

## ORGANIZATIONAL OVERVIEW & NETWORK DEVELOPMENT

Using Collaboration to Enable Innovation & Competitiveness

# **CRIBE HISTORY**

Formed in 2009 with initial 4 year mandate and funding commitment; mandate extended annually.

Catalyst for commercialization of research and innovation.

Focus on new products, processes, jobs and businesses using forest biomass.

Small lean organization with a senior experienced Board of Directors.

Project funding support up to 50% of project.

Close coordination with other research organizations.





- **)** Fund **applied research**, **development and commercialization projects/partnerships** related to the innovative use of forest biomass;
- ) Coordinate and communicate strategically important knowledge and resources on how to navigate the innovation, entrepreneurship, marketing and export pathways in the bioeconomy technologies sectors;
- ) Facilitate innovative applied research and development that leads to the creation of products and processes that creates higher value commercial uses for the Province of Ontario's forestry resources;
- ) Accelerate commercialization by facilitating the creation and advancement of emerging companies;

**)** Establish a strong **network of collaborations** across the sector.



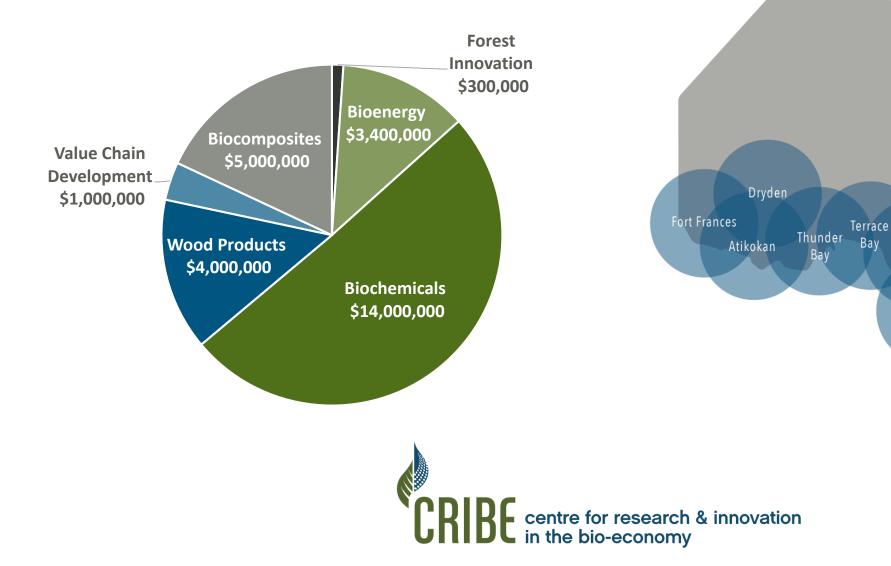
# A QUICK GEOGRAPHY LESSON!

> Size of Ontario	1,076,395 km <sup>2</sup>
> Population	13 500 000
<b>&gt;</b> Total GDP	\$763 billion
> Per Capita	\$55,322
> Forest Area	71.1 million hectares
Area of Undertaking	45 million hectares
> Forest Industry GDP	\$15.3 billion
> Value of Forest Product Export	ts \$6.63 billion
> Merchantable Timber Harvest	ted 14.7 million $m^3$



**CRIBE** centre for research & innovation in the bio-economy

# **OUR INVESTMENTS AT WORK**



Renfrew

Haliburton

White

River

Sault Ste.

Marie

New Liskeard

Vaughan Woodbridge Concord

Sudbury

Sarnia Cambridge Chatham



## WHY THUNDER BAY?

A primary pillar of CRIBE's original mandate was to support Thunder Bay to become a 'bio-economy cluster'

CRIBE investment over \$12 million <u>directly</u> in Thunder Bay based projects; leveraging over \$46.8 million in investments;

> FPInnovations BETC and 2 pilot plant facilities

> Support to LU (BRI, Natural Resource Management, Chemical Engineering)

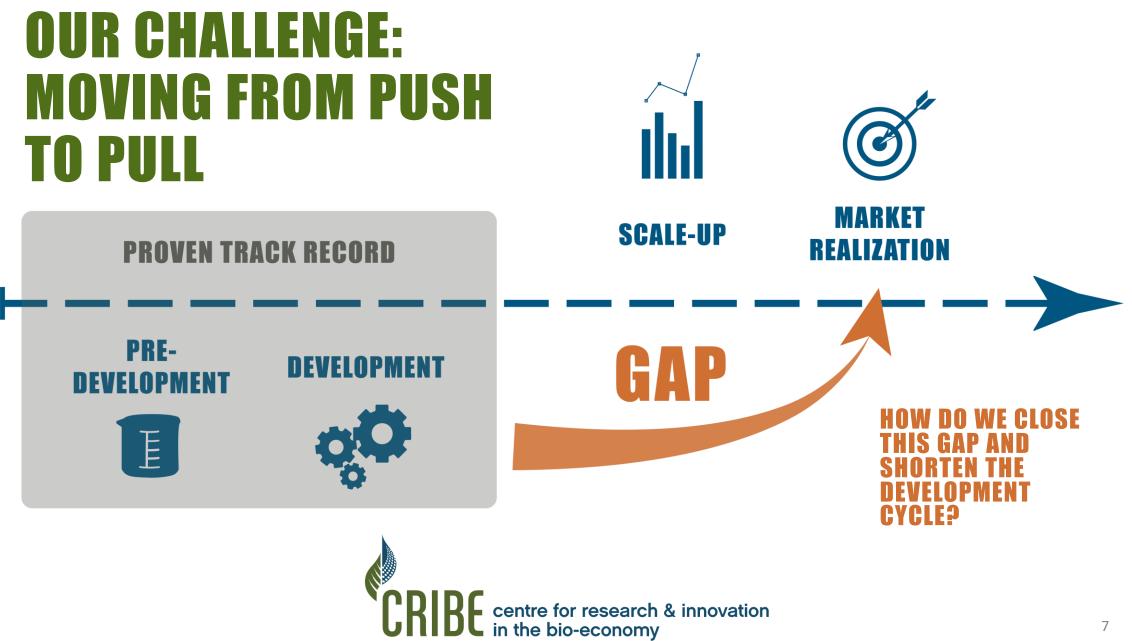
> Support to Confederation College (Biomass Learning and Research Centre)

**)** SME support

Major Primary and Secondary Industry; Transportation Infrastructure;

Highly Qualified People and Services;





# THE NEED TO CHANGE DIRECTION....

In 2018 CRIBE undertook extensive benchmarking nationally/internationally, engaging well over 125 government, research, & industry stakeholders, including three lignin value chain workshops and three cluster workshops

## CONSENSUS = BUSINESS AS USUAL ISN'T WORKING......

) What we heard....there is a clear need for:

- > Information sharing & collaboration along value chain
- > Improved understanding of customer needs across value chain
- **> Targeted interactions** around key issues

**>** Support mechanisms to **overcome scaling-up challenges** 



**Bi**<sup>®</sup>Design

Alignment

# nextfor

Industry leaders working together to accelerate new technologies & products for Ontario's Forest Bio-Economy. CRIBE has launched a new Ontario forest-based innovation network

The network will consist of a system of open collaboration forums focused on targeted value chains

) This ecosystem of industry leaders will work together to create innovation roadmaps

> Funding challenges to support market realization

# nextfor collaboration forums

Given the current state of industry in Ontario, we have identified three target areas for intentional collaboration:

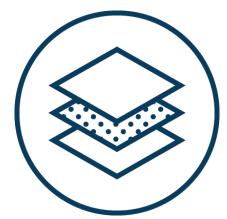
#### **Forest Innovation**

High-Performance Lignin-Based Products

### **Biocomposites**











# **COLLABORATION FRAMEWORK**

Forums define opportunities & barriers that need to be addressed



Roadmap clear goals & actions

3.

1

Identify necessary projects & partners; track progress with public results

Funding (if available) will be provided to address barriers & develop market-based outcomes

# LIGNIN FORUM - VOICE OF THE VALUE CHAIN



# SHARED COLLABORATION ECOSYSTEMS ARE ESSENTIAL!

Creating an effective feedback loop through the value chain is critical - shared collaboration is a great tool to achieve this!



# **CHALLENGES/OPPORTUNITIES**

Coalesce Thunder Bay Cluster...

Primary industry know business as usual isn't working - keen to collaborate.....how do we maintain engagement?

>End user engagement – how do we do it?

How to transform ideas/innovation into tangible economic development and investments?

