

BC Water Funders COLLABORATIVE

- Pooling Water Knowledge Webinar Series -

Collaborative Monitoring Initiative: Introduction and Updates



Tuesday February 15, 2022

12:00pm to 1:00pm

Background: In 2017, the BC Water Funders Collaborative launched an initiative aimed at building our collective knowledge and fostering discussion around a shared vision for water monitoring and reporting in British Columbia. This work by the collaborative catalyzed the Collective Monitoring Initiative (CMI), a partnership of BC Freshwater Legacy Initiative, Watersheds BC, and the POLIS Project. This webinar is intended to share an update on the current status of collaborative efforts made through the CMI launched in 2021 and provide space for open discussion.

Collaborative Monitoring Initiative: Introduction and Updates

When: Tuesday, February 15, 2022

Time: 12:00pm to 1:00pm PST

Description: Building community-based water monitoring capacity is a gateway to better watershed health outcomes. The provinces commitment to supporting efforts inside and outside of government through the Watershed Security Strategy highlight the value of effective monitoring. The **Collaborative Monitoring Initiative** (CMI) seeks to test the viability of a coordinated program that supports regional water monitoring champions and a province-wide approach for collaborative water monitoring in BC. This initiative builds on several years of work among the BC Water Funders Collaborative, regional monitoring champions, and the Province. The potential benefits of a collaborative monitoring network were identified in the 2020 Water Monitoring & Reporting Initiative (WMRI), a partnership between the Province and the BC Water Funders Collaborative. Ania will present on updates from the past year and the proposed workplan for the year ahead; there will be an opportunity for discussion around key issues and opportunities for alignment.

Presenters:

- **Ania Javorski**, M.Sc., Coordinator for the Collaborative Water Monitoring Initiative (CMI), Ania received her MSc in Biology in the Natural Resources and Environmental Studies program from the University of Northern British Columbia. As an Environmental Research Consultant, she gained experience in data analysis, interpretation, and reporting. She has developed and applied strong skill sets tracking environmental pollutants through water systems and watersheds. She has designed, managed, and implemented environmental monitoring programs and provided detailed, high-quality, long-term datasets and reports assessing the influence of land use change, population density, and sewage treatment on water quality in streams, rivers, and ocean tributaries of rapidly developing suburban watersheds. She assessed the impacts of both point and non-point pollutions sources on these aquatic environments and provided recommendations on monitoring and remedial actions.

Links & Resources

- [Collaborative Monitoring Initiative Webpage](#)
- Related Recordings
 - [Water Data Management: Planning and Sharing](#)
 - [Water Data Management for Regional Community-Based Water Monitoring Groups](#)

Question & Answer Period

1. James Littley (OBWB) - What long term sustainability for funding considerations have been had

Ania Javorski: Haven't explored a fee structure thus far with the interest of keeping open access, to date have been able to be provincially funded.

Jennifer Archer: While CMI is still in an annual funding cycle they are starting to think about a longer-term strategy and have discussed the project with ECCC to gauge interest.

Ian Sharpe: It has been affirming to see that "Pooling Knowledge" is front and center in the draft BC Watershed Security Strategy. There is an awareness around the economic, political, and scientific value of community-based monitoring, and consideration that sustainable funding for this monitoring is essential.

2. Anna Warwick Sears (OBWB) - What happened with the discussions with the Water Rangers expanding to BC?

Kariann Aarup: Water Rangers are indeed expanding to BC ...

Ania Javorski: Have reached out to connect, and have been informed that they are currently in the process of securing staff, when someone is hired, they will connect

Lindsay Day: We (DataStream) are also collaborating with Water Rangers so that data collected using the kits can easily be shared on DataStream as well.

3. Jen McCaffrey (REFBC) - Data gathering and data hubs that are out there now - do you know a direction you want to go in, if there's 40 hubs (some being more established), where do you want to go with that?

Ania Javorski: Many times, groups don't know where to go (ex. Data Stream may not be the right fit for the type of data they are collecting), we see our role as providing a "search engine" for data hubs, so groups can narrow down the options. We also want to bring data management plans into the discussion at the beginning of the monitoring plan development, rather than an afterthought.

Ian Sharpe: We are also planning to work collaboratively with Indigenous groups to help foster the relationships necessary to explore and understand Indigenous Knowledge in the context of water monitoring.

4. Kariann Aarup (AquaAction)- Re the funding discussion: it would be interesting to break down the costs that need to be covered and whether there are industry partners that can be leveraged ... are there digital technology needs or data hosting needs for instance? *Question was not presented to the floor for response*

Anna Warwick Sears: The costs for QA/QCing the data may be a good category for industry funds

5. Leanne Sexsmith (REFBC) - It's great to see how the work has progressed. Thank you for the presentations. Agree that long term resourcing is really important for this work. For anyone providing input into the WSS&F engagement process, there is an opportunity to speak to that need/importance. I am particularly interested in the testing processes and strategies, excited to see the testing approach, do you have any examples at this point?

Ania Javorski: Originally, we thought the initiative would be a one-to-three-year project, as it has evolved we have seen that it needs to be a longer process. Recently we have joined the Elk River Watershed Alliance as they are in the beginning stages of creating a collaborative model for their region. We also take many learnings from Living Lakes Canada and Columbia Basin

Jennifer Archer: The Cowichan Watershed Board is another example; they have received funding to explore data management strategies

Ian Sharpe: Have been undertaking a water data management systems survey among Healthy Watersheds Initiative grantees that spans the range of applications being employed (data types and their uses) and data system complexities (from paper field forms and local hard drives to sophisticated data hubs such as the system recently developed for the Columbia Basin). Once the survey is completed, it will be used to illustrate a continuum of complexities among the systems surveyed. This will allow community-based monitoring groups to see themselves somewhere on the continuum. The final component will be to provide recommendations as to how community-based monitoring groups may take an affordable “stepwise” approach to building their data management capabilities over time (finding the money to go from the low end of the continuum to the high end is often difficult). This document will be made available to community-based monitoring groups and will be accompanied by support services (discussions with a possible non-profit SAAS vendor are underway).



CMI Introduction & Update For the BC Water Funders Collaborative February 2022

Introduction

The Collaborative Monitoring Initiative (CMI) began in May 2021 as a 1-2 year partnership between the POLIS Water Sustainability Project, BC Freshwater Legacy Initiative and Watersheds BC, and is currently funded by the Healthy Watersheds Initiative (HWI), BC Ministry of Environment and Climate Change Strategy (ENV), and the federal ministry Environment and Climate Change Canada (ECCC) until March 31, 2022. This initiative builds on several years of discussions between BC Water Funders, Water Leaders and the Province including the recommendations and findings of the Collaborative Water Monitoring & Reporting Initiative (WMRI)¹. Its purpose is to catalyze, implement and test a coordinated program of pooling knowledge and expertise to increase capacities of Indigenous and non-Indigenous community-based water monitoring (CBWM) groups. CMI is also intended to inform a long-term province-wide approach to support collaborative water monitoring in BC. Operationally, CMI is supporting capacity and competence building among communities in their water monitoring planning, activities, data management, and promotion of the data generated for decision-making.

The CMI program is shared among partners to ensure distributed leadership and a collaborative networked approach to water monitoring coordination. The CMI Coordinator, housed at POLIS Water Sustainability Project, oversees coordination of the program to learn from and support regional water champions and works closely with the Water Leaders Network to help inform and synergize with strategic provincial priorities. A Strategic Advisor housed at MakeWay, provides guidance to CMI, and assists in exploring opportunities for alignment with other leading initiatives throughout the province. A Steering Committee made up of POLIS Water Sustainability Project and BC Freshwater Legacy Initiative staff provide oversight and direction to the Initiative. CMI also works with an Advisory Network, and partner organizations to promote the integration of CBWM within the context of government and institutional monitoring programs.

CMI Objectives

The primary objective of CMI is to improve outcomes for watersheds. Other objectives are to:

- Provide direct support for a cohort of Indigenous and non-Indigenous regional collaborative initiatives and create a community of practice for Collaborative Water Monitoring in BC;
- Build upon and implement past recommendations identified by Regional Champions, the Collaborative and the WMRI with strategic guidance from an Advisory Network, and
- Learn from regional collaborative initiatives to inform and scale up a provincial program which ensures vertical integration and alignment between regional, provincial, and federal initiatives.

CMI's Advances to Date

CMI has already made significant advances, including:

- Scoping its mandate based on [recommendations from 2017 to the present](#).
- A plan to focus on inclusion of Indigenous groups and knowledge as a key aspect of the initiative.

¹Collaborative Water Monitoring & Reporting Initiative WMRI) <https://www.bcwaterfunders.org/pooling-knowledge-resources>



- Outreach to over 20 Indigenous and non-Indigenous community-based groups funded by HWI, to better understand their needs, and how CMI might provide the necessary support around coordination to impact decision making.
 - Identifying decisions sought to be made through monitoring as well as, barriers, gaps and opportunities
- Development of a Community of Practice approach to assisting CBWM groups in elevating their scientific and collaborative capacities that includes webinars and workshops, advisory services, and a web platform to provide monitoring science tools and guidance is under implementation.
 - Water Data Management Webinars (>300 registrants/event)
 - Ensuring that existing tools, guidelines, and resources are consolidated and available to support regional needs
 - Creating a summary of learning themes for use by members of the Collaborative Monitoring Community of Practice.
- Creation and incorporation of an Advisory Network to guide CMI planning and execution. This network is populated by a broad range of highly experienced individuals representing many viewpoints related to water monitoring and management.
 - Advisory Network Strategic Workshops (Themes: CBWM Groups & WSS&F)
- Development of case studies aimed at illustrating the pathways to capacity and competency building among CBWM groups based on key collaborative monitoring arrangements
- Engagement with Provincial representatives to support coordination, identify areas of alignment and share information.
 - Collaboration with provincial and federal agencies on providing long term support for regional monitoring groups

CMI Intended Outcomes

- Establish a provincial scale community of practice and support for CBWM groups,
- Increased knowledge, coordination and collaboration between regional groups and the Province through development of web-based guidance and tools, workshops, webinars and case studies,
- New guidance and best practices around collaborative monitoring initiatives, created from multiple sources, including traditional ecological knowledge and western science,
- Identify options for sustaining and growing a collaborative monitoring program, including project planning, data management and pathways to decision making,
- Alignment among participants to address gaps and create efficiencies to support a provincial water science and knowledge strategy,
- Share learnings of CMI among key partners to foster a collaborative networked approach and recommended a path forward to ensure the long-term inclusion of CBWM groups in a “made in BC” approach to watershed management.



Workplan Deliverables April 2022-March 2023

- Continue year 1 activities
- Help Build Fed/Prov Collaborative model
- Assist CBM groups in developing collaborative governance and data management systems

- Build new web tools and training opportunities
- Expand needs inventory
- Review and plan implementation of other prior recommendations
- Expand Advisory Network

Priority	Activities	Deliverables
Support for regional collaboration	Needs inventory and assistance for regional/community-based water monitoring groups	<ul style="list-style-type: none"> ▪ Collaborate with the Province to continue the inventory ▪ Add new elements (e.g. lessons learned, ideas on a functional community of practice). ▪ Publish inventory report.
	Community of Practice	<ul style="list-style-type: none"> ▪ Webinar series on elevating CBM group capacities for monitoring program planning, data acquisition (Gathering), data management (Sharing) and providing useful information for decisions at many levels (Applying). ▪ Build other elements based on inventory feedback (e.g. weekly coffee chats, online expert advisory service, web content, newsletter email blasts).
	Web Based Tools and guidelines	<ul style="list-style-type: none"> ▪ Consultations with the Province and other governments on a collaborative approach to providing the necessary range of tools and guidelines, and ready access to them is required. CMI can provide a curated web hub, with links to the various organizations and their information sources.
	Outreach, Education and Case studies	<ul style="list-style-type: none"> ▪ Publish Koksilah and Columbia case studies. These case studies require more exploration, and documentation as well as means to provide useful lessons for other CBM groups. ▪ Create 2 more case studies: 1) Field program planning and execution, 2) Preparing data for decision making.
Learn from, and promote CBM to develop alignment among regional and government initiatives	Advisory Network	<ul style="list-style-type: none"> ▪ Enable the Network to act as a connector for CBM groups to interact with governments on decisions affecting water and communities. ▪ Advisory Network to provide guidance to CBM groups to improve all aspects of the Water Knowledge Mobilization Framework, and to amplify with governments, the value of CBM work.
	Participation in the Water Leaders and Funders Network	<ul style="list-style-type: none"> ▪ CMI will continue to participate in Water Leaders and Funders Network to ensure continuous improvement of the Initiative.
	Collaborate with provincial and federal agencies on providing long term	<ul style="list-style-type: none"> ▪ Further engagement with these and other government agencies to better integrate CBM groups in watershed monitoring related planning and decision making. ▪ Develop an online water data “use case” library for project

	support for regional monitoring groups	planning. <ul style="list-style-type: none">▪ Identify additional resources and tools needed to elevate CBM group capacity building to support the development process of the watershed Security Strategy and Fund.▪ Produce a guideline with governments, to aid in developing distributed, regional water data management systems, harnessing online resources to build on regional monitoring groups' capacities.▪ Provide an updated (annual) evaluation and recommendations for future collaborative workplanning.
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BC Water Funders

COLLABORATIVE

WATER MONITORING & REPORTING WORKING GROUP

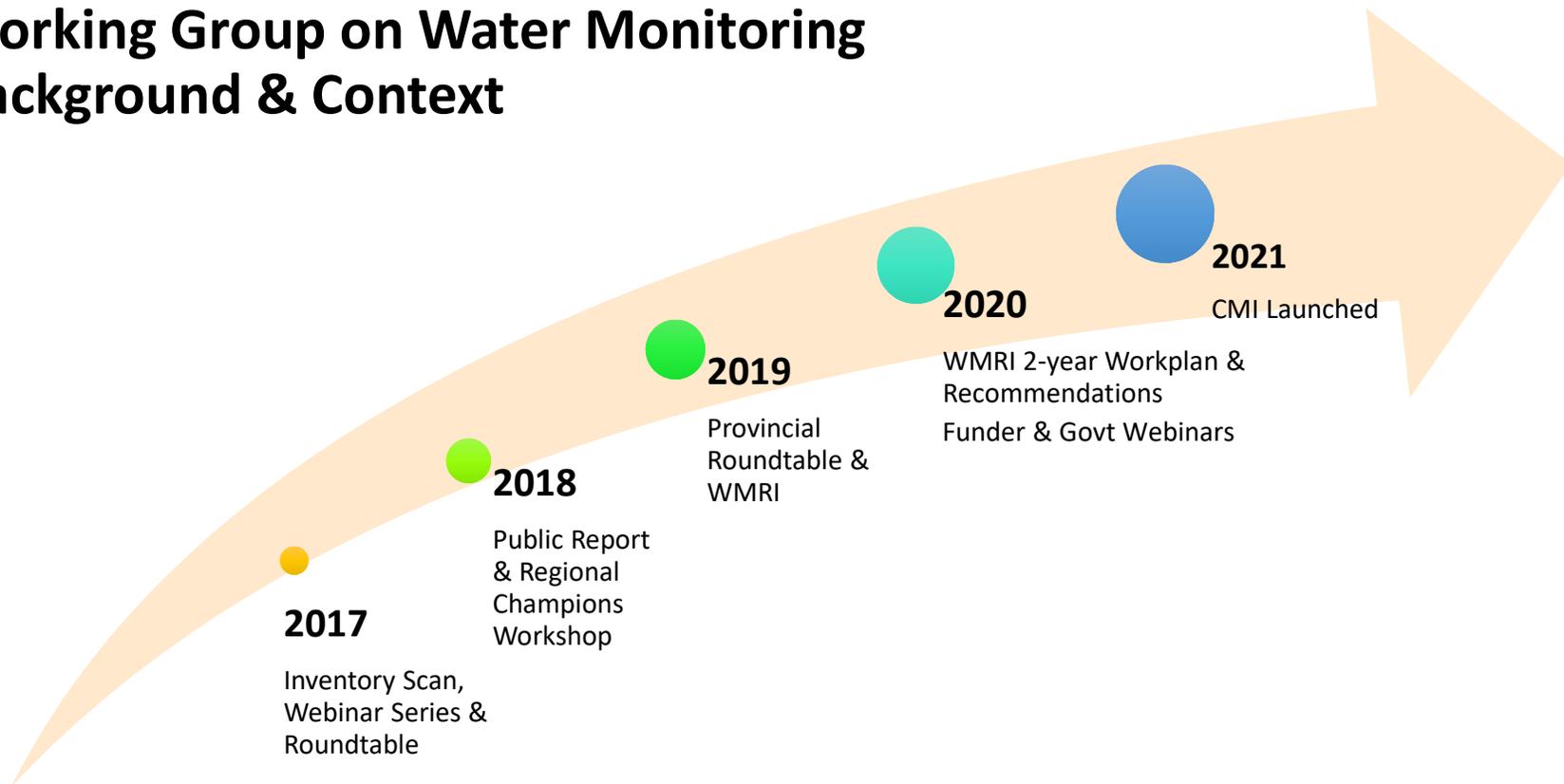
BACKGROUND & CONTEXT



BC Water Funders

COLLABORATIVE

Working Group on Water Monitoring Background & Context



Water Monitoring & Reporting Initiative: Taking Stock

Through the WMRI Partnership – the BC Water Funders and the Province accomplished the following:

Established a partnership and jointly resourced the Collaborative Water Monitoring & Reporting initiative with **shared vision, objectives and goals**.

Identified an **Advisory Network of regional champions** to inform ongoing work.

Developed a **shared understanding** of the current gaps, needs and opportunities to develop a coordinated provincial Water Monitoring & Reporting program.

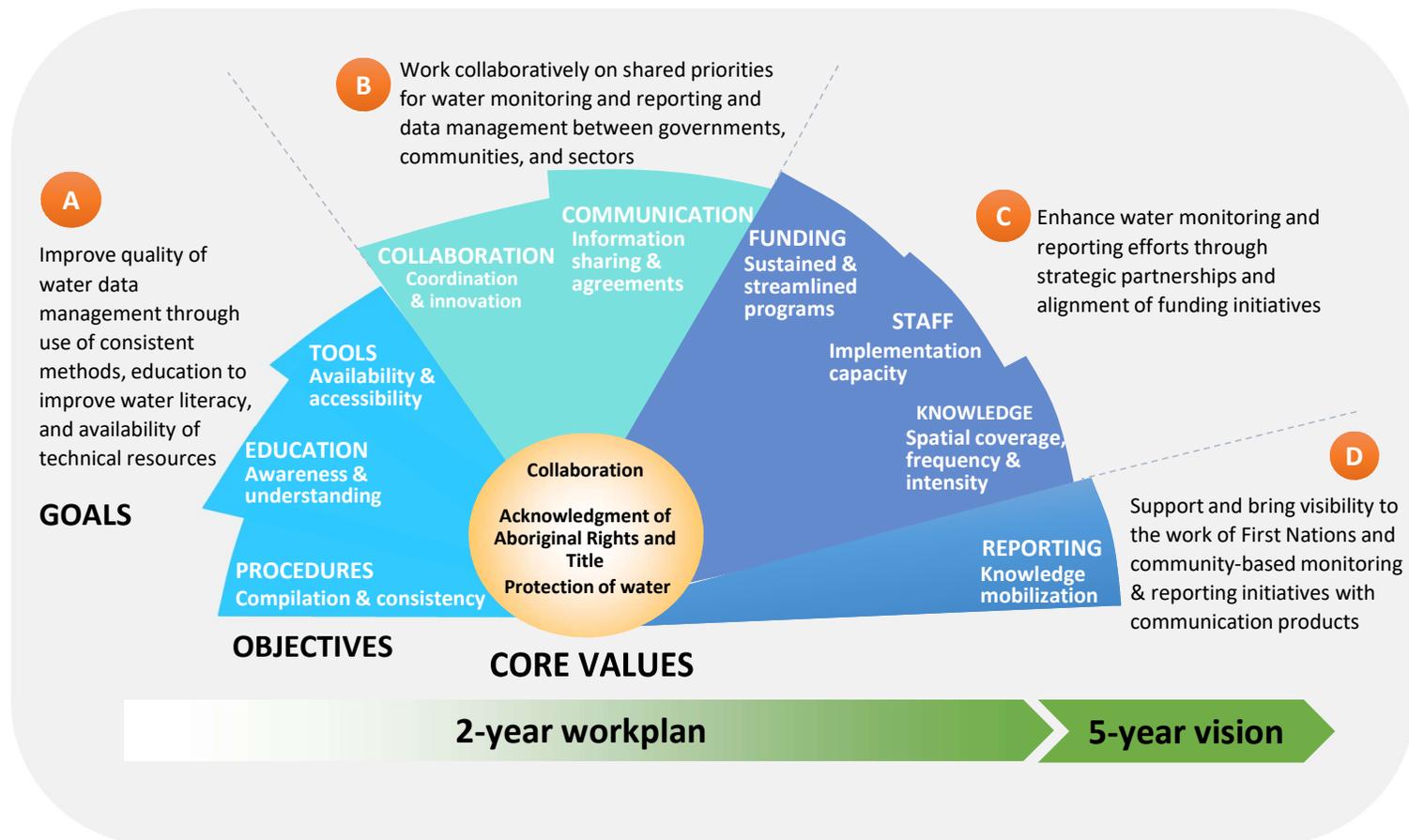
Developed a **joint 2-year workplan** to address gaps and develop coordination across provincial and regional initiatives.

Building upon the broad knowledge base of research, recommendations, and initiatives already available
(+200)

WMRI Workplan: Goals, Objectives & Core values

“Securing a full-time WMRI Coordinator position (and part-time positions) and defining a detailed budget for various work plan components are some of the critical first steps to building the momentum necessary for a decade of water monitoring and management transformation”

Two-year workplan, May 2020 (page 2)



2021 WMRI Proposal

Hire a coordinator who can **champion the WMRI workplan** while also directly supporting and learning from regional initiatives. Roles include:

Secure funding and develop an **incremental approach** to resourcing and implementing the 2 Year Plan

Support and learn from **1-3 collaborative regional initiatives** (eg Columbia, Skeena, Fraser) to test coordination and inform a provincial program

Convene and collaborate with water leaders, funders, province, and industry to identify opportunities for information sharing, alignment and partnership

Develop and maintain resources (e.g. website, tools, guidelines, links, lessons learned etc.)

Why now?



Introducing New Collaborative Monitoring Initiative

- Ania Javorski, Coordinator, CMI
- Catalyzed by funding from the Healthy Watersheds Initiative as well as funding from ENV and ECCC
- Catalytic Partnership of BC Freshwater Legacy Initiative, Watersheds BC and POLIS Water Sustainability Initiative – distributed leadership approach to ensure broad engagement
- Ian Sharpe, Strategic Advisor, and Co-Chair Advisory Network





Collaborative Monitoring Initiative

Water Funders Collaborative
February 15, 2022



POLIS Project on Ecological Governance
watersustainabilityproject

BC freshwater
LEGACY
initiative



Watersheds BC

About the CMI

➤ Partnership

- The University of Victoria's POLIS Water Sustainability Project
- BC Freshwater Legacy Initiative and Watersheds BC (both projects of MakeWay)

➤ Coordinator – Ania Javorski

- The initiative is an initial 1-year effort with the intention of creating an ongoing program
- Embedded at POLIS
- Advised by a Steering Committee and Advisory Network

➤ Team Members

- Strategic Advisor - Ian Sharpe
- Steering Committee - Oliver Brandes and Sherry Da, POLIS Water Sustainability Project and Jennifer Archer, BC Freshwater Legacy Initiative
- Advisory Network Co-chairs - Kat Hartwig (LLC), Ian Sharpe + 12 members

Over the last two decades there have been significant changes that affect water monitoring and reporting in British Columbia, including...

- Decreases in the number of monitoring stations maintained by major government agencies;
- Increases in Indigenous and non-Indigenous community-based water monitoring programs;
- Changes in technology for collecting, managing, and sharing data;
- Changes in monitoring drivers (e.g. need to address climate change, cumulative impacts, and determine environmental flow needs); and
- Legislative and policy changes (Water Sustainability Act).

A BC Water Monitoring Landscape Scan (2018), supported by the BC Water Funders Collaborative, identified over 125 monitoring and reporting initiatives across the province and 40 diverse data hubs, portals, and databases, including major province-wide monitoring networks and examples of local, regional and issue-specific monitoring and reporting

CMI Objectives

- Provide direct support and relevant resources for a cohort of Indigenous and non-Indigenous regional collaborative initiatives and create a community of practice for Collaborative Water Monitoring in BC;
- Build upon and implement past recommendations identified by Regional Champions, the BC Water Funders Collaborative and the Water Monitoring & Reporting Initiative with strategic guidance from an Advisory Network;
- Learn from regional collaborative initiatives to inform and scale up a provincial program which ensures vertical integration and alignment between regional, provincial and federal initiatives.

CMI Goals

- Improve outcomes for watersheds by linking local knowledge to decisions and by engaging communities in increased understanding of their home waters
- Foster a collaborative, networked approach to water monitoring coordination
- Promote communication, collaboration and alignment between community-based monitoring groups, regional water monitoring and reporting initiatives, governments and B.C. water funders

The CMI program seeks to improve outcomes for watersheds through three core strategies:

1. Convene and coordinate initiatives at multiple levels
 - Water monitoring CoP
 - Point of contact for regional initiatives
 - Advisory Network
 - BC Water Leaders Network
2. Support and learn from regional monitoring initiatives
 - Outreach, engagement, & peer learning
 - Inform provincial & federal programs
3. Develop practical tools and resources
 - Guidelines, resources & frameworks
 - CMI Resources on Website

BC Water Funders & Leaders Strategy

4 areas of focus



Place-based governance

Advancing innovative approaches to collaborative watershed governance and capacity building.



Policy/ Government

Robust implementation of legislation with Indigenous co-leadership



Pooling Knowledge

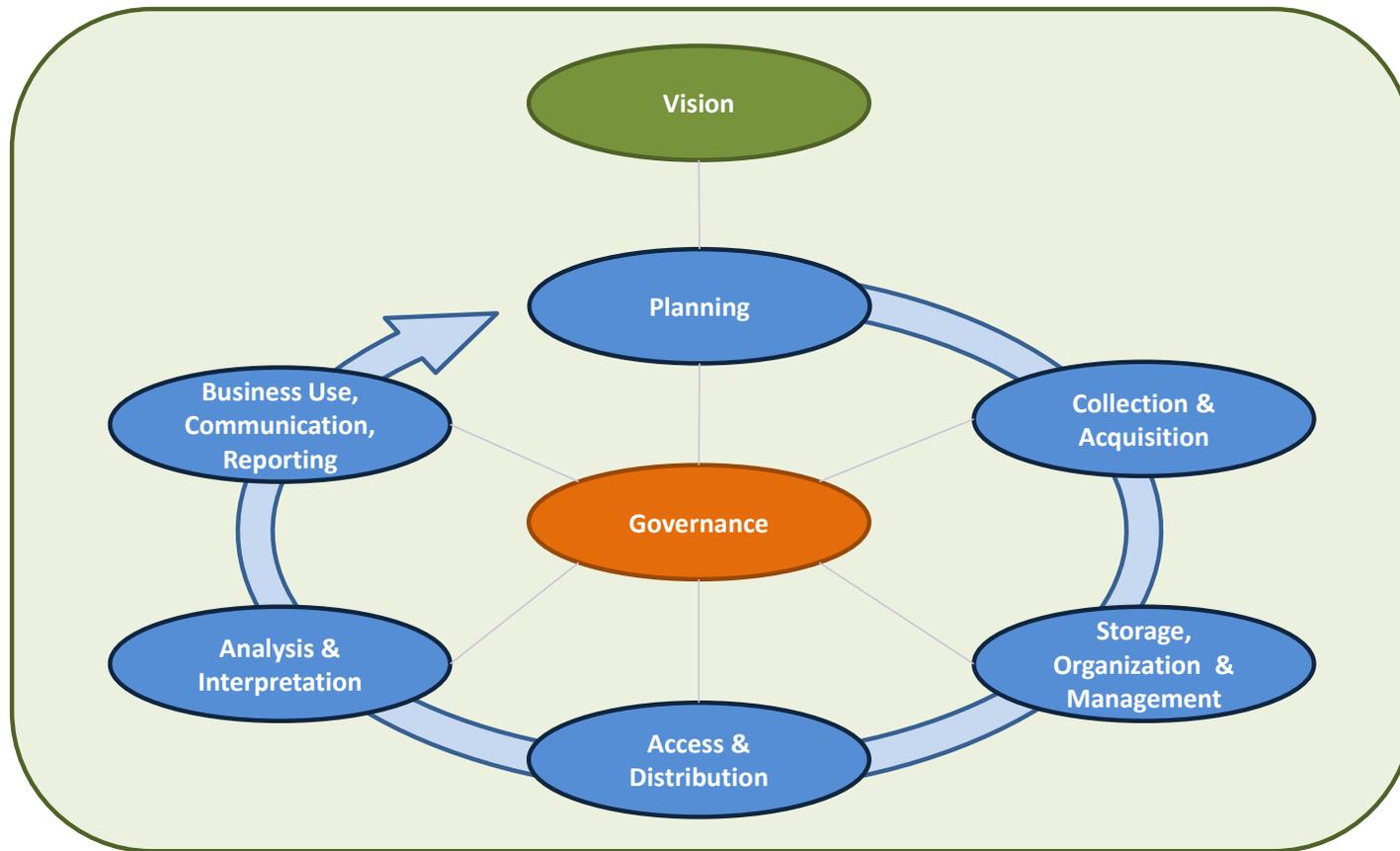
Improving understanding of watershed health, and data actively informing decisions



People/Public engagement

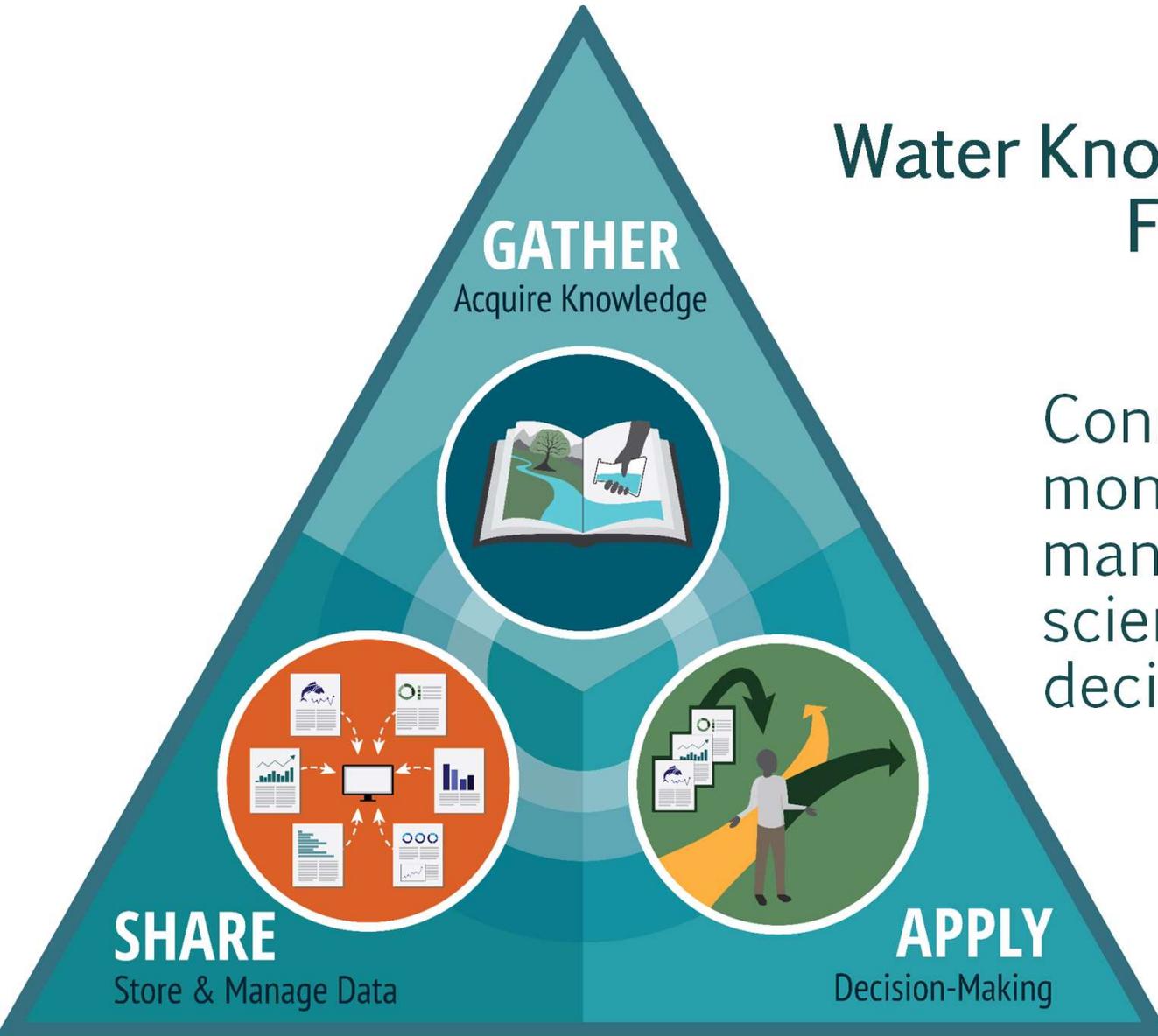
Increasing public awareness and engagement to keep water on the agenda

Knowledge Framework



Water Knowledge Mobilization Framework

Connecting environmental monitoring and data management to support science and inform decision making



GATHER – Acquire Knowledge



Based on current monitoring programs and allocation of resources, identify and determine where changes are needed in spatial coverage, frequency of data collection or intensity of monitoring in order to better understand and maintain resources more effectively

1. Use of consistent & standard methods
2. Education to improve water literacy

SHARE – Store & Manage Data



Improve quality of water data management to the appropriate standard needed for use of data in the intended decision-making process

1. Availability of technical resources
2. Develop or enhance online tools – FAIR & OCAP principles
3. Establish data sharing agreements
4. Address knowledge gaps

APPLY – Inflow into Governance

Linking Monitoring Programs & Data to Decision Making



- “Big data” is the new trend in science & analytics and seeks to capture large and diverse datasets in order to inform decision-making
- Monitoring programs are created for specific reasons and designed to achieve certain goals
- Many issues that we face today require the use of data that cannot be collected by just one observing system
- Robust data management programs allow for the exchange of high-quality data across projects to address larger issues

HWI Water Monitoring Cohort identified the following priority needs in 2021:

1. **Strategy & plan to support regional initiatives**
 - Ensure community-based monitoring initiatives are effectively supporting decision-making
 - Standardized approach to collecting, managing, and sharing data
2. **Build capacity**
 - Sustainable funding for long-term monitoring projects
 - Guidance docs & peer to peer learning opportunities
3. **Accessing & applying resources**
 - Development & increased awareness of tools/resources
 - Training opportunities
4. **Create multi-stakeholder initiatives**
 - Collectively address the challenges facing our watersheds

CMI Support

Developing an integrated approach to multiparty data gathering & sharing



1. Support & learn from regional water monitoring efforts
2. Build a sustainable collaborative framework and empower those involved
3. Ensure tools and resources to assist with data sharing are available

Image: <https://acwi.gov/monitoring/pubs/fs/framework.pdf>

CMI Desired Outcomes

- Establish a provincial scale community of practice and a supporting Advisory Network.
- Increase knowledge, coordination and collaboration among regional groups and the Province through development of web-based guidance and tools, workshops, webinars and case studies.
- Test the potential for longer term coordination of regional monitoring groups.
- Identify options for sustaining and growing a collaborative monitoring program, including project planning, data management and pathways to decision making.
- Determine how CMI can best serve regional champions and support a provincial water science and knowledge strategy.
- Share learnings of CMI among key partners to foster a collaborative networked approach.



CMI Achievements

- Water Data Management Webinars (>300 registrants/event)
- Advisory Network Strategic Workshops (CBWM Groups & WSS&F)
- Outreach to HWI cohort to identify needs around coordination to impact decision making. Contacted and learned from a >10 HWI projects.
- Identifying decisions sought to be made through monitoring as well as, barriers, gaps and opportunities
- Engagement with Provincial representatives to support coordination, identify areas of alignment and share information. Collaboration with provincial and federal agencies on providing long term support for regional monitoring groups
- Developing HWI Cohort case studies re: group organization, data & decision making
- Ensuring that existing tools, guidelines, and resources are consolidated and available to support regional needs
- Creating a summary of learning themes for use by members of the Collaborative Monitoring Community of Practice.

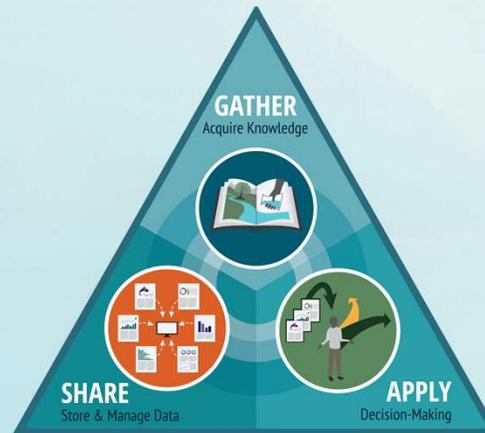
Future Workplan

Priority	Activities	Deliverables
Support for regional collaboration	Needs inventory and assistance for regional/community-based water monitoring groups	<ul style="list-style-type: none"> ▪ Collaborate with the Province to continue the inventory ▪ Add new elements (e.g. lessons learned, ideas on a functional community of practice). ▪ Publish inventory report.
	Community of Practice	<ul style="list-style-type: none"> • Webinar series on elevating CBM group capacities for monitoring program planning, data acquisition (Gathering), data management (Sharing) and providing useful information for decisions at many levels (Applying). • Build other elements based on inventory feedback (e.g. weekly coffee chats, online expert advisory service, web content, newsletter email blasts).
	Web Based Tools and guidelines	<ul style="list-style-type: none"> • Consultations with the Province and other governments on a collaborative approach to providing the necessary range of tools and guidelines, and ready access to them is required. CMI can provide a curated web hub, with links to the various organizations and their information sources.
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	Participation in the Water Leaders and Funders Network	<ul style="list-style-type: none"> • CMI will continue to participate in Water Leaders and Funders Network to ensure continuous improvement of the Initiative.
	Collaborate with provincial and federal agencies on providing long term support for regional monitoring groups	<ul style="list-style-type: none"> • Further engagement with these and other government agencies to better integrate CBM groups in watershed monitoring related planning and decision making. • Develop an online water data “use case” library for project planning. • Identify additional resources and tools needed to elevate CBM group capacity building to support the development process of the watershed Security Strategy and Fund. • Produce a guideline with governments, to aid in developing distributed, regional water data management systems, harnessing online resources to build on regional monitoring groups’ capacities. • Provide an updated (annual) evaluation and recommendations for future collaborative workplanning



Collaborative
Monitoring
Initiative

5 Year Vision



Catalyst For Regional Monitoring Capacity Building

Year 1 (2021-22)

Test Collaborative Mode

Year 2 (2022-23)

Consolidate/Expand Model

Year 3

Increase Program
Resources & Capacity

Years 4 & 5

Sustained Program

\$108 +
\$50K

- Collaboration/Coordination
- Peer-to-Peer Learning
- Develop Tools & Training
- Advice to Water Leaders & Funders

\$170K

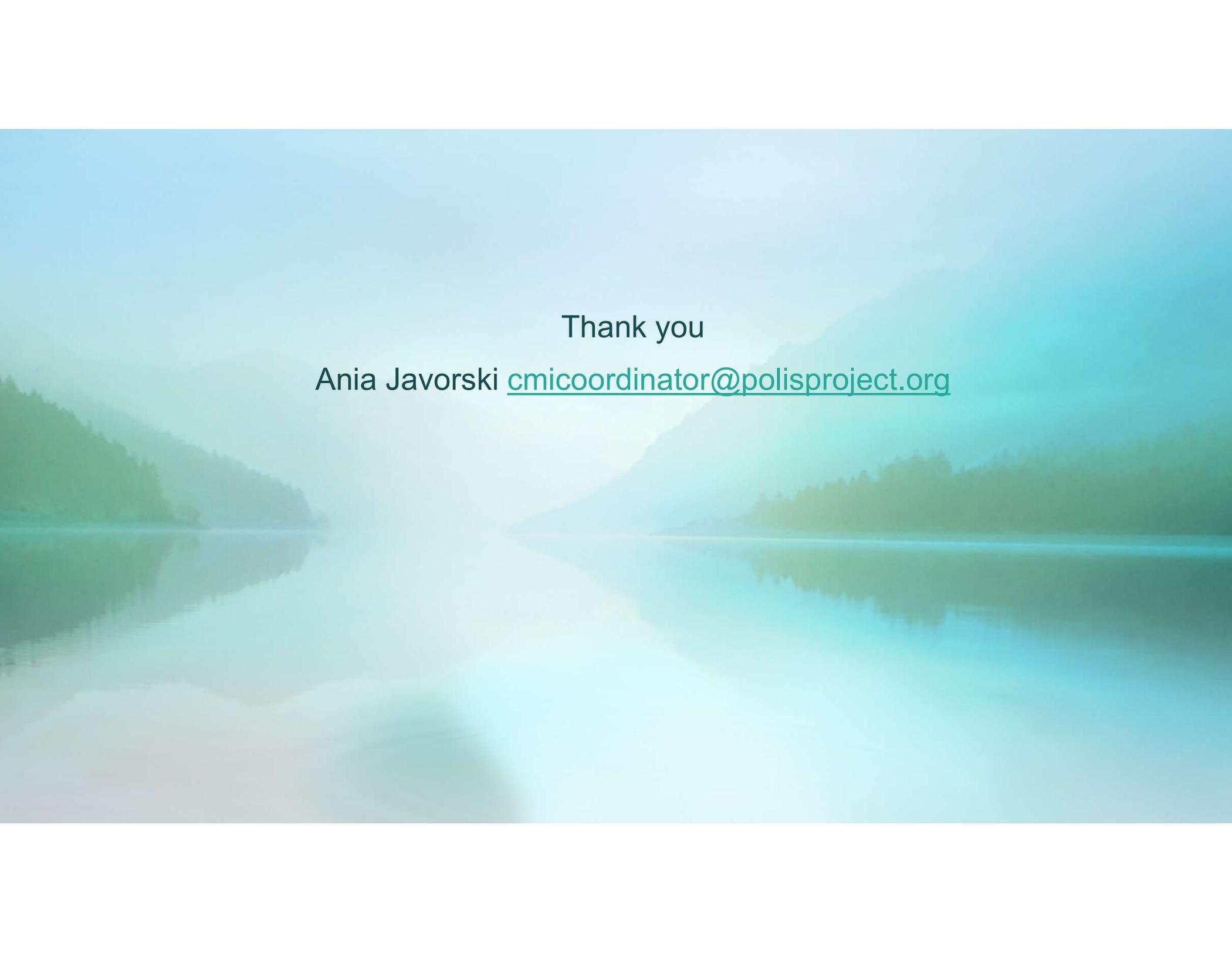
- Help Build Fed/Prov Collaborative model
- Outreach/Education
- Further Program Development (Tools, Training, Peer Learning, Data Management)

\$200K

- Advocate For Fed/Prov, Indigenous Capacity Building
- Update Needs Assessment
- Further Program Development

\$200K/yr

- Participate in New Collaborative Model
- Focus on Regional Monitoring Expansion and Capacity Building
- Address Needs Assessment Results



Thank you

Ania Javorski cmicoordinator@polisproject.org