

TRAINING THE NEXT GENERATION WORKFORCE FOR QUESNEL

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FOREST
ACTION
LAB UBC



THE CHAT GPT SOLUTION:

What does Quesnel BC, Canada need to do to train the next generation workforce in forestry?

A multi-pronged approach should be taken that involves collaboration between government, educational institutions, industry partners, and local communities.



- Develop forestry-focused curriculum: **Integrate forestry-related subjects in primary, secondary, and post-secondary education**
- Establish training programs: **Partner with educational institutions, industry, and government agencies to create vocational and technical training programs tailored to the specific needs of the forestry sector in Quesnel.**
- Encourage experiential learning: **Promote internships, apprenticeships, and co-op programs with local forestry companies to provide hands-on experience and expose students to the real-world challenges and opportunities in the industry.**

THE CHAT GPT SOLUTION:

- **Provide incentives:** Offer scholarships, bursaries, or grants to students pursuing forestry-related education, especially those from underrepresented groups, to encourage more people to join the sector.
- Invest in research and innovation
- Promote awareness
- Strengthen industry partnerships
- Emphasize soft skills
- Support lifelong learning
- Focus on **sustainability:** Promote sustainable forest management practices and emphasize the importance of environmental stewardship in all forestry-related education and training programs.



INDUSTRY 4.0



Digitalization

Datafication creates unlimited information

INDUSTRY 5.0



Human-machine collaborations

Well-being of the multiple stakeholders (i.e., society, companies, employees, customers).



Source: Skogforsk



Source: John Deere





Source: Skogforsk



Source: Skogforsk

HOW TO RETAIN THE WORKFORCE?

Provide perspective



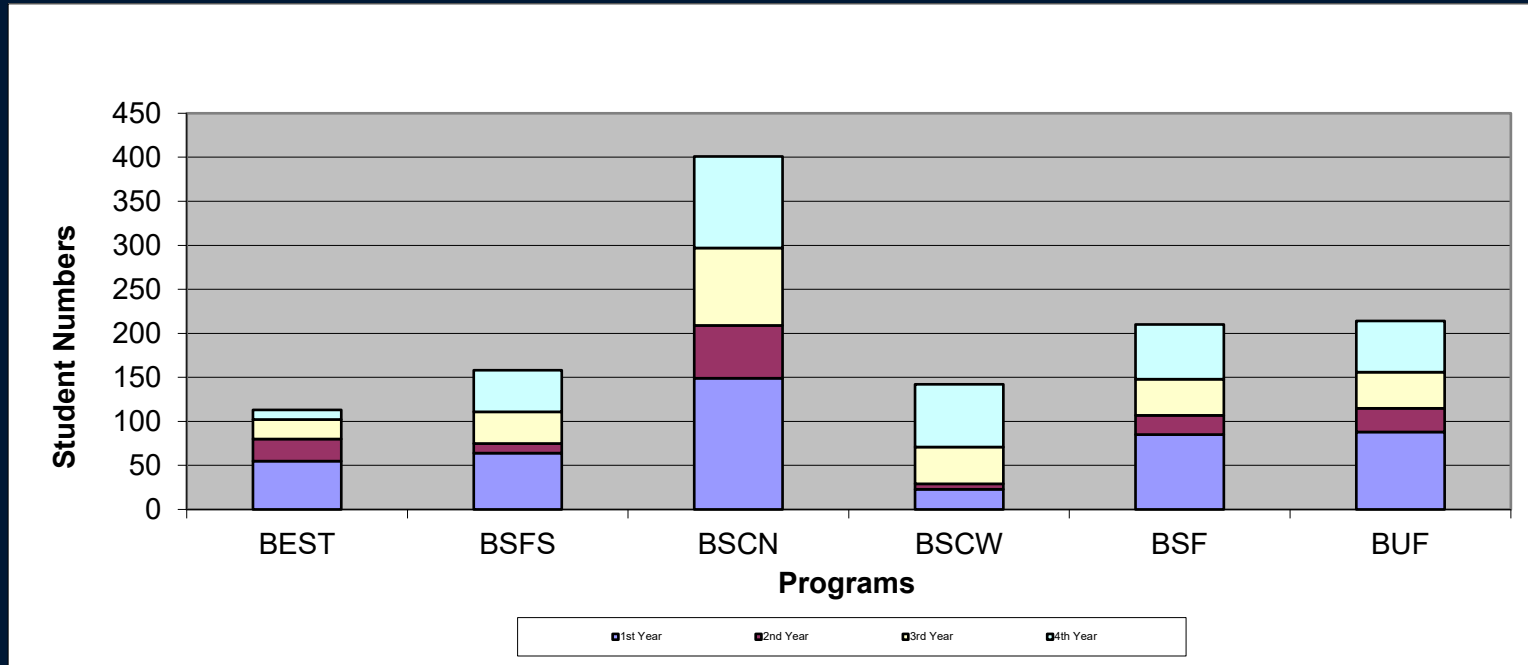
MODERNIZE THE SECTOR & THINKING



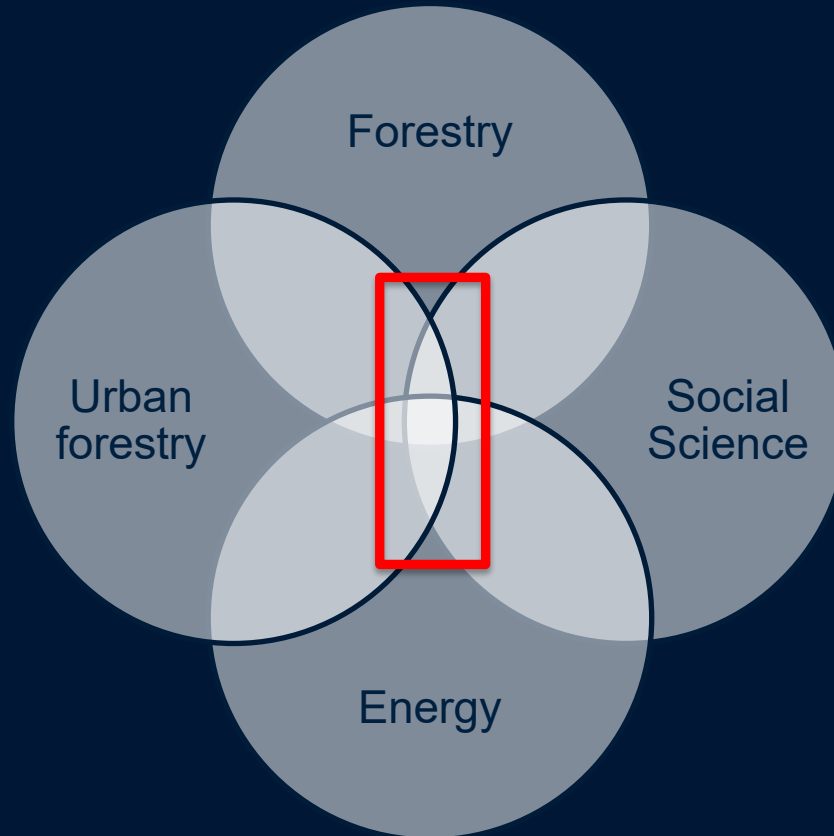
Source: Lindbacks



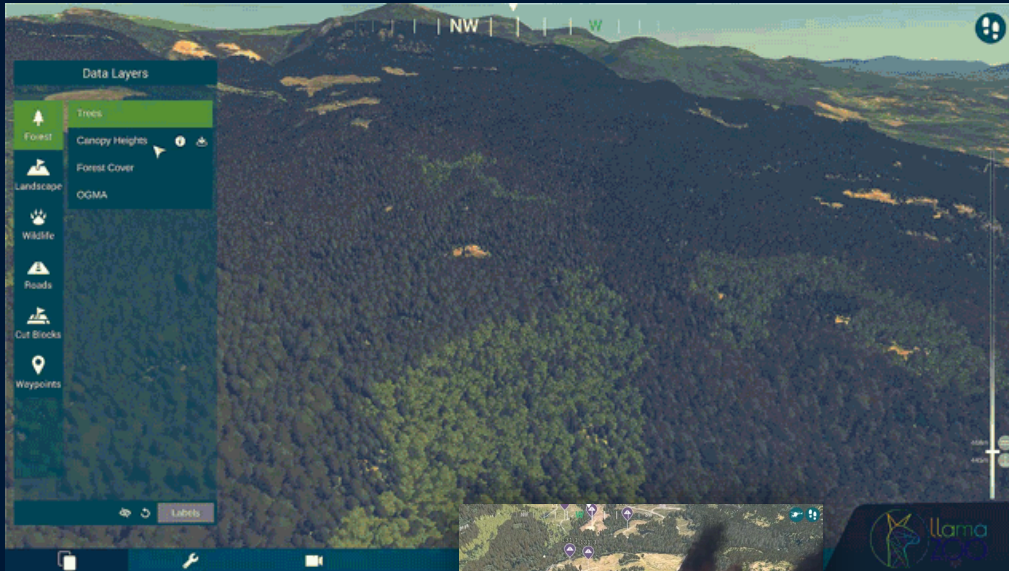
SECONDARY EDUCATION



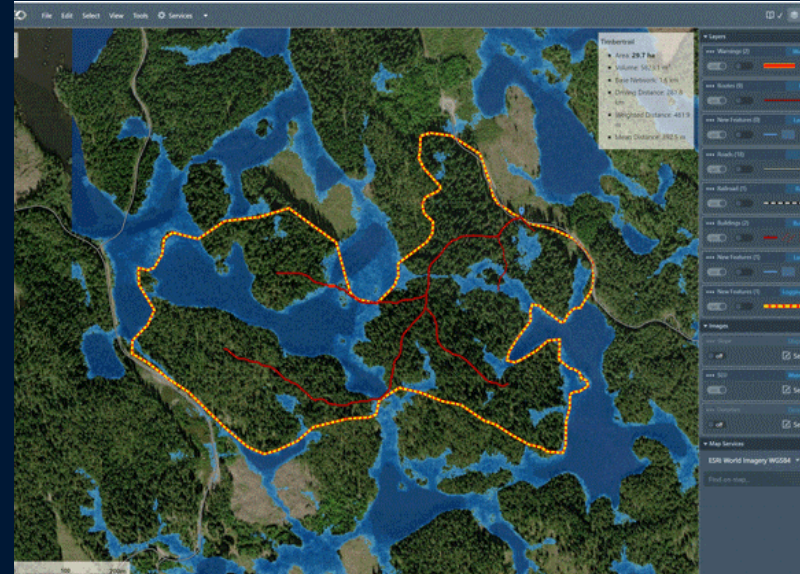
UBC FOREST RESOURCES MANAGEMENT



SKILLSETS OF THE FUTURE



Source: Llamazoo



Source: Creative Optimization



SKILLSETS OF THE FUTURE



SKILLSETS OF THE FUTURE?

Technology

Automation

Big data management

Computer engineering

Robotics

Photonics

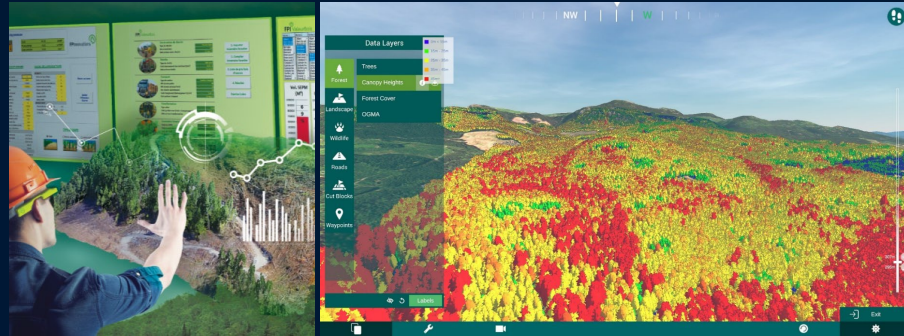
Lidar

Virtual reality/Augmented reality

Machine learning

Critical thinking

Team work





VOCATIONAL TRAINING



The Wheelhouse

All electric powered forest machine training center

VOCATIONAL TRAINING



Photo credit: CMLABS



INVEST IN PARTNERSHIPS AND TRAINING



IT IS ABOUT PEOPLE





THE UNIVERSITY OF BRITISH COLUMBIA

THANK YOU



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