# A Global Perspective: Opportunities & Challenges in the Forest Industry



February 2020

#### **Canfor Operations**

<b>30</b> WOOD PRODUCTS	5 PULP & PAPER	4 GREEN ENERGY	
24 sawmills 2 laminating plants 1 finger joined plant 1 tree nursery 1 fleet of 130 trucks	4 pulp mills 1 paper mill 1 innovation centre	3 pellet plants 1 green energy plant	
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	57	<u>له</u> 6.700	

Canfor

**Operations** 

GLOBAL **EMPLOYEES** 

#### 18 Vida - Sweden

9 sawmills 6 packaging facilities 2 home building facilities 1 green energy plant







### **Production Capacity & Sales**

Lumber Capacity 13 million m3

**Pulp/Paper Capacity** 1.5 million tonnes

2018 Pulp Sales **\$1.4 Billion** 

Americas ■ Asia

Europe

**2018 Lumber Sales** \$3.7 Billion

- United States
- Asia
- Canada
- Other









#### **Global Softwood Lumber Demand**

Sawn timber demand is predicted to grow by 61 million m<sup>3</sup> from 2017 to 2025 and exceed the peak levels of 2006 by 75 million m<sup>3</sup>





#### **Operating Challenges in British Columbia**

#### **BC Lumber Production (Million m3)**

	2019	2018	%chg.	
Canfor	6.1	8.4	-27%	
Total British Columbia	23.1	29.2	-21%	







### BC's Mountain Pine Beetle Epidemic



### Mountain Pine Beetle Impacts

Disastrous effects of the **Pine Beetle Epidemic** 



Pine Beetles have caused the devastation of **18 MILLION HECTARES** of BC forests

CO2 released by these trees equals the yearly emissions of **3.7 million cars** on the road

#### \$3 billion

The pine beetle's economic impact to the BC forestry industry, as of 2006

That's equal to the area of **1.3 MILLION** football fields



#### **Expansive** Infestation

- Tweedsmuir Provincial Park was the • epicentre of the infestation starting in the mid 1990s
- In 2006 the Ministry of Forests initially ٠ predicted that 80% of the merchantable pine in the province's central and southern Interior could be killed by 2013.
- Over 18.3 million hectares of lodgepole ٠ pine forest has been impacted in BC.







#### 1. Don't Wait to Take Action

- Early intervention could have significantly reduced the spread of the infestation.
- Selective harvesting was ineffective
- Climate change was one of the major contributing factors to the infestation.
- Pine beetle wood had an economic sawlog shelf-life of about 15 years.







#### 2. Invest in Detection and Monitoring



Using technology such as LiDAR and satellite imagery was useful in detection.



Partnership with industry to conduct a risk rating to identify pine stands that were the most susceptible and/or would incur the most damage if infested.



#### Walk the forest and conduct aerial surveys, which was one of the most effective monitoring tools.



- 3. Coordination & Communication Between Government & Industry is Critical
- 95% of the forests in British Columbia are publicly owned.
- Government initially resisted taking any measures to prevent the spread of the infestation.
- Government started to increase the annual allowable cut in 2001, but it wasn't until 2003 when it increased significantly.





#### **Beetles Don't Respect Borders** 4.

In 2006 the Mountain Pine Beetle infestation started to **spread into Alberta**, the province to the east of British Columbia.

MPB Displacement Legend					
MPB <b>2002-06</b>	2006 Leading Edge				
MPB <b>2007- 11</b>					
Estimated <b>2011</b>	2011 Leading Edge				





Spread of the mountain pine beetle in British Columbia and Alberta from <u>2002</u>-2006 (yellow) to <u>2007</u>-2011 (red).



#### **5. Crisis Sparks Innovation**

Everything about our business changed – from processing to customers.

To demonstrate the structural quality of the beetle wood, the BC government supported its use in the construction of the Richmond Speed Skating Oval, which was constructed for the 2010 Olympic Winter Games.







- 1. Don't wait to take action
- 2. Invest in detection and monitoring
- 3. Coordination and communication between government and industry is critical
- 4. Beetles don't respect borders
- 5. Crisis sparks innovation



#### **BC's Declining Annual Allowable Cut**





### **BC Sawmill Curtailments**



Temporary = 3.3 million m<sup>3</sup> <u>Permanent =  $3.8 \text{ million } \text{m}^3$ </u> **Total**  $= 7.1 \text{ million } \text{m}^3$  😑 Aspen Planers 🛑 Canfor 🌑 Conifex 🔍 Gorman Brothers 🔵 Interfor 🔵 Tolko 😑 Vaagen 🔵 West Fraser 🔵 Western







#### W-SPF 2x4 Commodity Lumber Prices (US\$/Mfbm)



Lumber Price (US\$/Mfbm)

Source: RISI/Random Lengths





### Acquisitions

THE

R

14

SWEDEN WW 3000 NG ND

UIC

-

MAX JUNE, KD

-8.0m-



### Vida

#### 9 sawmills

• Access to high-quality, sustainable fibre

Annual production of 1.8 million  $m^3$ 

#### 9 value-added facilities

 Includes premium packaging, modular housing, industrial products and energy



CANFOR 20





### **US South Operations**

#### US South Lumber Production (Million m3)

	2019	2018	%chg.
Total South	2.3	2.2	+4%

**US South Rapid Expansion (Million M3)** 







#### **Global Markets**



#### **USA OPERATIONS**

#### **Opportunities in China**



#### **Moving Up In Value** and Increase Diversity **Of End Use Applications**

#### China



- Spruce-Pine-Fir
- **Fir/Larch** •
- **Southern Pine** •





**Furniture** 

•

•

- **Door Core**/ Flooring, etc.
- Wood Frame • Construction
- **Furring Strips** ٠
- Concrete Forming







### China's Green Building Sector

- Targeting 50% of all new buildings constructed by 2020 to be certified green buildings.
- Targeting to reduce carbon emissions by 65% by 2030.
- Expanding the green building sector from 5% to 28% by 2030.





### Global Building Codes are Changing

The changes support wood construction for mid- and high-rise buildings.



MEC Vancouver Head Office



#### **Recognizing the Benefits of Mass Timber**

Buildings are currently responsible for **39% of global** carbon emissions

#### Mass timber benefits timber:

- Reduce construction time up to 25%.
- Use up to 1/3 the energy production of steel.
- Use 1/5 the energy consumption of concrete.
- Use significantly less carbon-intensive production methods.





### **Google's Smart City: Sidewalk Labs**





### **A Bright Future**

We're excited about the **role that our industry can play** as part of the **climate change solution.** 

Forest health must remain a top priority to ensure we have access to high quality fibre.





## Thank you



October 2019

