WELCOME TO CANADA BIENVENUE AU CANADA



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Agenda













Introduction

Criteria

In Canada

Industry structure

Conclusion

Canadian market

Criteria











Population

GDP

Trade balance

Natural resources

Currency

Population



Population of 36 million (38th in the world)



0.48% of the World



Last 10 years + 10.6% vs World + 25.15%



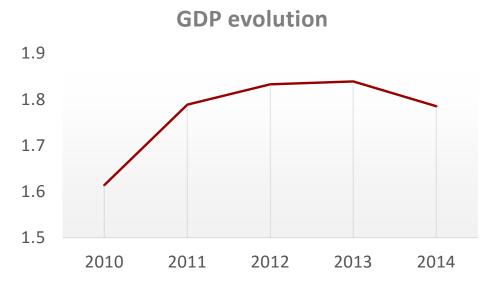
3.4 People/km2 vs World 49 People/Km2



2.29 % of the World GDP



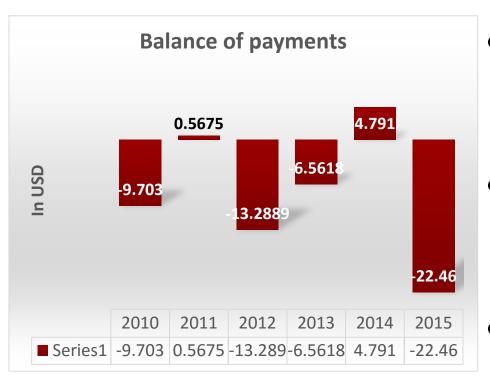
Canadian GDP



 GDP 1.472 trillion USD

- 10th in the World
- (2005-2015) + 35% vs World at + 45%
- 20th for GDP per capita

Trade Balance



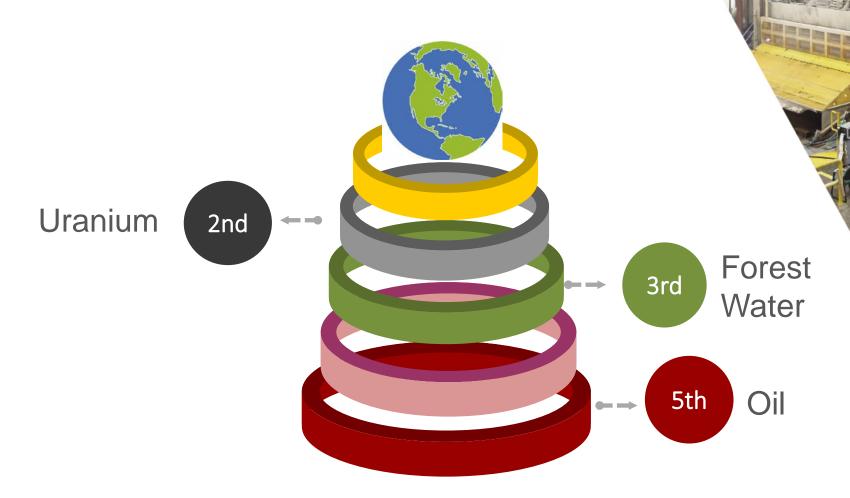
- Negative trade balance of \$22 billion in 2015
- Positive trade balance of \$62 billion in 2005
- Still positive with USA at \$34 billion in 2015

Forest industry in Canada

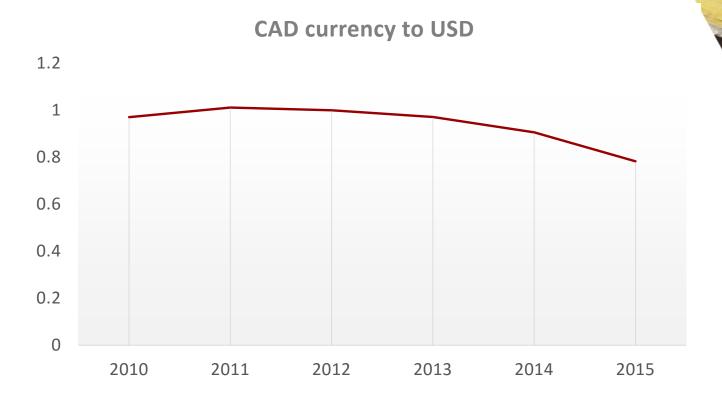
- In 2013 Canadian forest is 1.25% of GDP
- Revenue of 19,8 billion CAD
- Forests are 45% of Canada's surface
- 348 million hectares of forest
- 9% of world forest



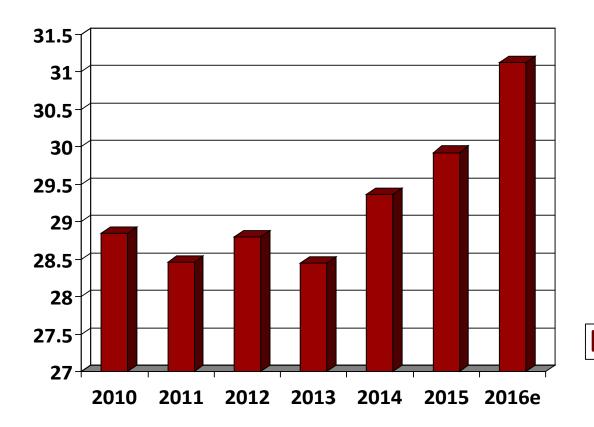
Natural resources production



Currency history



Canadian box shipments





Million Square Feet

Canadian box market

- 1. Canadian box shipments (2013-2015)
 - **+**5.2%
- 2. US box shipments (2013-2015)
 - **+** 2.4%
- Increased box shipments to USA due to low Canadian dollar



Containerboard Mills in Canada

- 1. 5 Companies
- 2. 11 mills with capacity of 2.186 million tons per year
- 3. 11 machines with average trim of 171 inches
- 4. 7 recycled machines
- 5. 3 semi-chem medium machines
- 6. 1 Virgin Kraft white top machine



Containerboard Market **Evolution**

5 Integrated companies

85% integration

53 corrugators

12 Independents

20 containerboard machines

3.274 million tons

5 Integrated companies 99% integration 39 corrugators 7 independents

11 containerboard machines

2.186 million tons

2016

6 Integrated companies

113% integration

2011

45 corrugators

10 independents

13 containerboard machines

2.172 million tons

Containerboard industry changes since 2011

2011 2012

Cascades
Containerboard
shutdown Burnaby,
BC

WestRock shutdown Matane, QC mill Minas Basin shutdown Hantsport, NS 2013

Atlantic Packaging converted a recycled newsprint machine to containerboard in Whitby, ON

People

ENTREPRENEURSHIP

Is the greatest characteristic of the leaders of the Canadian containerboard industry







The next generation of recycled linerboard

Change of mentality

Access to new technology

Sustainability

What is needed to achieve the goal?

user looking for?

End user

Box manufacturer

What is the end

To produce at lowest cost

while maintaining the

quality to perform.

To find a substrate which can optimize the performance of the box through a new concept called **Rightweighting.**

What is Rightweighting !

It's about continued Fiber reduction not less strength.

Takes new technology to deliver improved production options.

It's about forward thinking to create new linerboard grades for a proliferation of newer flute types

What is Rightweighting !

It's about meeting the need for smart alternatives for developing packaging for e-commerce, retail and shelf ready packaging and for design cartons.

It's about monitoring additional physical properties of linerboard.

Corrugated technology, zero crush converting and digital imaging have been waiting for advanced containerboard products to fill the need for right weight packaging.

Rightweighting, its origin

- 1. Started in 2000's, European containerboard producers decided to invest in new technology to produce lightweight linerboard. Over 30 new machines were built in Europe since.
- Unfortunately the North America containerboard industry did not follow the trend and very few investments were made to adapt paper machines to offer lightweight containerboard grades.

Easy to understand

- 1. North America has 143 containerboard machines.
- 2. Median age 41 year old.
- 3. Median technology age 19 year old.

Why would they push for lightweight



You Snooze, You Lose

- 1. Cars (Performance)
- 2. Web shopping (time saver)
- 3. Newspapers (Video and direct access)
- 4. Depot stores (Lower prices)
- 5. Lightweighting (Packaging optimization)



Canadian producers take the lead

3 of the last 5 containerboard projects were from Canadian producers.



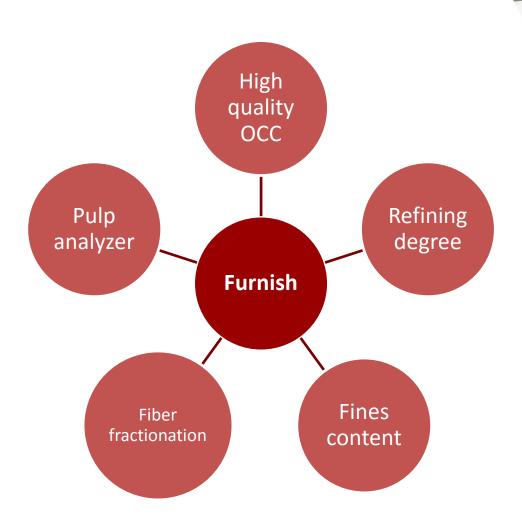


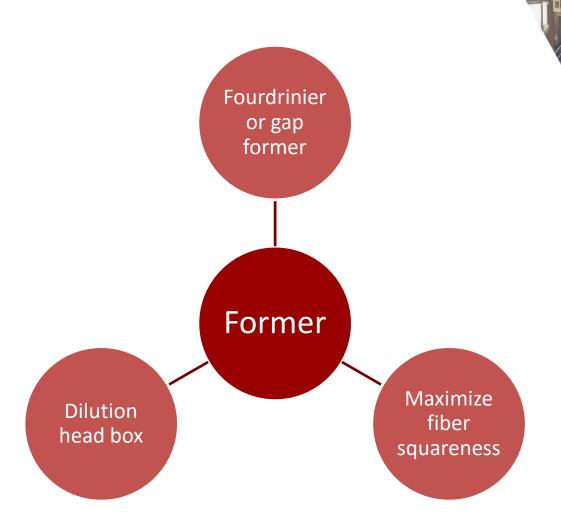


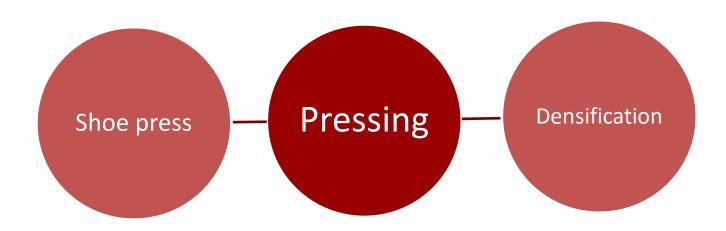
What is that new technology !

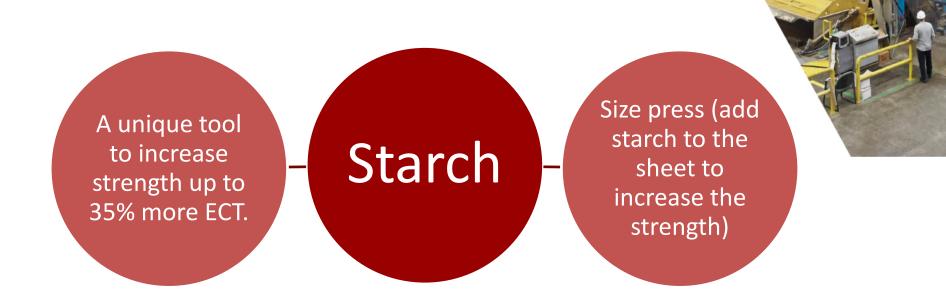
The new generation of linerboard paper machines are designed to build compressive strength to obtain the highest STFI (SCT) per basis weight.

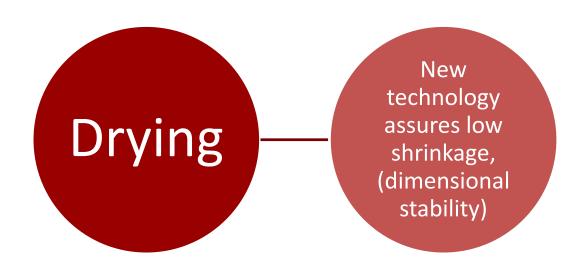


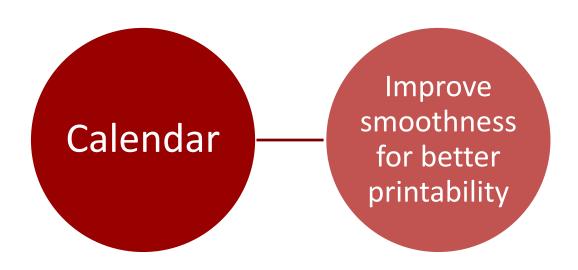








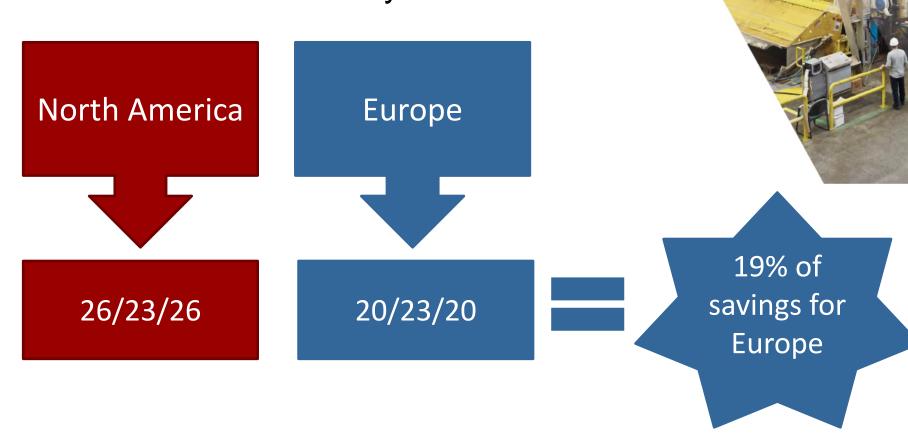






Box producer benefits

Board combination today for 25 ECT:



Fiber reduction

	Linerboard	Medium
North America	31/35 lbs	33 lbs
Europe	20.5 lbs	18 lbs

New market opportunities



Folding boxboard (micro flutes)

Retail ready packaging (forecasted increase 5.2% annually)

Key takeaways

- 1. New capacity and technology towards lightweight
- 2. Rightweighting is here
- 3. Basis weight is no longer an indicator of strength
- 4. Finally available in North America, driven by Canadian entrepreneurs.





THANK YOU!

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