

GLOBAL WATER FUTURES

SOLUTIONS TO WATER THREATS IN AN ERA OF GLOBAL CHANGE

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Knowledge Mobilization Workshop

KM Core Team
GWF Science Meeting June 2-6, 2018

Welcome!

KM Workshop objectives:

- Describe KM trends and expectations for applied science programs and where GWF has the opportunity to make a tangible difference
- Discuss partner KM expectations, best practices for cocreation and continual engagement with a panel of key partners across the country and across types of organizations
- Increase understanding and awareness of KM by showcasing examples from GWF's first year and highlighting the services available to the GWF network

Join the interactive live discussion

- 1. From your smartphone text GWFKM to 37607
 - 2. Get a confirmation by text
 - 3. You're ready to participate

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Canadian Water Network

Lessons learned from 15 years of knowledge mobilization at Canadian Water Network

Kelly Munkittrick
Wilfrid Laurier University

Katrina Hitchman
Canadian Water Network

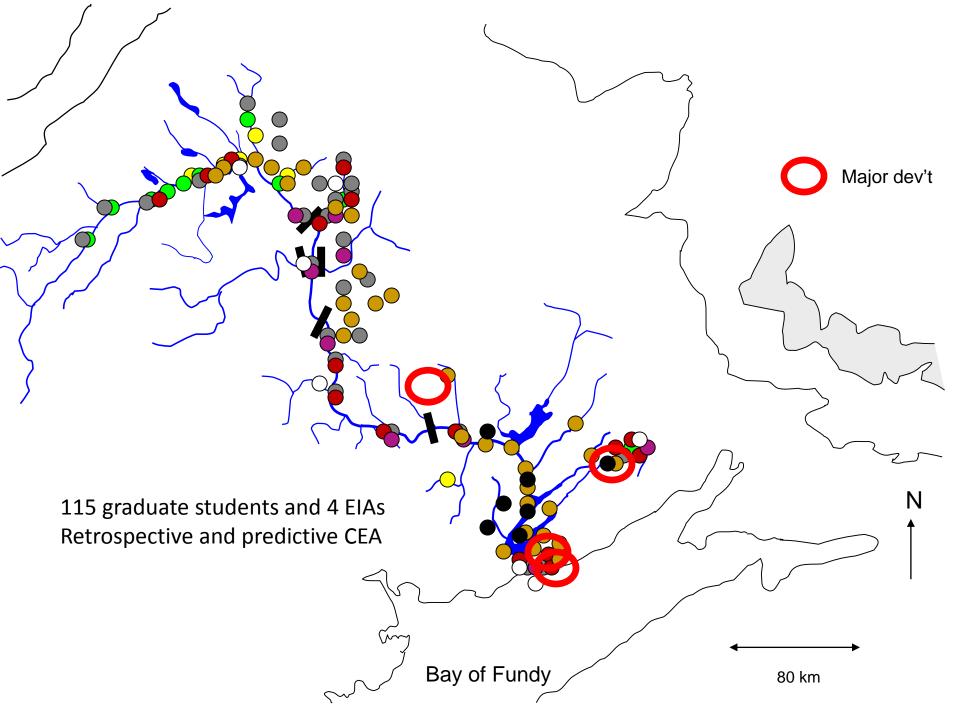
GWF Inaugural Science Meeting June 5, 2018



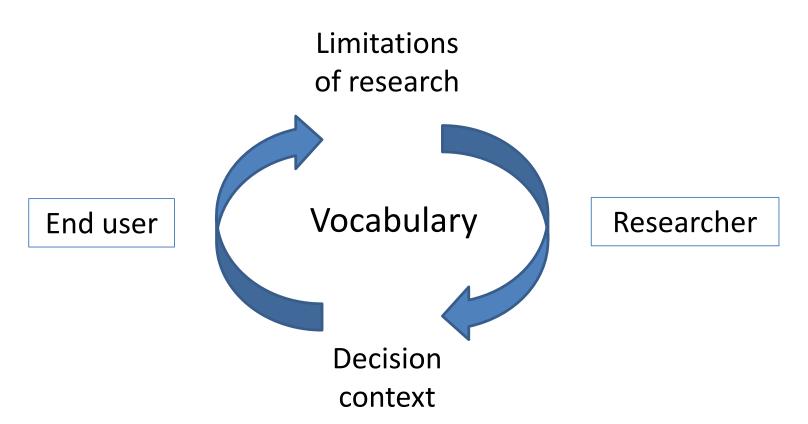


"I have an answer to your problem..."

Often don't need something defined to p < 0.0001



Continued interactions improves understanding



To make it actionable: Need to treat project development as an evolving conversation



knowledge brokeringKM KT KT knowledge translation and exchange science-policy integration knowledge translation K star **know**ledge transfer knowledge

CWN

"Knowledge mobilization is the process through which researchers and decision makers exchange knowledge and engage with one another throughout the course of a research project or program to improve the relevance, uptake and application of research knowledge for environmental, economic, social or public health benefit."





Models of Knowledge Mobilization



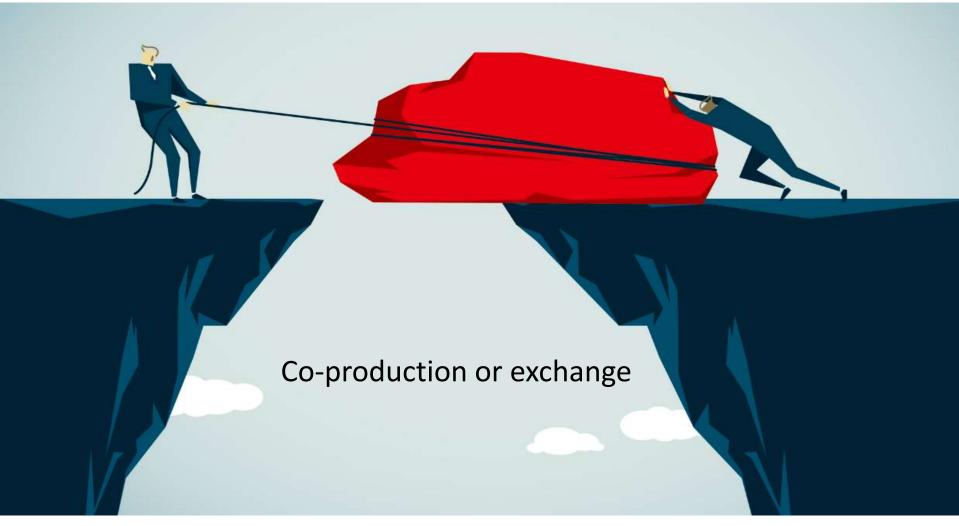
Research push



End user pull

Lavis, Lomas, Hamid & Sewankambo (2006)

Models of Knowledge Mobilization



Lavis, Lomas, Hamid & Sewankambo (2006)



Benefits of KM

"Knowledge mobilization is incredibly beneficial because you feel that you are helping to change the world. You can see that your work is actually being applied, whereas in many cases, I have published academic papers and nothing has ever happened. So it really made my job more exciting, and made the job of my students more exciting."

- Hans Schreier, University of British Columbia



How engaged are your partners in your research & KM activities?

More impact.

Inform

Consult

Involve

Collaborate

Empower

Less control. Slower process.

Adapted from <u>Arnstein's (1969) Ladder of Public Participation</u> and the <u>IAP2 Spectrum of</u> Public Participation

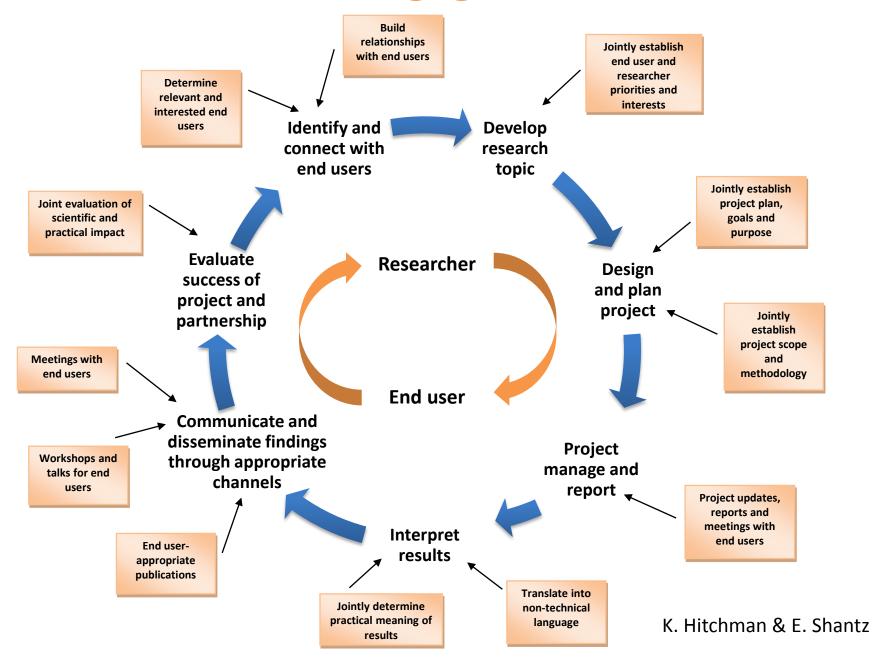
From Bergen, A., and Shantz, E. (2016). Evaluating research impact: From general to specific. Presentation for OMAFRA.

Success: Moving from outputs to *outcomes*

INPUTS	OUTPUTS	Short term	OUTCOMES Medium term	Long term
Researchers Students Partners End users Funding	Workshops Meetings End-user reports Policy briefings Tools Models Training modules Websites Academic publications Academic presentations Theses	Strengthened relationships Increased knowledge Changes in attitudes/opinions Opportunities for research Advancements and innovations in methods and technologies	Increased ability to adapt to changes Increased ability to manage risks Changes in practice, policy, regulations Institutional changes Informing investment decisions Cost savings Risks avoided	Impacts on public health Impacts on ecosystem health Impacts on economy

Adapted from the University of Wisconsin-Extension evaluation logic model template www.uwex.edu/ces/pdande/evaluation/evallogicmodel.html

What does true engagement look like?



GWF Partners Panel



Wayne Jenkinson International Joint Commission



Sandra Cooke Grand River Conservation Authority



Michael Vieira Manitoba Hydro



Amber Skye University of Toronto Dalla Lana School of Public Health

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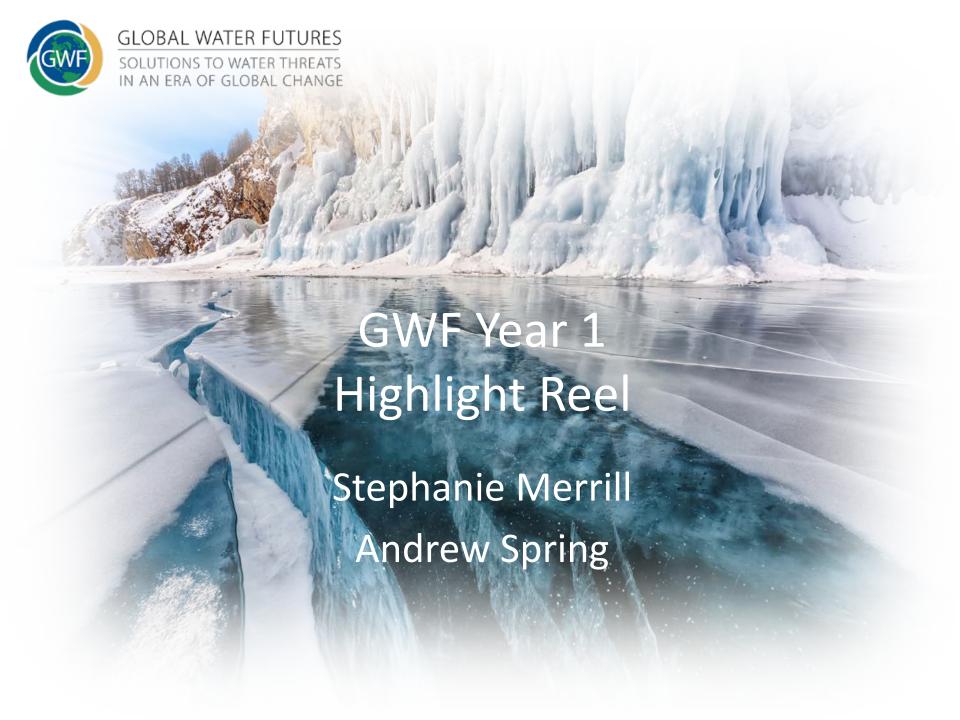
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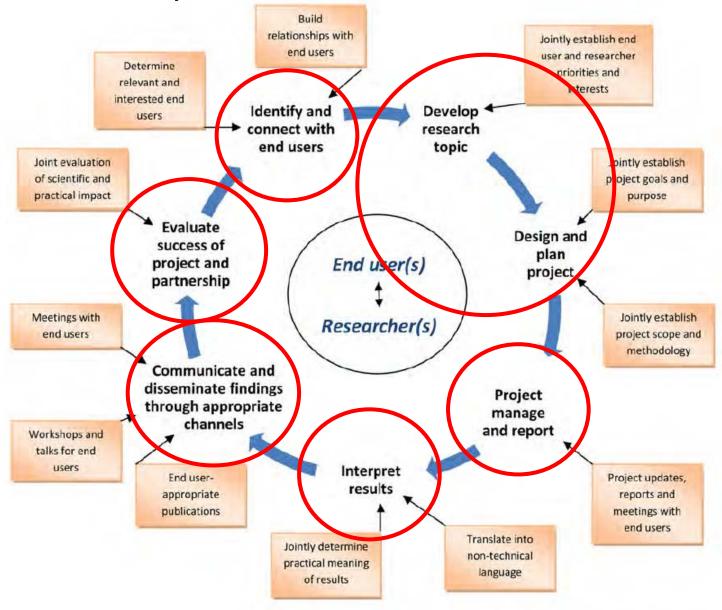
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KM Best Practices cycle





Identify and connect with



Co-develop Research Topic, Design and



WORKING PACKAGE KM PLAN

Theme A3: Integrating land-surface and in-stream water quality processes into hydrologic modelling

Investigators

Karl-Erich Lindenschmidt Al Pietroniro John Pomeroy Howard Wheater Saman Razavi

Objectives

To develop new water quality

Changing intl. Ag. commodity demand

Participatory Working Group Members

Saskatchewan Water Security Agency Prairie Provinces Water Board (PPWB) International Joint Commission (IJC) Manitoba Sustainable Development Jeff Sereda and John-Mark Davies Joanne Sketchell and Mike Renouf Glenn Benoy Nicole Armstrong

Knowledge Mobilization Plan

This modelling work will support knowledge users in assessing how particular water management scenarios will influence river water quality. In their letter of support for the IMPC proposal and the GWF Stakeholder Assessment, the PPWB note that they are concerned with water quality conflicts, and have identified outcontication and putriost transport as the

10 20 3

Project manage and report

Participate Working (

US Nationa for Atmosp Research (I Rasmussen

Environme Climate Ch Canada (E0

Prairie Water U

The Prairie Water Use among Prairie Water r

- 1. Represent a diversi and stakeholders) invobelow for list of repres
- 2. Function as a "Bou potential users to facil clients, partners and the
- 3. Critically and consuser community persp
- 4. Provide advice to I research program deli
- 5. Assist in identifyin public-relations events



Northern Water Futures Updates

Friends and Colleagues,

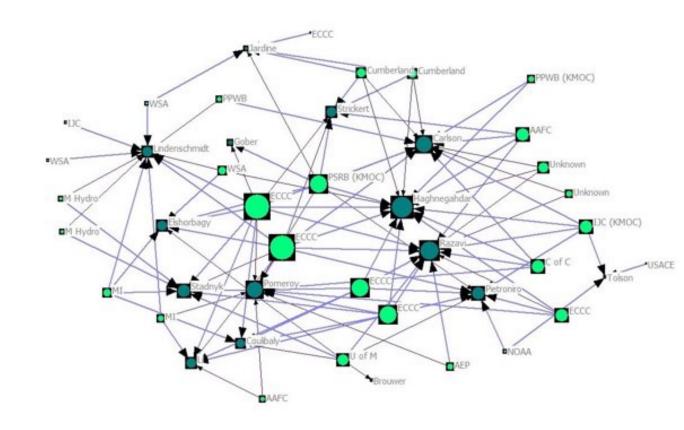
Another winter is behind us and we are all looking forward to spring. Over the past few months, the team at Northern Water Futures has been hard at work meeting with communities and partners to discuss research priorities and co-development of research, and to plan for the upcoming field season. We were fortunate to participate in meetings in the Dehcho and Sahtú regions this winter that allowed NWF to strengthen existing relationships and to build more partnerships and collaborations across the Northwest Territories. The Laurier Yellowknife Research Office continues to build strong relationships with researchers in government departments, and a new cohort of graduate students have been recruited. Northern Water Futures is off to a great start and we are looking forward to a productive research season this summer.



MHAT IS THE PROBLEM? Co-creating of Indigenous the population considers the primary source of simpling **Water Quality** wante to be amount to drink, and all is of First Nations Tools 2 OVERALL OUTLOOK First Nations with the most days under a water advisory he issues related to water are noted in many indigenous across the country - including the sites under EXISTING MEASURES & MAJOR CHALLENGES Canadian Government's Financial Commitments for Upgrading Water Systems on First Nations Land SOLUTIONS · Incorporate indigenous knowledge in the decision making process. Increase funds for capital, operation, maintenance costs⁴ . Focus on innovative governance mechanisms to facilitate sharing and integration of contemporary science and Indigenous and Local Knowledge.

McMaster

Interpret results



Communicate in appropriate language



Weather and Climate Extremes

Volume 3, June 2014, Pages 107-116

open access

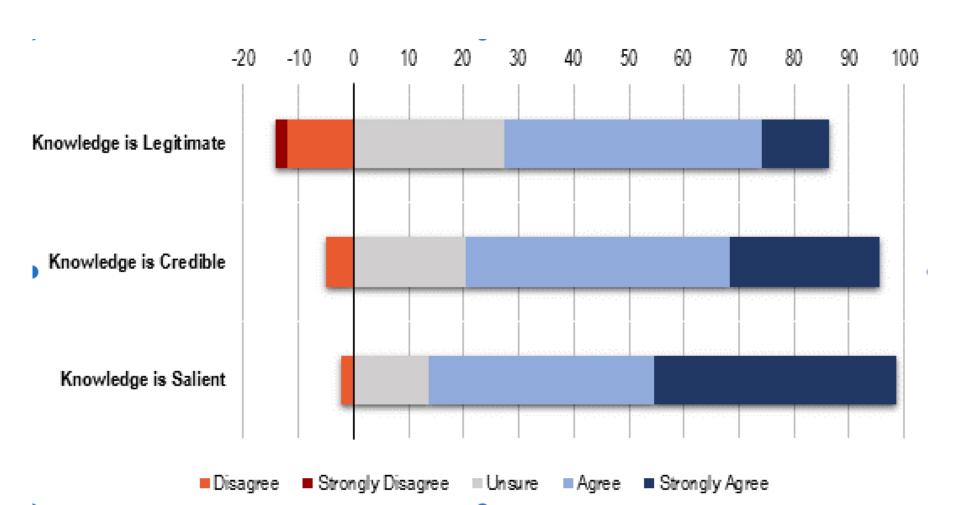


The Invitational Drought Tournament: What is it and why is it a useful tool for drought preparedness and adaptation?

Harvey Hill ^a △ , Monica Hadarits ^a , Richard Rieger ^b , Graham Strickert ^c , Evan G.R. Davies ^d , Kaitlin M. Strobbe ^a



Evaluate success



And the iterative engagement loop continues...

- ...as the project moves through its components or subthemes
- ...into new phases of the project
- ...into new projects as the relationships grow and the questions evolve



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Moving Forward: KM Core Team Initiatives

KM Services

PLANNING AND INITIATION

- Workplan development
- KM strategy development
- Collaborator identification and onboarding

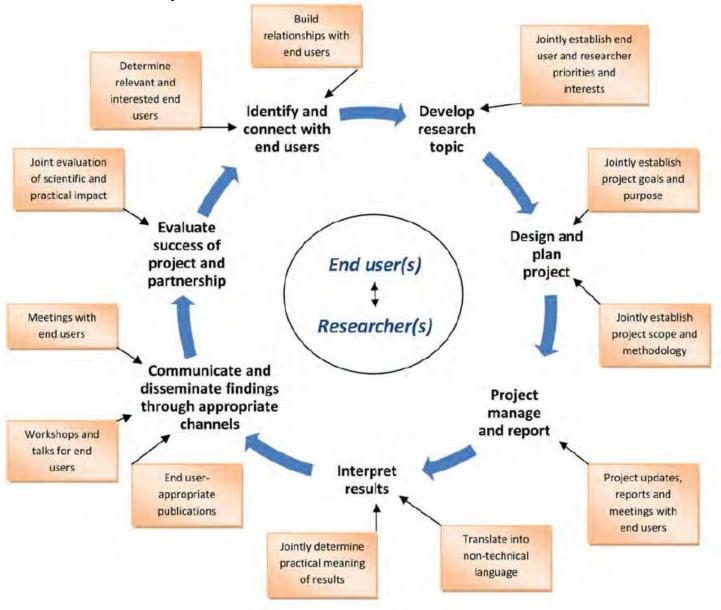
KM ACTIVITIES

- Committees and meetings
- Workshops and seminars
- Translation materials (e.g. newsletters, policy briefs)
- Websites, apps, and visual materials
- Knowledge dissemination

KM Services

- NETWORKING AND RELATIONSHIP
- PROGRESS TRACKING AND MONITORING
- REPORTING AND ADMINISTRATION

KM Best Practices cycle



KM Champions Network (KMNet)

- Composed of nominated contacts from each project
- Improve efficiency, interaction, and capacity building by identifying project-specific people to liaise with the KM team
- Increase access to ongoing operations at the project level
- Identify links between GWF projects across the network
- Monthly gatherings via conference call or WebEx

KM Resource Library

- Library of templates, best practices and other information generated through the network
- Resources to build KM capacity
- Available to all projects
- https://gwf.usask.ca/Resources/KM.php

Feeling Inspired? Got new KM ideas? Want to dig in? We can help...



Stephanie Merrill University of Saskatchewan



Andrew Spring Wilfrid Laurier University



Stephanie Morningstar McMaster University



COMING SOON Nancy Goucher University of Waterloo

Advisors: Lawrence Martz (USask), Kelly Munkittrick (WLU), Kevin Boehmer (UW), Dawn-Martin Hill (McM)

Contacts @ https://gwf.usask.ca/Resources/KM.php

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