Global Port Infrastructure and Strategy

Western Canada

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- President, Western Stevedoring (a Carrix/SSA Marine Enterprise)
- Chair, BC Marine Terminal Operators Association
Global Economic Impact on Port Development – Canada – Rail Network
Western Canada - Pulp Mills

Pulp Volumes—MT

- Domestic — USA: 2.3 M, 39%
- Export — Containers: 1.7 M, 29%
- — Breakbulk: 1.9 M, 32%
- Total Western Canada: 5.9 M, 100%
Port of Vancouver
Cargo Volumes

2000: 76M
2008: 115M
2016: 136M
Projected 2030: 200+M

Million Tonnes
Vancouver – Asia Pacific Gateway Initiative

Creating capacity – today

$7.5 billion

Road network investments
Gateway corridor investments
Private sector investments

1. Neptune Terminals
2. Richardson International
3. Westshore Terminals
4. Pacific Coast Terminals
5. Beedie Transload
6. Cargill Inc.
7. Fraser Surrey Docks
8. Lynnterm
9. Canexus
10. Global Container Terminals
Vancouver - Private Sector – over $2 Billion

Westshore ~ $385 million
- Coal

Richardson ~ $140 million
- Grain

Deltaport ~ $400 million
- Containers

Neptune ~ $330 million
- Potash & Coal
Port Development - Over $2.0 Billion In Progress

<table>
<thead>
<tr>
<th>Location</th>
<th>Company</th>
<th>Projects</th>
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<tr>
<td>Prince Rupert</td>
<td>DPW</td>
<td>Container Terminal Expansion</td>
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<tr>
<td>Vancouver</td>
<td>G3</td>
<td>Grain terminal</td>
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<td>PCT</td>
<td>Potash Expansion</td>
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<td>DPW</td>
<td>Canola Oil Expansion</td>
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<td>Lynnterm</td>
<td>Breakbulk Capacity Expansion</td>
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# Future Port Developments – Over $5 Billion

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<tr>
<td>Prince Rupert</td>
<td>- Liquid Bulk (&amp; LNG?)</td>
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<td>- Intermodal Transload Facilities</td>
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<td>Vancouver</td>
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<td>- Neptune</td>
<td>- Coal &amp; Potash</td>
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<td>- Fibreco</td>
<td>- Grain</td>
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<td>- FSD</td>
<td>- Grain, Coal &amp; Potash</td>
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<td>- Kinder Morgan</td>
<td>- Oil &amp; Liquid Bulk</td>
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<td>- T2?</td>
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Gateway Transportation Collaboration Forum (GTCF) - Vancouver

**Members:**

- BC Ministry of Transportation & Infrastructure
- Translink - Municipalities
- Transport Canada
- Greater Vancouver Gateway Council
  - Airport, Railways & Terminals (Private Sector)
- Vancouver Fraser Port Authority
Greater Vancouver Gateway 2030

GVG 2030 is the GTCF’s strategy for smart infrastructure investment.

Infrastructure Projects will provide:
- National, regional and local benefits
- Get Canadian goods to market
- Grow the economy
- Create well-paying jobs
- Support livable, green communities
Western Canada - Pulp Mills

Pulp Volumes—MT

- Domestic — USA: 2.3 M (39%)
- Export — Containers: 1.7 M (29%)
- Export — Breakbulk: 1.9 M (32%)
- Total Western Canada: 5.9 M (100%)
Global Economic Development has driven significant Investment in Inland Transportation Infrastructure and Port Development in Canada.
Thank you