

MI-AP's Showcase and Symposium Summary



Manitoba
Industry-Academia
Partnership



Manitoba
Industry-Academia
Partnership

Summary

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MI-AP Overview



Manitoba
Industry-Academia
Partnership



Horizon *Manitoba*

•
Building a brighter future together

- Manitoba Industry-Academia Partnership (MI-AP) is an initiative funded by PrairiesCan (formerly Western Economic Diversification Canada).
- Manitoba's Post-Secondary Education Institutions in partnership with the business sector will undertake initiatives to help better prepare graduates for the labour market, further enhance industry-academia partnerships and collaboration, and support Indigenous students for the cultural, economic, societal health, and vitality of Manitoba.
- MI-AP is a collaboration of RRC, UM, UW and BCM but represents the work and interests of the following Manitoba post-secondary education institutions



Governance Structure:

- This WD funded Manitoba Industry-Academia Partnership project will be administered by UM, and co-managed with UW, RRC and BCM.
- The project will be operationalized by a Steering Committee which includes:
 - Dr. Jay Doering, Associate Vice-President (Partnerships), UM
 - Dr. Jino Distasio, Vice President (Research), UW
 - Dr. Christine Watson, Vice-President (Academic), RRC
 - Mr. Bram Strain, President BCM
 - Dr. Mark Torchia, Vice-Provost (Teaching and Learning) and Executive Director of the Centre for the Advancement of Teaching and Learning, UM
- The Steering Committee is also responsible for the management of project-specific positions.

Our mandate is in three priority areas:



Stimulating economic growth through technology transfer and innovation

- Enhance industry's awareness of the expertise, available technologies and research facilities at post-secondary institutions (PSIs).
- Increase the number of industry/PSI collaborations using vehicles like Mitacs and NSERC partnerships.
- Develop a province-wide strategy to enhance industry-post-secondary collaboration.

Action

Create “engagement tables” with leaders in economic sectors to discuss economic potential and workforce trends. Facilitated discussions will identify gaps and challenges and to develop solutions. Conversations between industry and academia will highlight the most relevant intelligent technologies for the sectors, the most in-demand skills and how those can be fostered both in academic and work-integrated learning settings.



Enhancing alignment between industry and post-secondary increase work-integrated learning opportunities

- In partnership with employers, develop a plan to take full advantage of government and other supports to create enhanced work integrated learning (WIL) opportunities, with the goal of expanding the breadth and scope of experiential and applied learning.
- In pursuit of greater alignment between industry needs and PSIs, businesses will enhance their ability to acquire talents, pivot and augment their workforce.

Action

Create “engagement tables” with leaders in economic sectors to discuss economic potential and workforce trends. Facilitated discussions will identify gaps and challenges and to develop solutions. Conversations between industry and academia will highlight the most relevant intelligent technologies for the sectors, the most in-demand skills and how those can be fostered both in academic and work-integrated learning settings.

A yellow decorative graphic consisting of a curved line on the left and a vertical line on the right, forming a partial shape.

Accelerating opportunities for Indigenous students

- Develop a coordinated provincial approach to supporting Indigenous students, to include mentoring and work-integrated learning, leading to employment after graduation.
- Enhance funding for the Indigenous Education Awards Program.

Action

Identification of existing and required supports to create substantive equality for Indigenous post-secondary students and Indigenous worker engagement.



Story of the Tables



Manitoba
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Story of the Tables



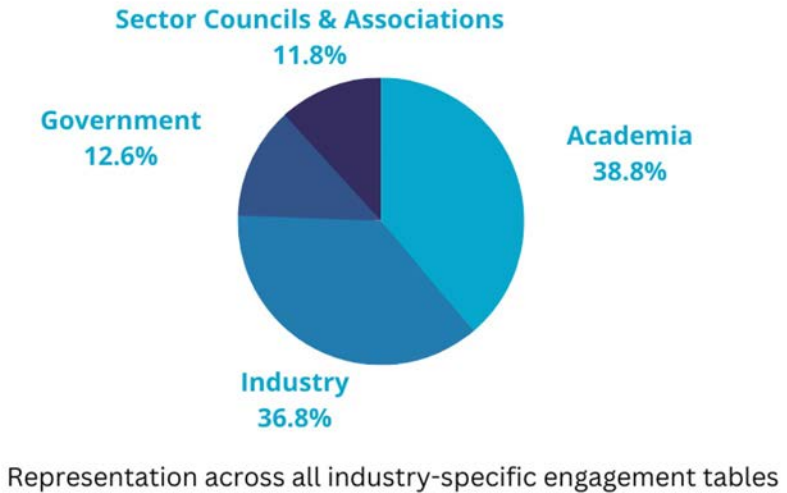
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Engagement Tables

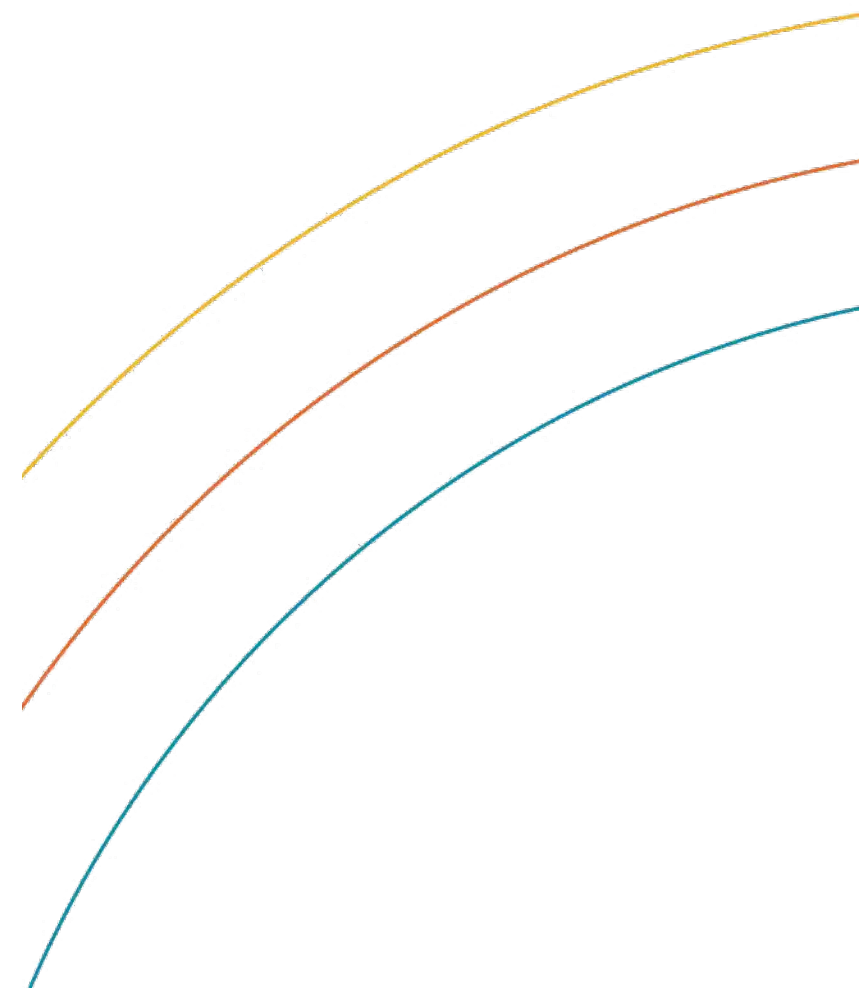
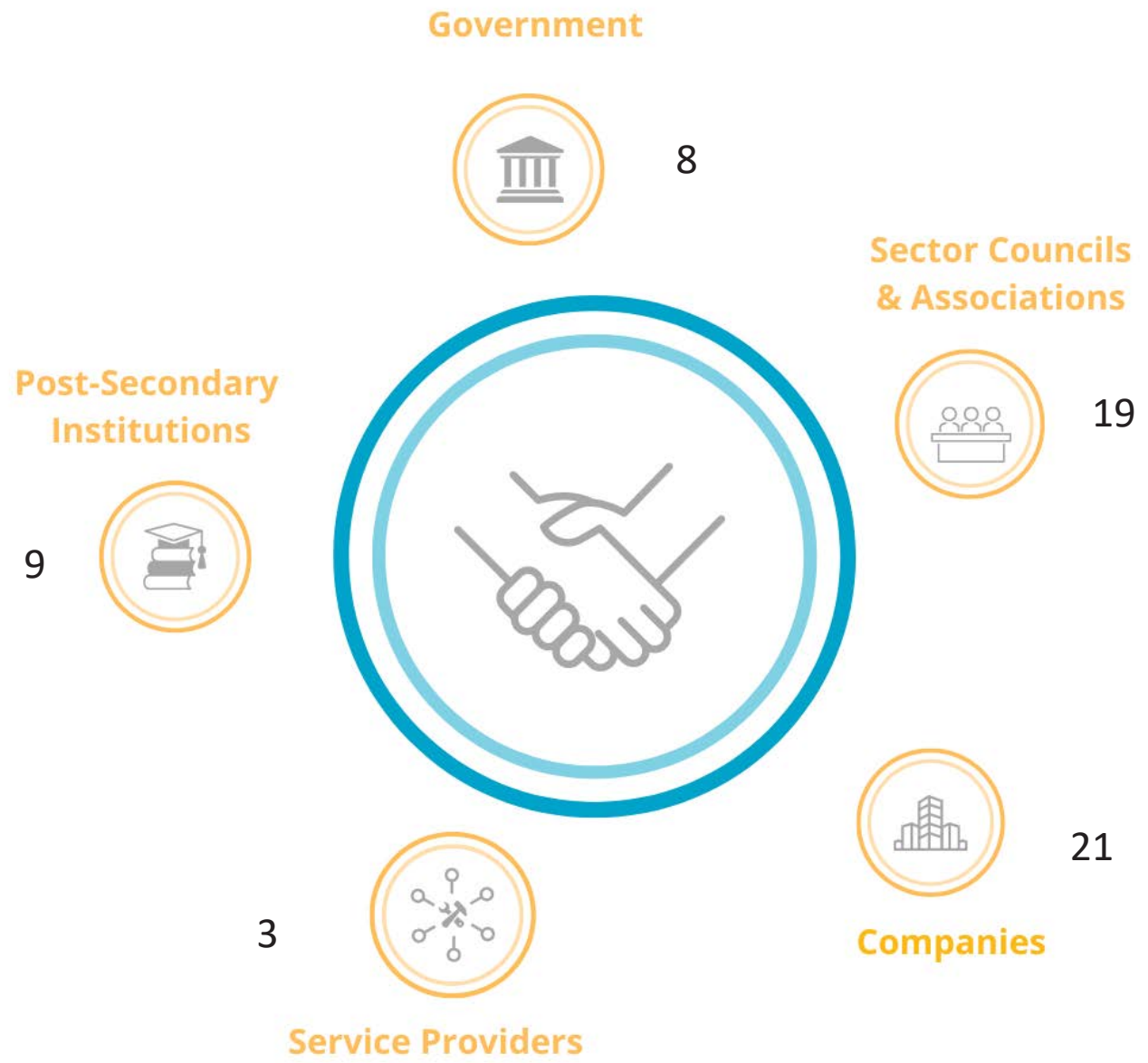


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Participants



- Artificial Intelligence
- Community Economic Development (Indigenous Pillar)
- Digital Agriculture (3)
- Diverse Workforce Strategies
- Heavy Equipment and Vehicle Manufacturing (3)
- Indigenous Student Roundtable
- Leaders in Indigenous Education
- Media Production (2)
- Manitoba North
- Sustainable Packaging
- Experiential Learning & Work-Integrated Learning (2)



Industry - Academia Partnership Future Focus

COMMUNICATION

- How do we promote regular conversations between academia and industry?
- How do we become aware of and take advantage of opportunities to collaborate?
- How does industry approach academia with project proposals?
- Are academia and industry willing to share their future plans to see if connecting points can be found?

RESEARCH AND DEVELOPMENT

- Is intellectual property ownership really a barrier to industry-academia collaboration?
- Can academia accomplish research at the speed of business?
- Is funding available to support projects? How do we know? How do we access it?
- What types of research are the different post-secondary institutions proficient at?

EMPLOYEE TRAINING

- Is training in line with industry needs, now and for the future?
- Are students graduating with applied skills in tune with the needs of our sector?
- How are we developing integrated specialists?
- “Soft skills” – Human skills
- Training is needed on adoption of advanced technology and its ROI.
- Are internships as path?

Manitoba Heavy Equipment and Vehicle Manufacturing Table Meeting Report

from Sept 15, 2020 Roundtable Meeting



Second Roundtable – March 10, 2021

Host a second roundtable to address some of the topics and findings

AIMday – Jan 26, 2021

Host an AIMday to initiate researchers and industries to collaborate on industry-focused projects

[Contact us for more information](#)

Next Steps

Communication

- Goals are not aligned
- People in companies don't know who to go to
- How do we create the right, relevant connections

Funding

Knowing how to capitalize on available funding

Barriers

Ideal State of Industry/Academia Alignment

COMMUNICATION

- From industry: transparent needs communication to academia
- From academia: timely response to industry needs
- Vehicle for regular, two-way communication
- Consistent messaging from industry/academia to students

WORKFORCE DEVELOPMENT/WORK-INTEGRATED LEARNING (WIL)

- Well defined career paths/ladder training
- Micro credentials and dual-accreditation
- Better alignment of terminology and assessment tools
- Data driven short duration training programs

EMPLOYMENT FOR THE NORTH, FROM THE NORTH

Is training in line with industry needs, now and for the future?

- Are students graduating with applied skills in tune with the needs of our sector?
- How are we developing integrated specialists?
- “Soft skills” – Human skills
- Training is needed on adoption of advanced technology and its ROI.

Manitoba North Industry/Academia Table Meeting Report

from March 3, 2021 Roundtable Meeting



- Distance limiting communication
- Micro credential courses are not currently dual-accredited
- Models for training and funding don't fit industry's needs
- No awareness on industry/academia contacts (“who to contact”)
- □Low skills equilibrium/trap: low skilled workers seeking minimum certification levels
- Small business' limited capacity to participate in forums
- □Lack of clarity for learners, not understanding what opportunities exist

Barriers

- Creating a stakeholder communication group
- Starting career tracks/awareness at the secondary level rather than post-secondary
- Reinvent funding models to train students on skills/ trades/ careers relevant to opportunity
- Bring small business to the table
- ‘Show me the money’ (funding presentation panel) – May 19, 10am-12pm

Ideas Moving Forward



Industry North:

- Better connectivity is needed to access all services.

Artificial Intelligence:

- Adequate internet availability and speed is required.

Digital Agriculture:

- Satellite and rural access to connectivity is required for use of digital agriculture technologies.
- Connectivity between systems and data flow is required.

Connectivity

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Heavy Equipment & Vehicle Manufacturing:

Innovated research is needed to remain competitive.

Artificial Intelligence:

- For Manitoba to be a leader in AI requires a startup culture that embraces innovation and experimentation.
- Establish a centre of excellence for knowledge transfer and collaboration.

Sustainable Packaging:

- Creation of viable packaging options and thorough testing.
- Discovering best practices from other jurisdictions.

Digital Agriculture:

- Continued innovation is required sector growth.
- Understand and communicate the breadth of research occurring in the Manitoba digital agriculture sector.

Research & Development

A smiling woman with blonde hair, wearing a blue top, is the central focus of the image. She is looking towards the left, where the back of a man's head and shoulder is visible. The background is a blurred office setting with windows and shelves.

Industry North:

- A more balanced skill set is required to meet the variety of job demands.

Artificial Intelligence:

- Relevant training in communication and relationship building.

Heavy Equipment & Vehicle Manufacturing:

- Essential human skills was identified as a necessary focus for employees.

Diverse Workforce Strategies: - Training on communication and relationship building skills is needed to create an inclusive industry.

Essential Human Skills

Digital Agriculture:

- New employees need to have 'soft skills' in addition to technical skills



Industry North:

- Start pathways at secondary school level to increase student readiness for career opportunities.

Artificial Intelligence:

- Need a provincial strategy for AI adoption.
- More STEM in secondary school curriculum.

Sustainable Packaging:

- Funding and favourable policies are needed to encourage adoption of sustainable packaging.

Media Production:

- Investment is required for industry development planning and training.

Digital Agriculture:

- Collaboration support is needed to grow digital agriculture sector.

Increased
Government
Support

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Heavy Equipment & Vehicle Manufacturing:

- Faster access to funding.
- Prioritize training for women and newcomers.

Artificial Intelligence:

- Financial support for AI specific training for students and workforce including non-permanent residents.

Industry North:

- Reinvent funding model to train students to meet industry needs.

Media Production:

- Appropriately fund job training and internships so that they are accessible to all.

Digital Agriculture:

- Funding for upskilling and reskilling opportunities of the workforce

Diverse Workforce Strategies:

- Need to enhance funding for EDI training capacity.

Financial Support for Training Opportunities



Industry North:

- Enhance WIL by aligning terminology and assessment tools between academia and industry.

Artificial Intelligence:

- Increase WIL opportunities for students.

Heavy Equipment & Vehicle Manufacturing:

- Match student placements with industry needs
- Focus on student retention (ROI).

Media Production:

- Develop more WIL opportunities including on-set learning.
- Prepare students to be “gig” workers.

Digital Agriculture:

- Increase WIL opportunities by identifying and reducing barriers for industry and academia.

Diverse Workforce Strategies:

- Create mentorship and internship opportunities for women.

Work Integrated Learning and Job Experiences for Students

Heavy Equipment & Vehicle Manufacturing:

- Better understanding about expertise at post-secondaries.
- Academia understand the pace of industry.

Artificial Intelligence:

- Increased integration between industry and academia.

Industry North:

- Better communication between industry and academia.
- Academia needs to meet fast pace of industry.

Media Production:

- Need clearer pathways across post-secondary institutions to create a coordinated program.
- Better communication with academia to build collaboration

Digital Agriculture:

- Strategic partnerships between industry, associations, and academia.

Sustainable Packaging:

- Build relationships to better enable innovation.

**Stronger
Relationship
Between Industry
and Academia**

4



Artificial Intelligence:

- More relevant and practical artificial intelligence training and education.
- Have diverse courses and micro-credentials.

Digital Agriculture:

There needs to be skills and talent gap identification and mitigation.

Industry North:

Micro-credentials need to be dual-accredited.
Local training for careers located in the community.
Short, and data driven training programs.

Diverse Workforce Strategies:

- Training programs need to be tailored to a diverse workforce.

Heavy Equipment & Vehicle Manufacturing:

- Need for employee training aligned with industry needs, such as advanced technology, machine learning, data science.

Media Production:

- Duration of programs need to align with industry needs.

Enhanced Training and Education Opportunities



Sustainable Packaging:

- Stakeholders need to understand the current state of systems and infrastructure.
- Better understanding of research expertise and identify gaps.

Digital Agriculture:

- Understand the breadth of existing Research & Development projects and communicate in order to show opportunities,

Diverse Workforce Strategies:

- Better understanding about where support is available.

Media Production:

- Establish a central resource for information on job opportunities, requirements, gaps and trends.

Artificial Intelligence:

- Develop a centre of excellence for Manitoba.

Heavy Equipment & Vehicle Manufacturing:

- Province-wide sharing of data resources.
- Communicate how to capitalize on available funding opportunities

Industry North:

- Need to know what funding and supports are available.

Mechanism for
Communicating Existing
Programs, Supports and
Expertise

2

Sustainable Packaging:

- Create better communication about the process and options of transitioning to sustainable packaging.
- Increase awareness to community.

Heavy Equipment & Vehicle Manufacturing:

- Relevant and correct connections are needed.
- Goals need to be aligned.

Digital Agriculture:

- Communicate more effectively with all stakeholders.

Diverse Workforce Strategies:

- Establish a communications policy.

Media Production:

- Clarify pathways into the industry.

Industry North:

- Establish a communications policy.

Artificial Intelligence:

- Develop an ecosystem with all major stakeholders in Manitoba to communicate effectively.

Regular and Effective Two-Way Communication

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AIMday™

ACCELERATING INNOVATION



Manitoba
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AIMday Background

Academic-Industry Meeting Day (**AIMday**), originally developed by **Uppsala University** in 2008.

Questions raised by companies form meeting day agenda.

MI-AP match requests with the **academic expertise**.

The meeting day consists of '**one question, one hour**' workshops.

Teams of approx. 5 to 10 discuss each topic in a **confidential** setting.



UPPSALA
UNIVERSITET

AIMday Process

Industry members register for AIMday and submit their questions or area of concern.

Researchers and research staff register for AIMday and select desired questions in area of expertise.

Industry members and researchers/staff **attend AIMday workshops.**

Researchers/staff submit **pre-study funding** requests to MI-AP.

Industry members review **collaboration** requests and forge ahead with researchers/staff.



AIMday Question Examples

Digital Innovation: How will advancements in real-time visualization impact non-entertainment sectors in the next few years?

Circular Economy: Can we formulate palatable new cereal products using wild rice grown from bioremediated fish waste and hemp fraction ingredients?

Sustainable Protein: Aphanomyces root rot disease has major implications for peas in the Prairies. How prepared and equipped is Manitoba to sustain pulse industries with such a devastating and long-lasting disease?

Construction: How can we establish a community-driven data centre in remote communities where required IT infrastructure such as servers, networking, and security, can be easily operated and maintained by the communities themselves?

Digital Agriculture: How can we cost-effectively collect and utilize soil data to automate variable rate application of nutrients and pesticides?



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AIMday Events Hosted by MI-AP



Digital Agriculture



Heavy Equipment
and Manufacturing



Construction



Sustainable
Protein



Circular Economy



Digital Innovation

AIMdays 2020-2023	1	2	3	4	5	6	Total
Companies participated	4	6	7	8	10	7	42
Company representatives	8	18	15	15	16	11	83
Questions discussed	6	7	12	16	8	8	57
Researchers and research staff	27	19	16	38	27	13	140
Pre-study proposals submitted	12	8	11	10	8	4	53
Pre-study proposals funded	8	5	11	10	6	2	42



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AIMday Pre-Study Recipients

Balijeet Singh – ACC
Martin White – Enns Brothers

Carson Leung – UM
Jacqueline Keena – EMILI

Derek Brewin – UM
Dan Lussier – EMILI

Parimala Thulasiraman – UM
Dave Burrows – EMILI

Jon Ziprick – RRCP
Martin White – Enns Brothers

Karen Kabel – RRCP
Sheena Pitura – Yes! Winnipeg

Rasit Eskicioglu – UM
Ben Foster – MacDon

Nariman Sepehri – UM
Les Fun – Airport Tech. Inc.

Bin Yang – RRCP
Les Funk – Airport Tech. Inc.

Paul Larson – UM
Terry Shaw – MTA

Jojo Delos Reyes – RRCP
Thomas Small – New Flyer

Robert Parson – UM
Terry Shaw – MTA

Kris Maranchuk – RRCP
Ryan Pedersen – City Mix

Carson Leung – UM x 2
TJ Richard – Grey & Ivy

Pooneh Maghoul – UM
Darrell Brown – Kisik Clean E.

Carl Ho – UM
Darrell Brown - Kisik Clean E.

Kris Maranchuk – RRCP x 2
Nicholas Legal – Lafarge

Hongwei Liu – UM
Alauddin Ahammed – MB Infra.

Pooneh Maghoul – UM
Lanny McInnes – MHBA

Qiuyan Yuan – UM
Lanny McInnes – MHBA



FOR FURTHER INFORMATION, PLEASE CONTACT:
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AIMday Pre-Study Recipients *continued*

Kris Maranchuk – RRCP
Lanny McInnes – MHBA

Matthew Bakker – UM
Scott Chalmers - Manitoba

Heather Blewett – UM
Scott Chalmers – Manitoba

Alex Koiter – Brandon U
Mary-Jane Orr – MBFI

Rafael Otfinowski – UW
Mary-Jane Orr – MBFI

Heather Hill – RRCP
Ryan Stepler – Prairie Cricket

Lingyun Chen – UAlberta
Shawna Mathieson – POGA

Nandika Bandara – UM
Shawna Mathieson – POGA

Ethendhar Rajendiran – UM
Egbert Knol – Topigs Norsvin

Maneka Malalgoda – UM x 2
Adam Dyck – Warburtons

Nandika Bandara – UM
Mulualet T. Kassa – BioTEI Inc.

Qiuyan Yuan – UM
Mulualet T. Kassa – BioTEI Inc.

Rotimi Aluko – UM
Mulualet T. Kassa – BioTEI Inc.

Kelsey Taylor – UM
Mark Kinsley – City of Wpg

Elena Gomez Haro – RRCP
Ryan Stepler – Prairie Cricket

James D. House – UM
Bruce Hardy – Myera Group

Carson Leung – UM
Vic Gerden – AeroPlus STM

Parimala Thulasiraman – UM
Kelly Fournel – Tech Manitoba



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AIMday Pre-Study Challenges

“Availability of information on social behaviour for the North American market...” – *Elena Gomez Haro (RRCP)*

“... engagement of students to undertake testing and research work as it is very statistically intensive.” – *Kristopher Maranchuk (RRCP)*

“Availability of commercially available components to electrify major components.” – *Bing Yang (RRCP)*

“Due to the newness of technologies involved there were certainly more than a few conflicting pieces of information and suggested claims requiring cross verification.” – *Paul Larson and Robert Parsons (UM)*

“Travel restrictions limited the ability... to meet in person and conduct field tours.” – *Rafael Otfinowski (UW)*

“The time required for human research ethics approval and recruitment of participants to complete the survey...” – *Heather Blewett (AAFC)*

“The design... was challenging due to the lack of source of suppl[ies]...” – *Hongwei Liu (UM)*

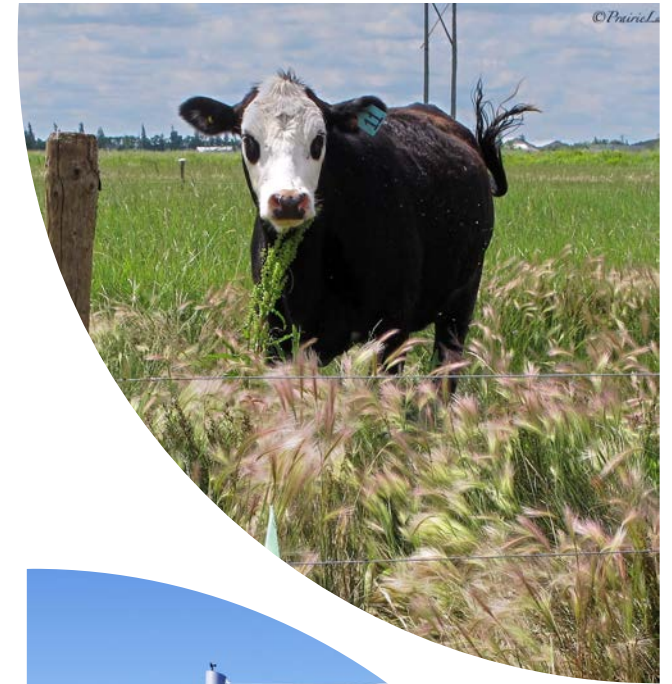
“The main challenge was to understand the technology behind [the] existing system on the machines and adopt novel techniques to allow the current system to be retrofitted with minimal changes...” – *Nariman Sepehri (UM)*



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AIMday Pre-Study Achievements

- Creation of one-day drone workshop open to students and industry.
- Development of a custom soil moisture and rain measuring sensor, powered by a solar panel and able to upload data through a satellite network.
- Development of robust and time-efficient signal processing methods to provide clear and accurate location of dowel/tie bars for pavement.
- Identification of barriers to electrifying major components of the runway sweeper.
- Increased insights of barriers faced in implementation of zero-emission vehicle technologies for heavy duty freight vehicle applications.
- Increased understanding of key components related to entomophagy launched in food and beverage markets.
- Optimization of fertilizer application to achieve high gluten quality while minimizing fertilizer input.
- Synthetization, prototyping and evaluation of new software and accompanied hardware to facilitate planning and operation of auto-guided snow removal machines.



AIMday Pre-Study Achievements *continued*

- Acquisition of preliminary dataset indicating organisms present in association with field pea roots, symptomatic for root rot disease.
- Design of three cereal formulations for further testing.
- Collection of data on municipal plastic waste management in Canada.
- Conducting a quantitative approach to analyze gluten protein samples.
- Culmination and collaboration between all major public and private facets of concrete industry in Manitoba.
- Development and implementation of a survey with the Westman Agricultural Diversification Organization.
- Optimization of aqueous washing of seed meal.
- Review of literature that indicated swine manure microbiome significantly impacted the contents of microbial composition in arable soils.
- Review of management of soil salinity in Manitoba rangelands.
- Successful partnership in industry research and development roadmap.



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AIMday Testimonials & Feedback

“... These preliminary discussion have led to the identification of future research ideas and avenues to pursue. The overall experience around the Construction AIMday and the award has been very positive and well received within the construction industry. I hope that we are able to continue this program moving forward as technology, materials, and processes are continually evolving.” - *Kristopher Maranchuk (RRCP)*

“... We feel that our research ideas, new collaborations with producers, and the combined strengths of our team in microbiology, hydrology, and plant ecology, will continue [to] help us develop research that will help sustain beef production in Manitoba.” – *Rafael Otfinowski (UW)*

“The MIAP funding allowed the industry partner to navigate through the options of electrifying their equipment. Organizations such as ATI who does not have a dedicated R&D team greatly benefits from programs like this.” – *Bin Yang (RRCP)*

“...As per our industry partner, the report provided by the research team resulted in multiple projects that their R&D team is now working on.” – *Jojo Delos Reyes and Christopher Basilio (RRCP)*

“The support from MI-AP and AIMday is very appreciated to kickstart this project.” – *James D. House (UM)*



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AIMday Testimonials & Feedback *continued*

“The pre-study award enabled my lab to establish new collaborations and the opportunity to work with industry partners on more elaborate projects.” – *Maneka Malalgoda (UM)*

“Through this pre-study we developed the much needed synergy between the university researchers and the company’s personnel. We identified collaborators at the university level as well outside (other companies with similar interest) and established a clear path to follow a successful collaboration...” – *Nariman Sepehri (UM)*

“... The work was successfully completed, ... knowledge and understanding were transferred, and ultimately the right funding program emerged...” – *Paul Larson and Robert Parsons (UM)*

“... The funds provided enabled completion of literature review and drafting of a full grant application...” – *Rotimi Aluko (UM)*

“I appreciated the seed funding, which did facilitate coordination of research planning across locations & agencies.” – *Matthew Bakker (UM)*



Manitoba
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A heartfelt thank you to everyone who has participated in our AIMdays.

As well, a big thank you to those featured in the AIMday video and AIMday Fireside Chat.

ACCELERATING INNOVATION

Working together | Tackling challenges | Exploring solutions



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AIMday™

AIMday™ is a novel way for businesses to access the expertise, equipment and capacities available at post-secondary institutions in Manitoba and allow organizations to gain academic perspective into industry challenges and allow researchers to meet potential partners leading to new opportunities for collaboration.



Inspiration and Insight

Bringing academia and organizations together in tailor-made discussions is key to identifying areas of common interest. Many collaborative projects are started this way.



Great Networking

AIMday provides ample opportunities for networking and spontaneous meetings. Many beneficial contacts are made through this event.



Efficient Meetings

Every question is discussed for one hour, no more, no less. Group sizes are small, five to ten people, including industry representatives that asked the question and researchers from various disciplines.

AIMday Metrics Overview

Event	Date	Industry Attendees	Research Attendees	Workshops	Proposal Received	Proposals Funded
Digital Agriculture	Oct 1, 2020	8	27	6	12	8
Heavy Equipment and Vehicle Manufacturing	Jan 26, 2021	18	19	7	8	5
Construction	April 8, 2021	15	16	12	11	11
Sustainable Protein	June 24, 2021	15	38	16	12	10
Circular Economy	June 9, 2022	16	27	8	8	6
Digital Innovation	November 8, 2022	11	13	8	4	2
Total	6	83	140	57	55	42



AIMday Metrics Overview

Event	Funding and Support Presentations	Research Presentations	Attendance
AIMday Kickoff	6	5	106
AIMday Heavy Equipment and Vehicle Manufacturing	4	5	58
Show Me the Money - Northern Manitoba Sector Council	21	0	85
Show Me the Money - Canadian Manufacturers and Exporters	15	0	75
Show Me the Innovation	4	16	28
Total	50	26	352



Experiential Learning/ Work Integrated Learning



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TIMELINE



Manitoba Experiential & Work-Integrated Learning Table

June 10, 2021



- 20 organizations presented their Experiential Learning and Work Integrated Learning EL/WIL activities
- Followed by a robust discussion.
- **What are the next steps needed to co-create an EL/WIL "Team Manitoba"?**
- Three main ideas emerged

- Indigenous and International student gaps
- Pandemic implications on the labour market
- Understanding the employers' perspective, re considering SMEs bandwidth for participation
- From post-secondary institution (PSI) side - better describe the curricular requirements of EL/ WIL
- Onboarding of students – difficult transition
- Remote communities' pathways

Hurdles

- Align industry, PSI, and government policy objectives- come together as a group to work to a common goal
- Harness technology to make WIL more accessible
- Bridge and connect PSIs and Industry
- Bring students and industry together for discussions, at conferences, visiting classrooms etc.
- Increase PSI-Industry communication about opportunities

Ideas Moving Forward

Next Steps for Building a Collaborative Approach for Manitoba

1. Formation of Centralized Coordinating Body

- Association for EL/WIL
- Committees in different areas: PSI, Employers, Industry Sectors and Students
- Representative from each attends "EL/WIL central committee"
- Future NB – as an example of collaboration between provincial government and post secondary education institutions

2. Data Collection and Assessment of Current State

- Data Collection
- Current state- Where are we now?
- Comprehensive knowledge, skills and core competency lists
- Guideline's document

3. Alignment of WIL Typology

- Need clarity on what is WIL and EL.
- Ex: Co-op is not the only option
- Clear understanding of definitions and terms so we are all using the same language
- Using Cooperative Education and Work Integrated Learning Canada (CEWIL) definitions



Manitoba Experiential and Work-Integrated Learning (EL/WIL) Definition Buckets

These are high-level categories that group individual applications and definitions of EWIL at the PSIs. They also include examples of alignment from university and college perspectives.



Research Projects: Research that can occur in workplaces, on campus or community

Examples of MB PSI alignment include Applied Research and Community Engaged Research (CER).

Examples of CEWIL Definitions alignment include Research Projects

Academic Program-Based Placement: Workplace activities that are often required for the completion of an academic program, where they practice the discipline or program-specific competencies and receive academic credit

Examples of MB PSI alignment include Co-operative Education, Internships, Laboratories, Field Experience, Program Based Placements, Mandatory Professional Practice, and Problem-Based Learning (PBL).

Examples of CEWIL Definitions alignment include Co-operative Education, Internships, Industry Projects, Field Placement and Mandatory Professional Practicum/Clinical Placement



Work Experience: Provide experience in a workplace or simulated workplace setting related to the student's field of study and/or career goals

Examples of MB PSI alignment include Campus Integrated Learning (CIL) and On Campus Student

Employment
Examples of CEWIL Definitions alignment include Industry Projects and Entrepreneurship

Service Learning: Community Service Learning (CSL): Integrates community service and critical reflection to enrich the learning experience and strengthen communities

Examples of MB PSI alignment include Community Engaged Learning (CEL) and Service Learning.

Examples of CEWIL Definitions alignment include Service Learning



Apprenticeships: An agreement between a person (an apprentice) who wants to learn a skill and an employer who is willing to sponsor the apprentice and provide related practical experience

Examples of MB PSI alignment include Apprenticeships.

Examples of CEWIL Definitions alignment include Apprenticeship

Province-wide website or portal



What kind of organization are you?

- Government department/unit
- Social enterprise
- Large sized business
- Medium sized business
- Public sector
- Non-profit
- Small business

- 0 Management
- 1 Business, finance and administration
- 2 Natural and applied sciences and related
- 3 Health
- 4 Education, law and social, community and government services
- 5 Art, culture, recreation and sport
- 6 Sales and service
- 7 Trades, transport and equipment operators and related
- 8 Natural resources, agriculture and related production
- 9 Manufacturing and utilities

What length of time are you interested in working with a student?

- 1-4 weeks
- 6-8 weeks
- 3-4 months
- 8 months
- 12 months

How many hours are you able to host a student?

Part-time

Full-time

Are you in a position to pay the student?

Yes

No

Are you interested in accessing a wage subsidy?

Yes

Stipend | Salary

No

Are you interested in learning about wage subsidies?

No

Yes

Resources for applying to SWPP, Green Job, etc.

What are the primary skills and competencies?

- a. Reading & Writing
- b. Numeracy
- c. Oral Communication
- d. Digital Skills
- e. Critical Thinking
- f. Decision Making
- g. Research & Investigating
- h. Intercultural Skills
- i. Social Perceptiveness
- j. Working with others

For example:

Primary area(s) of focus

- Social services
- Mental health
- Social inequality

Primary tasks

- Direct service delivery
- Relationship development
- Program development and delivery
- Research

Contact Suggestions

- **Brandon University**, Arts Co-op
- Contact: Davion Johnson
- **Canadian Mennonite University**, Practicum
- Contact: Christine Kampen Robinson
- **RRC Polytech**, Community Services
- Contact: Georgette Richon
- **UManitoba**, Arts Co-op
- Contact: Angela Faulkner
- **UWinnipeg**, Urban and Inner City Practicum
- Contact: Nyala Ali



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Recommendations:

- **A Webpage or Portal linking all PSI EL/WIL offerings – a one stop shop for employers**
 - *Building upon the development of common categories and definitions*
- **Communications Strategy – Promotion of EL/WIL opportunities to employers**
 - *Using the language of industry*
- **Ongoing collaboration between PSI EL/WIL departments – a Community of Practice**
 - *Committee for Practitioners*



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Indigenous Pillar



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- The Indigenous Pillar's mandate is to accelerate opportunities for Indigenous post-secondary students by developing a coordinated provincial approach that supports students throughout their academic journey in culturally appropriate, relevant, needs based ways.

- Our goal is to increase access to education for all Indigenous learners from recruitment to retention and to embed Indigenous knowledge and content within early education and onward into post-secondary levels. We will do this through collaborative evaluation, development and implementation of policies, procedures and practices that will advance Indigenous education and reconciliation.

Our common goal is to ensure that Indigenous students have the resources they require to move through post-secondary institutions into their chosen careers through collaborative means.



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Indigenous Pillar

Engagement Tables & Projects

Leaders in Indigenous Education Engagement Table, March 25, 2021

Indigenous Student Support Roundtable, May 6, 2021

Community Economic Development Engagement Table, October 28, 2021

Indigenous Student Roundtable, March 17, 2022

Horizon Ecosystem Map Website

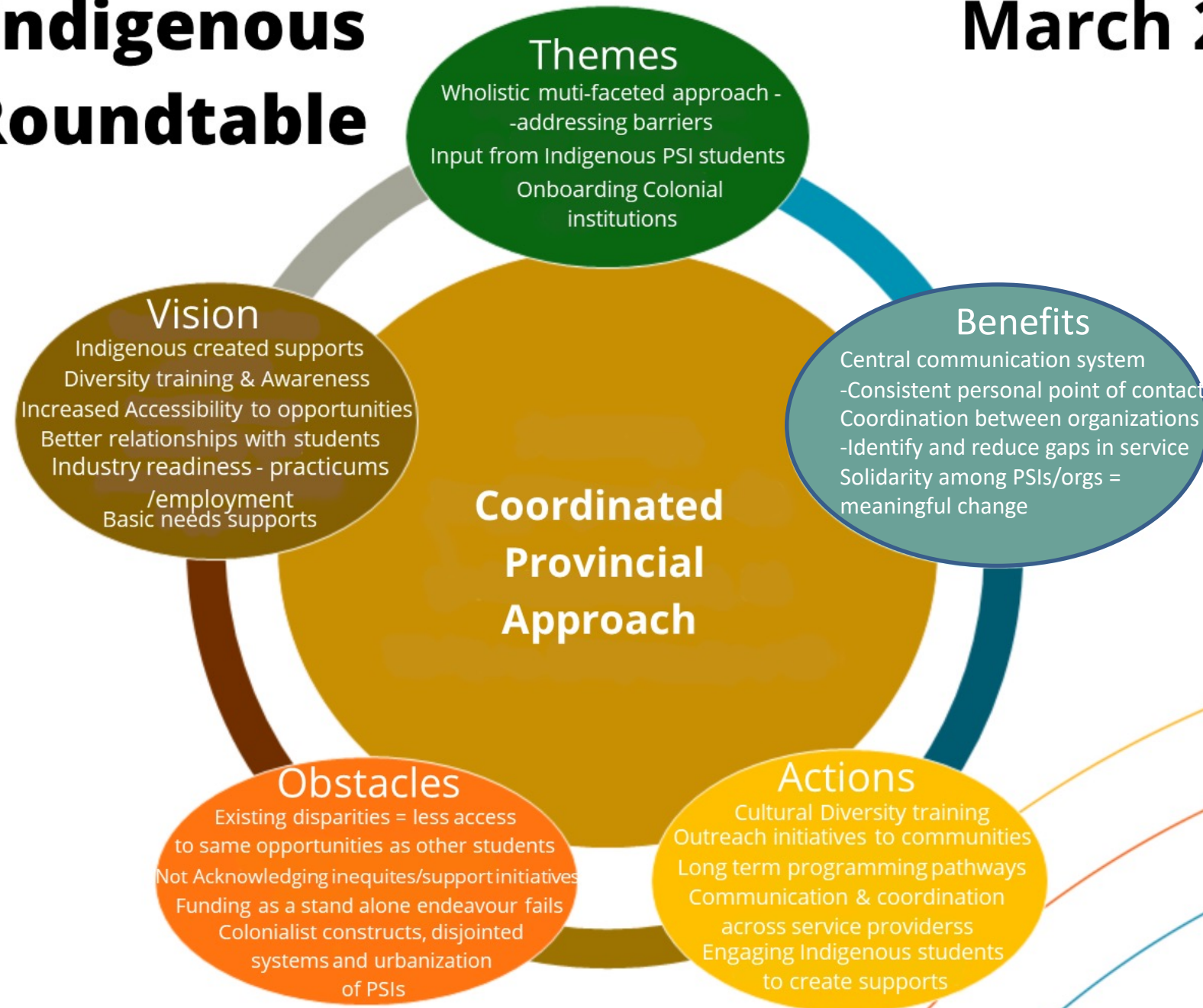
Cultural Educators Collaborative Roundtable, May 12, 2022

Safe Spaces Cultural Competency Training



Leaders in Indigenous Education Roundtable

March 25, 2021



May 6, 2021

Indigenous Student Support Roundtable



Professionals providing Indigenous Student Support services were invited to share their knowledge and insight in the development of a coordinated province wide approach to supporting Indigenous Post-Secondary students at this roundtable. The goal of this initiative is to significantly increase Indigenous participation in the post-secondary sector and in the labour market.

Three Key Themes Emerged

1. **Reconciliation is the foundation** for future success starting with acknowledging the intergenerational effects of the harms and mistakes of the past and a commitment to moving forward in a partnership with Indigenous communities in a spirit of collaboration.
2. **A relationship driven approach** where Indigenous students are visible and engaged where they are at in their journey, is critical to significantly increasing Indigenous participation in the post-secondary sector and successfully transitioning into the labour market.
3. **Addressing systemic issues** of racism, inequality and access to services must occur to increase Indigenous participation in the labour market. (It is important to note that this was a key theme from the Leaders in Indigenous Education Roundtable March 25, 2021)

Professionals providing Indigenous Student Support services believe they can support a Province Wide Coordinated Approach through ongoing collaboration across campuses in Manitoba.

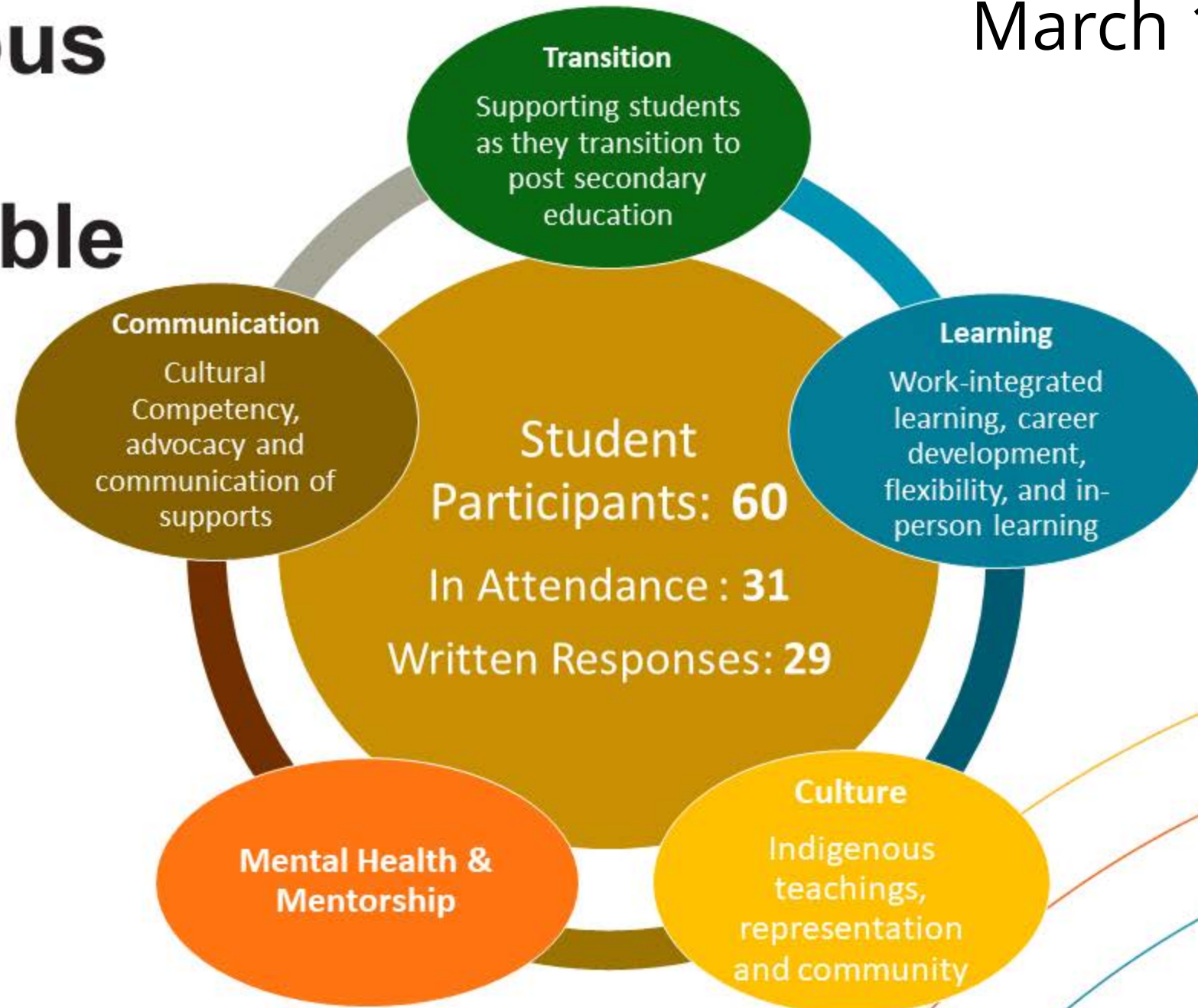
Three Key Themes recurred in Every Discussion

- 1. Focusing on knowledge about the community's needs.** Through knowledge of barriers that Indigenous workers face, industry and academia can create more meaningful relationships. It needs to be communicated what skills are needed to the community and from the community.
- 2. Creating local opportunities.** Satellite academic opportunities need to be created in communities and local project-structured work should occur.
- 3. Creating a pathway for Indigenous students.** This is done by aligning training with the jobs and careers in the community and ensuring student access to this training.

Community involvement for all sectors is essential and needs to actively engage in consultation, consideration and communication.

Indigenous Student Roundtable

March 17, 2022



HORIZON

horizon.miap.ca

A Manitoba Map of supports and resources for Indigenous students navigating post-secondary education

Horizon has been designed with student needs in mind and can be easily searched in 2 ways:

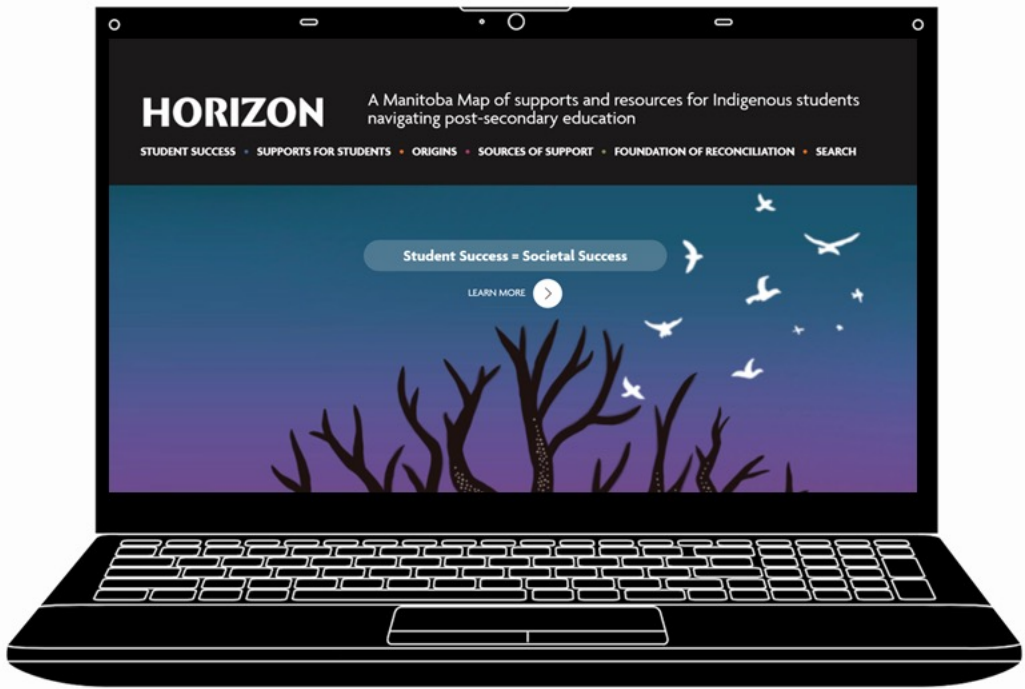
SOURCES OF SUPPORT

Search by name of Organization or Institution

SUPPORTS FOR STUDENTS

Search by need or keyword

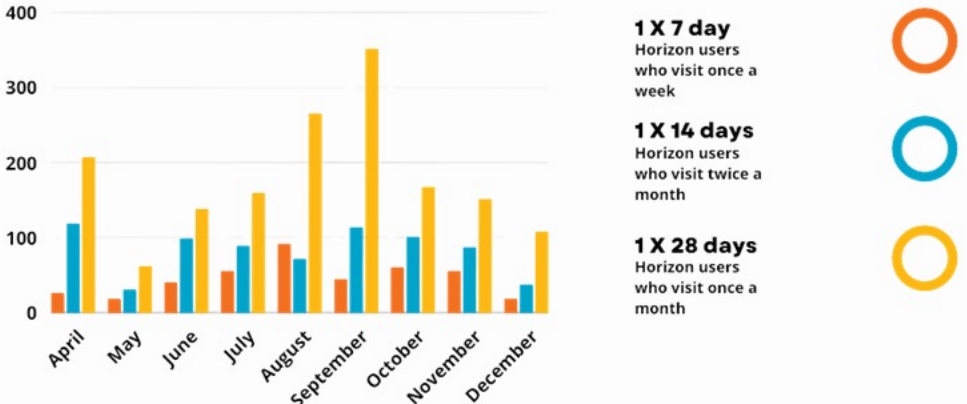




The Horizon website had its soft launch on March 14th, 2022. Its official public launch event was on August 17th, 2022, at Manitou a bi Bii daziigae, RRCP Exchange District Campus.

1,990 Total Users 1,429 Total Entries

HORIZON WEB RESOURCE USERS



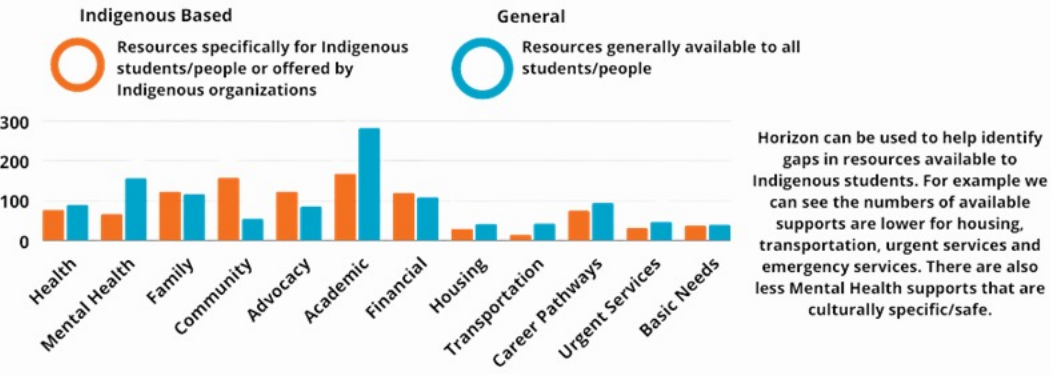
1 X 7 day
Horizon users who visit once a week

1 X 14 days
Horizon users who visit twice a month

1 X 28 days
Horizon users who visit once a month



HORIZON RESOURCES BY CATEGORY

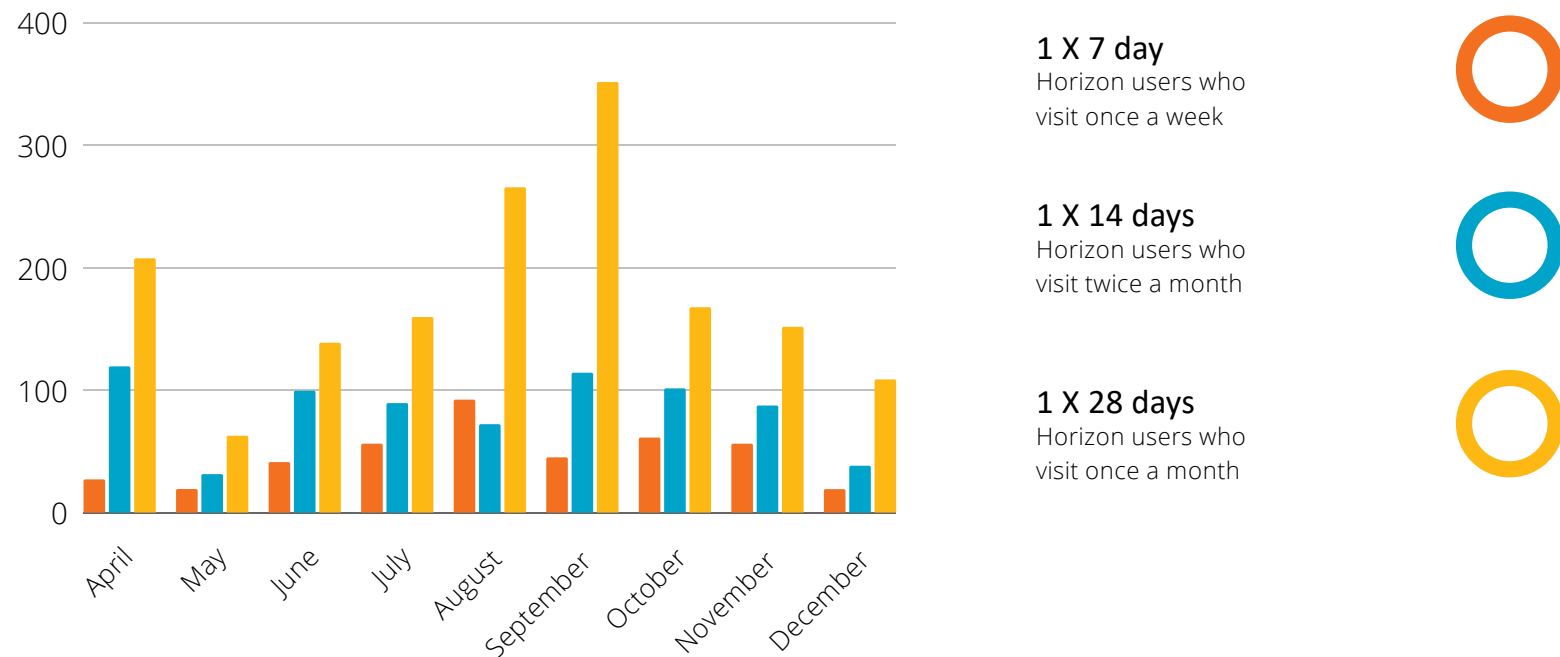


Horizon can be used to help identify gaps in resources available to Indigenous students. For example we can see the numbers of available supports are lower for housing, transportation, urgent services and emergency services. There are also less Mental Health supports that are culturally specific/safe.

Our goal for Horizon is for it to become a trusted resource Indigenous students and student support teams go to with regularity for information that facilitates exponential and holistic student success.

The Horizon website will move from MI-AP to MCIEB where it will continue to flourish.

HORIZON WEB RESOURCE USERS



Our goal for Horizon is for it to become a trusted resource Indigenous students and student support teams go to with regularity for information that facilitates exponential and holistic student success.

HORIZON RESOURCES BY CATEGORY

Indigenous Based

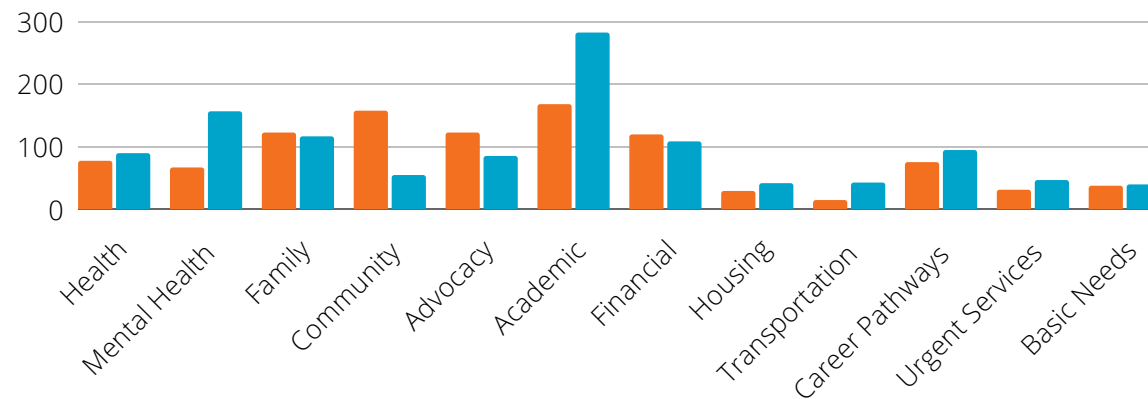


Resources specifically for Indigenous students/people or offered by Indigenous organizations

General



Resources generally available to all students/people

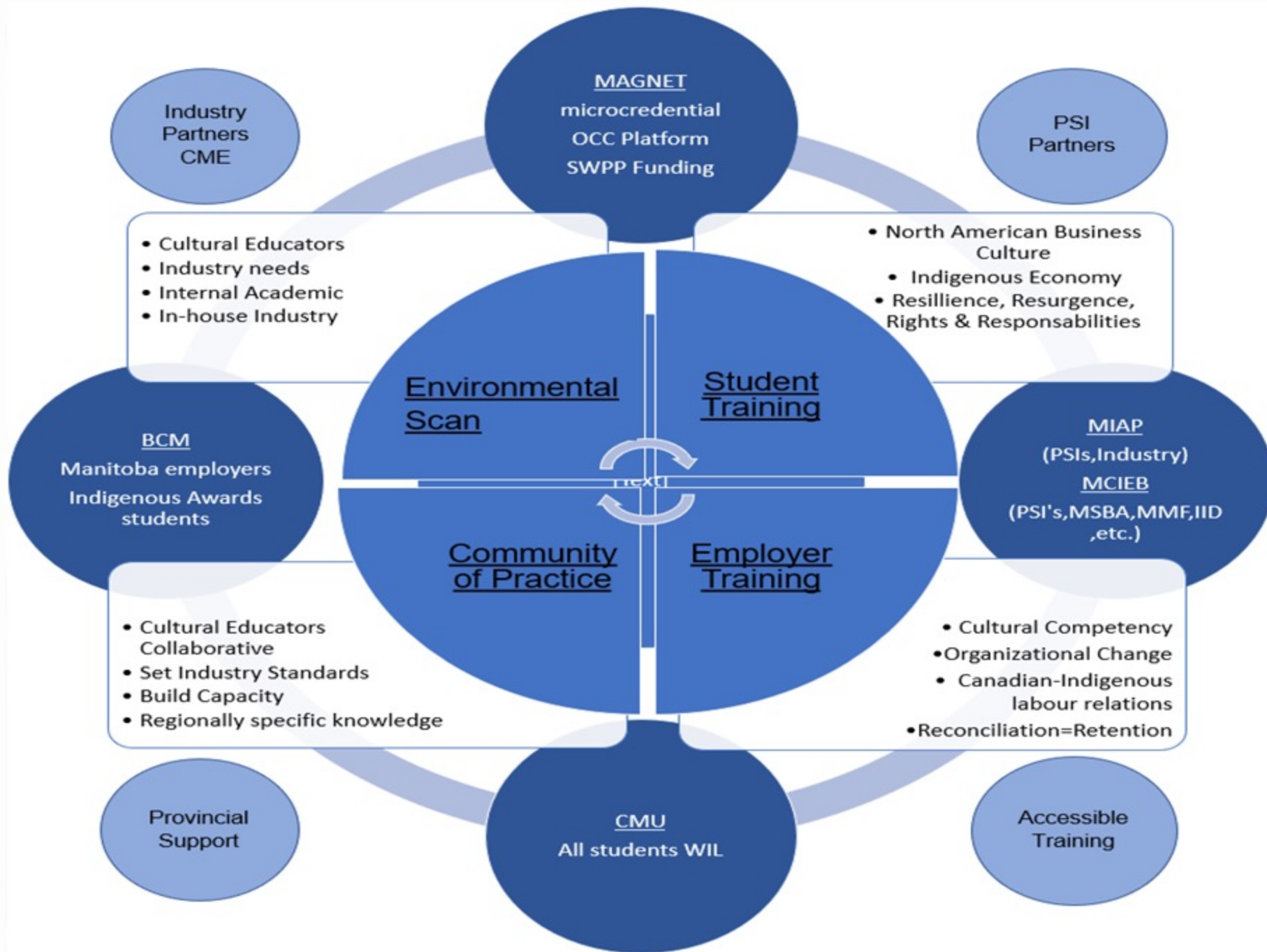


Horizon can be used to help identify gaps in resources available to Indigenous students. For example, we can see the numbers of available supports are lower for housing, transportation, urgent services and emergency services. There are also less Mental Health supports that are culturally specific/safe.

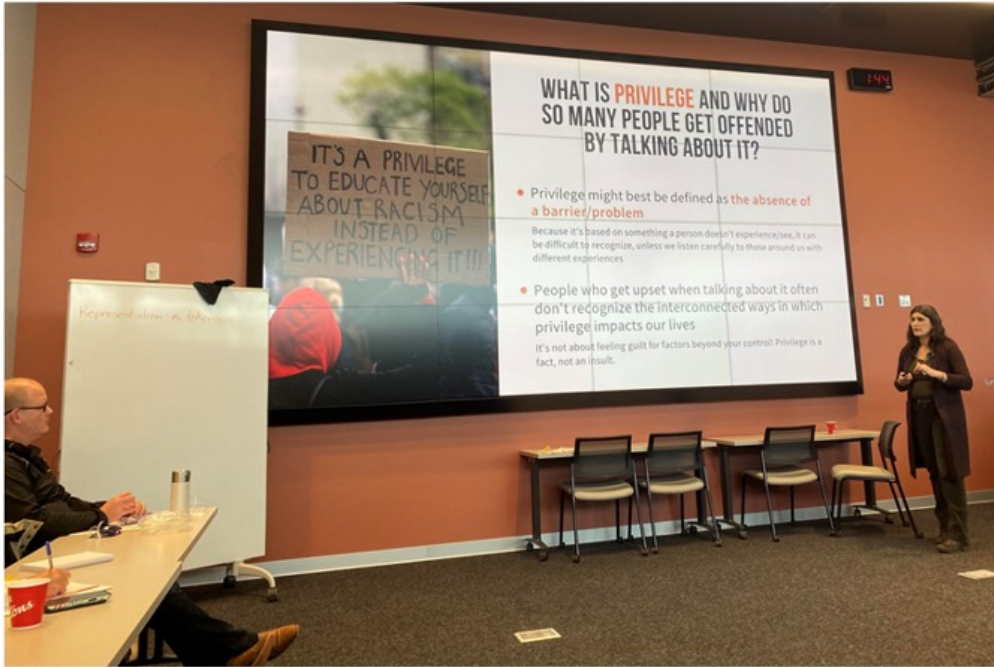
Cultural Educators Collaborative Roundtable



Hosted in Gimli, the purpose of this event was to bring cultural educators from around the province together to inform the Safe Spaces environmental scan of the good work already happening in Manitoba.



Safe Spaces Training – *from cultural awareness to cultural competency*



Safe Spaces is a dual track, Cultural Competency training program designed to create culturally safe workplaces for Indigenous work-integrated learning students and new graduates.



Future Ideas



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MB Priorities

