



Government  
of Canada

Gouvernement  
du Canada

# The Canadian Forest Service & Canada's Forest Sector

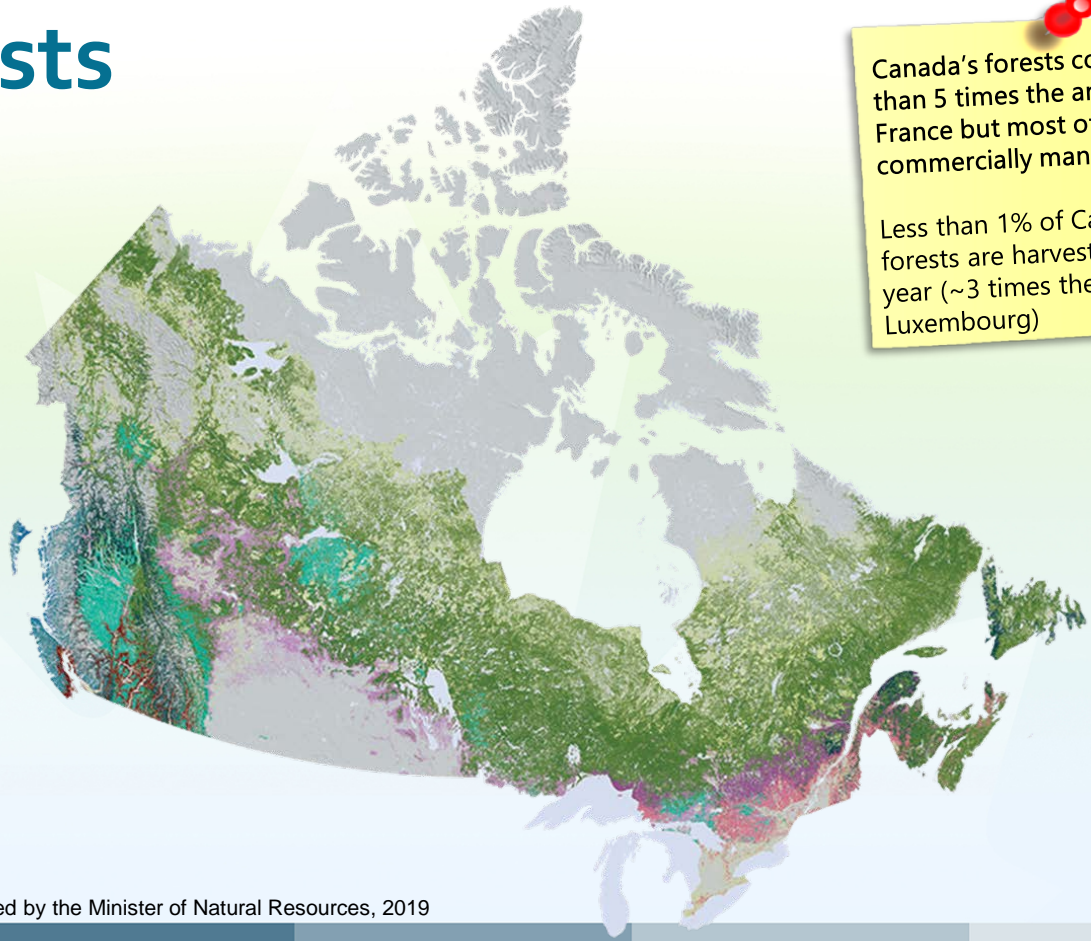
*Rising to the Opportunity of the Bioeconomy*

25 April, 2019

John Kozij  
Director General  
Canadian Forest Service  
Natural Resources Canada

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# Canada's forests



Canada's forests cover more than 5 times the area of France but most of it is not commercially managed.

Less than 1% of Canada's forests are harvested each year (~3 times the area of Luxembourg)

**9%**  
of the world's forests (24% of the boreal)

**35%**  
of Canada is forested. About 90% owned by provinces

**Removed 20 Mt CO<sub>2</sub>e in 2016**

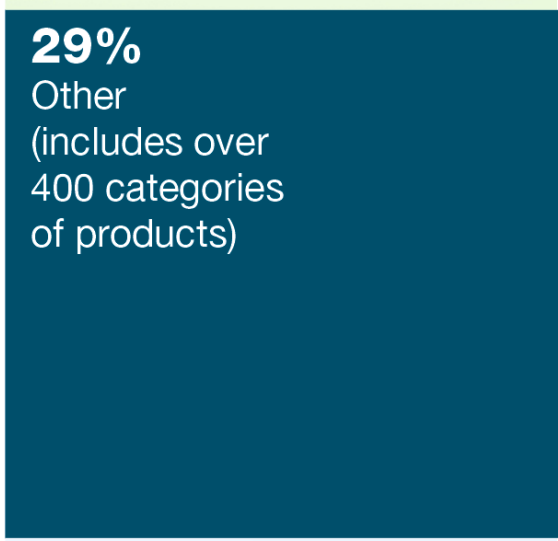
**300 communities** reliant on forests

Sources: National Forest Inventory;  
State of Forest Report

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# Lumber and pulp remain the foundation of the forest sector, but non-traditional forest products are growing in importance

## EXPORTS OF CANADIAN FOREST PRODUCTS (2017)



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# Sustainable Forest Management

## Canadian Certification in the Global Context

2017 Year-end



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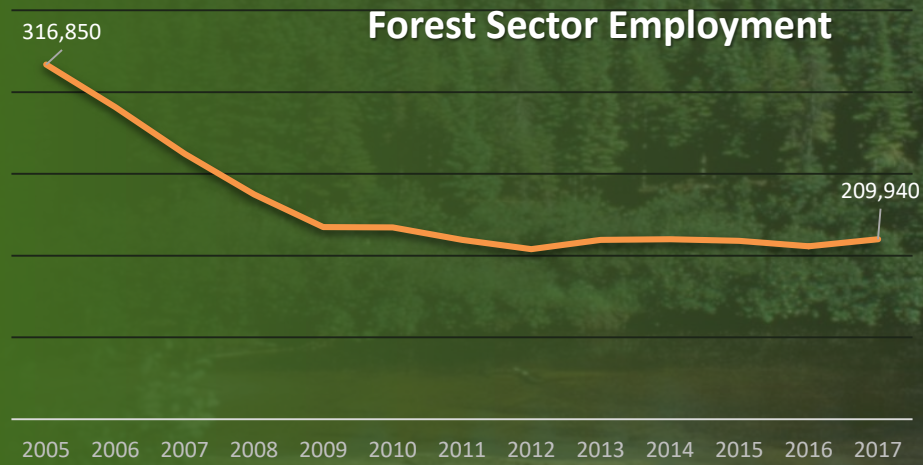
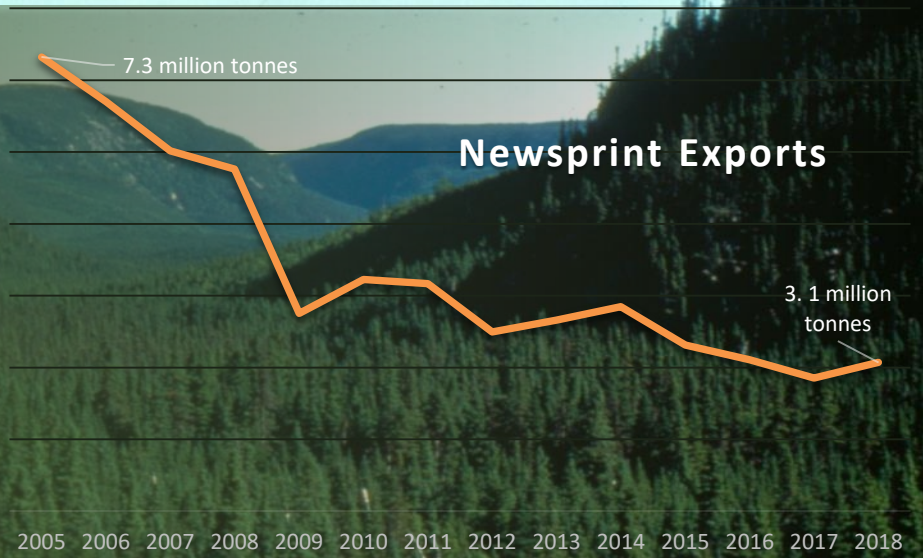
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# A new business environment for the forest sector

- Structural shifts
- Challenges to overcome
- New opportunities



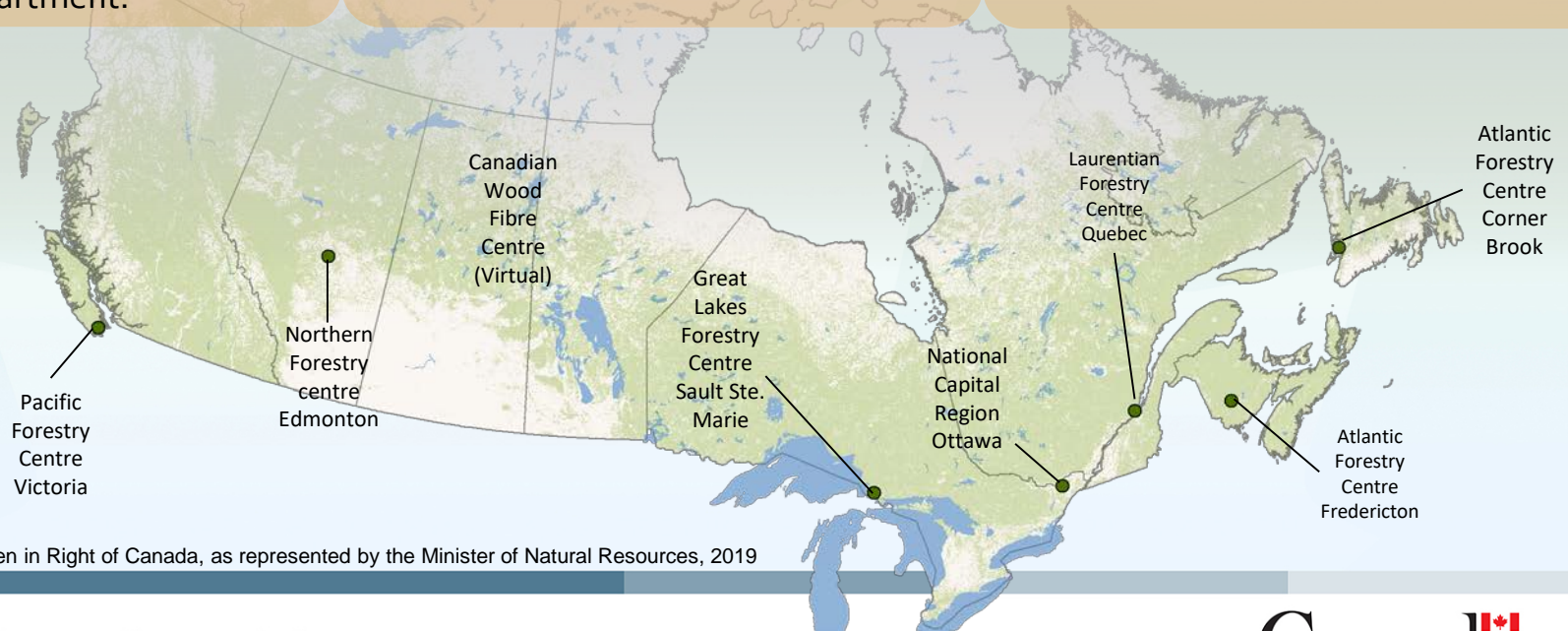
6% of forest sector employees are Indigenous

# The Canadian Forest Service (CFS)

The Dominion Forest service was established in 1899 - now part of Natural Resources Canada - a science-based economic department.

The CFS is a national network of regional centres, built on over a century of science, working to advance your issues.

Our priorities: science to support forest health and sustainability; innovation; creating jobs; expanding markets; addressing trade disputes.



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# Supporting the forest bioeconomy across the supply chain

*from fibre baskets to markets*



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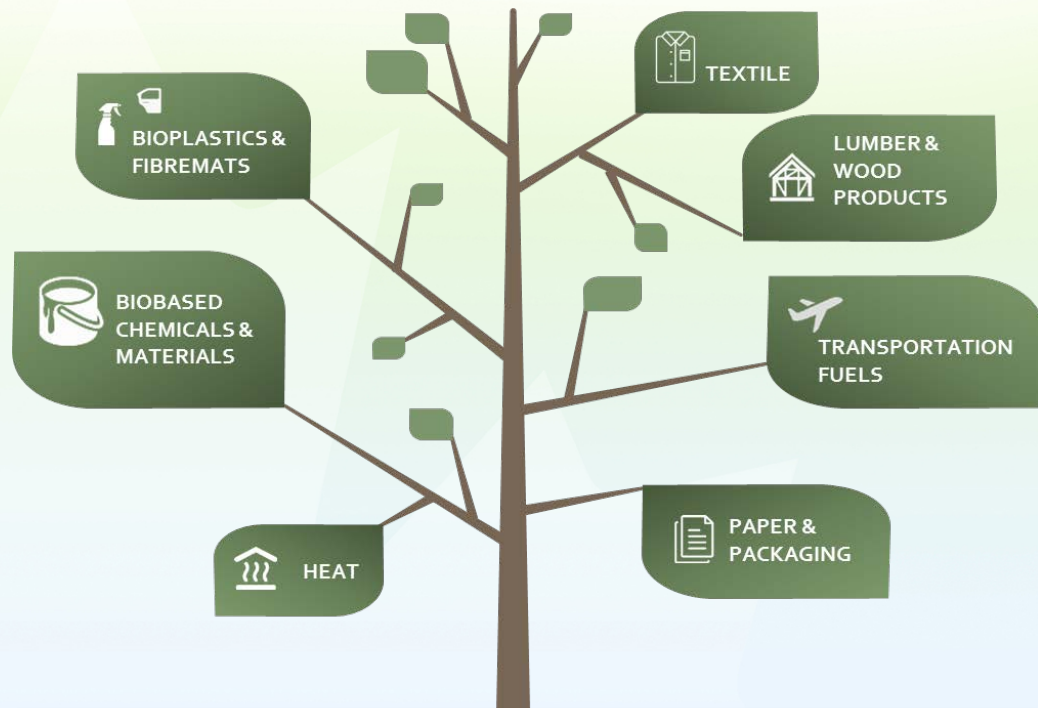
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# Forest bioeconomy: a growing opportunity

- Increases competitiveness, efficiency, value-added for forest products
- Provides rural development opportunities and jobs
- Provides low- or no-waste alternatives for non-renewable resources, including fossil fuels
- Accelerates Canada's transition to a clean energy future
- Reduces GHG emissions and fights climate change
- Can it reconcile tension between ecosystem conservation & jobs through intensification?



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



# Bioeconomy-related Government of Canada initiatives



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# Accelerating bioeconomy deployment internationally



INTERNATIONAL  
BIOECONOMY  
FORUM



Flexible multilateral mechanism where global partners act on common thematic challenges in research and innovation, and policy alignment related to the bioeconomy.



Second Plenary May 27 & 28, 2019 Vancouver

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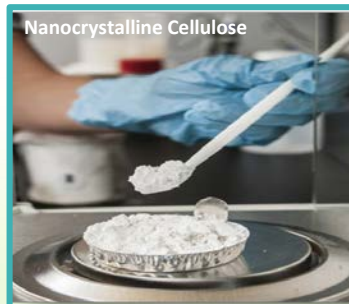


# Early Results



# Results to date

- Mature innovation ecosystem
  - R&D of new products and new technologies, nanocellulose research cluster
- Commercializing innovative products and systems, and development of standards (ISO, CSA) for new bioproducts
- Growth of low-carbon construction
  - tall wood buildings, low-rise residential and non residential, revisions to the National Building Code (2020), and infrastructure (bridges)
- Growth in biomass use
  - transition to low-carbon fuel, forest biomass to reduce reliance on diesel, Clean Fuel Standard regulations
- Growing Indigenous participation in forest sector



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A photograph of a dense forest with a thick carpet of bright green moss on the ground. The trees are tall and thin, with some evergreen branches visible in the foreground. A semi-transparent dark green rectangular box is overlaid on the center of the image, containing the text "What is next?".

What is next?

# 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)*



Communities



Supply



Demand



Innovation

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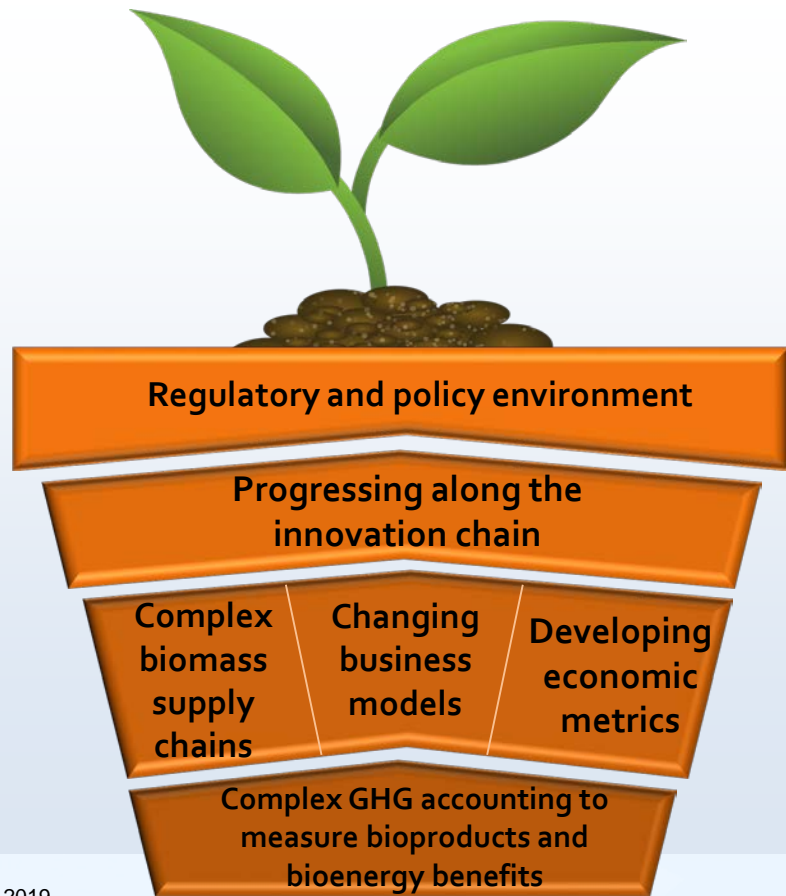
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# Full potential of forest bioeconomy not yet realized



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# Positioning For 2030 and beyond: Investing In The Forest Sector Of The Future

## Circular economy and reducing waste

- Make more with less, including higher value-added
- Reduce waste through design, using durable materials, and recycling
- Support recovery businesses
- Pursue opportunities in international trade

## Climate Change

- Maximize forest and forest product carbon storage potential
- Invest in knowledge and tools to increase adaptation and resilience
- Fire Smart Communities
- Large-scale deployment of low-carbon solutions
- Foster private sector investments and technology adoption

## Biodiversity and ecosystems

- Invest in prevention and detection tools for invasive species
- Encourage landscape-level resource development
- Foster citizen engagement and awareness

## Big data, technology and automation

- Promote open data
- Support autonomous vehicles and automation like LiDAR
- Support re-training for clean tech and other high-skilled jobs

## Indigenous reconciliation

- Co-develop strategies with Indigenous partners
- Raise internal awareness and provide training
- Facilitate inclusion of Indigenous knowledge across CFS
- Build trust through continuous engagement

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# Thank you!

John Kozij  
Director General  
Canadian Forest Service  
Natural Resources Canada  
[john.kozij@canada.ca](mailto:john.kozij@canada.ca)





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# Forest products in the bioeconomy value chain

