Maawnjidowin, Mnaadiming Anishinaabe-Kendaaswinan: Bemaajidijig Kiin Nadizowinan

Trent University,
Peterborough, Ontario
16-22 June 2010

"For the eel":
MI'KMAQ PROVIDERS,
KATAQ AND NETUKULIMK

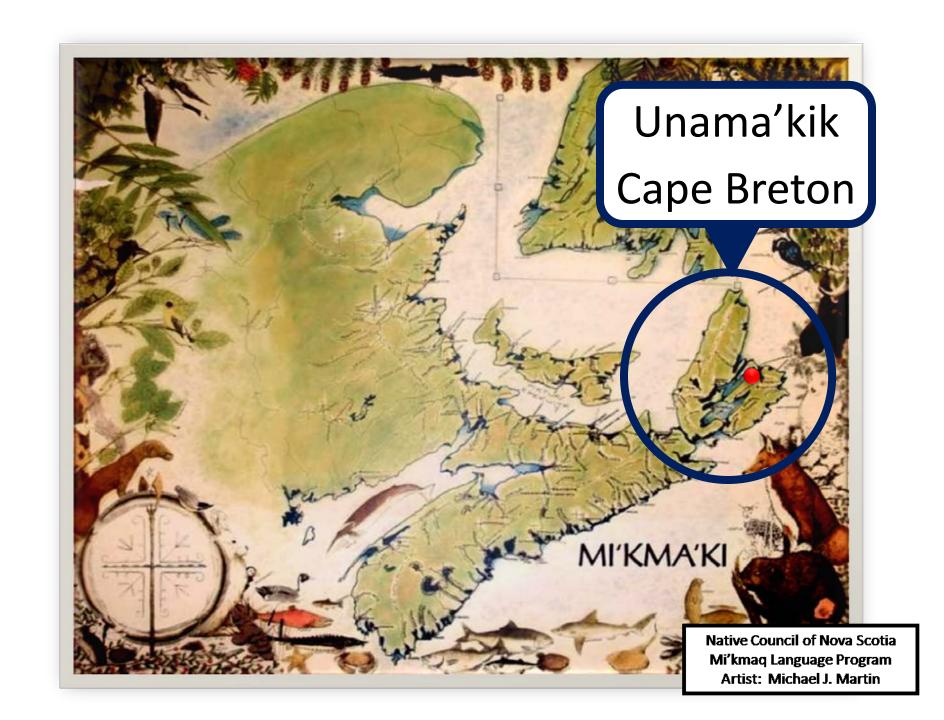
Sana Kavanagh

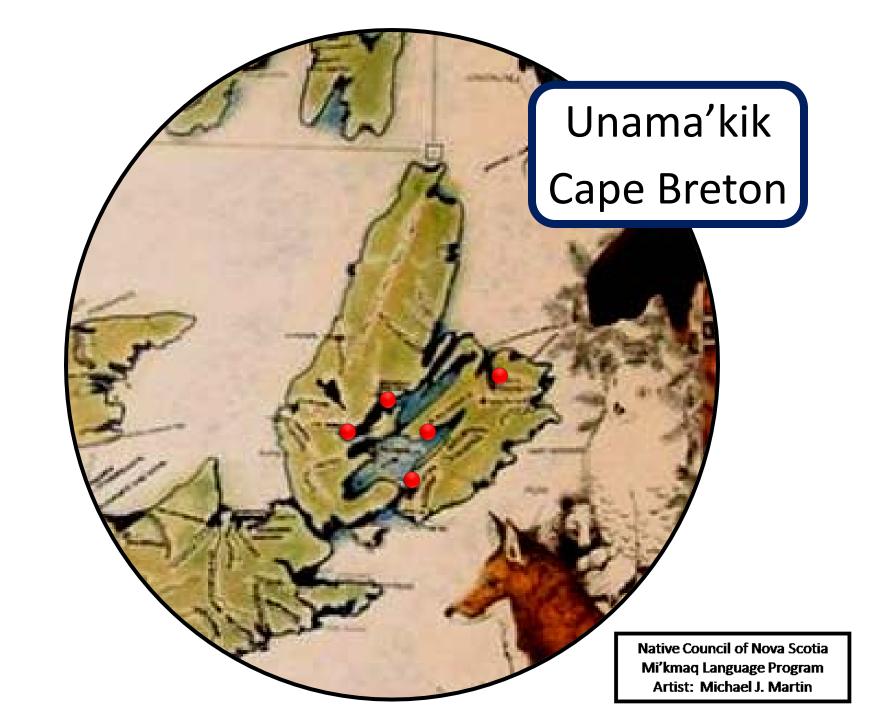
Institute for Integrative Science and Health, Cape Breton U. School for Resource and Environmental Health, Dalhousie U.

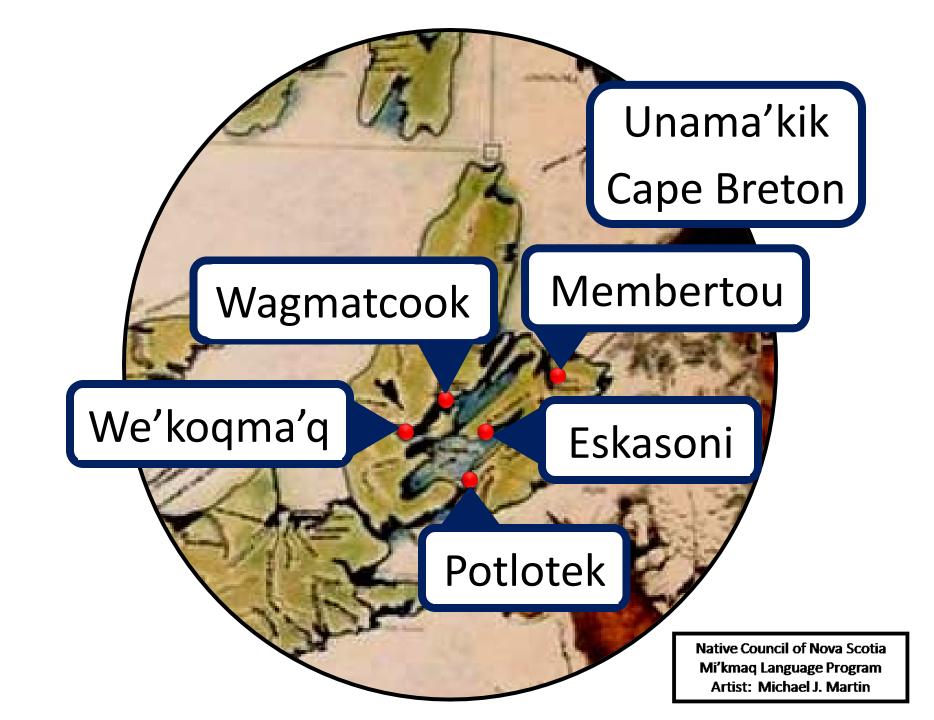
ABSTRACT

"For the eel": Mi'kmaq providers, Kataq and Netukulimk

'Traditional ecological knowledge' (TEK) is a helpful broad concept, yet moving beyond it enables better recognition of Indigenous communities' concepts of place. To illustrate this, I will describe my qualitative research into Mi'kmag knowledge of katag (eels) in Nova Scotia. Netukulimk is a Mi'kmaq concept and way of life - providing for oneself and others through the bounty of Creator. Mi'kmaq Elder Albert Marshall of Eskasoni, as community liaison, guided me to use *Netukulimk* as an interpretive framework in my research. He led me from 'eeler' to 'provider' as a term for research participants who provide for themselves and others by fishing and hunting for many species. Through semi-structured interviews with 11 Mi'kmaq providers, I learned about: searching for eels, when and where to harvest eels, preparing and eating eels, taking only what's needed and wasting nothing, and teaching and being taught about eels. Contextualizing Mi'kmaq providers' discussion of kataq within Netukulimk led me to three insights: 1) although they use various strategies, providers describe themselves protecting food species and the way of life known as *Netukulimk*; 2) although providers modify practices, there is historical continuity in the overall pattern of Netukulimk; and 3) picturing species at risk through the lens of Netukulimk shows declines of most species important in the Mi'kmaq way of life. My motivation for this research was to show Mi'kmaq knowledge of kataq could enrich integrative science, which brings together Indigenous and Western sciences. Albert Marshall participated "for the eel", now declining in population. His advocacy "for the eel" is yet another strategy for protecting food species and *Netukulimk*, now in the context of research and education. These actions "for the eel" are as important as the richly patterned knowledge of katag, and will be an essential part of an integrative science curriculum guided by Netukulimk.









Albert Marshall

Mi'kmaq Elder, Eskasoni FN Elder Advisor, Integrative Science



Unama'kik Lape Breton



Murdena Marshall

Mi'kmaq Elder, Eskasoni FN Elder Advisor, Integrative Science Professor of Mi'kmaq Studies (retired), Cape Breton University



Cheryl Bartlett

Canada Research Chair in Integrative Science Professor of Biology Cape Breton University





Native Council of Nova Scotia Mi'kmaq Language Program Artist: Michael J. Martin







learning to see with the strengths of each & together

LEARN to see from one eye with the strengths of **Indigenous** knowledges and ways of knowing...

And from the other eye with the strengths of Western knowledges and ways of knowing ...





learning to see with the strengths of each & together

fron and to use both these eyes together, for the benefit of all.

Indigenous Wester knowledges knowledges

and ways of knowing...

Western knowledges and ways of knowing ...







learning to see with the strengths of each & together







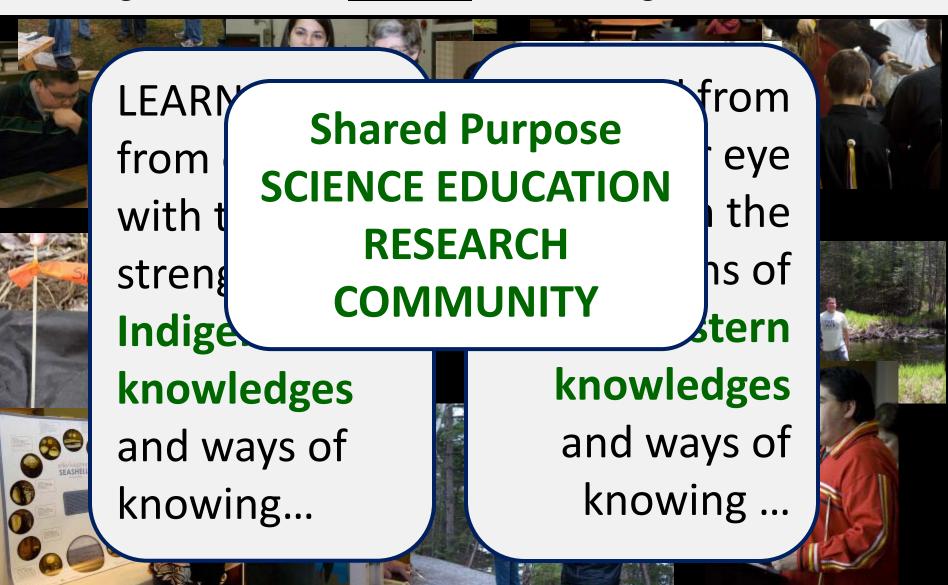
learning to see with the strengths of each & together

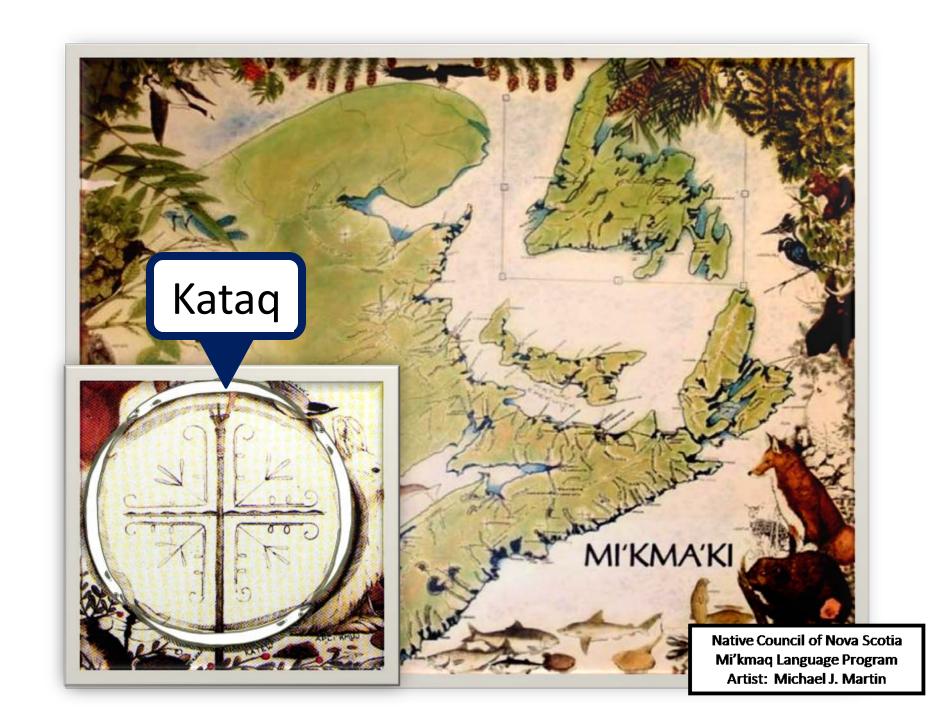
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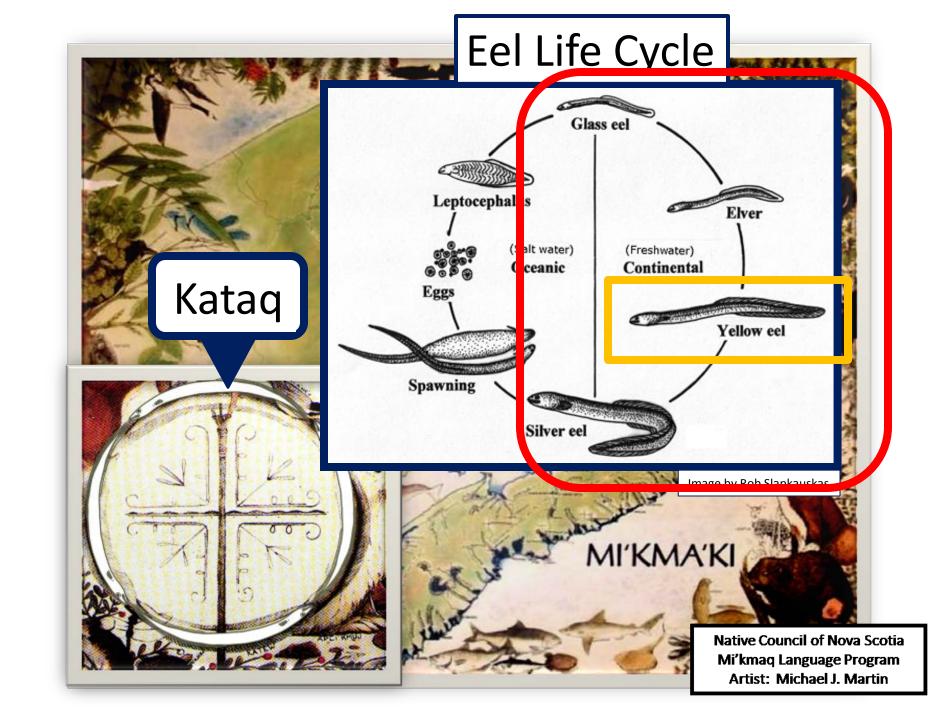


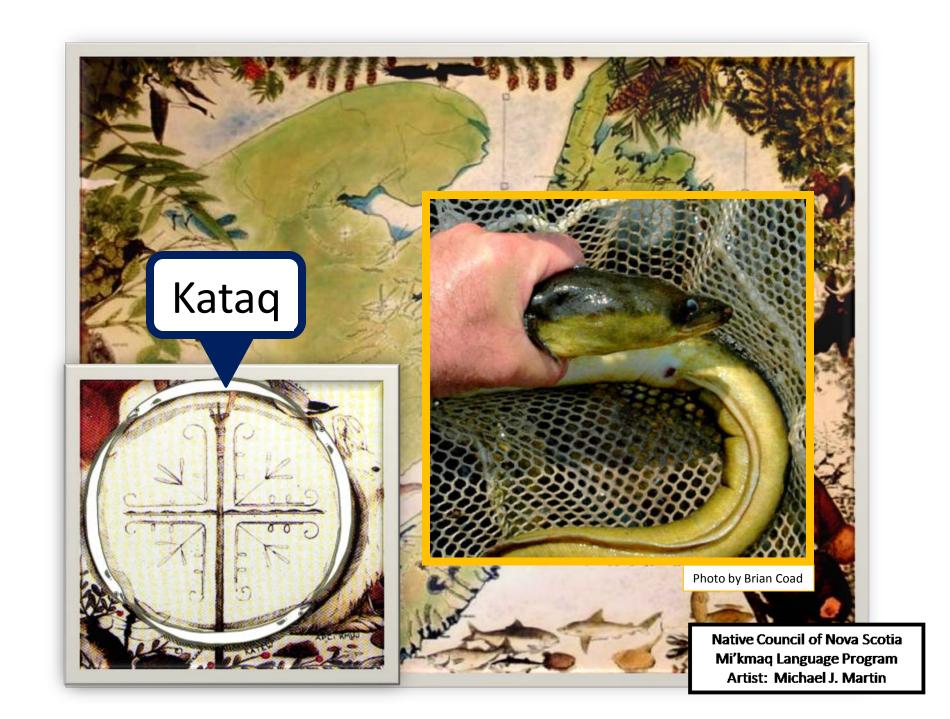


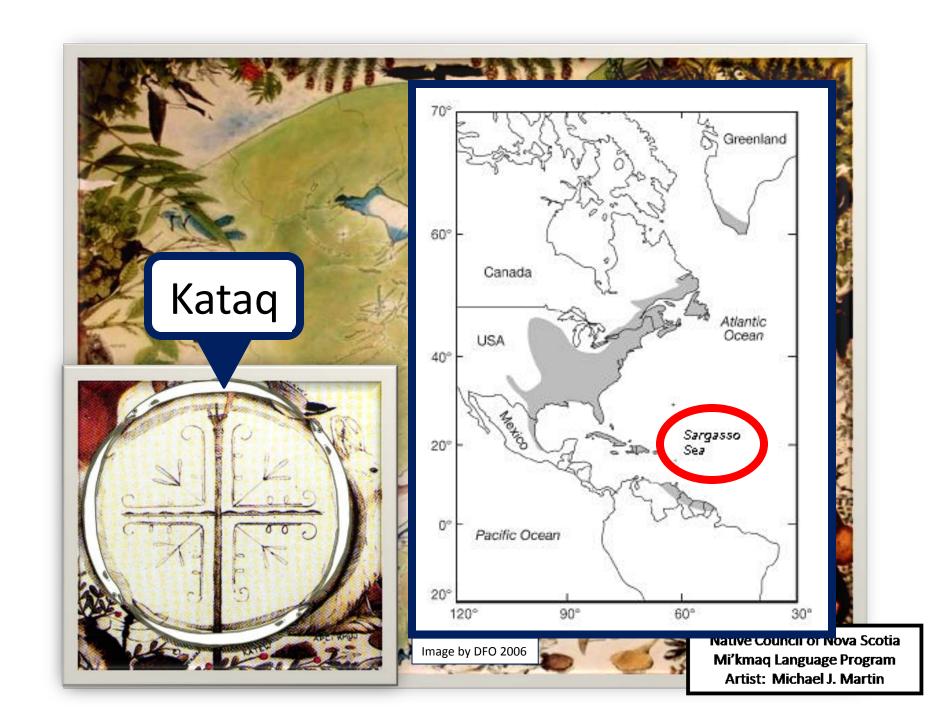
learning to see with the strengths of each & together

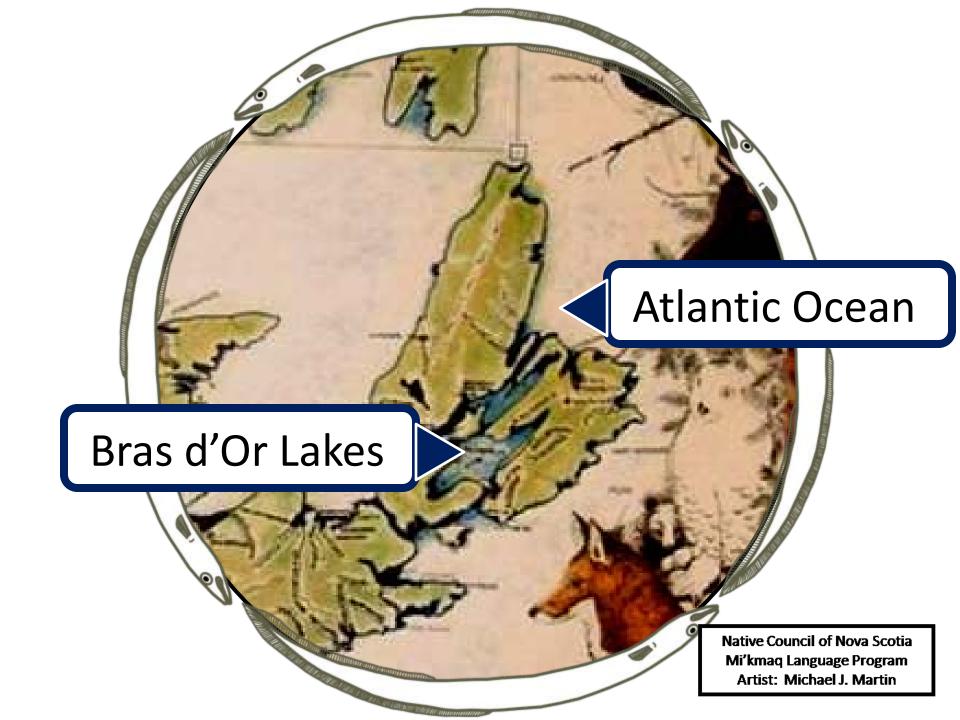




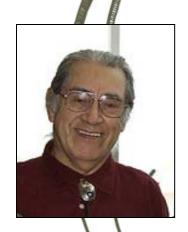












Albert
Marshall
Mi'kmaq Elder,
Eskasoni FN

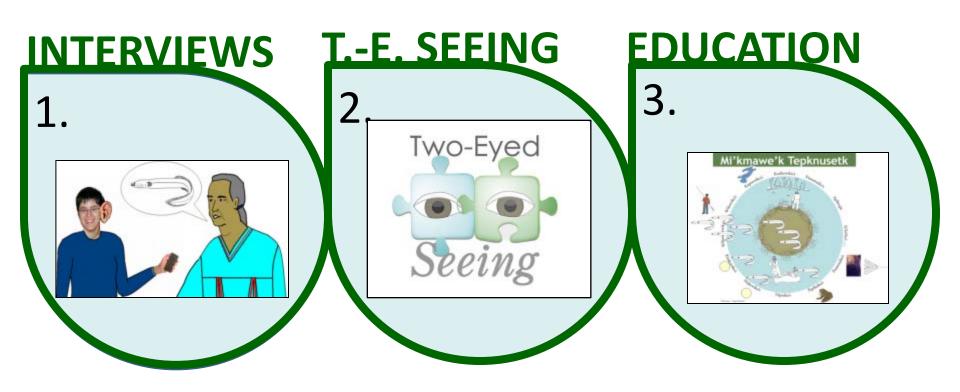
Guiding Principles, Two-Eyed Seeing

Inviting Participants,
Informed Consent,
Interviewing,
Translating

Guiding, Advising, Discussing, Correcting, Teaching, Mentoring

Mi'kmaq Knowledge of Kataq:

qualitative research for integrative science







learning to see with the strengths of each & together

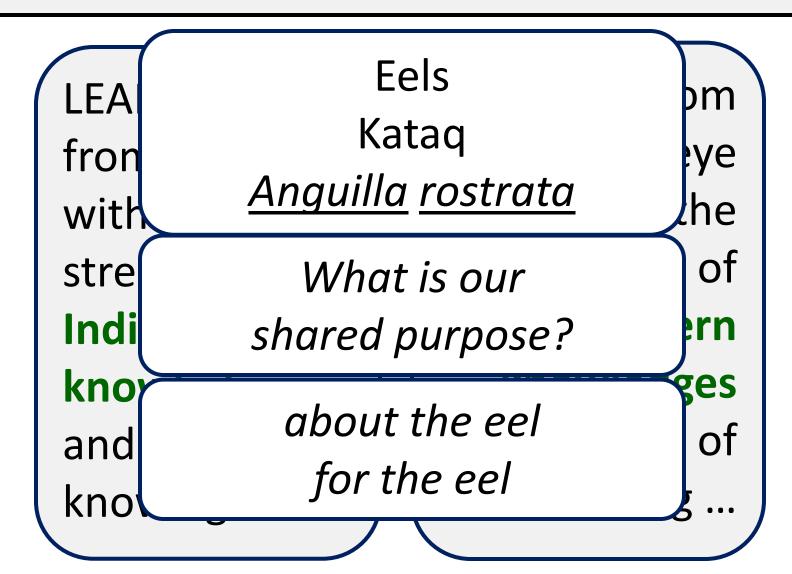
LEARN to see from one eye with the strengths of **Indigenous** knowledges and ways of knowing...

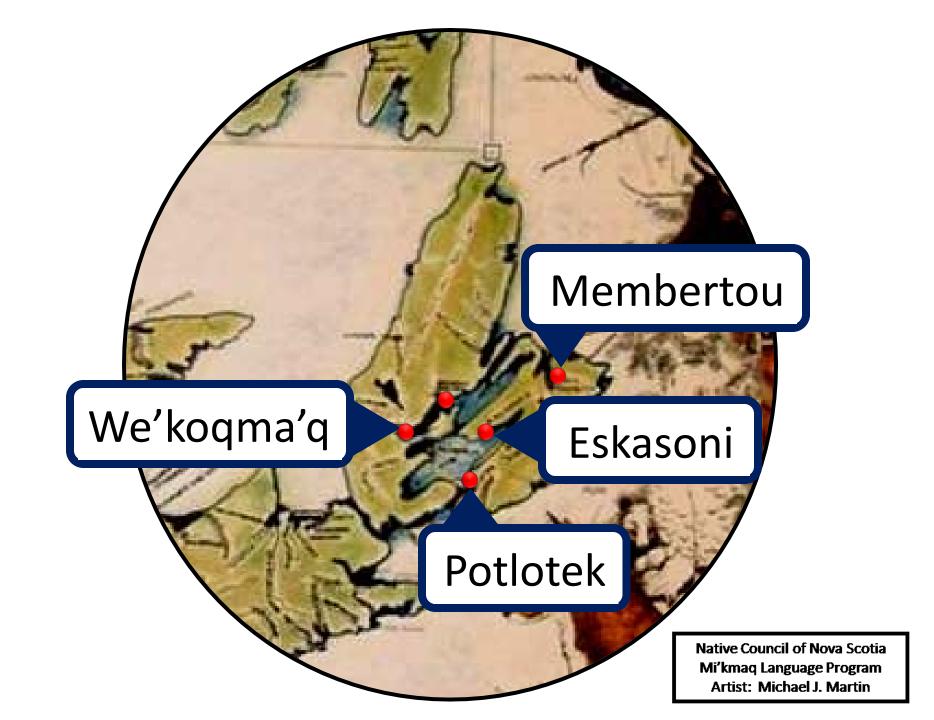
And from the other eye with the strengths of Western knowledges and ways of knowing ...

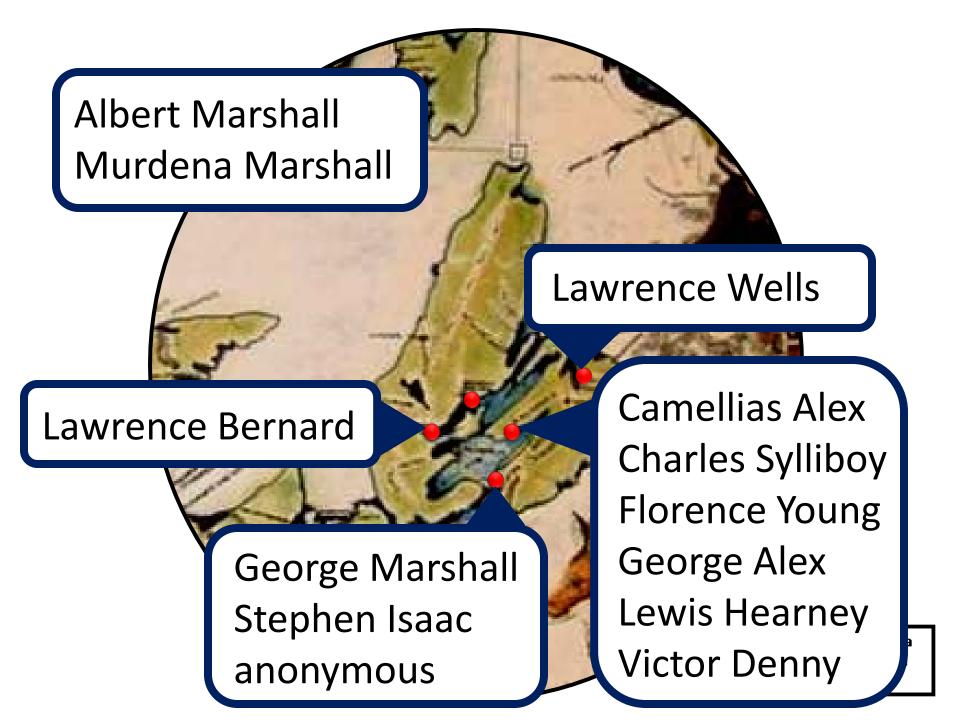


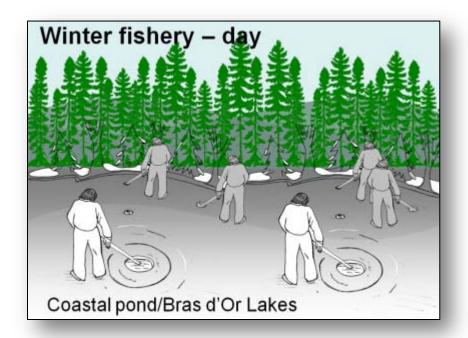


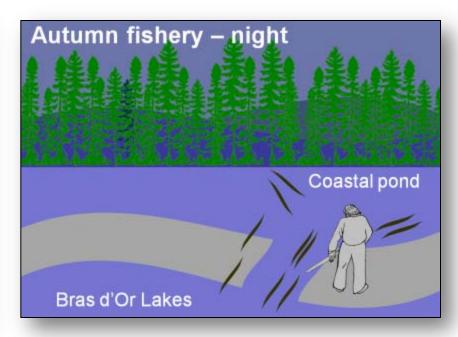
learning to see with the strengths of each & together

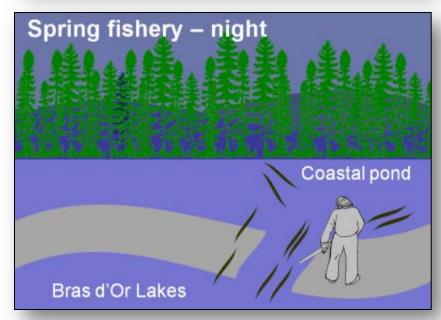




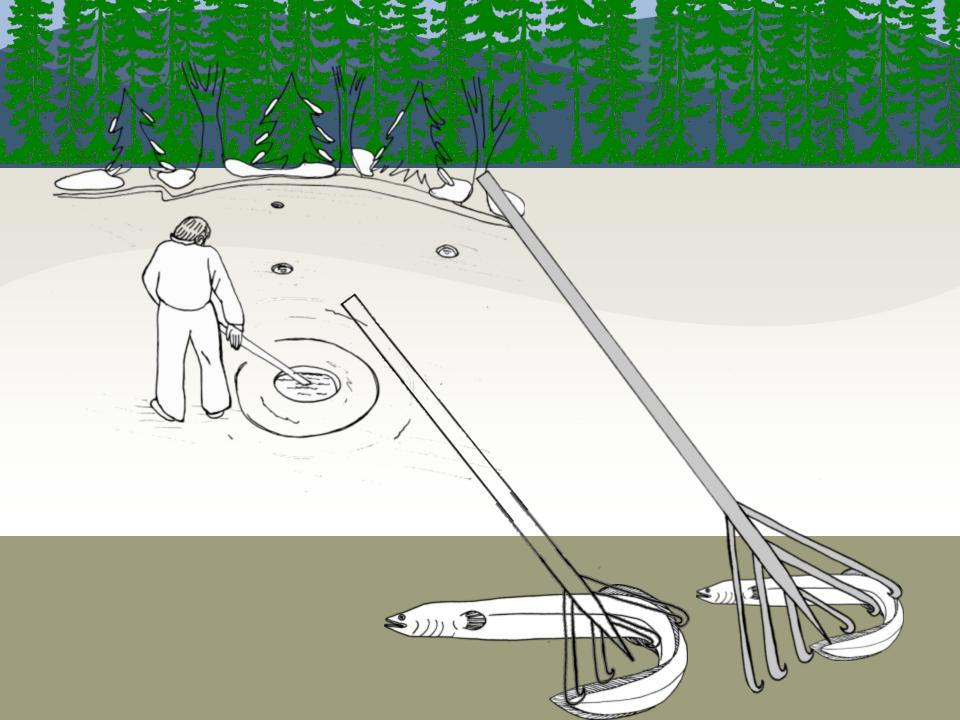






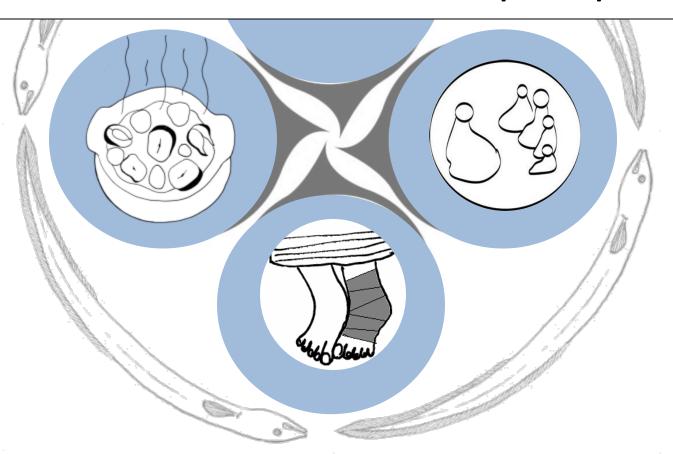


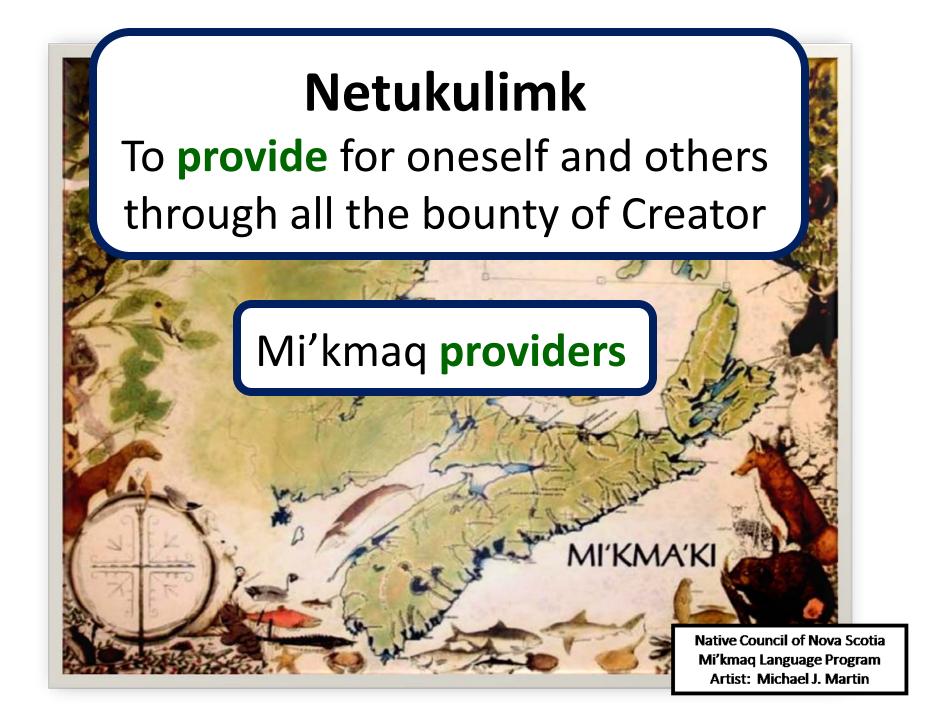


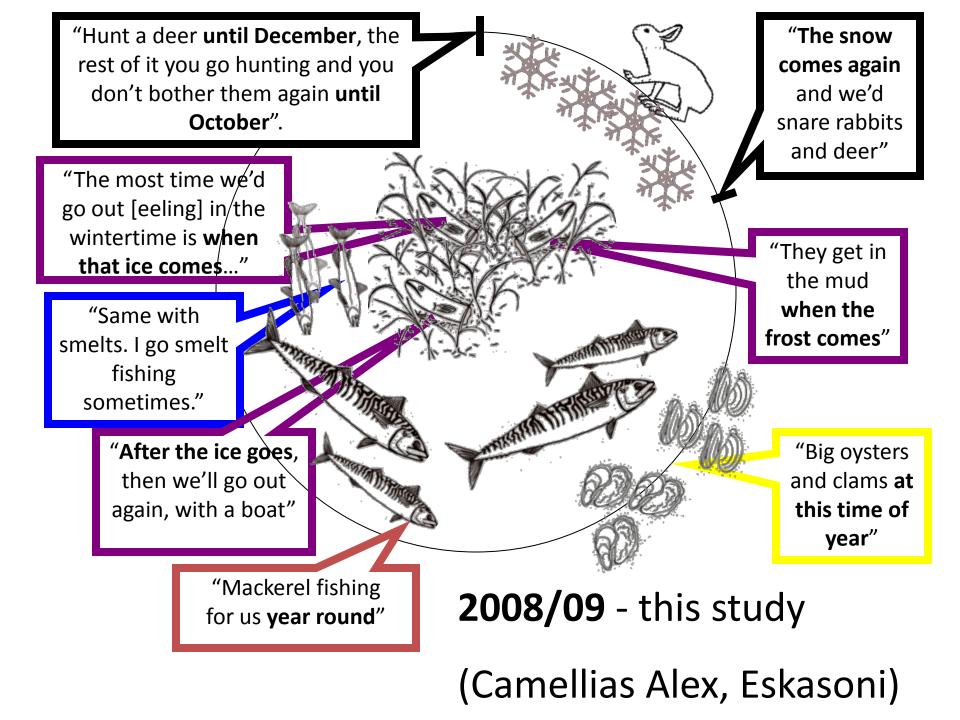


"Eels were life to our people."

[Lawrence Bernard, We'koqma'q 2008]

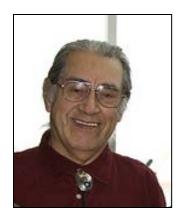






Co-existence

"When we look at Creator, if it was meant for me to know everything that I needed to get along, then I would only be one person in the world. Instead, each person is given a skill and develops those skills". (2008)



Interdependence

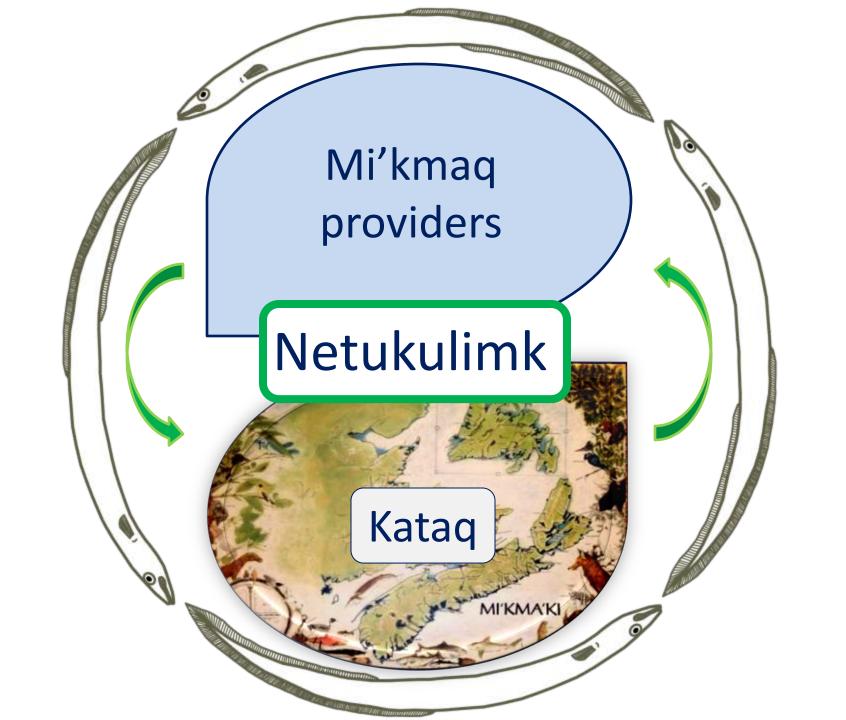
"If some person is struggling, apply your skills to compensate for that person. Some days I'm down and out ... the community will not let me go hungry".

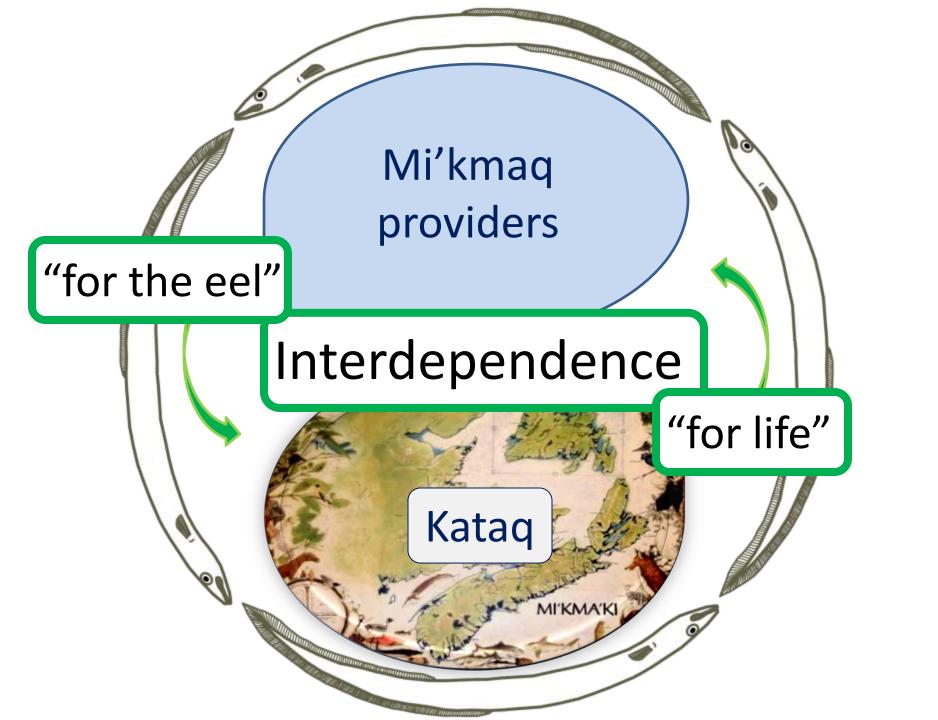
Community spirit

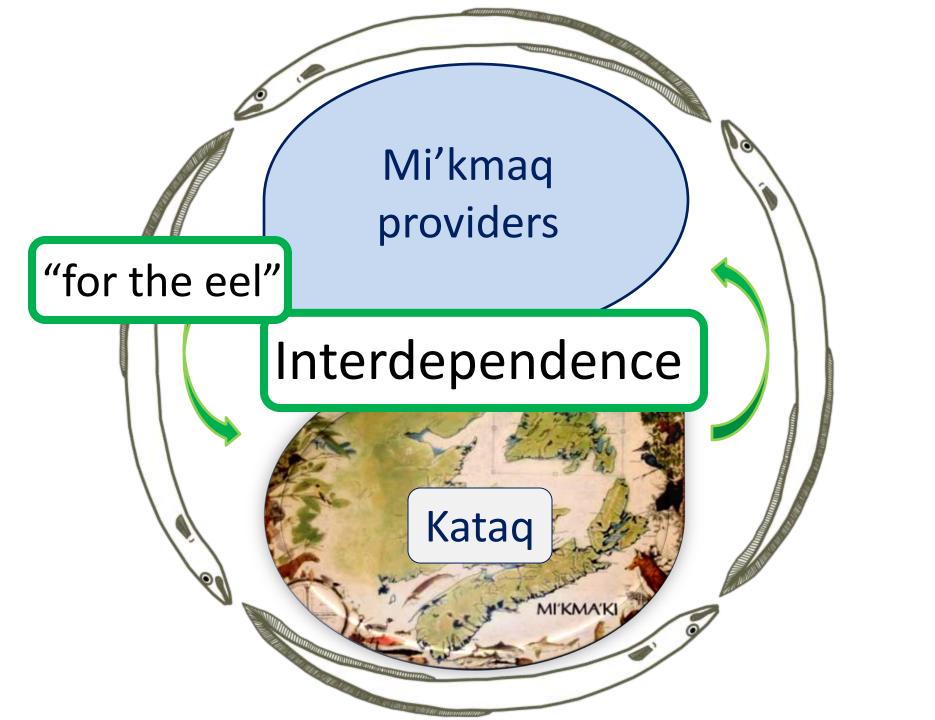
Albert MarshallMi'kmaq Elder, Eskasoni FN

"The sense of community is constantly triggered...[You're] fine tuning your skills to live in balance and harmony with others. It's a sense of community enmeshed in total being".

Netukulimk teaches you.







Six Strategies "for the eel":

- 1) Limit catch
- 2) Use selective gear
- 3) Select eels based on size
- 4) Use numerous fishing spots
- 5) Return eel parts to the water
- 6) Advocate for Netukulimk and Kataq

1) Limit Catch

GEORGE ALEX OF ESKASONI SAYS

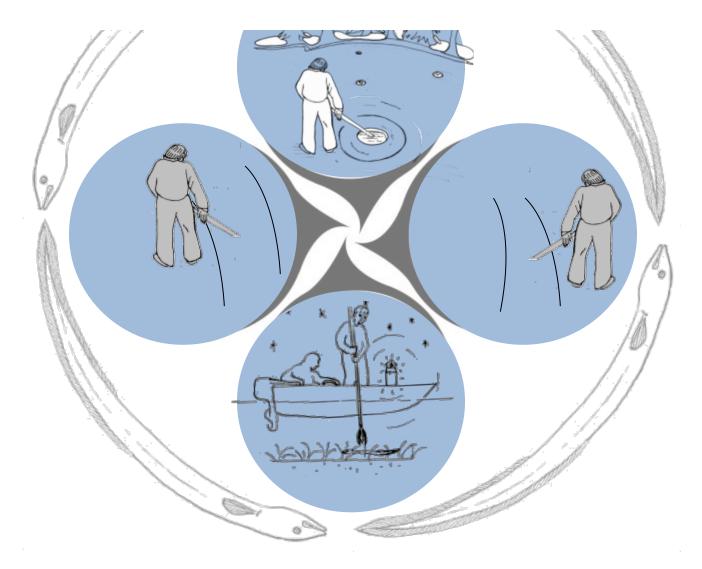
We go out for **just enough for a feed**. Two or three dozen [eel], instead of hauling two or three thousand pounds. [2008]

1) Limit Catch

FLORENCE YOUNG OF ESKASONI SAYS

Me and my husband we never used to go out to get fish [eels], more than we need. We get what we need and we go out and get some more if we need more tomorrow or next week. [2009]

2) Use Selective Gear



2) Use Selective Gear

CAMELLIAS ALEX OF ESKASONI SAYS

When you trapping them [the eels], that's what kills us most, that's what killed all our eels there. About a thousand pounds there. Alright when you spear them, that's okay. [2009]

2) Use Selective Gear

LEWIS HEARNEY OF ESKASONI SAYS

We used to have those [*elver*] traps. We'd send them halfway around the world. We'd send little babies [*elvers*]. They stopped that.

Because when we spear an eel, we don't take that much...we get just what we want. [2009]

3) Select Eels Based on Size

GEORGE ALEX OF ESKASONI SAYS

You don't go for the small ones, you let them grow.

You go after the big ones, the big eels, and those ones are good. [2008]

4) Use Numerous Fishing Spots

GEORGE ALEX OF ESKASONI SAYS

You stay in one spot, you'll starve. Same with a human being; you stay in one spot you'll starve. Same with eels. [2008]

5) Return Eel Parts to Water

GEORGE ALEX OF ESKASONI SAYS

That's taking a lot out of the water, eh?

And when you take something
out of the water
you got to give something back.[2008]

6) Advocate for Netukulimk & Kataq

LEWIS HEARNEY OF **ESKASONI** SAYS

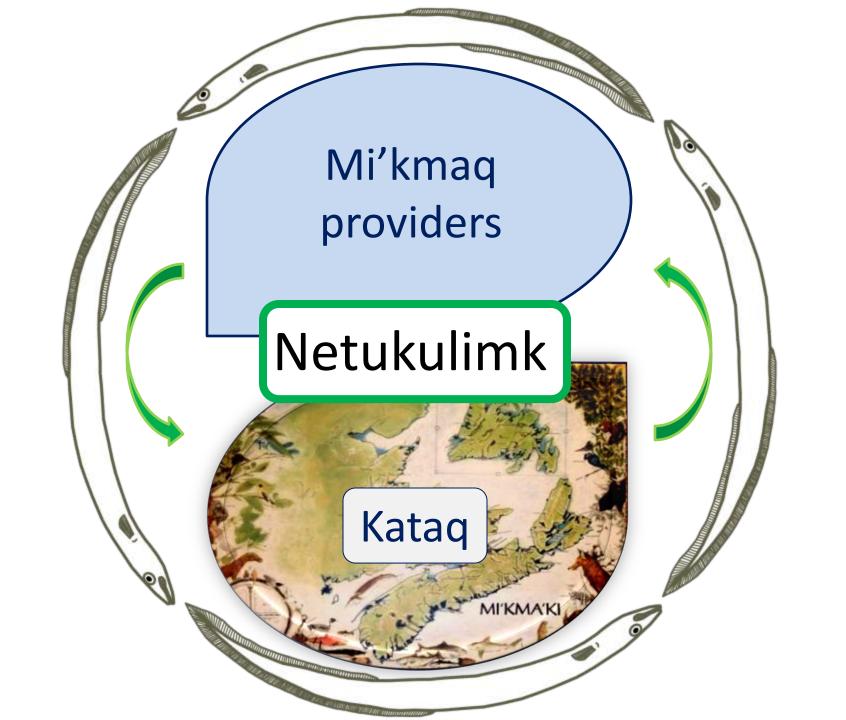
I think we'll have a meeting.

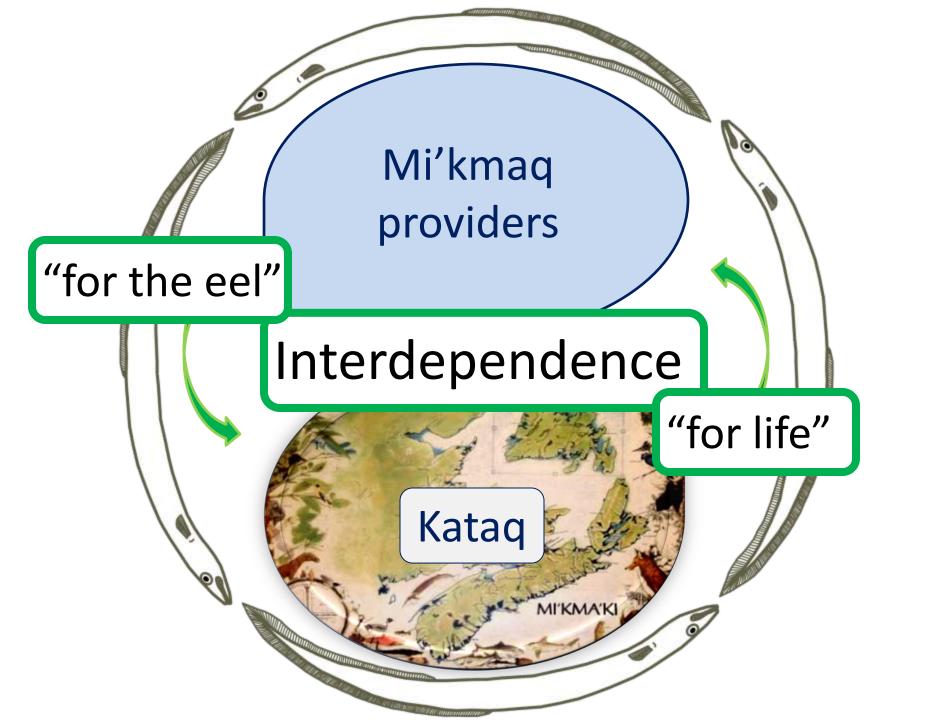
The people.

Because you can't do it yourself all alone.

You have the communities- every reserve.

[2008]













Two-Eyed Seeing

SARA: Aboriginal Traditional Knowledge Workshop. Setting Research and Policy Priorities *Toronto, Ontario, 28-30 October 2008*

Aboriginal Traditional Knowledge Workshop.

Two-Eyed Seeing: Using the Example of the American Eel

Moncton, New Brunswick, 18 November 2008

Eastern Ontario and Western Quebec Aboriginal Workshop.
Aboriginal Traditional Knowledge Sharing and
American Eel SARA Listing

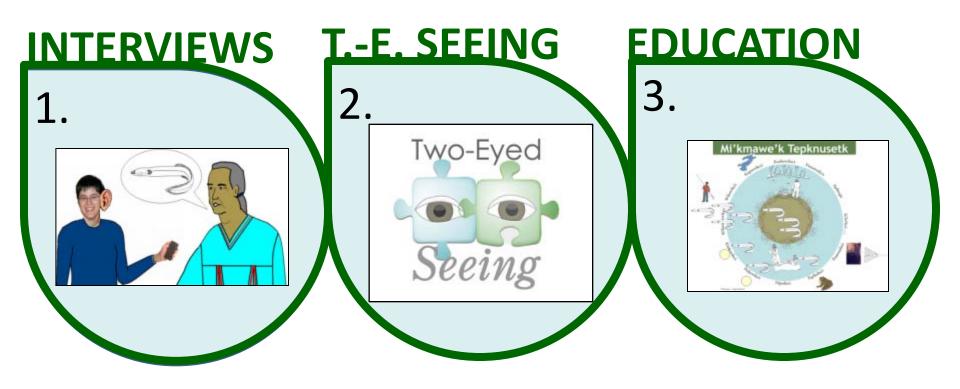
Ottawa, Ontario, 23 November 2008

"For the eel"



Mi'kmaq Knowledge of Kataq:

qualitative research for integrative science







Two-Eyed Seeing

learning to see with the strengths of each & together

LEARN to from one with the strengths of **Indigenous** knowledges and ways of knowing...

And from "For the eel" ther eye with the strengths of Western knowledges and ways of knowing ...



Special Thanks To Mi'kmaq Providers

- Albert Marshall
- Camellias Alex
- Charles Sylliboy
- Florence Young
- George Alex
- George Marshall

- Lawrence Bernard
- Lawrence Wells
- Lewis Hearney
- Murdena Marshall
- Stephen Isaac
- Anonymous

plus participating Mi'kmaq communities in Cape Breton: Eskasoni, Membertou, Potlotek, and We'koqma'q

Special Thanks To SSHRC



Social Sciences and Humanities Research Council of Canada Conseil de recherches en sciences humaines du Canada



and also to



Albert
Marshall
Mi'kmaq Elder,
Eskasoni FN



Cheryl
Bartlett
Canada Research Chair
in Integrative Science
Professor of Biology







Contact Sana Kavanagh (graduate student)



Institute for Integrative Science & Health,
Cape Breton University, Sydney, NS

School for Resource and Environmental Studies,
Dalhousie University, Halifax, NS

Sana_Kavanagh@cbu.ca

PEOPLES, LANDS, CULTURES CONFERENCE SCHEDULE

DAY 1 - WEDNESDAY, JUNE 16 TH			
11:00	GCS Foyer-Trent	Registration Opens	
2:00-5:00	Curve Lake FN	Trip to Petroglyphs	
7:00-9:00	Trent	Welcome BBQ/Social	

		DAY 2 - THUI	RSDAY, JUNE 17 TH	
Time				
6:30-7:30	Sunrise C	Ceremony: Traditional Area		
9:30-10:30	Official Welcome; Traditional Opening; Chief of Curve Lake; President; Honourary Conference Chair; Indige			
	Studies; U	Jnity Singers; Honouring Our Past.		
10:30-10:45		Break: GCS Atrium-Trent		
Time	Rms	Presenters	Titles	
10:45-12:00	1	Don McCaskill	Indigenous Studies PhD Program: Indigenous Knowledge, Wes Knowledge and the Academy: A Perfect Fit?	
		Ross Hoffman	"Even Jesus Only Got Eleven out of Twelve": Honoring Dr. Couture's Work within the Discipline of Native Studies	
	2	Paula Sherman, Eliza Tru & Lana Ray	Indigenous Knowledges in Theoretical and Methodolog Frameworks: Examining the Incorporation and use of Indige Knowledges in Graduate Research, 2000-2010	
	3	Kevin Fitzmaurice	Decolonization and Academic Opportunism: Indigenous Knowl in the Interests of Peace and at the Service of Scholarly/Discipli Appropriation	
		William Woodworth	The Recovery of Ancient Indigenous Educational Practices	
	4	Lynne Davis & David Newhouse	So, How Do You Measure the Research Productivity of Elders?	
		Robert Innes	The Widdowson Question: To Engage or Not Engage?	
12:00-1:15		Lunch: GCS Robinson Hall		
1:30-2:30	GCS 114	Keynote Speaker-Linda Smith		
2:30-2:45	GCS	Afternoon Break: GCS Atrium-Trent		
2:45-3:45		Michael Thrasher & Mark Dockstator	Traditional Teaching – Medicine Wheel	
	1	Nicole Bell	Articulating Anishinaabe Research Theory and Methodology	
		Brent Debassige	Expressing Anishinaabe Mino-Bimaadiziwin as Research	
			Methodology through a Wholistic Educational Model of Anishinaal Literacy	
	2	Janice Wenn	The Dream, the Action, and the Reality	
		Belinda Borell	Researching the 'Dominant': Lessons Learnt for Indigenous Resear	
	3	Lynn Gehl	Debwewin Miikan-Zhidchigewin: the (Anishinaabe) Truth Road Ar of Doing	
		Rene Bédard	Conducting Indigenous Arts-Informed Research	
	4	Gail MacKay	Listen to the Book's Quiet Way of Telling	
		Karyn Recollet	Aural/Oral Narratives: The collective historical memory contemporary Indigenous hip-hop	
4:00-5:00	GCS 114	Keynote Sneal	ker —Tom Porter	
5:15-6:15	GS	Traditional Teaching and Tree Planti		
8:00-10:00		Nozhem Performance/Strawberry Moo		

	DAY 3 - FRIDAY, JUNE 18 TH
Time	

6:30-7:30	Sunris	e Ceremony, Traditional Area		
9:30-10:30	GCS 11		oker — Greony Cajete	
10:30-10:45	GCS 114 Keynote Speaker — Gregoy Cajete Morning Break: GCS Atrium-Trent			
Time	Rms	Presenters Presenters	Titles	
10:45-12:00	1	Paula Sherman & Nicole Bell	Spiritual Ecology as a Foundation of Anishinaabeg Education	
			History: Learning from Gregory Cajete	
		Herbert Nabigon	Climate Change from the Medicine Wheel Perspective	
	2	Vicki Kelly	Indigenous Education: Towards a Pedagogy of Place	
		Julia Lane	Embodying Environments: Interdisciplinary and Cross-cult	
			Environmental Education in Ontario	
	3	Jhaimy Alvarez-Acosta	The Andean World-View & Cosmo-Vision through Symbology	
			Story	
	4	Jamie Ataria	Challenges to M_ori identity in dealing with environmental issues:	
			The role of education institutions	
		Jean-Paul Restoule & Sheila Gruner	Cree Concepts of Land, Environment and Life in Fort Albany	
	5	Sana Kavanagh	"For the Eel": Mi'kmaq providers, Kataq and Netukulimk	
		Lyn Trudeau, Jennifer Brant & Sand	raSpirit Song	
		Styres		
12:00-1:15		Lunch: GCS, Robinson Hall		
12:30-1:15	GS		iances: Re/Envisioning Indigenous/Non-Indigenous Relationships	
1:30-3:00		Shirley Williams	Traditional Teaching – Water Teachings	
	1	Carol Williams, Shannon Faulkhead,	Digital repatriation and other innovations using archives, new medi	
		Carol Payne & Wanda Nanibush	&	
	2	D'I DI Z DI OA' II	technology	
	2	Rick Fehr, Zoe Dalton & Aimee Johnson		
			and the Persistent Nature of Colonialism in Environme	
	2	Deborah Lee	Management The Indigenous Studies Portal: A Research Tool Promo	
	3	Deboran Lee	Indigenous Scholarship	
		Doug Anderson	Full Circle Cultural Learning Framework	
		William Kingfisher	ayaandagon: outdoor art installations in an anishinaabe garden	
	4	Nigel Haggan	Including Spiritual Value in Coastal Ecosystem Based Managemen	
	7	Lewis Williams	From Endangered Peoples to Endangered Worldviews: The Place	
		Lewis Williams	Indigenous Being in Restoring Ecological Health	
		Brenda Murphy & Annette Chrétien	Moving Beyond Interdisciplinarity: Academic Reflexivity in an In	
		Stonau Hunpiny ee timiowe em outen	Epistemological Research Program	
	5	Chris Paci, Brenda Macdougall, Annet	teDecolonizing Public Policy: Métis perspectives in Ontario	
		Chrétien & Jennifer St. Germain		
3:00-3:15	Aftern	oon Break: GCS Atrium-Trent		
3:15-4:15	1	Julie Kapyrka	Archaeology and Indigenous Peoples in Ontario: Potential	
			Transformative Paradigm Application	
		Andrew Hinshelwood	The Role of Private Interest in Archaeology Policy	
	2	Antonia Mills	Revitalization Through Rebirth: The Tsimshian on Comeback	
			Humans and Fish	
		Jessie King	Self-Fulfilling Prophecy: Reincarnation Belief among First Nat	
		77 1 01 1	and its Implications on Cultural Identity	
	3	Heather Shpuniarsky	Historical Consciousness and the Contemporary Relationship bety	
		T CC T 1	the Anishinaabeg and the Haudenosaunee	
	4	Jeffrey Lambe	Figurative Language and Dynamics of Knowledge and Relationship	
	4	Jean-Paul Restoule	The Role of Post-Secondary Institution Policy and Practic	
		Carana Ctannart	Aboriginal Student Success	
	5	Suzanne Stewart	Indigenous Pedagogies as Decolonizing Academic Practice	
	β	Paani Zizman	Inuit Elders on Healing Practices – Presenting on Workshop and Pa Discussions	
		Theresa Turmel	The History of Residential Schools in Canada	
4:30-5:30	GCS 11		aker — Edna Manitowabi	
7.50-5.50	UCD I	Keynote Spea	anci — Eulia Maiiluwavi	

Keynote S	eremony, Traditional Area peaker — Manulani Meyers: Aloha Is C Break: GCS Atrium-Trent Presenters	Our Intelligence
Keynote S Morning I	peaker — Manulani Meyers: Aloha Is (Break: GCS Atrium-Trent Presenters	Our Intelligence
Morning H	Break: GCS Atrium-Trent Presenters	Our Intelligence
	Presenters	
kms 1	I .	TOTAL
I	Mashinala Masan	Titles
	Ngahiraka Mason Mimi Gellman	Exploring An Indigenous Aesthetic Re-imagining the White Box: Making Space for Indigenous
	Iviimi Genman	Representation
<u> </u>	Sylvia McAdam	Rites of Access to Indigenous Laws: Cultural Teachings, First
2	Syrvia WeAdam	Nations Protocols and Methodologies
	John Phillips	From Theory to Practice: The development of a therapeutic court f
		the Innu of Labrador
3	Lynne Davis & Wiqvilba Wakas (Harvey	Homelands or Global Treasure? Negotiating First Nations -
	Humchitt)	Environmental Group Relationships - A Community Case Study
	Rick Wallace	Grass Roots Community-based Alliance Building: Critical Narrativ
		on Relationship-building and Collaboration from the Locality of
		Indigenous and non-Indigenous Activists in Canada
4	Diane Hill & Gloria Thomas	How We Come to Know and To Understand: The Oral Transmission
		of Indigenous Knowledge and it's Contemporary Applications
5	Mara Heiber	Making Connections: Finding the Common Ground among
		Indigenous People and Jewish People in Canada
	Neal McLeod	The Poetics of Cree Warfare and Diplomacy in Leonard Bloomfield
		Plains Cree Texts
6		Drumming My Way Home: A Secwepemc Perspective
	Norma Araiza	
		The Yoeme Nation And Some Characters of the Easter Celebration In Sonora, Mexico
7	Rosalie Daystar-Jones	Indigenous Ceremony and Performance: A Cultural Intersection
	Michelle LaFlamme	Theatrical Medicine: Aboriginal Performance, Ritual Commemoration
	Lunch: GCS, Robinson Hall	
GS	Book Launch (Leanne Simpson and Kiers	
GCS 114		een Knotsch, Scot Nickels, Willie Ermine, SSHRC Rep
3:15 Afternoon Break: GCS Atrium-Trent		
	Doug Williams	Traditional Teaching- Feather Teachings
1	Natasha Tassell	Incorporating Indigenous Content into Undergraduate Psychology An Aotearoa/New Zealand Perspective
	Jose Lucero, Eric Noyes & Dean James	American Indian Institute: Culture-based education
2	Celia Haig-Brown, Melissa Blimkie & Diane Vetter	An Indigenous-non-Indigenous Partnership in One Mainstr Teacher Education Program
3	Amanda Holmes & Ronnie Jane Maraole	Land, language and culture: Living the Dream
J		Rebuilding Our Language Foundation through the Next Generation
		Teaching and Learning Through Intergenerational Mentorship
1		Hunting and Gathering in the 21st Century: A Journey Through
+		Indigenous Performance
	Tanya Lukin-Linklater	indigenous i cromanee
5	Natasha Beeds	Finding a Path to Canada's Missing and Murdered Indige Women: Mapping the Landscape of a British Settler Consciousness
	Gillian Balfour	What Happens When She is Both Criminalized and Victimized: Limits of Procedural Justice for Aboriginal Women
	Carol Lynne D'Arcangelis	Indigenous/Feminist Solidarity Around Violence Against Indige
1	GS GCS 114 Afternoon	Rick Wallace Diane Hill & Gloria Thomas Mara Heiber Neal McLeod Georgina Martin Norma Araiza Rosalie Daystar-Jones Michelle LaFlamme Lunch: GCS, Robinson Hall BS Book Launch (Leanne Simpson and Kier GCS 114 Ethics Panel — Marlene Castellano, Cathl Afternoon Break: GCS Atrium-Trent Doug Williams Natasha Tassell Jose Lucero, Eric Noyes & Dean James Celia Haig-Brown, Melissa Blimkie & Diane Vetter Amanda Holmes & Bonnie Jane Maracle Callie Hill & Bonnie Jane Maracle Lorna Williams Marrie Mumford, Rosalie Daystar-Jones, Yvonne Chartrand, Norma Araiza & Tanya Lukin-Linklater Natasha Beeds Gillian Balfour

			Women: Working Across Difference Towards a Politics	
			Decolonization	
	6	Shelly Johnson	Reclaiming their places: Seven Women Chiefs of Northern BC	
		Meneno Vamuzo	Contemporary Challenges of Naga Women in Nation Building	
		Christine Sy	Sugar Bush Harvest: Tracing Anishinaabe Women's Shifting Sc Economic Well-Being from <i>bawating</i> to Sault Ste. Marie	
	7	Teresa Beaulieu	Fostering the work of Indigenous Healers and Elders: Forr Collaborative helping relationships	
		James Hudson	The Quantification of Tribal Development: A M_ori case study	
		Cathleen Knotsch	Knowledge Translation and Cultural Safety: Work on Mental	
			Wellness at Inuit Tuttarvingat of NAHO	
5:00-6:00	1	Daniel Morley Johnson	How Should I Heed These?: Notes Toward Anarcha-Indigo	
			Literary Criticism	
		Kelly Harrison	Howling at the Moon: Werewolves, Vampires and Aboriginalit	
			Meyer's the Twilight saga	
	2	Arshi Dewan Roy	The Challenges of maintaining indigenous language among the	
			Chakma diaspora community in Canada	
		Vera Ogiorumua	What is in your name: The Significance of Name and Naming	
			Symbolic feature of African Indigenous Culture, and its Implica	
			on our Children in the Western World	
	3	*	Atlantic Aboriginal Nurses: Acknowledging Past, Reconciling	
		Vukic & Veronica Matthews	Present to Redress the Future	
	4	Janet Conway	Is the Global Justice Movement Colonial: A Study of Indiger	
			Positionality at the World Social Forum	
		Damien Lee	ENGOs and Indian Bands: Reinforcing the Oppression Framework	
8:00-10:00		Nozhem Performance/Strawberry Moo	n Festival	

DAY 5 - SUNDAY, JUNE 20 TH		
6:30-7:30	Sunrise Ceremony, Traditional Area	
9:30-1:30 Breakfast: Looking Forward Panel		
1:30	Closing	