



ANNUAL REPORT

April 1, 2020 - March 31, 2021



CANADIAN
MOUNTAIN
NETWORK

The Canadian Mountain Network is a national not-for-profit organization that supports the resilience and health of Canada's mountain peoples and places through research partnerships based on Indigenous and Western ways of knowing that inform decision-making and action.

Visit canadianmountainnetwork.ca for more information.

Land acknowledgement

CMN is proud to be part of a rich history of Indigenous knowledge and culture, including Indigenous ways of knowing, doing and being. We recognize the historical trauma and the triumphs that many different cultures, lands and Nations have continuously faced within Canada. We acknowledge that we are on the treaty lands and territories of numerous and diverse Indigenous Nations and pay tribute to their heritage and legacy, as we strengthen ties with the communities we serve while taking concrete actions towards meaningful reconciliation. We are grateful to have the opportunity to work with Indigenous communities in advancing their vision and aspirations on this land. We pay respect to all Indigenous people from all nations across Canada, acknowledge the traditional knowledge keepers and honour their leaders.

Contact: communications@cmn-rcm.ca

Website: canadianmountainnetwork.ca

Facebook: [@CanadianMountainNetwork](https://www.facebook.com/CanadianMountainNetwork)

Twitter: [@CanMountainNet](https://twitter.com/CanMountainNet)

LinkedIn: [linkedin.com/school/canadian-mountain-network](https://www.linkedin.com/school/canadian-mountain-network)

Instagram: [@CanMountainNet](https://www.instagram.com/CanMountainNet)

This report is available on the Canadian Mountain Network website in English and French:
canadianmountainnetwork.ca/annual-report/

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Cover photo: Kananaskis Country, Alberta. Credit: BGSmith, Shutterstock

Howe Sound, taken from the top of Brunswick Mountain, North of Vancouver, BC, Canada.
Credit: EB Adventure Photography, Shutterstock

Report graphic design by Annie Webb, artsciencedesign.org

MESSAGE FROM LEADERSHIP

The Canadian Mountain Network (CMN) is a group of diverse people demonstrating strong values, consistent action, solid and novel governance, and excellence in knowledge and research of mountain systems. CMN holds a strong dedication to advancing the understanding and weaving of Indigenous and Western knowledge systems that is unmatched in Canada and a model for the international community. Our approach is crucial at a time when Canada's mountain systems are undergoing rapid and uncertain change due to climate change, resource development and biodiversity loss, and calls are strengthened for renewed nation-to-nation relationships with Indigenous peoples in Canada.

Since our launch in 2019, we have mobilized a network of Indigenous leaders, researchers and organizations, all dedicated to improving the resilience of mountain peoples and places. CMN is now on the ground working towards these goals, using the methods required to harness both Indigenous and Western ways of knowing to benefit mountain peoples and places, as well as offer a model that can be applied beyond mountain systems.

This way of doing research and mobilizing knowledge focuses on working for and with communities so that we all can achieve better environmental, economic, social, and health outcomes for Canada. CMN is committed to contributing to the process of reconciliation by harnessing environmental science and knowledge to inform policy and decision-making that better reflects the diversity of knowledge systems in Canada.

Mountain research has a bright future in Canada and for that, we must acknowledge and thank the many individuals who have supported this initiative through their knowledge, wisdom, and tireless effort. We look forward to continuing to grow these relationships and building new partnerships in the years ahead to demonstrate the incredible potential to advance sustainable development when we bring Indigenous and Western ways of knowing and doing together.



Joe Dragon

Dr. Joe Dragon
Chair, Board of Directors



Monique Dubé

Dr. Monique Dubé
Executive Director



Norma Kassi

Norma Kassi
Co-Research Director



Murray Humphries

Dr. Murray Humphries
Co-Research Director

Mountains and beyond

Although mountain regions are the focus and foundation of our network, our work extends to other landscapes connected by watersheds, rivers, the movement of wildlife, and human cultures. Our work has important implications and learnings for regions across Canada from coast to coast to coast.



Mountains cover 26.5% of land on Earth and 24% of Canada's land mass.



Mountains influence downwind, downstream communities often extending over broad spatial scales and into the oceans.



Mountains give life by supplying almost half of humanity with freshwater. They are truly the 'water towers of the world!'



Mountains provide spiritual values to many cultures and communities.



Innovative approaches to weaving Indigenous and Western knowledge systems are critical to advance reconciliation and offer the opportunity to improve how we work together.



When knowledge is co-produced by different ways of knowing and mobilized into action, then policy, regulation and decision-making will reflect authentic nation-to-nation relationships to the benefit of all Canadians.



Mount Assiniboine Provincial Park, BC.
Credit: BGSmith, Shutterstock

A NEW WAY TO BUILD KNOWLEDGE

Our purpose is to support the resilience and health of Canada's mountain peoples and places through partnerships based on Indigenous and Western ways of knowing that inform decision-making and action.

CMN funds 24 research initiatives across Canada including **seven innovative Knowledge Hubs** (pp. 6-7) and **17 traditional place-based research projects** (pp. 8-9) that bring together a larger number and diversity of participants across a larger region.

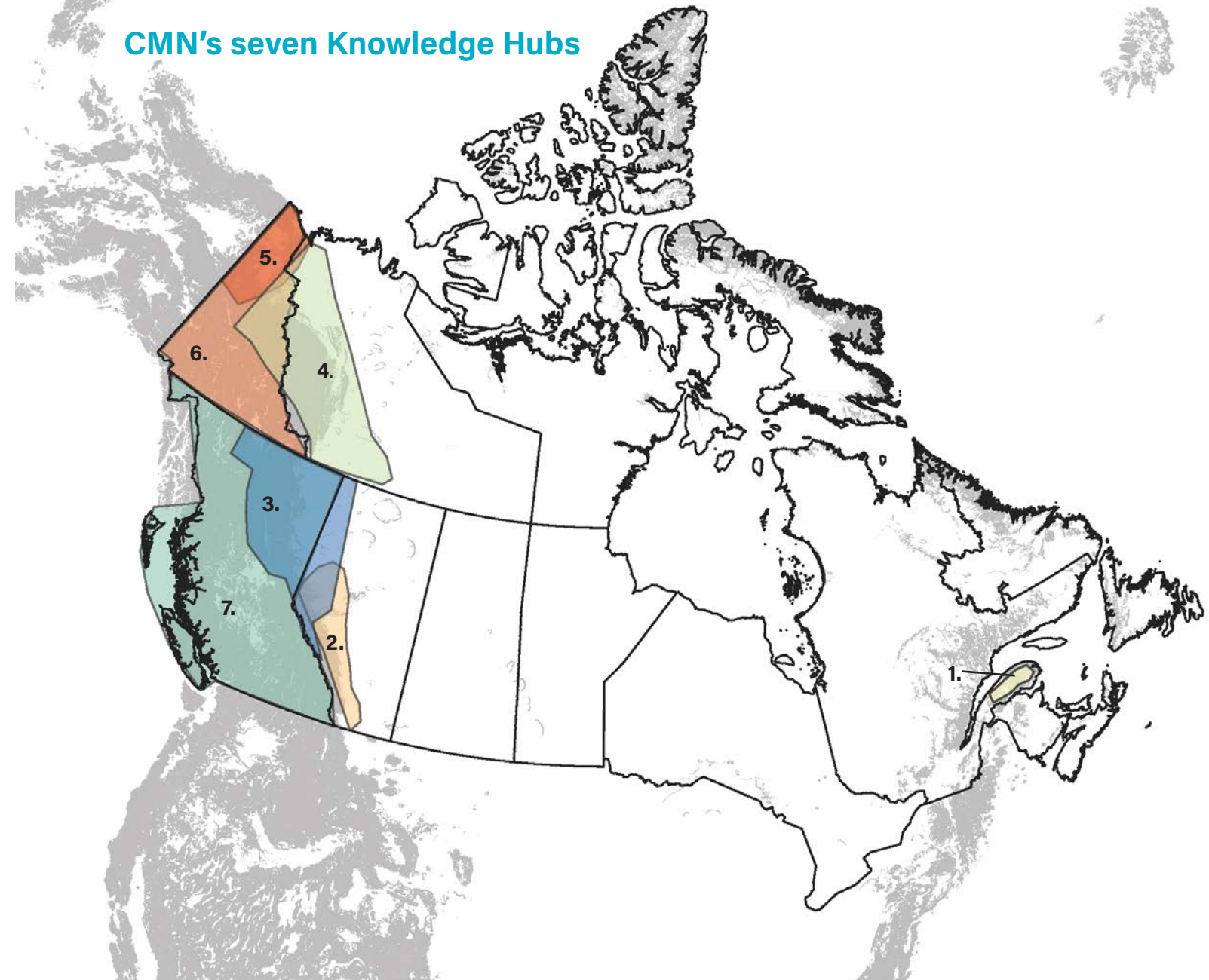
Collectively, CMN-funded research initiatives create and mobilize knowledge that is more than the sum of its parts. Indeed, CMN was the first organization of its kind to support not only academics to lead such initiatives but also Indigenous organizations. Today 50% of the Network's research grants support Indigenous-led research. Diverse teams are working collaboratively across the country to recover the traditions that have sustained Indigenous people for millennia, as well as to revitalize and apply them to contemporary challenges and opportunities. CMN's research initiatives enhance Canada's international leadership in areas of economic, environmental and social importance.

Knowledge Hubs

In June 2021, CMN announced the launch of seven Knowledge Hubs located across Canada, which were co-led and co-developed by Indigenous communities, Elders and knowledge holders and Western researchers. These centres of activity bring together diverse participants with shared knowledge needs and priorities. These hubs include complementary research, training, knowledge mobilization, and networking programs, with approaches and results shared with other hubs, the broader research community, policymakers, and the general public.

Each hub recognizes and respects the value of both Indigenous and Western ways of knowing, doing and being, and advance approaches to bringing them together in order to support evidence-based decision-making. The Hubs will enhance Canada's international leadership in areas of high current economic and social importance, including, but not limited to, reconciliation, preservation of Indigenous languages and knowledge systems, Indigenous stewardship, environmental monitoring and assessment, cumulative effects management, tourism development, economic diversification and nature conservation.

CMN's seven Knowledge Hubs



Hub highlights

\$3M
in funding in CMN's 2nd Call for Proposals

110
collaborators

\$400K
in Mitacs funding for trainees*

79
partner organizations

\$7.5M cash
\$2.7M in-kind
partner contributions**

*Trainees being recruited

**Estimates for a 3-year project starting in 2021

Hub titles

1. Developing Knowledge on the Status of Aquatic Ecosystems in Chic-Choc Mountains (CREA-CC)
2. Blackfoot Guardianship of East Slope Watershed & Weaving Blackfoot Values with Science
3. Rekindling Indigenous-Led Land Stewardship and Cultural Connections in the Rockies
4. Nió Nę P'ęñę (NNP) – Trails of the Mountain Caribou
5. Ecological Change and Livelihoods in the Porcupine Caribou Summer Range
6. Indigenous and Western Knowledge Systems to Revitalize Connection to Yukon Salmon Culture
7. Pacific Indigenous Protected and Conserved Area (IPCA) Innovation Centre

Research projects

In 2020-21, funding was approved for 17 continuing research projects focused on:

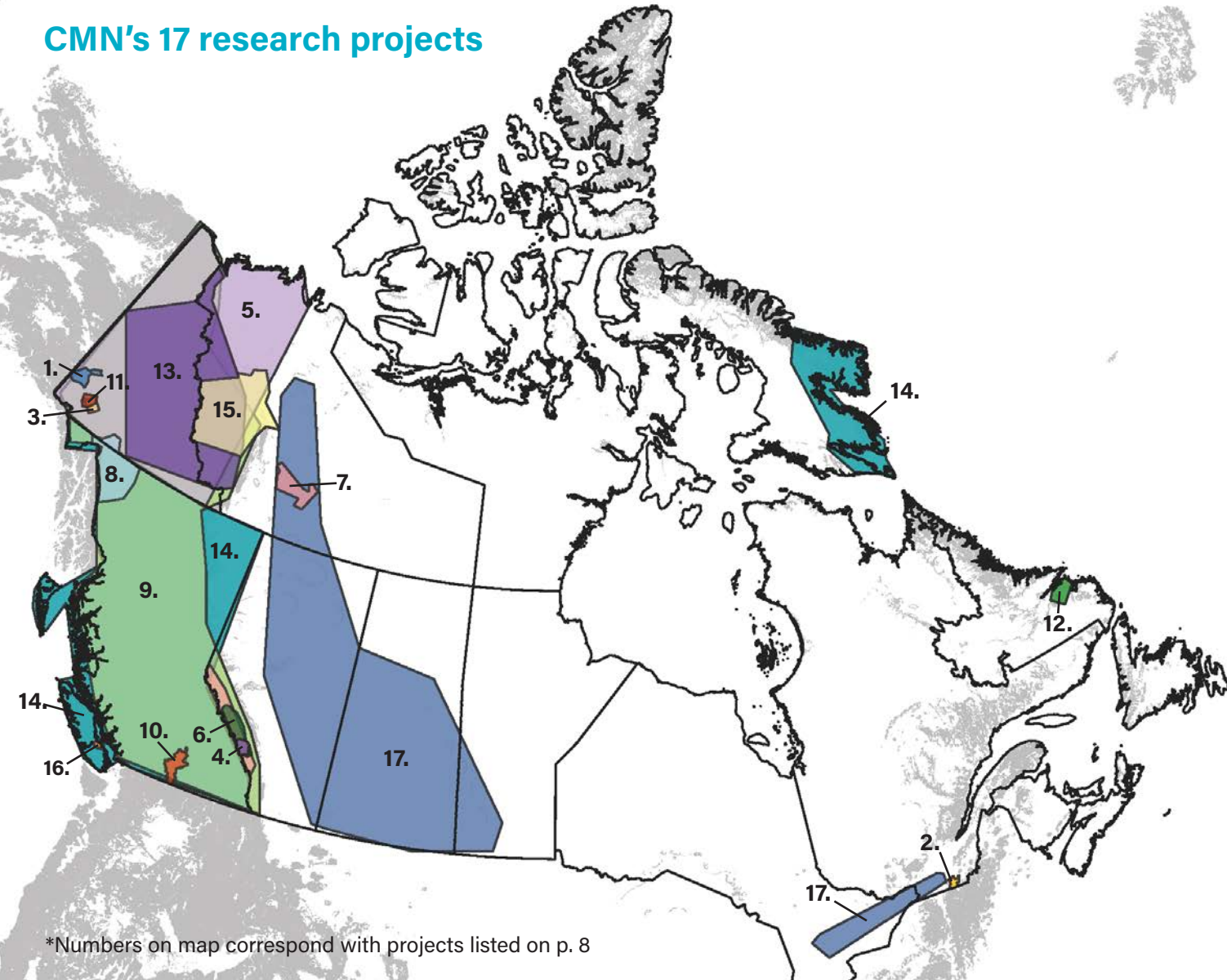
- Application of Indigenous culture and knowledge to decision-making within mountain systems;
- Integrated, continental scale understanding of the impacts of climate change and human activities on mountain systems;
- Innovative planning, risk, and governance models applicable to the unique nature of mountain systems; and
- The viability and resilience of place-based livelihoods that sustain the resilience of mountain systems.

These projects are individually and collectively focused on the resilience and health of Canada's mountain peoples and places through research partnerships based on Indigenous and Western ways of knowing that inform decision-making and action.

Project titles

1. Bringing research home: Reclaiming research to tell the story of climate change in the Kluane First Nation Traditional Territory
2. Co-creation of a governance structure: The case of a recreo-tourism development in Mont-Orford
3. Effects of climate change and human activities on mountain species and ecosystems
4. Enhancing the reintroduction of plains bison through the inclusion of cultural monitoring and traditional knowledge in Banff National Park
5. Explore, describe and develop a methodology to best account Indigenous perspectives on the value of land guardianship in mountain regions and the contributions to the biodiversity and wellbeing of their Nations
6. From the mountains to our tables: Freshwater security in three Canadian eastern Rocky Mountain watersheds
7. Indigenous land rights in Canada and New Zealand: Sustainable protected areas in rural and mountain environments
8. Łingít Kusteeyí (Tlingit way of life): Revitalizing Tlingit law for land and wildlife
9. Long-term monitoring of harvested mountain ungulates to improve their conservation and sustainable use
10. Managing groundwater resources in mountainous areas: Planning for and adapting to drought conditions
11. Mineral dust dynamics and climate change at high latitude mountainous regions
12. Mobilizing mountain metrics that matter: Inuit-led environment and health monitoring in the Mealy Mountains National Park Reserve
13. Nío Nę P'ęnę – Trails of the mountain caribou: Renewing Indigenous relationships in conservation
14. The mountain risk knowledge exchange – Building risk management capacity and resilience in mountain communities
15. The Shútagot'ine cultural landscape project
16. The View from 2117: Human actions, consequences and perspectives on mountain regions
17. Hills thought to be mountains: the biocultural value of island highlands in the continental plains

CMN's 17 research projects



Project highlights

\$5.5M

in funding in CMN's 1st Call for Proposals*

99

collaborators

114

trainees (currently)

94

partner organizations

\$1.6M cash

\$1M in-kind

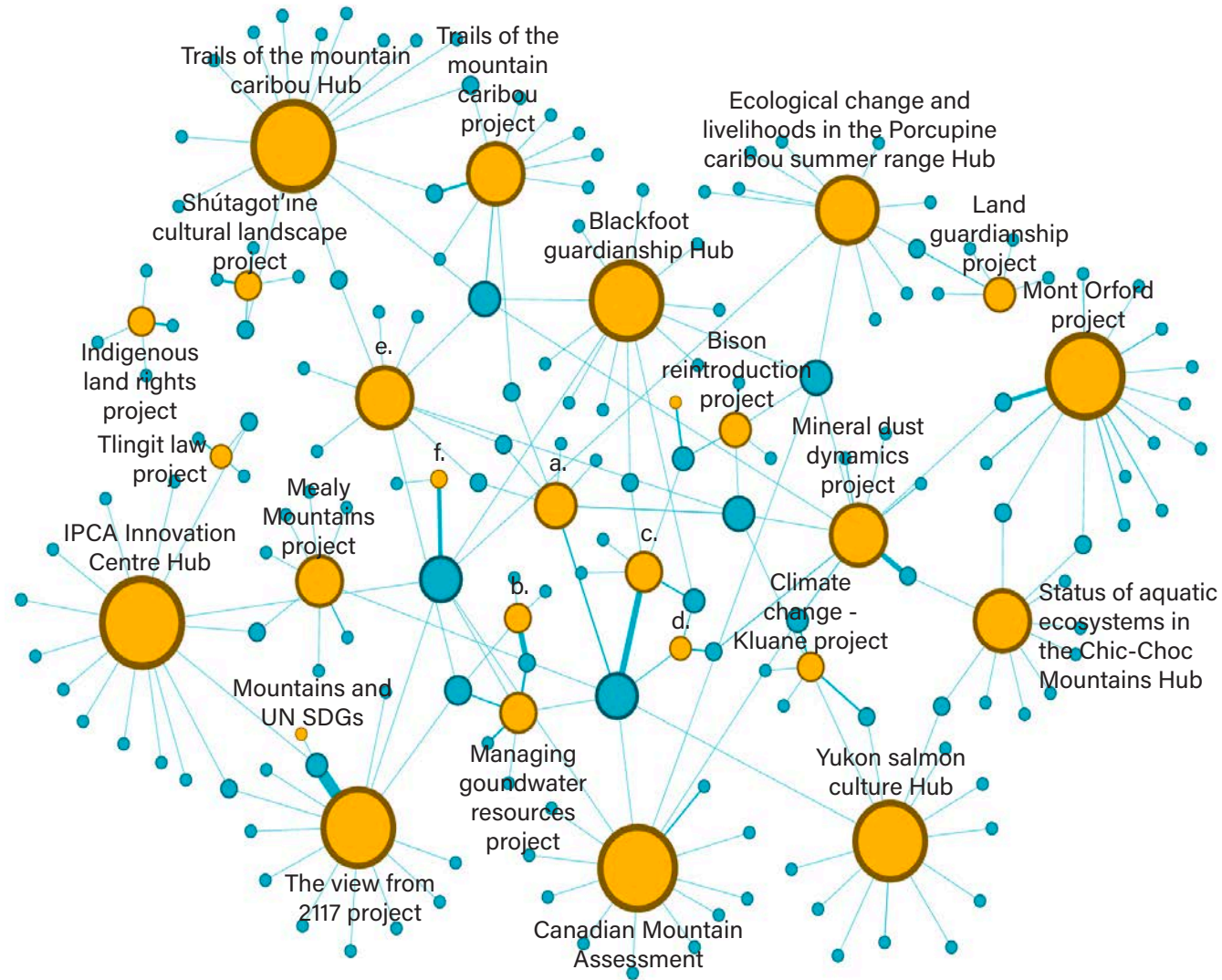
partner contributions**

*Includes \$584K in COVID-19 grant supplement from the Natural Sciences and Engineering Research Council of Canada

**For 2020-2021 only

BUILDING NEW CONNECTIONS

The diagram below demonstrates the way in which the selection of the Network's research projects and Knowledge Hubs, as well as strategic initiatives, ensure that CMN can act as the connective tissue between diverse elements of Canada's mountain research community. By fostering relationships and collaborations between ways of knowing, regions and organizations, the Network has the opportunity to leverage its investments and those of its partners to create new emergent value out of these distinct pieces.



- a. Climate change & mountain ecosystems project
- b. Mountain risk knowledge exchange project
- c. Rocky Mountain watersheds project
- d. Mountain ungulates project
- e. Rekindling Indigenous-led land stewardship in the Rockies Hub
- f. Mountain Legacy Project

Legend

- CMN initiatives
- Organizations

Our community

 **18**
Network Members*

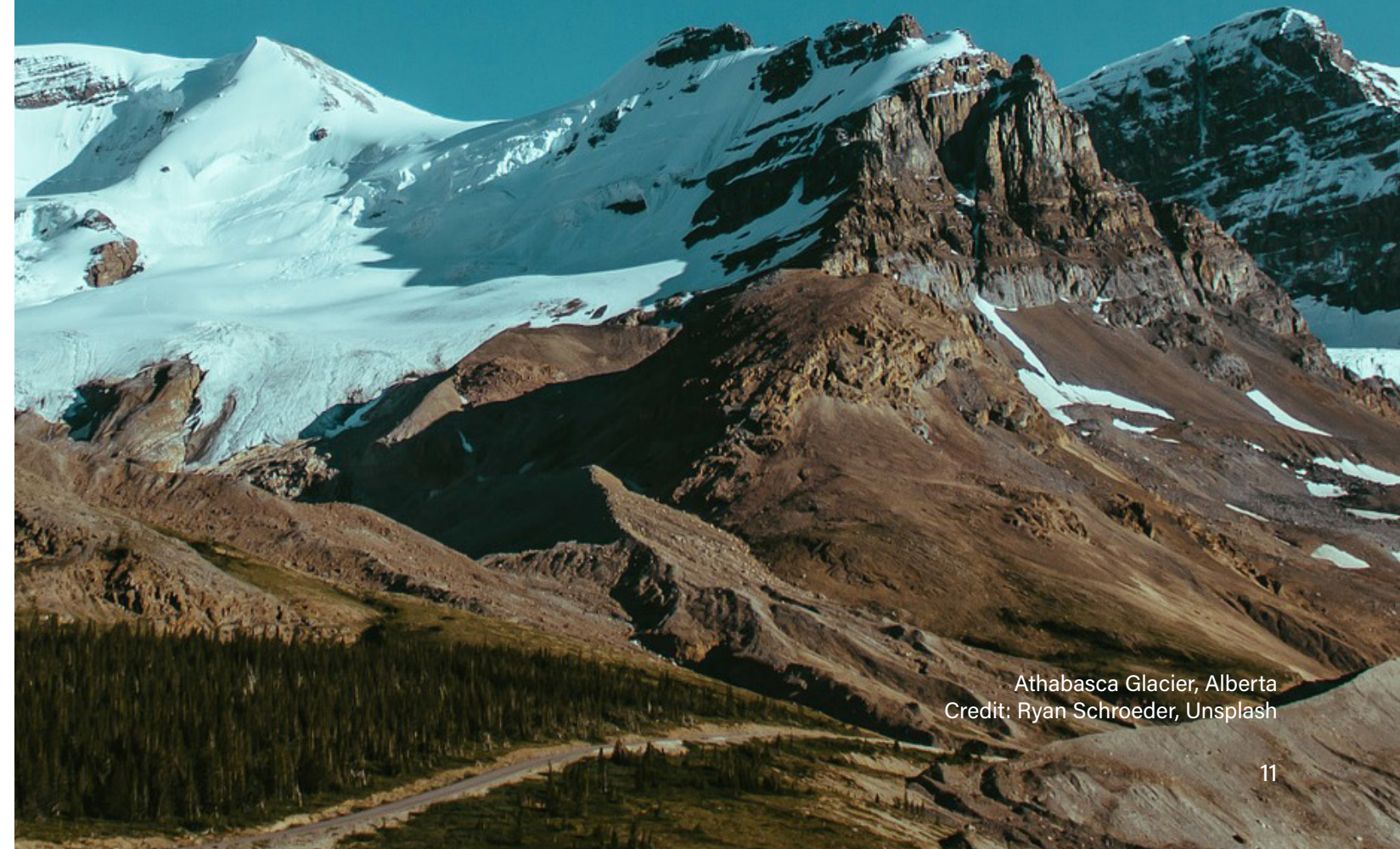
 **186**
people involved
in 24 research
initiatives

 **114+**
Indigenous and non-
Indigenous trainees

 **157**
partner organizations

 **30**
partnerships with policymakers,
including Indigenous and
non-Indigenous governments,
agencies and other bodies

*Network members are academic institutions and Indigenous organizations leading CMN-funded research or other activities. See Annex A, p. 24 for a full list.



Athabasca Glacier, Alberta
Credit: Ryan Schroeder, Unsplash

INDIGENOUS KNOWLEDGE & RECONCILIATION

Reconciliation requires a new way of conducting natural science, one that includes and respects Indigenous communities, rights and knowledge, leading to better scientific and community outcomes. One of the Principles of Reconciliation put forward by the Truth and Reconciliation Commission of Canada requires that both Indigenous knowledge systems and the land be integrated into the reconciliation process¹.

Indigenous stewardship practices passed down for generations have cultivated healthy, sustainable environments. Indigenous-led stewardship has been repeatedly cited as one of the most important yet underfunded approaches to achieve climate and conservation goals in Canada and internationally. Therefore, Indigenous knowledge is fundamental in understanding sustainability through a holistic lens.

Mountain systems research offers distinctive opportunities to support reconciliation in research, as this work is land-based and place-based. CMN is working collaboratively with diverse researchers, trainees and knowledge users across Canada to design and deliver new approaches to research that respect and empower Indigenous knowledge.



Caribou at Gros Morne National Park, Newfoundland, Canada. Credit: Jukka Jantunen, Shutterstock



CMN Co-Research Director Norma Kassi

Youth training with Norma Kassi. Credit: Arctic Institute of Community-Based Research

Land-based learning program for youth

CMN Co-Research Director Norma Kassi was awarded the prestigious 2020 Arctic Inspiration Prize (AIP) for her project in Northern Canada, which will train Indigenous youth in Indigenous-led conservation and stewardship.

Funding from AIP, together with support from CMN, will bring the total project budget to 1 million dollars, which will allow for up to 30 youth from the Yukon, Northwest Territories, and Labrador to attend 10-day training camps in 2022 and 2023. During these training camps, youth will work together on the land, live together, and learn traditional knowledge from Indigenous Elders and scientific expertise from researchers. Not only will this help build the cultural knowledge and resiliency of Indigenous youth, it will also develop community capacities to understand and respond to environmental change while at the same time contributing to the diversification and sustainability of northern economies.

Read more about Norma Kassi's project, *Youth Training in Ethical Knowledge Sharing and Co-production to Advance Northern, Indigenous-led Conservation and Stewardship*, on CMN's website: canadianmountainnetwork.ca/norma-kassi-awarded-arctic-inspiration-prize.

Partners:



Actions taken to weave Indigenous knowledge into CMN



Training sessions on ethical knowledge sharing and co-production across CMN.

40%

of funding to Indigenous-led research for CMN's first Call for Proposals - Research Projects (see pp. 8-9).



CMN's Indigenous Circle of Advisors advises the Board of Directors, which is itself 40% Indigenous, as well as Board committees (see Annex A on p. 24 for list of members).

50%

of funding to Indigenous-led research for CMN's second Call for Proposals - Knowledge Hubs (see pp. 6-7).



Establishment of a land-based learning program for Indigenous and non-Indigenous youth (see p. 13).

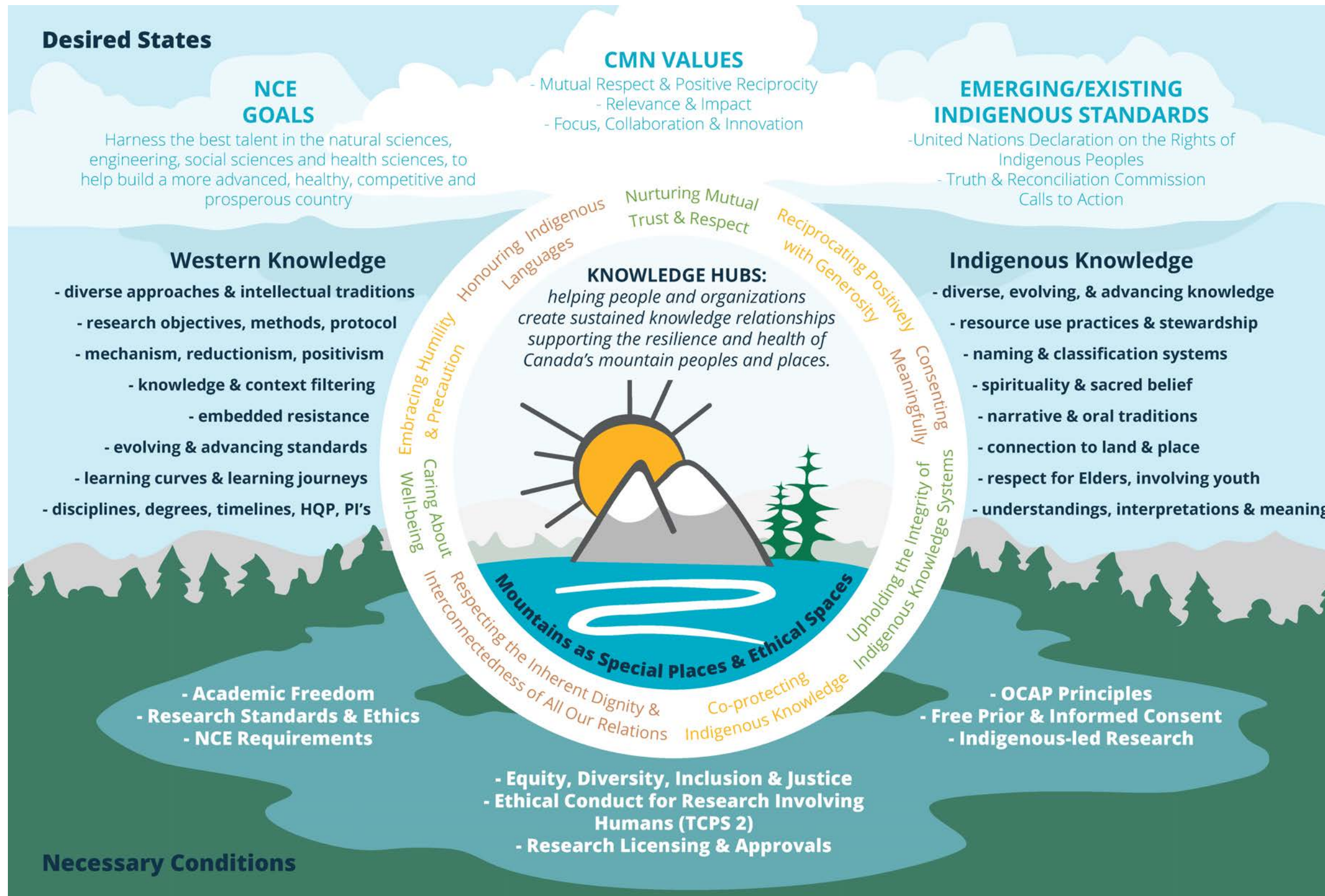


Curation and sharing of training opportunities related to Indigenous histories, cultures and knowledge.

1. See Truth and Reconciliation Commission reports: nctr.ca/records/reports

CMN'S ETHICAL SPACE MODEL

“A space between the Indigenous and Western spheres of culture and knowledge” that “needs to be envisioned since the distance also inspires an abstract space of possibility” and “the positioning of which... creates the neutral zone of dialogue.” - Willie Ermine (2000)



Before launching the seven Knowledge Hubs, CMN's Committees developed an ethical space model to identify a Knowledge Hub funding process that is inclusive, honours different ways of knowing, prioritizes values and relationships, and encourages innovation.

The presentation of Western knowledges on the left and Indigenous knowledges on the right reflects CMN's prioritization of both knowledge approaches and our recognition of their distinctions, commonalities, inherent validity, and diversity.

Ethical space is represented by the large circle at the center of the image. This neutral zone of possibilities is the ethical space where knowledge systems have the potential to meet and interact.

Nine principles (from Ethical Guidance for Knowledge Sharing Across Indigenous and Western Scientific Knowledge Systems, Ethics Circle 2021) are framing the circle. The nine principles support the creation of ethical space and guide ethical knowledge sharing between knowledge systems.

These Ethical Guidances offer inspiration and inform collaborations within and between Knowledge Hubs. Ethical space, recognized as a respectful process of reciprocal learning and exchanges about how we relate to mountain places, is seen as vital to the work of Knowledge Hubs.

Citation:

Ethics Circle (2021). Ethical Guidance for Knowledge Sharing Across Indigenous and Western Scientific Knowledge Systems. July 1 draft version, under review. Final version forthcoming.

Illustration by Alexandra Langwieder

RESTORING WILDLIFE & INDIGENOUS RIGHTS

CMN funds multiple projects that are restoring Indigenous knowledge systems to recover and sustain the traditions of Indigenous peoples across Canada. For example, results from some projects with wildlife will inform Indigenous on-the-ground recovery of wildlife populations like caribou and bison, which will inform future policy and conservation agreements on habitat restoration in collaboration with Indigenous peoples.

1. Reclaiming research to tell the story of climate change in the Kluane First Nation Traditional Territory

The aim to collaboratively study how the Kluane First Nation can actively drive, enhance and participate in research in their Traditional Territory.

2. Nío Nę P'ęne - Trails of the mountain caribou: renewing Indigenous relationships in conservation

This project focuses on the health of mountain caribou and Dene ways of life. Partnering communities are developing a plan for research, monitoring and land protection to achieve their vision for keeping Dene language, ways of life and law strong in coexistence with caribou.

3. Ɓingít Kusteeyí (Tlingit way of life): Revitalizing Tlingit law for land and wildlife

Taku River Tlingit First Nation believe that wildlife management needs to be strongly grounded in Tlingit laws and values that are consistent and well-articulated for outside parties to understand. The main objective of this project is to engage constructively with Tlingit law, articulate these laws, and apply them as a guiding force to rebuilding the relationship between wildlife and humans in the territory.

4. The Shútagot'ine cultural landscape project

This project is promoting the conservation of cultural values in the Shútagot'ine (Mountain Dene) homeland through the restoration of Indigenous geographic place names and archaeological research on cultural places at risk of impacts from climate change. Lessons learned from this work will improve best practices for the efficient preservation of cultural values at risk.

5. Enhancing bison re-introduction in Banff National Park through traditional knowledge

This project aims to identify resources of traditional and cultural value within the reintroduction zone, document traditional knowledge and observe bison populations and habitat through cultural monitoring. This research is providing opportunities for cultural exchange between Stoney Nakota and Parks Canada, as well as the provision of recommendations for wildlife and land management practices.



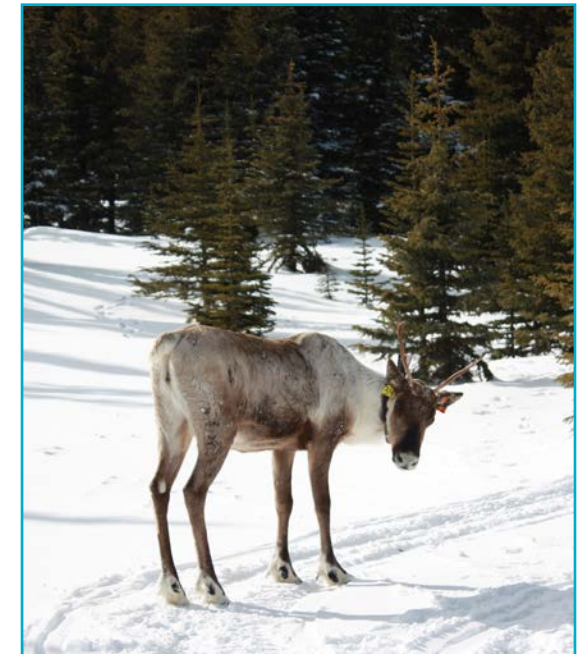
Stoney Trail Riders and Parks Canada staff after a five-day trail ride from the Bison Reintroduction Zone in Banff National Park

BC's First Nations lead the recovery of mountain caribou

Caribou conservation is one of Canada's most important ecological challenges. For millennia, many Indigenous Peoples lived alongside and relied upon caribou, a species of great cultural and ecological importance. Unfortunately, caribou populations have severely declined across Canada due to habitat loss caused by human activities, such as logging, dams and roads.

The recovery of caribou populations brings together legal, ecological and human-rights issues. Although restoration of caribou holds great promise for both reconciliation and conservation, conflicts remain between legal frameworks, economic growth and evidence-based policy.

With funding from CMN, postdoctoral fellow Dr. Clayton Lamb is working with Indigenous and academic partners to identify how and where to successfully restore mountain caribou to ecologically and culturally significant numbers in British Columbia's Peace Region ("the Peace"). Healthy caribou populations are integral to healthy, whole ecosystems in the Peace, which has been home to Indigenous Peoples since time immemorable.



The southern mountain caribou has suffered 60% declines and is listed as endangered under the Species at Risk Act (SARA). Credit: Line Giguere

"This Partnership Agreement marks an important commitment by indigenous, federal, and provincial governments to recover these caribou and their habitat."

- Dr. Clayton Lamb



Indigenous guardians, Dr. Clayton Lamb and research team during the March 2020 caribou pen capture. Credit: Line Giguere

The West Moberly and Sauleau First Nations have been leading a substantial effort to recover the Klinse-Za caribou herd in their traditional territory before the animals are gone forever. Thanks to short-term population management strategies like maternal penning and wolf control, the herd increased from 36 animals in 2013 to 85 in 2020.

In 2020, the First Nations were successful in securing a landmark Partnership Agreement with federal and provincial governments to protect over 8000 square kilometres of caribou habitat. The First Nations' goal is to achieve a recovered caribou population large enough to satisfy their legal treaty rights for hunting.

Project partners include the Canadian Mountain Network, West Moberly First Nation, Sauleau First Nation, University of British Columbia, University of Montana, Wildlife Infometrics, Yellowstone to Yukon Conservation Initiative, and British Columbia's Ministry of Forests, Lands and Natural Resource Operations.

SUPPORTING CANADA'S COMMITMENTS

UN Sustainable Development Goals¹ (SDGs) and the UN Declaration of the Rights of Indigenous Peoples² (UNDRIP)

CMN is committed to advancing sustainable mountain development by engaging in collaborative, interdisciplinary research that addresses issues and relationships between mountain environments, economies, and society,

But how does CMN's work align with and contribute to the global agenda for the SDGs?

Through a collaboration between CMN and the Mount Arrowsmith Biosphere Region Research Institute (MABRRI), this question is answered by highlighting and reporting on the linkages between CMN research initiatives and the 17 SDGs to demonstrate the importance of stakeholder engagement and collaborative research in meeting the SDGs.

“There should be a Sustainable Development Goal based on Indigenous Knowledge, as it relates to sustainability. Many cultural aspects of land cannot currently be captured in the existing SDGs.”

-William Snow, CMN Principal Investigator

This project also evaluates CMN's contributions to the United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP), as the SDGs do not address the connection of Indigenous knowledge and culture to sustainable development.

UNDRIP is currently the most comprehensive international instrument on the rights of Indigenous peoples. Therefore, both UNDRIP and the SDGs are necessary frameworks for ensuring that sustainable development is equitable with Indigenous communities.

In only two years, CMN research, knowledge mobilization, and partnership facilitation has contributed to significant advances towards eight out of 17 SDGs, while still making progress to advance an additional five SDGs. Overall, CMN aligns with the following SDGs:



CMN's work addresses the following UNDRIP Articles: 3, 11.1, 13.1, 13.2, 14.3, 15.1, 18, 19, 20.1, 23, 25, 26.3, 27, 29.1, 31.1, 35.

Program highlight: the Canadian Mountain Assessment



Across Canada, there has yet to be a continental-scale assessment of the nation's mountain systems. The Canadian Mountain Assessment (CMA) is responding to the need by examining and evaluating existing knowledge to determine what is known, what is not

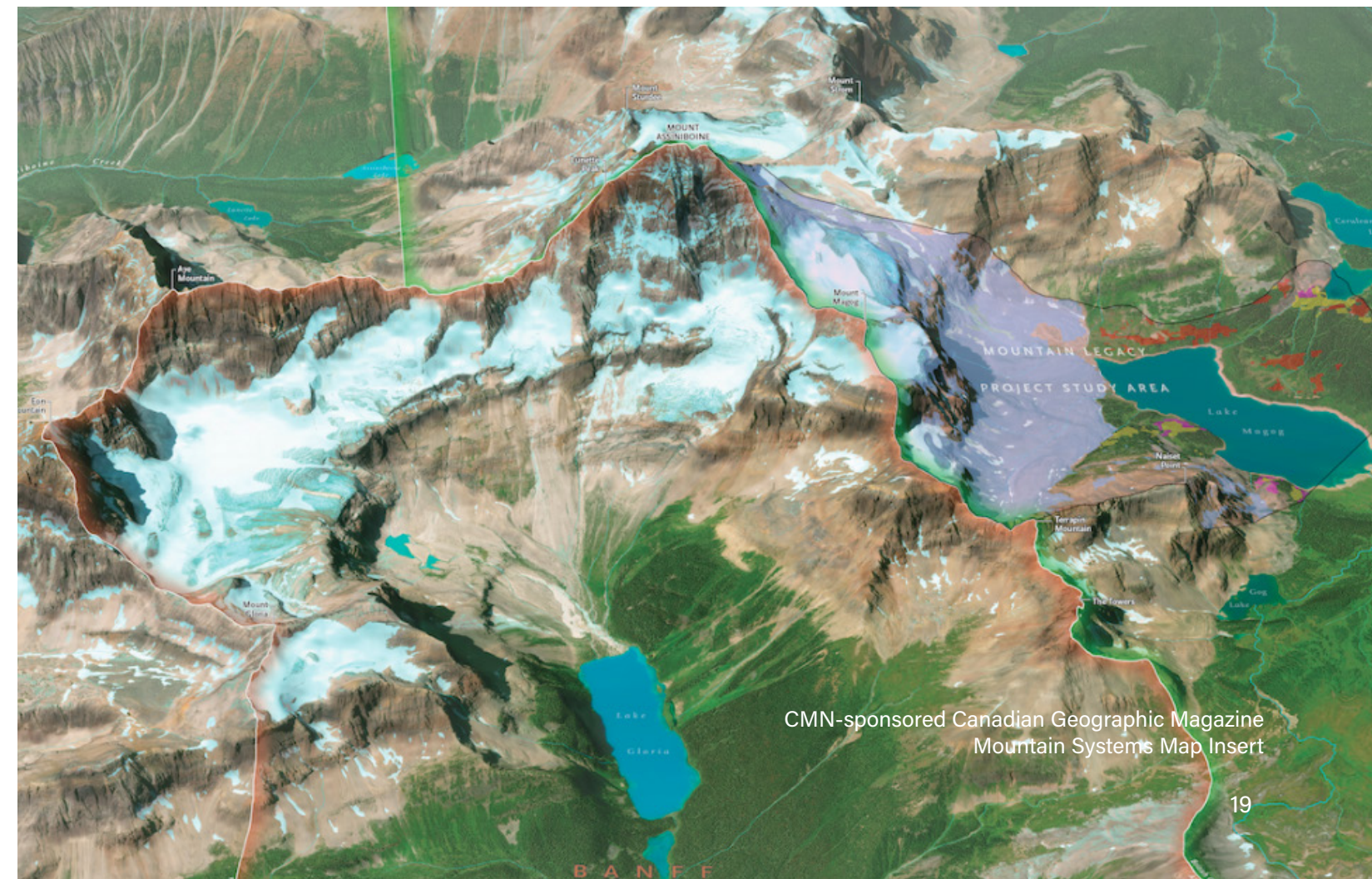
known, and what needs to be known about mountain systems in Canada.

The CMA is developing and advancing a more holistic approach by braiding Indigenous and Western knowledge together to improve our understanding of the environmental, social, cultural, and economic status of Canadian mountains.

In addition to ensuring that information collected and disseminated through the CMA is valuable to all communities and stakeholder groups, the Assessment's governance, methodology, and structure was developed through thoughtful partnerships that ensure the inclusion and leadership of Indigenous voices.

Not only is the CMA advancing an inclusive assessment of existing knowledge about mountains, it also provides a platform to build new community networks among Canadian mountain regions and mountain research themes.

The Canadian Mountain Assessment touches on the following SDGs:



1. SDG website: sdgs.un.org/goals

2. Read the UNDRIP Declaration: www.justice.gc.ca/eng/declaration/read-lire.html

KNOWLEDGE MOBILIZATION

CMN is committed to action-based research that leads to real-world change, while at the same time advancing our understanding of mountain systems. In addition to project-specific knowledge mobilization plans targeting relevant research and knowledge user communities, the Network has designed a variety of tools to connect research results to policymakers and the Canadian public. These include events, sharing news and opportunities, disseminating educational materials, briefing decision-makers, and developing custom communications products. Below are just a few examples of Network initiatives that ensure CMN's knowledge is mobilized.

Canadian Mountain Podcast

The Canadian Mountain Podcast highlights important discussions relevant to mountain research and issues in Canada and around the world. The podcast is also a student training partnership with the Journalism Program at Mount Royal University in Calgary.

Visit iTunes or wherever you get your podcasts to subscribe!



Sponsorship of the Reconciling Ways of Knowing Forum

In early 2020, CMN sponsored a series of online dialogues hosted by the Reconciling Ways of Knowing Forum (RVoK), focusing on topics related to Indigenous knowledge and science for the benefit of our shared natural world. RVoK has been remarkably successful with 350 - 1,000 participants at each dialogue.

CMN also partnered with RVoK for the dialogue, *Why Mountains Matter: Bringing Indigenous Knowledge and Science Together for International Mountain Day*. In addition, several CMN members regularly participate in RVoK dialogues, along with speakers from the David Suzuki Foundation, the Turtle Lodge Centre for Indigenous Education and Wellness, and the Indigenous Leadership Initiative.

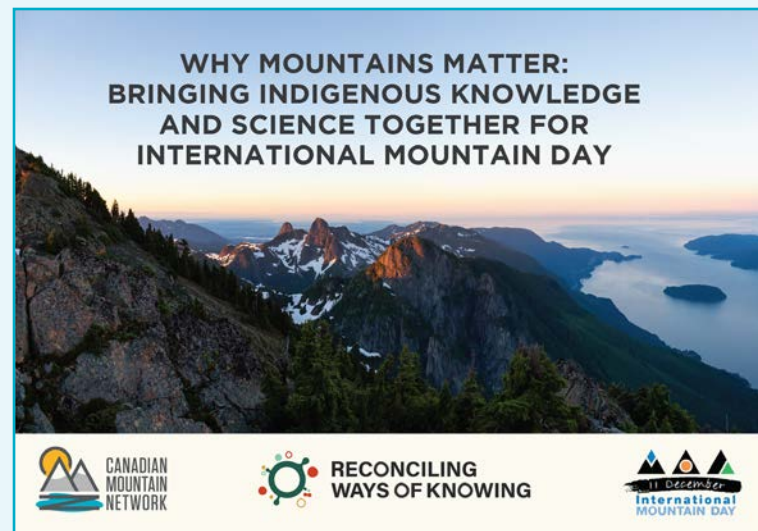
5,502
Annual podcast downloads

#1 episode:
Covid-19 & Mountain Tourism

CanGeo educational curriculum

CMN partnered with Canadian Geographic to produce an online curriculum for grades 7-10 to discover why mountains matter using a case study of Mount Assiniboine.

Students learn how mountains play a significant role in connecting Indigenous and non-Indigenous communities, as well as anthropogenic impacts humans have had on mountain ecosystems and biodiversity. The lesson plan accompanies the article, "Mountains Matter" by CMA Lead Graham McDowell and the "Iconic Rock" pull-out map from the 2020 Nov/Dec issue of Canadian Geographic.



CMN-sponsored online event for IMD

Network activity highlights

As of March 31st, 2021

Geographic reach

98.6% of Canada



Communications subscribers

8,441

Annual website visitors

68,006



Article views

4,884,000

Stoney looks to study cultural significance in Banff bison reintroduction

"It was very humbling. Way on top of the ridge, you could feel it - 200 years ago, this is where the buffalo roamed and we were in our ancestor's footsteps."

Sep 21, 2020 3:00 PM By: Jenna Dulewich



Unique publications, technologies, innovations produced by CMN-supported research teams

55+



3 / 5 Chiniki rider Conrad Rabbit shares a quiet moment with his horse Nugget after visiting the bison territory in Banff National Park on Saturday (Sept. 12). EVAN BUHLER RMO PHOTO

REACHING BEYOND MOUNTAINS

Mountain systems impact Canadians living both near and far from them, through connections with watersheds, rivers, the movement of wildlife, and human cultures and ways of life. CMN is working together with Indigenous knowledge holders and Western scientists to improve public and policy-maker understanding and appreciation of these distinct and iconic landscapes.

We'd like to hear from you! Get involved with CMN

Would you like to know more about CMN and our work? Do you have an idea for how we can work together? We want to hear from you!

Board Chair

Dr. Joe Dragon

Executive Director

Dr. Monique Dubé

Co-Research Directors

Norma Kassi & Dr. Murray Humphries

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Twitter: [@CanMountainNet](https://twitter.com/CanMountainNet)

LinkedIn: www.linkedin.com/school/19127696/admin/

Instagram: www.instagram.com/canmountainnet/

Mountains in the Montérégie region of Quebec.

Credit: Annie Webb

ANNEXES

Annex A: Our Network

(as of August 6th, 2021)

Network members

Aurora College
Kluane First Nation
Torngat Wildlife, Plants and Fisheries Secretariat
Sahtú Renewable Resources Board
Simon Fraser University
Mount Royal University
T'Akhu A Tlen Conservancy
University of Alberta
Thompson Rivers University
Université Laval
Université de Montréal
Université de Sherbrooke
University of Saskatchewan
Vancouver Island University
University of Calgary
McGill University
University of Victoria
University of British Columbia

Board of Directors

Dr. Joe Dragon (Chair)
Paulette Fox (Vice Chair), President/Owner, Harmony Walkers Inc.
Kelly Sloan (Treasurer), Owner, Sloan Leadership Consulting/Odyssey Adventures for Women
Alida Thomas (Secretary), Director of Research and Programs, Kinvest Global
The Hon. Ethel Blondin-Andrew, P.C., Former Member of Parliament for Western Arctic/Minister of State for Northern Development and Former Chair of the Sahtu Secretariat

Charity Callahan, MBA, ICD.D, Director, Callahan Services Inc.
Laurel Carlton, Founder and Principal, Summit in Stride
Dr. Walter Dixon, Associate Vice President, Research and Priority Initiatives, University of Alberta
Lynne Hatley (Treasurer), Director, Development and Communications (Alberta), Nature Conservancy of Canada
Lawrence Ignace, PhD Student, University of Victoria
Jocelyn Joe-Strack, Indigenous Knowledge Research Chair, Yukon Research Centre, Yukon University
Dr. Maribeth Murray, Executive Director, Arctic Institute of North America
Dr. Niall O'Dea, Senior Assistant Deputy Minister, Strategic Policy, Fisheries & Oceans Canada
Dr. Mark Prystupa, General Manager, Indigenous and Community Relations, Suncor Energy Inc.
Wendy Wan, Senior Consultant, Humanity Financial Management Inc.

Governance Committee

Alida Thomas (Chair), Director of Research and Programs, Kinvest Global
Charity Callahan, MBA, ICD.D, Director, Callahan Services Inc.
Paulette Fox, President/Owner, Harmony Walkers Inc.
Lawrence Ignace, PhD Student, University of Victoria
Dr. Joe Dragon (ex officio)

Finance, Audit and Risk Committee

Kelly Sloan (Chair), Owner, Sloan Leadership Consulting/Odyssey Adventures for Women
Dr. Mark Prystupa, General Manager, Indigenous and Community Relations, Suncor Energy Inc.
Wendy Wan, Senior Consultant, Humanity Financial Management Inc.
Dr. Joe Dragon (ex officio)

Research Management Committee

Andrew Applejohn (Chair), Senior Science Advisor, Department of Environment and Natural Resources, Government of the Northwest Territories
Paulette Fox, President/Owner, Harmony Walkers Inc.
Meagan Grabowski, Meagan Grabowski Consulting, Researcher, Biologist and Yukon University Instructor
Dr. Eric Higgs, Professor and former Director of the School of Environmental Studies, University of Victoria
Dr. Murray Humphries, CMN co-Research Director & McGill Northern Research Chair/Director, Center for Indigenous Peoples' Nutrition and Environment (CINE), McGill University
Lawrence Ignace, PhD Student, University of Victoria
Mary Jane Johnson, Lhu'ààn Mân Ku Dañ Elder
Norma Kassi, CMN co-Research Director; Adjunct Professor, McGill University; Principle, Kassi Consulting
Dr. Julia Klein, Professor, Department of Ecosystem Science & Sustainability, Colorado State University and Head of the Mountain Sentinels Network
Marlin Legare, Research Associate, Morning Star Lodge, a lab of the University of Saskatchewan College of Medicine's Indigenous Peoples' Health Research Centre
Dr. Cathryn Ryan, Associate Dean of Research, Faculty of Science, University of Calgary
Dr. Joe Dragon (ex officio)

Indigenous Circle of Advisors

Andrew Applejohn, Senior Science Advisor,

Department of Environment and Natural Resources, Government of the Northwest Territories

The Hon. Ethel Blondin-Andrew, P.C., Former Member of Parliament for Western Arctic/Minister of State for Northern Development and Former Chair of the Sahtu Secretariat

Paulette Fox, President/Owner, Harmony Walkers Inc.

Jocelyn Joe-Strack, Indigenous Knowledge Research Chair, Yukon Research Centre, Yukon University

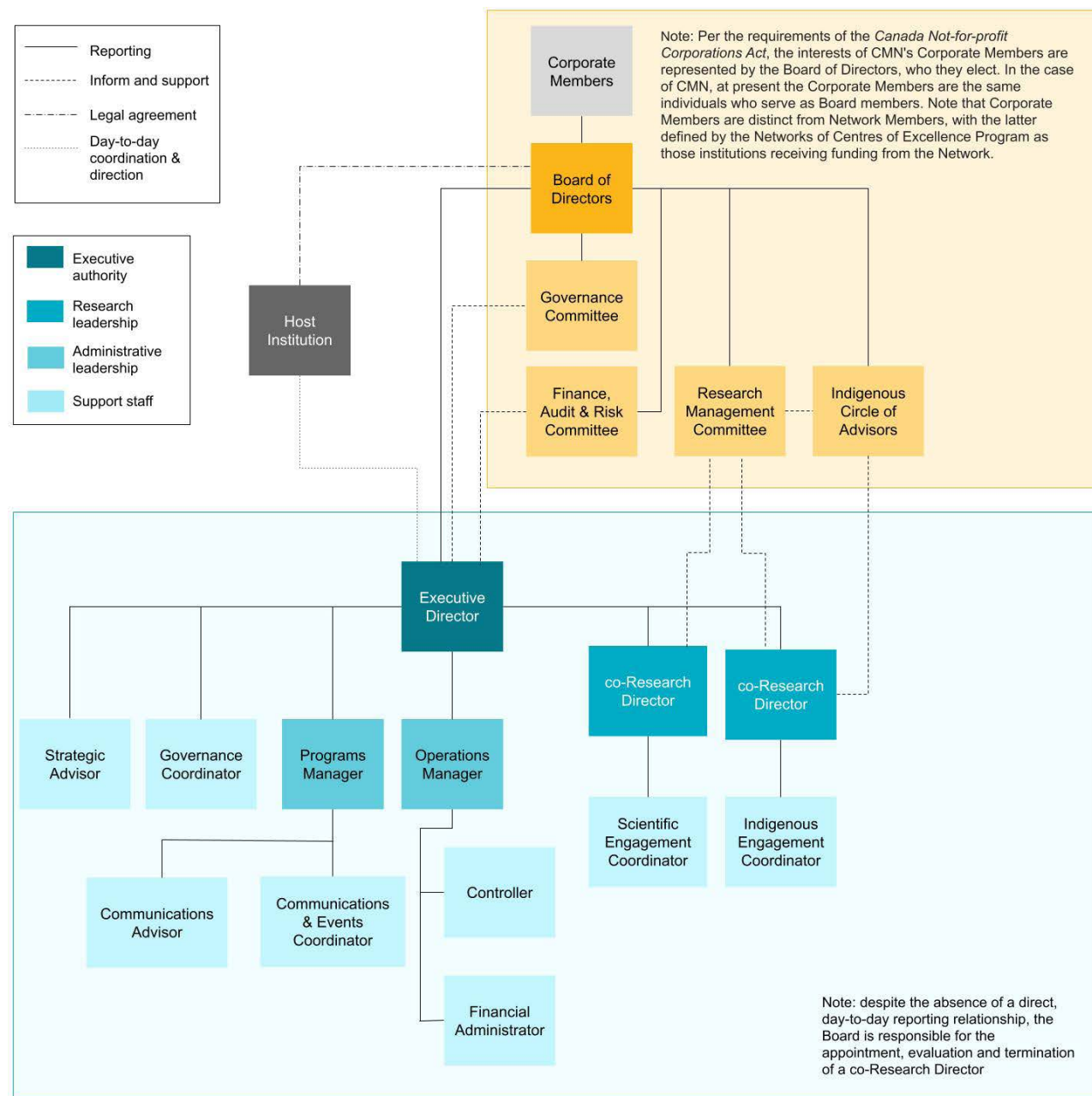
Norma Kassi, CMN co-Research Director; Adjunct Professor, McGill University; Principle, Kassi Consulting

Dr. Joe Dragon (ex officio)

Network Staff

Norma Kassi, co-Research Director
Dr. Murray Humphries, co-Research Director
Dr. Monique Dubé, Executive Director
Ainsley Sykes, Operations Manager
Nicole Olivier, Programs Manager
Matthew Berry, Strategic Advisor
Dr. Jen Feikes, Controller
Charity Akinseloyin, Financial Administrator
Hannah Ordway, Governance Coordinator
Kirsten Bowser, Scientific Engagement Coordinator
Sam Titze, Indigenous Outreach and Engagement Assistant
Kimberley Harbour, Communications and Events Coordinator
Annie Webb, Communications Advisor

CMN Organizational Chart



Annex B: 17 Research Projects in CMN's first Call for Proposals

1. Bringing research home: Reclaiming research to tell the story of climate change in the Kluane First Nation Traditional Territory

Principal Investigator: Kate Ballegooyen (Natural Resources Manager/Lands Resources and Heritage, Kluane First Nation, Burwash Landing)
 Research location: Kluane First Nation Traditional Territory, Yukon Territory.

2. Co-creation of a governance structure: The case of a recreo-tourism development in Mont-Orford

Principal Investigator: Dr. Laurent Bourdeau (Professor, Department of Geography, Laval University)
 Research location: Mont-Orford region, Québec.

3. Effects of climate change and human activities on mountain species and ecosystems

Principal Investigator: Dr. Stan Boutin (Professor, Department of Biological Sciences, University of Alberta)
 Research locations: British Columbia and Yukon Territory.

4. Enhancing the reintroduction of plains bison through the inclusion of cultural monitoring and traditional knowledge in Banff National Park

Principal Investigator: William Snow (Consultation Manager, Stoney Tribal Administration)
 Research location: Banff National Park, Alberta.

5. Explore, describe and develop a methodology to best account Indigenous perspectives on the value of land guardianship in mountain regions and the contributions to the biodiversity and well-being of their Nations

Principal Investigator: Norma Kassi, CMN co-Research Director & Adjunct Professor, Faculty of Science, McGill University
 Research locations: Yukon, Northwest Territories, British Columbia, Quebec, Newfoundland & Labrador.

6. From the mountains to our tables: Freshwater security in three Canadian eastern Rocky Mountain watersheds

Principal Investigator: Dr. Vincent St. Louis (Professor, Department of Biological Sciences, University of Alberta)
 Research locations: Banff National Park and Jasper National Park, Alberta.

7. Indigenous land rights in Canada and New Zealand: Sustainable protected areas in rural and mountain environments

Principal Investigator: Dr. Courtney Mason (Associate Professor & Canada Research Chair in Rural Livelihoods and Sustainable Communities, Thompson Rivers University)
 Research locations: Alberta (Banff National Park, Jasper National Park, Yoho National Park); Northwest Territories (Mackenzie Bison Sanctuary); and New Zealand (Urewera National Park).

8. Ɓingít Kusteeyí (Tlingit way of life): Revitalizing Tlingit law for land and wildlife

Principal Investigator: Dr. Aimee Schmidt (Executive Director, T'akhu Ɓ Tlèn Conservancy)
 Research location: Taku River Tlingit Traditional Territory, British Columbia and Yukon Territory.

9. Long-term monitoring of harvested mountain ungulates to improve their conservation and sustainable use

Principal Investigator: Dr. Marco Festa-Bianchet (Professor, Department of Biology, University of Sherbrooke)
 Research locations: Yukon Territory, the Northwest Territories, British Columbia, and Alberta.

10. Managing groundwater resources in mountainous areas: Planning for and adapting to drought conditions

Principal Investigator: Dr. Diana Allen (Professor, Earth Sciences, Simon Fraser University)
 Research location: Okanagan Basin, British Columbia.

11. Mineral dust dynamics and climate change at high latitude mountainous regions

Principal Investigator: Dr. James King (Assistant Professor in Geomorphology Wind Erosion Lab, Department of Geography, University of Montreal)

Research location: Łhù'ààn Mân (Kluane Lake), Yukon Territory.

12. Mobilizing mountain metrics that matter: Inuit-led environment and health monitoring in the Mealy Mountains National Park Reserve

Principal Investigator: Inez Shiwak, Torngat Wildlife, Plants, and Fisheries Secretariat

Research location: Mealy Mountains, Labrador.

13. Níó Nę P'ęņę́ - Trails of the mountain caribou: Renewing Indigenous relationships in conservation

Principal Investigator: Leon Andrew (Shúhtagot'įne Elder/Ancien, Tulít'a Dene Band, Sahtú Renewable Resources Board)

Research location: Mackenzie Mountains, Yukon Territory and the Northwest Territories.

14. The mountain risk knowledge exchange - Building risk management capacity and resilience in mountain communities

Principal Investigator: Dr. Glyn Williams-Jones (Co-Director, Centre for Natural Hazards Research / Professor, Volcanology, Simon Fraser University)

Research locations: Lil'wat Nation/Squamish-Lillooet Regional District, British Columbia; various Nunavut communities.

15. The Shútagot'ine cultural landscape project

Principal Investigator: Glen MacKay (Territorial Archaeologist, Cultural Places Program, Government of the Northwest Territories)

Research location: Mackenzie Mountains, Northwest Territories.

16. The View from 2117: Human actions, consequences and perspectives on mountain regions

Principal Investigator: Dr. Pamela Shaw (Research Director, Mount Arrowsmith Biosphere Region Research Institute, Vancouver Island University)

Research location: Mount Arrowsmith Biosphere Reserve, British Columbia.

17. Hills thought to be mountains: the biocultural value of island highlands in the continental plains

Principal Investigator: Dr. Murray Humphries, CMN co-Research Director & McGill Northern Research Chair/Director, Center for Indigenous Peoples' Nutrition and Environment (CINE), McGill University.

Research locations: Canada's continental plains (Northwest Territories, Alberta, Saskatchewan, Manitoba, Ontario and Quebec)

Annex C: Seven Knowledge Hubs in CMN's second Call for Proposals

1. Developing Knowledge on the Status of Aquatic Ecosystems in the Chic-Choc Mountains (CREA-CC)

Knowledge Leaders:

- Catherine Lambert, Executive Director, Mi'kmaq Maliseet Aboriginal Fisheries Management Association
- Louise Chavarie, Associate Professor, The Norwegian University of Life and Sciences

Research location: Chic-Choc Mountains, Gaspésie, Quebec.

2. Blackfoot Guardianship of East Slope Watershed and Weaving Blackfoot Values with Science

Knowledge Leaders:

- Kimmy Houle, Blackfoot Confederacy Tribal Council
- Member of the Kainai Nation (Blood Tribe)
- Laura Lynes, The Resilience Institute

Research location: Rocky Mountain East Slopes, Alberta.

3. Rekindling Indigenous-Led Land Stewardship and Cultural Connections in the Rockies

Knowledge Leaders:

- Clayton Lamb, University of British Columbia;
- Chief Roland Willson, Chief, West Moberly First Nations + Nikanêse Wah tzee Stewardship Society

Research location: Northern and central Rocky Mountains of British Columbia and Alberta.

4. Níó Nę P'ęņę́ (NNP) - Trails of the Mountain Caribou

Knowledge Leaders:

- Leon Andrew, Living on the Land Forum, Sahtú Renewable Resources Board, Nááts'įhch'oh National Park Reserve
- Deborah Simmons, Sahtu Renewable Resources Board

Research location: Sahtú Region of the Northwest Territories.

5. Ecological Change and Livelihoods in the Porcupine Caribou Summer Range

- Deana Lemke, Porcupine Caribou Management Board
- Trevor Lantz, University of Victoria

Research location: Northern Yukon and the Richardson Mountains of the Northwest Territories.

6. Indigenous and Western Knowledge Systems to Revitalize Connection to Yukon Salmon Culture

Knowledge Leaders:

- Ed Schultz, Council of Yukon First Nations
- Dennis Zimmermann, Big Fish Little Fish Consultants Organizations

Research location: Yukon Territory.

7. Pacific Indigenous Protected and Conserved Area (IPCA) Innovation Centre

Knowledge Leaders:

- Eli Enns, IISAAK OLAM Foundation
- Pamela Shaw, Vancouver Island University

Research location: Pacific Coast mountain regions of British Columbia.

Canadian Mountain Network

Financial Statements

March 31, 2021



Independent auditor's report

To the Members of Canadian Mountain Network

Our opinion

In our opinion, the accompanying financial statements present fairly, in all material respects, the financial position of Canadian Mountain Network (the Network) as at March 31, 2021 and the results of its operations and its cash flows for the year then ended in accordance with Canadian accounting standards for not-for-profit organizations.

What we have audited

The Network's financial statements comprise:

- the statement of financial position as at March 31, 2021;
- the statement of operations for the year then ended;
- the statement of changes in net assets for the year then ended;
- the statement of cash flows for the year then ended; and
- the notes to the financial statements, which include significant accounting policies and other explanatory information.

Basis for opinion

We conducted our audit in accordance with Canadian generally accepted auditing standards. Our responsibilities under those standards are further described in the *Auditor's responsibilities for the audit of the financial statements* section of our report.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Independence

We are independent of the Network in accordance with the ethical requirements that are relevant to our audit of the financial statements in Canada. We have fulfilled our other ethical responsibilities in accordance with these requirements.

Responsibilities of management and those charged with governance for the financial statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with Canadian accounting standards for not-for-profit organizations, and for such internal

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"PwC" refers to PricewaterhouseCoopers LLP, an Ontario limited liability partnership.



control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the Network's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Network or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the Network's financial reporting process.

Auditor's responsibilities for the audit of the financial statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with Canadian generally accepted auditing standards will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with Canadian generally accepted auditing standards, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Network's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Network's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Network to cease to continue as a going concern.



- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

PricewaterhouseCoopers LLP

Chartered Professional Accountants

Edmonton, Alberta
September 24, 2021

Canadian Mountain Network
Statement of Financial Position
As at March 31, 2021

	<u>2021</u>	<u>2020</u>
Assets		
Current assets		
Cash and cash equivalents	\$ 574,813	\$ 31,310
Grants receivable	110,518	134,802
Prepaid expenses	4,763	150,165
Due from Network Host (note 3)	<u>7,338,594</u>	<u>7,412,475</u>
	8,028,688	7,728,752
Computer equipment (note 5)	<u>-</u>	<u>5,434</u>
	<u>\$ 8,028,688</u>	<u>\$ 7,734,186</u>
Liabilities		
Current liabilities		
Accounts payable and accrued liabilities	\$ 66,660	\$ 259,673
Deferred revenue (note 4)	<u>7,962,028</u>	<u>7,474,513</u>
	8,028,688	7,734,186
Net assets		
Unrestricted net assets	<u>-</u>	<u>-</u>
	<u>\$ 8,028,688</u>	<u>\$ 7,734,186</u>

Approved by the Board of Directors

[Signature]

Director

[Signature]

Director

The accompanying notes are an integral part of these financial statements.

Canadian Mountain Network
Statement of Operations
For the year ended March 31, 2021

	<u>2021</u>	<u>2020</u>
Revenues		
Grants (note 4)	\$ 3,800,652	\$ 2,624,464
Contributed goods and services (note 5)	45,713	43,844
	<u>3,846,365</u>	<u>2,668,308</u>
Expenditures		
Funding distributions	2,518,014	1,609,166
Staff payroll, contracts and benefits	765,537	574,189
Consulting fees	319,411	214,335
Promotion and sponsorships	168,580	84,654
Equipment and software	30,337	14,796
Professional fees	21,564	18,440
Insurance	8,600	8,236
Office	5,938	10,506
Travel	5,309	115,367
Other	3,075	5,551
Meeting	-	13,068
	<u>3,846,365</u>	<u>2,668,308</u>
Excess of revenues over expenditures for the year	<u>\$ -</u>	<u>\$ -</u>

The accompanying notes are an integral part of these financial statements.

Canadian Mountain Network
Statement of Changes in Net Assets
For the year ended March 31, 2021

	<u>2021</u>	<u>2020</u>
Balance - Beginning of year	\$ -	\$ -
Excess of revenues over expenditures for the period	-	-
Balance - End of year	<u>\$ -</u>	<u>\$ -</u>

The accompanying notes are an integral part of these financial statements.

Canadian Mountain Network
Statement of Cash Flows
For the year ended March 31, 2021

	<u>2021</u>	<u>2020</u>
Cash provided by (used in)		
Operating activities		
Excess of revenues over expenditures for the period	\$ -	\$ -
Non-cash items		
Amortized equipment cost	5,434	5,433
Changes in non-cash working capital items		
Grants receivable	24,284	(134,802)
Prepaid expenses	145,402	(141,929)
Accounts payable and accrued liabilities	(193,013)	231,935
Due from Network Host	73,881	(2,056,675)
Deferred revenue	487,515	2,127,348
	<u>538,069</u>	<u>25,877</u>
Increase in cash and cash equivalents during the period	543,503	31,310
Cash and cash equivalents - Beginning of year	<u>31,310</u>	-
Cash and cash equivalents - End of year	<u>\$ 574,813</u>	<u>\$ 31,310</u>
Cash and cash equivalents comprise:		
Short-term interest bearing deposits	\$ 5,000	\$ -
Cash	569,813	31,310
	<u>\$ 574,813</u>	<u>\$ 31,310</u>

The accompanying notes are an integral part of these financial statements.

Canadian Mountain Network
Notes to Financial Statements
March 31, 2021

1 Nature of operations

Canadian Mountain Network (the Network) was incorporated on January 25, 2019 to support the resilience and health of Canada's mountain peoples and places through research partnerships based on Indigenous and Western ways of knowing that inform decision-making and action. Under the funding agreements between the Network, the Government of Canada's Networks of Excellence (NCE) program and the University of Alberta (the Network Host), the Network is allowed to incur expenses against the funds provided.

The Network is a not-for-profit organization and, accordingly, is exempt from income tax in accordance with Section 149(1)(e) of the Canadian Income Tax Act and Section 35 of the Alberta Income Tax Act.

2 Summary of significant accounting policies

Basis for presentation

These financial statements have been prepared by management in accordance with Canadian accounting standards for not-for-profit organizations (ASNPO). The preparation of financial statements for a period necessarily includes the use of estimates and approximations, which have been made using careful judgment. Actual results could differ from those estimates. Significant areas of estimation included in these financial statements are the estimate of fair value of donated materials and services. These financial statements have, in management's opinion, been properly prepared within reasonable limits of materiality and within the framework of the accounting policies summarized below.

Revenue recognition

The Network follows the deferral method of accounting for contributions. Externally restricted contributions are recognized as revenue in the year in which the related expense is incurred. Unrestricted contributions are recognized as revenue in the year received or receivable if the amounts to be received can be reasonably estimated and collection is reasonably assured.

Projects funded by the Network receive cash and in-kind contributions of services, personnel and supplies from other funders. These contributions are not recorded in the financial statements of the Network as they are not revenues of the Network.

Contributed goods and services

Contributed goods and services are recorded in the financial statements at fair value on the date contributed when fair value can be reasonably estimated and the contributed goods or services would have otherwise normally been purchased by the Network.

Financial instruments

Financial assets and liabilities are initially recognized at fair value and are subsequently accounted for at amortized cost using the effective interest rate method. Financial assets measured at amortized cost are tested for impairment when there are indicators of impairment.

Cash equivalents

Cash equivalents comprise short-term interest bearing deposits with maturities of three months or less.

3 Due from Network Host

Due from Network Host are amounts held in trust by the University of Alberta in its role as Network Nost under an agreement dated March 4, 2019 between the Network and the Network Host. Under the terms of the agreement, the Network Host is responsible for receiving and administering grant funding received from the NCE program and providing administrative support in the disbursement of funds as directed by the Network.

These transactions are in the normal course of operations and are recorded at their exchange amount, which is the amount agreed to by the parties. Due from Network Host is unsecured and non-interest bearing with no set terms of repayment.

	<u>2021</u>	<u>2020</u>
NCE funds held by Network Host	\$ 6,903,725	\$ 6,910,557
Network Host Funds	434,869	501,918
	<u>\$ 7,338,594</u>	<u>\$ 7,412,475</u>

4 Deferred revenue

Funding received in the year includes grants from the NCE program, which are restricted to eligible expenditures under the terms of the grant agreement, a supplemental grant from the Natural Sciences and Engineering Research Council (NSERC) provided in response to Covid-19 (see Note 8), funding contributions from the Network Host, revenue awarded by the Arctic Prize Trust (AIP), and contributions from other Network partners.

Details of the changes in deferred revenue from NCE are as follows:

	2021	2020
Balance - Beginning of year	\$ 6,863,097	\$ 5,272,832
Grant received	3,210,000	4,090,000
Amount recognized as revenue	(3,057,341)	(2,499,735)
Balance - End of year	<u>\$ 7,015,756</u>	<u>\$ 6,863,097</u>

Details of the changes in deferred revenue from other grantors are as follows:

	2021	2020
Balance - Beginning of year	\$ 605,982	\$ 63,466
Grant received		
Network Host	100,000	100,000
NSERC	584,256	-
AIP	485,000	-
Others	3,350	32,443
Grant receivable		
Network Host	(100,000)	400,000
NSERC	(30,801)	-
Others	41,796	134,802
Amount recognized as revenue		
Network Host	(59,233)	(53,784)
NSERC	(553,455)	-
Others	(130,623)	(70,945)
Balance - End of year	<u>\$ 946,272</u>	<u>\$ 605,982</u>

	2021	2020
Balance - End of year from NCE	\$ 7,015,756	\$ 6,863,097
Balance - End of year from other grantors	946,272	605,982
Balance - End of year for contributed computer equipment (note 5)	-	5,434
	<u>\$ 7,962,028</u>	<u>\$ 7,474,513</u>

5 Contributed goods and services

Contributed goods and services totalling \$45,713 (2020 - \$43,844) relate to \$40,279 (2020 - \$38,411) in salaries and benefits paid on behalf of the Network by University of Calgary and \$5,434 (2020 - \$5,433) in equipment costs contributed by the Network Host.

The Network Host contributes the use of certain computer equipment such that the Network has exclusive use of the equipment during the lifetime of the Network. The fair value of the equipment was recognized as computer equipment on the statement of financial position and has been amortized as equipment costs over the estimated life of the equipment.

The Network Host provides certain administrative services, office space and services of a Network Scientific Director for which no revenue or expense is recognized in these financial statements.

6 Financial instruments

Financial instruments consist of cash and cash equivalents, grants receivable, due from Network Host and accounts payable and accrued liabilities. Due to the short-term nature of these instruments, the carrying value approximates fair value. The Network is exposed to various risks through its financial instruments. The following provides a measure of the Network's exposures and concentrations as at March 31, 2021. Unless otherwise noted, it is management's opinion that the Network is not exposed to significant credit, liquidity or interest rate risk.

Liquidity risk

Liquidity risk is the risk the Network will not be able to meet its obligations as they fall due or to fund any commitments the Network has planned. The Network is exposed to this risk mainly in respect of its accounts payable and accrued liabilities. The Network manages liquidity risk through management of its capital structure in conjunction with cash flow forecasting including anticipated investing and financing activities.

Credit risk

The Network is exposed to credit risk related to due from Network Host and other grants receivable. The Network monitors the balance due from Network Host and other grantors and does not consider that it is exposed to significant credit risk due to the creditworthiness of the Network Host or other grantors.

7 Economic dependence

The operations of the Network are primarily dependent on NCE funding received from the Government of Canada and ongoing support from the University of Alberta in its role as the Network Host. The current funding agreement with NCE and the Network Host will end on March 31, 2024. Management is currently working collaboratively with the Board of Directors to evaluate sustainable funding models for the organization based on NCE precedents and other identified opportunities.

8 COVID-19

In March 2020, the World Health Organization declared a global pandemic due to the novel coronavirus (COVID-19). COVID-19 has resulted in numerous health advisories and restrictions imposed by health officials, which in turn has reduced or cancelled certain activities provided by the Network including field research activities and in-person conferences through the fiscal year ended March 31, 2021. While the Network has taken proactive measures to deliver its operations safely and reliably during this pandemic, given the ongoing dynamic nature of the circumstances surrounding COVID-19, the impact of this pandemic on the Network's activities remains uncertain.

9 Comparative figures

Certain comparative figures have been reclassified to conform to the current year financial statement presentation.



CANADIAN
MOUNTAIN
NETWORK

An initiative of Canada's granting agencies



Government of Canada
Networks of Centres
of Excellence

Gouvernement du Canada
Réseaux de centres
d'excellence

Host institution



UNIVERSITY OF
ALBERTA

Sustaining partners



UNIVERSITY OF ALBERTA
FACULTY OF SCIENCE



UNIVERSITY OF
CALGARY



McGill

Program partners

Mitacs



MOUNTAIN
LEGACY
PROJECT



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inspiring creativity

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MOUNTAIN
FILM AND BOOK
FESTIVAL



CANADIAN
Geographic

THE ROYAL
CANADIAN
GEOGRAPHICAL
SOCIETY



LA SOCIÉTÉ
GÉOGRAPHIQUE
ROYALE DU
CANADA

Mountain Partnership



RECONCILING
WAYS OF KNOWING



FULBRIGHT
Canada



Natural Sciences and Engineering
Research Council of Canada

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Canada