

Canada

Natural Resources **Ressources naturelles** Canada



## Canada's 9%: **Innovating and Adding Value to** our Forest Biomass



Scaling Up November 5th, 2019

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# Canada's forests advantage

Source: National Forest Inventory

## 347M hectares, 9% of the world's forests

- 49% of total forest cover in Canada are certified sustainably manages , which represents 36% of the world's total
- <1% of Canada's forests are harvested each year
- 9% of the world's forest product trade

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- 300 communities reliant on forests
- 20Mt CO2e removed by managed forests and products

2016 - Forests and the bioeconomy: a basis for a sustainable economy at our finger tips

"The Canadian forest industry has transformed itself into one of the most innovative parts of our economy."

TEXTILE **BIOPLASTICS** LUMBER & FIBREMATS WOOD  $\widehat{\mathbb{A}}$ PRODUCTS BIOBASED CHEMICALS& TRANSPORTATION MATERIALS FUELS PAPER & []≡ PACKAGING 111 HEAT

*The Honourable James Carr, Minister of Natural Resources,* 2016

Bioeconomy includes economic activities based on living systems and the conversion of biomass

## 2017 - A federal, provincial, and territorial commitment - Forest Bioeconomy Framework for Canada

## A Forest Bioeconomy Framework for Canada



### Canada will be a global leader in the use of sustainable forest biomass as part of the transition to a low carbon economy.

CCFM Forest Bioeconomy Framework for Canada (2017)









Innovation

Communities

## NRCan-CFS continued support to the forest sector supply chain: 5 from foundational research to solution deployment



Kwadacha First Nation Bioenergy plant

Nanocrystalline Cellulose



## 2018-19 - Forest Bioeconomy: Recognized as a source of solutions for Government of Canada initiatives

#### Funding Platforms for Clean Growth

- Low Carbon Economy Fund
- Sustainable Technology Development Canada Fund
- Green Infrastructure
- Strategic Innovation Fund
- Green Construction through
  Wood

#### Energy Transition

- Carbon Pricing
- Clean Fuel Standard
- Clean Energy for Rural and Remote Communities



#### **Inclusive Growth**

- Indigenous Forestry Initiative
- Forêt en valeur (Quebec and Labrador

#### Greening Government Operations

- Innovative Solutions Canada (e.g. Compostable Bioplastic Challenge)
- Greening Government Strategy (e.g. zero emissions vehicles and clean energy)

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## Looking ahead: Transforming challenges into opportunities

## A new business environment for the forest sector

- Structural shifts
- Changing trade context
- Growing fibre supply challenge

237Mt

## Global Newsprint production

38,8Mt

20,5Mt

2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018

175Mt

## Global Packaging production

2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018

## 2020 - onward: Improve competitiveness with bioeconomy investments

Bioeconomy represents key diversification and value-added opportunities

- To address fibre supply challenges,
- To create new revenue streams
- To generate more value
- To expand markets and decrease trade vulnerabilities



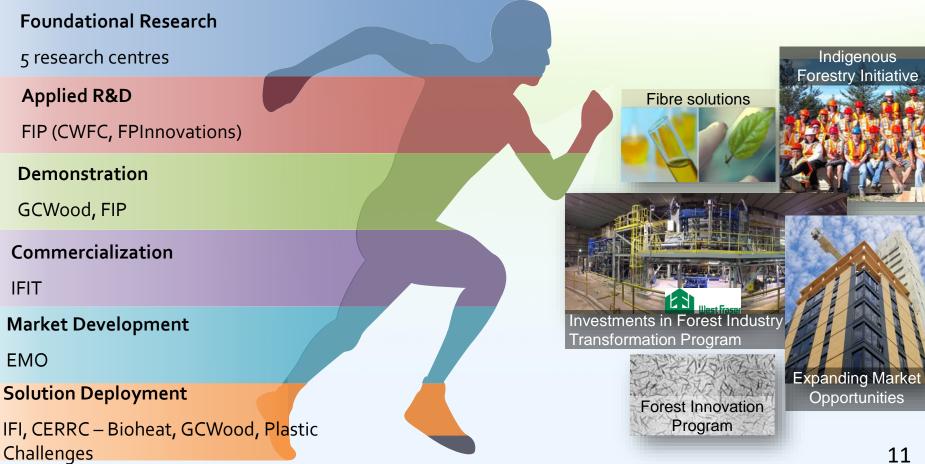
## 2020 - onward: seize new opportunities with the circular bioeconomy

- Increase material efficiency in forest sector
- Provide low- or no-waste alternatives for non-renewable resources, including fossil fuels
- Accelerate Canada's transition to a clean energy future
- Reduces GHG emissions and fight climate change



Graphic Packaging International Investor Day Presentation (September 2019), RBC Capital Markets

## Forest sector competitiveness programs 2020 launch



## Thank you!

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