canada could take to improve the fluidity, efficiency and resiliency of the transportation supply chain to support economic growth
- The task force undertook over 160 consultation and reviewed 70 written submissions between May and September 2022



October 2022: Task Force Report

Report contains 21 immediate and long-term recommendations based on the consultations, including:

- Establish a federal Supply Chain Office to unify federal government activities;
- Develop a long-term Supply Chain Strategy; and
- Digitalize and create end-to-end transportation supply chain visibility



Budget 2023 – groundwork for the National Supply Chain Strategy

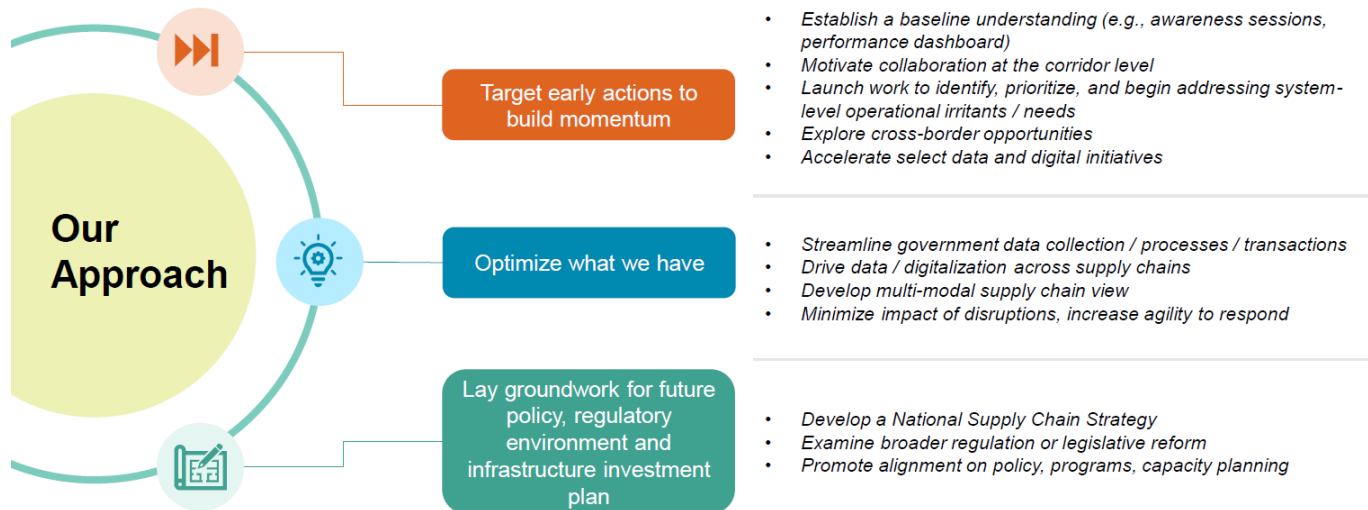
- \$27.2M over five years, starting in 2023-24, to establish a Supply Chain Office
- Develop a long-term roadmap for Canada's transportation infrastructure
- \$25M over five years, starting in 2023-24, to develop transportation supply chain data



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Western Corridor – areas of work



• Areas of Work

- Integrated coordination and planning – share forecasts and plans, flag bottlenecks and identify supply/demand imbalances
- Rail fluidity – explore measures to enhance rail fluidity in the western corridor
- National level-work – development of a national data sharing architecture and commodity mapping
- Additional areas for exploration – digital twin application within supply chains and potential opportunities on optimization of air cargo and truck transportation

Taking proactive measures to protect supply chain reliability



Endangered killer whale
critical habitat



Port of Vancouver

Pacific Ocean

Seattle

WASHINGTON

ALBERTA

SASKATCHEWAN

Edmonton

MANITOBA

Winnip

NORTH
DAKOTA

MONTANA

SOUTH
DAKOTA

About the ECHO Program

A proactive, voluntary approach to managing impacts of commercial shipping on endangered whales off B.C.'s coast.



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Sustainability initiatives at the Port of Vancouver

Ship-to-shore crane with hydrogen fuel cell retrofit

- RTG (rubbertired gantry crane) to be powered by a hydrogen fuel cell

Green corridor fund consortium application

- VFPA – applicant lead
- DPW – hydrogen and electrification
- GCT – bio-fuel and electrification
- CN – electric locomotive
- H-Tech – liquified hydrogen fueling system

Tugs

- Electric tugs – SAAM Towage in partnership with Teck
- Methanol tug – TMX

Low emissions technology initiative in collaboration with Gov't of BC

- \$3M to facilitate scalable, low emission technology pilot projects
- Seaspan Ferries - battery electric-powered terminal trucks and biodiesel marine fuel
- Viterra - renewal diesel for terminal locomotive

