



Advancing the Bioeconomy in BC and Beyond

Zak Miko
May 22nd, 2025 at Future of Forestry
Think Tank

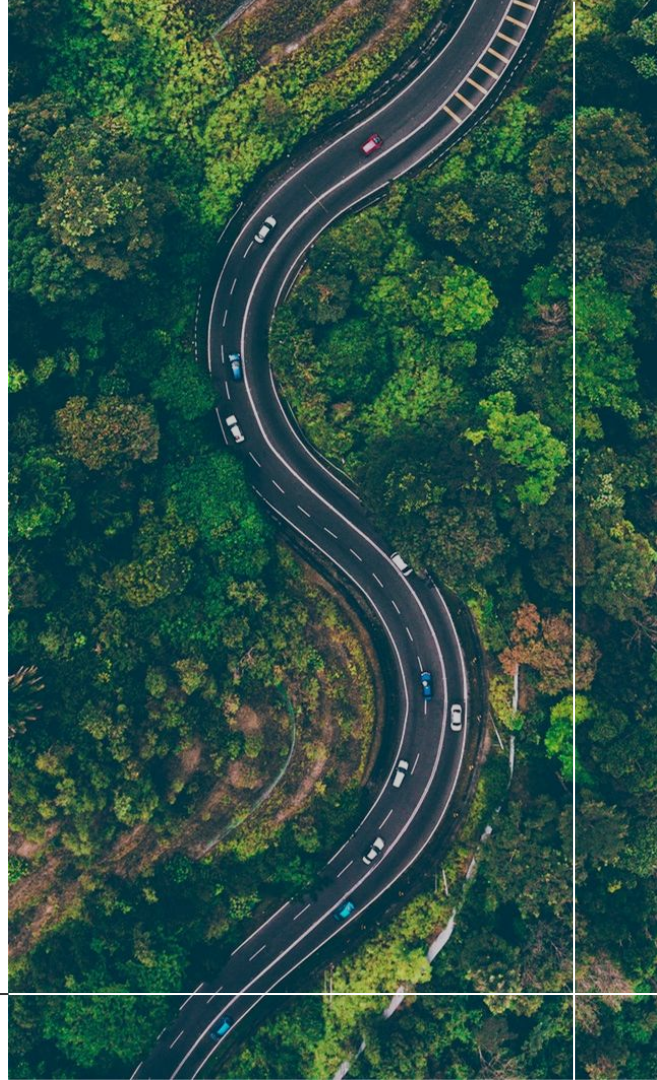
F  **RESIGHT**

bio **NEXT**

With **gratitude and respect**, we
acknowledge that the lands on which we
are gathered are the traditional, ancestral,
and unceded territories of the Dakelh,
Lhtako, Ulkatcho, Lhoosk'uz, Nazko,
Tsilhqot'in, ?Esdilagh First Nations.

Topics

1. Who is Foresight Canada?
2. Acceleration: bioNEXT
3. Research: Ventures to Value Chains
4. BC Net Zero Innovation Network (BCNZIN)
5. What Can We Do Better?



Canada's Largest Cleantech **Network**

1,430+

Canadian Cleantech
Companies

250+

Global Cleantech
EIRs and Mentors

400

Private Capital
Partners

1,500

National & Global
Partners

15,000

Cleantech Community
Members

25,000

Curated Climate
Connections



We help the world do more with less, sustainably.

By fostering collaboration, breaking down silos, and delivering action-oriented supports, we accelerate Canada's clean technology innovation, adoption, and export growth.

Venture Acceleration

Proven programming to commercialize and scale problem-driven ventures.



Adoption Acceleration

Capacity building for research, technology scouting, pilot planning, and impact reporting.



Capital Networks

Diverse, integrated networks that leverage resources and deploy capital.



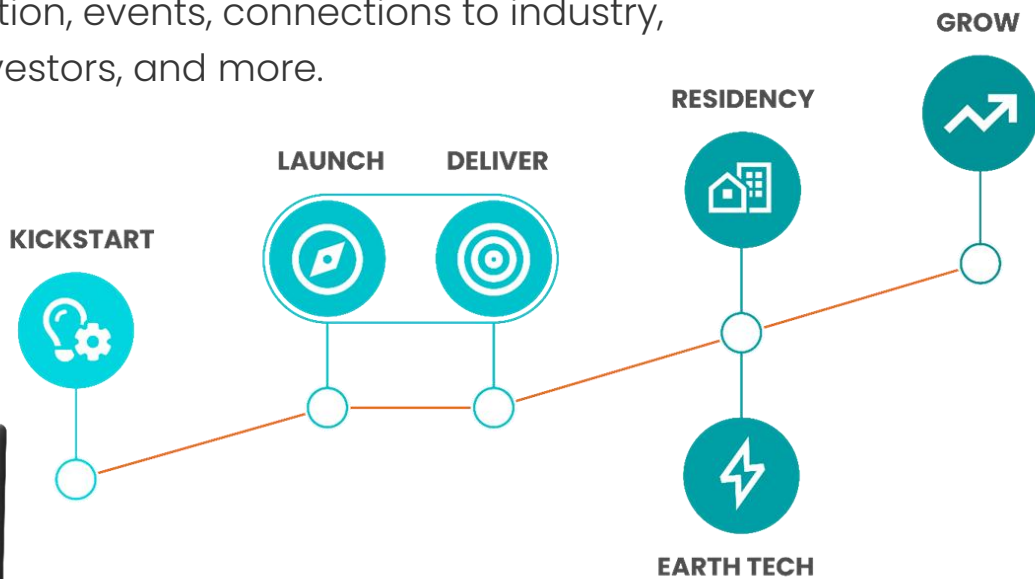
Strategic Insights

Shared tools, resources, and databases that make it easy to buy and sell solutions.



We **support** innovators at every stage of their growth.


Through training, access to mentors and Executives in Residence (EIRs), export promotion, events, connections to industry, government and investors, and more.



Elective Programming

-  Investor Readiness
-  Pilot
-  Governance
-  Access to Capital

Sector Programming

-  agriNEXT
-  bioNEXT
-  buildNEXT
-  carbonNEXT
-  powerNEXT
-  waterNEXT

Canada's Bioeconomy Opportunity



Circular bioeconomy estimated to be a **\$USD 7.7 trillion** opportunity by 2030



Canada can elevate competitive advantages in forest products and agriculture



Harness innovation ecosystem to create thriving markets for bioproducts



We support the development of leading bioeconomy technologies through...



Industry sessions around technology needs and market trends



Investor matchmaking and pitch events



B2B matchmaking and networking events



EIR 1:1 time (15 hours per venture)



Sector-specific training and mentorship



Industry Innovation Challenges: Funding, pilot opportunities





bioNEXT introduced us to fellow emerging Bio-Economy startups, brought market leaders to our forum to share insights and opportunities, and provided us with a roadmap of strategic financing strategies.

— **Benemat Scientific**

Out of any seminar series I participated in, bioNEXT brought amazing speakers that were highly relevant to my venture space. The speakers were also very informative, gave practical advice, and were open to meeting. Thank you Foresight and the bioNEXT team.

— **BryoSphere Biotechnologies**

We're proud of our impact.

Since 2022, our work has led to...

4

Cohorts

58

Companies Accelerated

5

Innovation Challenges

Our 58 accelerated companies
have reported the following impact:

\$5.1M

Revenue Generated

\$75.8M

In Capital Support

220+

Green Jobs



NULIFE GreenTech

Zero Waste Solutions

NULIFE's patented HydroThermal Liquefaction (HTL) process uses heat, water, and pressure to transform wet, industrial waste into renewable bio-crude and biochar.

- Over 290 million tons of high-moisture industrial waste is produced annually in North America across multiple industries, which must be processed.
 - Their modular and scalable process has successfully processed sewage sludge, food waste, agriculture waste, and pulp and paper waste.
- NULIFE is operating a 4,500 ft² pilot facility, processing 1 tonne/day.
- They are currently attracting more volume than capacity with minimal dedicated sales efforts.
 - Traction and growth potential has been increasing across North America, including the West Coast, Saskatchewan and New York.
- NULIFE owns all of its IP, with two patents granted and four pending.



Saskatoon, Saskatchewan



nulifegreentech.com

Target Markets:

- Waste Management
- AgriTech
- Renewable Gas/Biofuels
- Carbon Removal

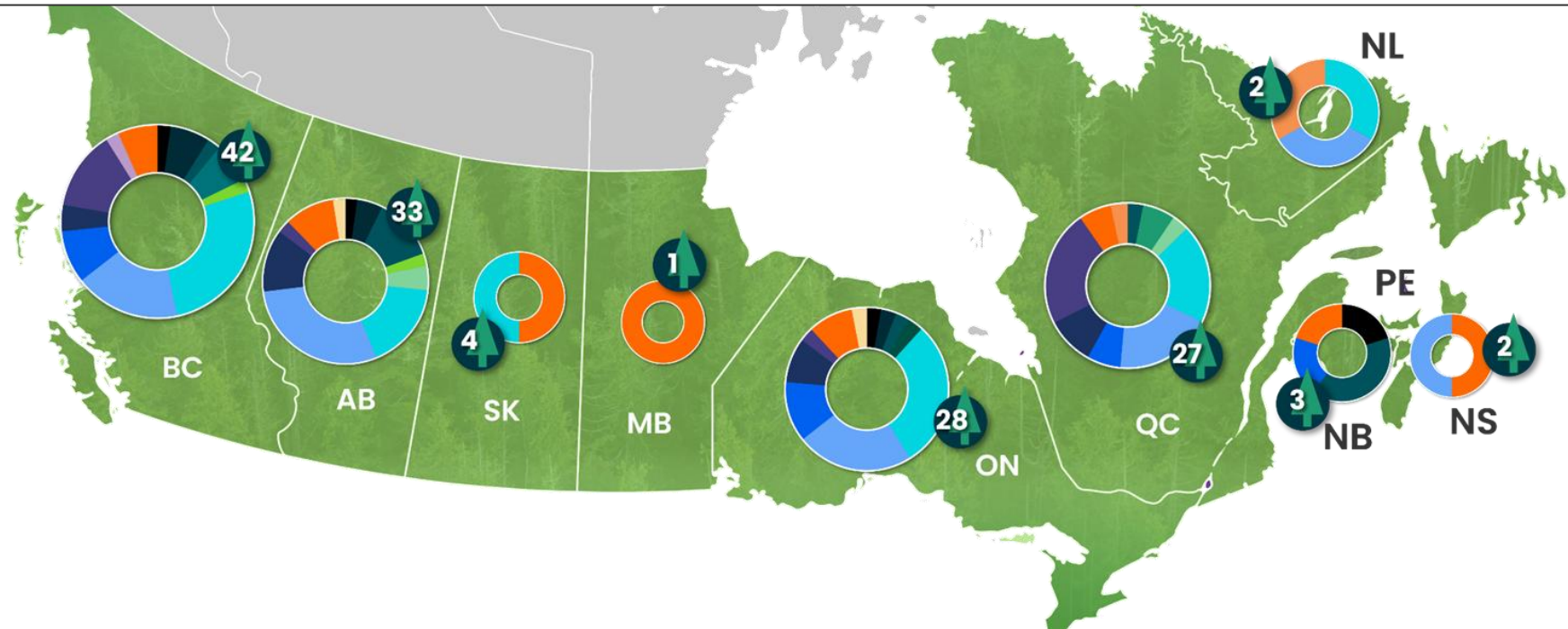
Leadership:

Jerry Kristian, Co-founder
Brock Eidem, Co-founder
Stephanie Wright, CFO

Acceleration Programs:

- Foresight Accelerate from Anywhere
- Cascadia, Canadian Trade Commissions' CTA program

**Leveraging industry knowledge, data,
and research, we mapped and analyzed
Canada's bioeconomy value chain.**



The future of Canadian Bioeconomy Innovation–Collaboration

We work with stakeholders across the forest bioeconomy sector to increase the adoption of solutions that lower our carbon footprint and position Canada as a world leader in a low-carbon, global economy.

- **Innovators**
- **Industry Adopters**
- **Investors**
- **Indigenous**
- **Government**
- **Academia**

Our purpose is to enable BC to reach 40% GHG reduction targets by 2030 by accelerating the development and adoption of net zero and other clean technologies through programming, projects, and broad ecosystem development.



Pacific Economic
Development Canada

Développement économique
Canada pour le Pacifique

Canada



BRITISH
COLUMBIA

Forest Bioeconomy Clusters



BC Pulp and Paper Coalition

- Lignin Opportunities: end uses, markets, technologies, and potential BC sites – Phase 1 and 2
- Carbon Monetization and Fibre Utilization



Quesnel City and 3 Rivers Community Forest

- BDO Zone Risk Rating
- Alternative Harvester Program
- Quesnel Lignin Facility Feasibility
- Southern Interior Slash Bundling Pilot



Wildfire Risk Reduction

- Tree Track-Tree Canada-Lil'wat First Nation Seed pod Tech Planting Trial
- Innovatree-Salmon Parks-Kisik- Virtual LiDAR Wildfire Planning



Wood Fibre Insulation Manufacturing

- Plantee and YLP
- Logan Ashley and Yunesit'in First Nations
- Rohe Homes



Integrated Networks

BC NET ZERO
INNOVATION NETWORK



BC Pulp & Paper Coalition



Three Rivers
Community Forest



DUMA



BC Pulp & Paper
BIO-ALLIANCE





What can we do better in BC?

- ❑ For REAL TRANSFORMATION that enables us to reach our goals around net zero, GHG reduction and competitiveness

Break Down Silos – Faster Decision Making

- Between and within departments, industry groups, research, and indigenous groups
- Its about fibre utilization, wildfire management, active forest management, GHG reduction, rural communities,

Commit to More Collaboration

- Policy: Provincial/federal forest, climate, energy, economic
- Projects: Clusters; supply chain, national, international

Fast Track Fibre Security and Supply Solutions

- Quick wins and long-term solutions for: primary, secondary, and new users around a goal of 45 M m3, utilization of harvest and manufacturing residuals

Align on Transition Strategies and Outcomes

- Vision, strategies, goals, frameworks, funding, outcomes
- Aspirational goals important when higher levels of performance and innovation required

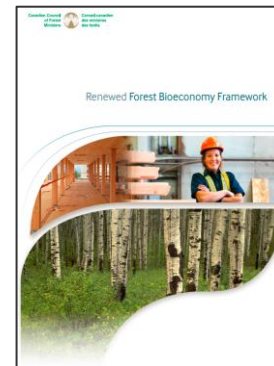
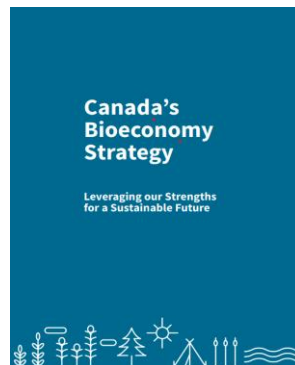
Bioeconomy Frameworks and Strategies



Over 30 countries have adopted national Bioeconomy Strategies.



In 2017, BIC, FPAC, FP Innovations, and BioTech Canada led a cross Canada consultation effort to encourage adoption of a national Bioeconomy Strategy. To date: we have a Forest Bioeconomy Framework.



The EU has begun consultation on their next Bioeconomy Strategy, following 2012 and 2018 versions – , due for adoption by the end of 2025 – aims to advance innovation and maintain the EU's leadership in the bioeconomy. Ties into EU Clean Industrial Deal.





Forest Bioeconomy Team

Learn more:

foresightcac.com

THANK YOU



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