



Parallel Session (2016)

Including Indigenous Expectations in impact-ambitions



Parallel Session

Including Indigenous Expectations in impact-ambitions

Ken Paul (Chair)

Lead Fisheries Negotiator and Fisheries Research

Coordinator, Wolastoqey Nation, Canada



Parallel Session

Including Indigenous Expectations in impact-ambitions

Kelly Ulcuango

Researcher & Director, Amawtay Wasi

University, Ecuador



Amawtay Wasi
UNIVERSIDAD INTERCULTURAL
DE LAS NACIONALIDADES
Y PUEBLOS INDÍGENAS



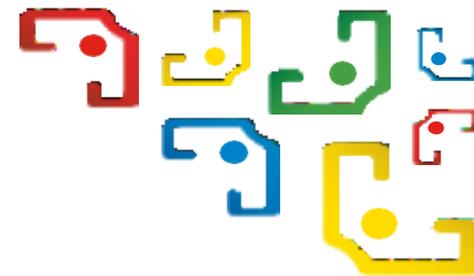
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Including indigenous expectations in impact-ambitions

Dr. Kelly Ulcuango
Researcher & Director Agroecology Programme
Amawtay Wasi University, Ecuador

Societal Impact of Science Conference
Halifax, 2023



Intercultural University of Nationalities and Indigenous Peoples Amawtay Wasi - ECUADOR



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Interaction of Inherited Microbiota from Cover Crops with Cash Crops

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Increasing Legume Input through Interseeding Cover Crops: Soil and Crop Response as Affected by Tillage System

by  Nelly Centurión¹   Ignacio Mariscal-Sancho¹   Mariela Navas^{1,2}   José Luis Gabriel^{3,4}   Kelly Ulcuango^{1,3}   Miguel Ángel Ibañez⁶   Ana Moliner¹  and  Chiquinquirá Hontoria^{1,*} 

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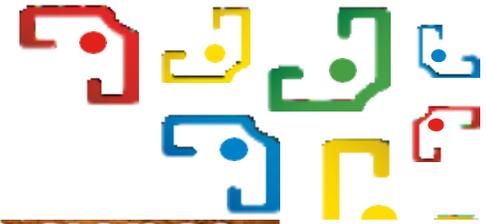
Emanuele Radicetti



Roberto Mancinelli



Ghulam Haider



SPECIAL ISSUE ARTICLE

The distinct responses of bacteria and fungi in different-sized soil aggregates under different management practices

Mariela Navas, Diana Martín-Lammerding, Chiquinquirá Hontoria,  Kelly Ulcuango, Ignacio Mariscal-Sancho First published: 20 May 2020 | <https://doi.org/10.1111/ejss.12997> | Citations: 5

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Soil Microbial Response to Cover Crop Termination Methods under Two Water Levels

by  Nelly Centurión   Kelly Ulcuango²   Mariela Navas³   Ignacio Mariscal-Sancho¹   Miguel A. Ibañez⁴   Ana Moliner¹  and  Chiquinquirá Hontoria^{1,*} 

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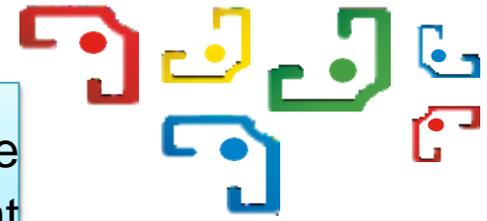
⁴ Departamento de Economía, Estadística y Gestión de Empresas, Universidad Politécnica de Madrid, Av. Puerta de Hierro 2, 28040 Madrid, Spain

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Agronomy **2022**, *12*(12), 3002; <https://doi.org/10.3390/agronomy12123002>



Including indigenous expectations in impact-ambitions



The impact of science on the development of society must consider the cultural nature, identity and worldview of peoples and nationalities that have been discriminated against since colonization.

Ancestral knowledges have been used mostly as something to be studied for publications with authors not belonging to indigenous peoples and nationalities.



The Journal of Development Studies
Volume 34, 1997 - Issue 2

264 43 3
Views, CrossRef citations to date, Altmetric

Original Articles

Poverty and prosperity among migrant settlers in the Amazon rainforest frontier of Ecuador

Laura Murphy, Richard Bilsborrow & Francisco Pichón

Pages 29-60 | Accepted 01 Mar 1997 | Published online: 25 Feb 2007

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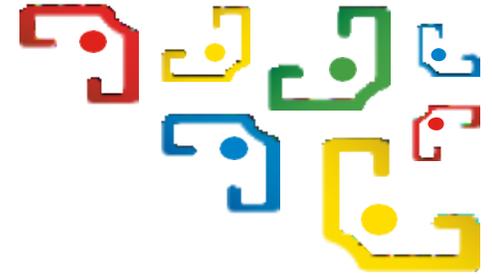
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What does the indigenous community receive?



CONVENIO 169 DE LA OIT 1989

United Nations
DECLARATION
on the **RIGHTS**
of **INDIGENOUS**
PEOPLES





Including indigenous expectations in impact-ambitions



They demanded education in Kichwa as the original language and founded the first Kichwa-Spanish bilingual schools in Ecuador because they saw how the indigenous people were always deceived for their ignorance and illiteracy.

Dolores Cacuango



Tránsito Amaguaña



Neptalí Ulcuango Ayala





Amawtay Wasi University

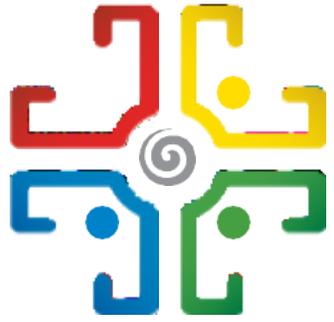




"Strengthening food systems of the Indigenous Nations of Ecuador for resilience and change"

Promoting strengthened food systems for indigenous peoples in Ecuador, through the valorization of ancestral indigenous models and the adoption of alternatives for the production, commercialization and consumption of agricultural products that contribute to sustainability, healthy eating and food sovereignty, with a focus agroecology and gender equity

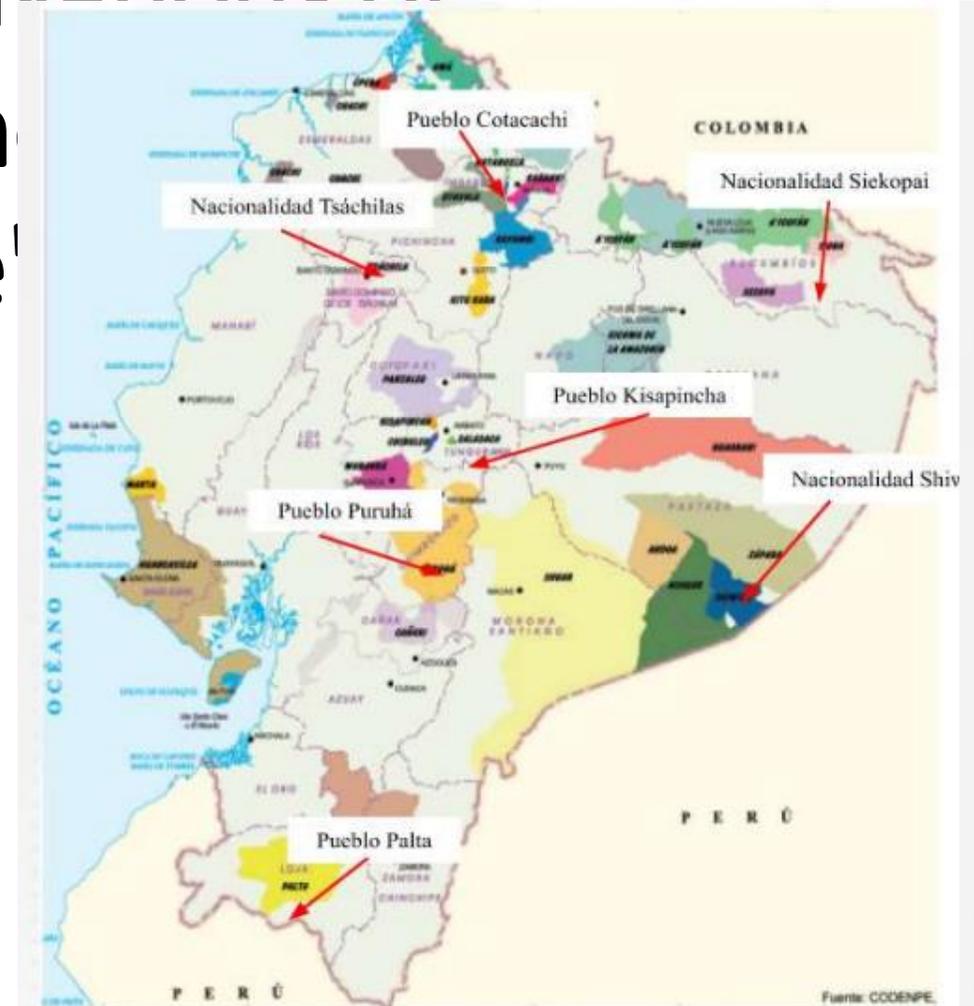


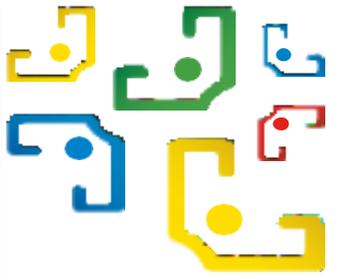
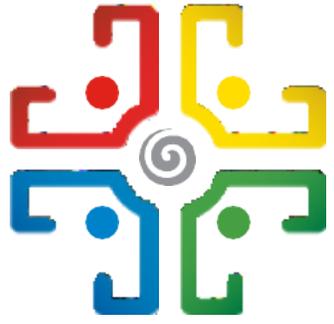


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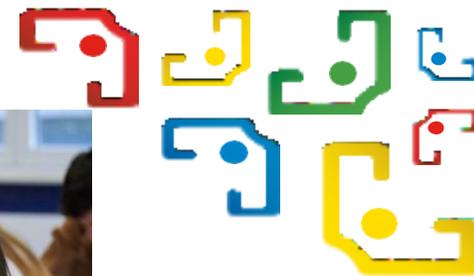




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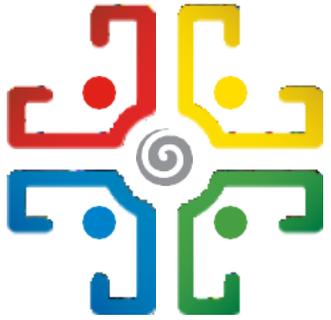
Milpa





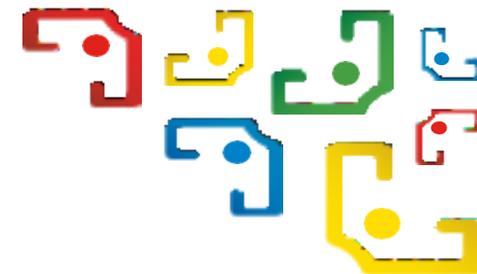
In Ecuador, for the year 2020, only 9.13% of the total number of students enrolled in a university belonged to an ethnic group including Afro-descendants and indigenous people.





How can we start?

- **Fostering equitable partnerships in research**, where indigenous and local partners are part of the core research team
 - **Collect ethnic data about authors publishing articles in indexed journals**: situational diagnosis of the percentage of publications coming from indigenous peoples and nationalities and for the orientation of public policies that guarantee the right to publish in ancestral languages in high impact journals
 - **Ensure knowledge guardians are duly recognized in publications** and that communities that jointly maintain traditional knowledge are duly acknowledged
 - **Support the call for double blinded peer review mechanisms where the identity of the author is not known to the reviewer** to ensure there is no unconscious bias towards authors from recognized, northern universities so that this peer review system becomes more widely used
-



“Just as the sun shines equally on everyone, men or women, so education must shine on everyone, whether rich or poor, masters or pawns”



Amawtay Wasi
UNIVERSIDAD INTERCULTURAL
DE LAS NACIONALIDADES
Y PUEBLOS INDIGENAS



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Parallel Session

Including Indigenous Expectations in impact-ambitions

Margot Latimer

Research Chair, Indigenous Health
Nursing, Dalhousie University, Canada

& Julie Francis

Indigenous Health Chair, Cape Breton
University, Canada



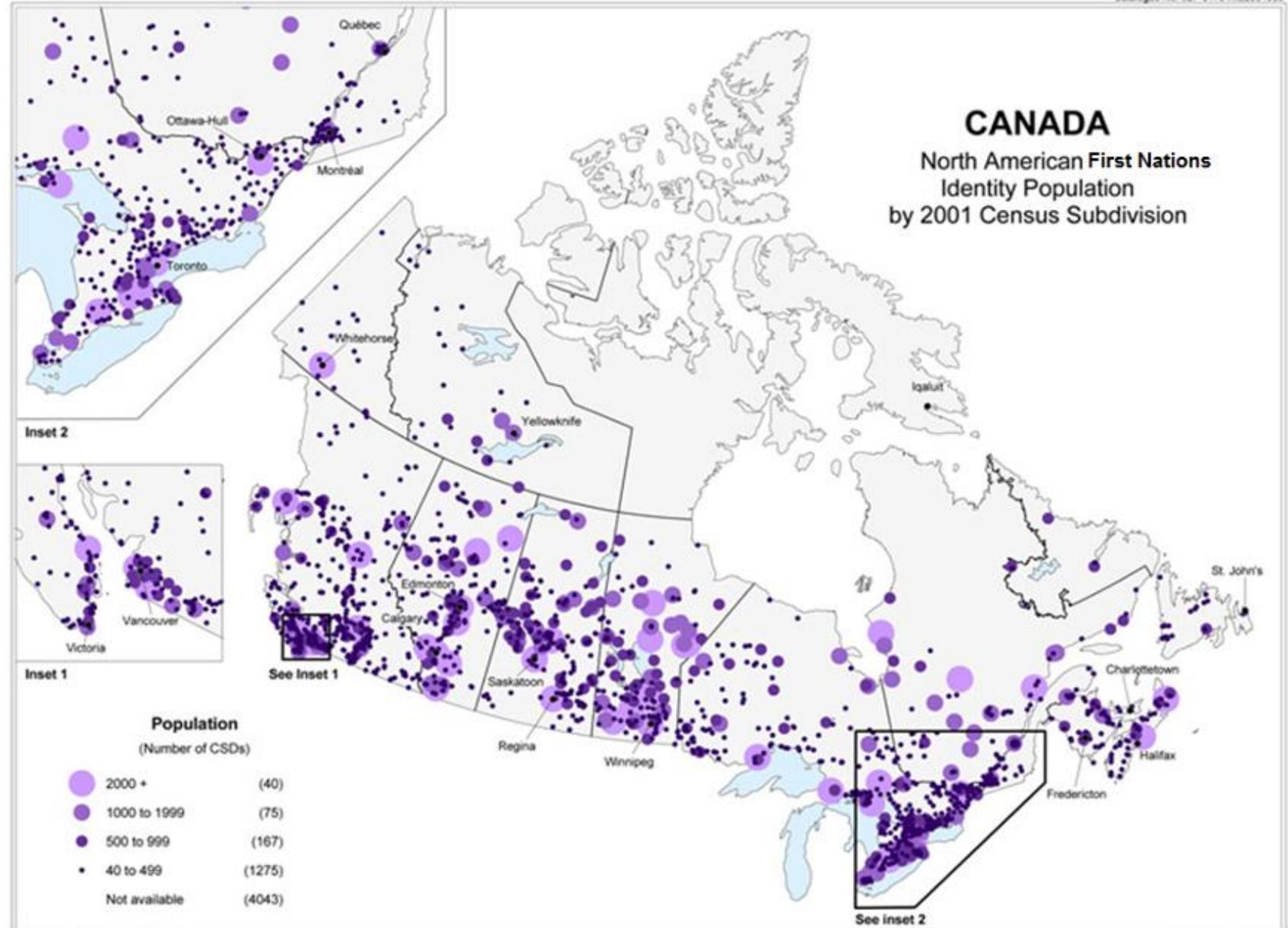
INCLUDING MI'KMAQ
& INDIGENOUS
EXPECTATIONS IN IMPACT

JULIE FRANCIS, ESKASONI FIRST NATION
RN, L'NU HEALTH CHAIR, CAPE BRETON
UNIVERSITY

MARGOT LATIMER, RN., PHD
DALHOUSIE UNIVERSITY

INDIGENOUS PEOPLE

First Nations
Metis
Inuit



Nova Scotia is located in Mi'kma'ki, the ancestral, traditional and unceded territory of the Mi'kmaq.



ACHH
Aboriginal Children's Hurt
& Healing Initiative



The ACHH Initiative is a community-based team working with communities, clinicians, government and universities to share knowledge that will improve Indigenous child and youth wellness.

CONFERENCE
GOAL

Most effective approaches for implementing policies, strategies, methods and tools to optimise societal impact of science and evaluate success.

RESEARCH & KNOWLEDGE CONTEXT



- First Nations, Inuit and Métis communities have unique histories, cultures and traditions
- Share core values such as reciprocity – give something back
- Basis for relationships that can benefit both Indigenous and research communities.
- Research has been defined and carried out primarily by non-Indigenous researchers.
- Approaches used have not generally reflected Indigenous world views, and not necessarily benefited Indigenous peoples or communities.
- Apprehension & mistrust

ENGAGEMENT FOR IMPACT



Respectful
Engagement and
Development of
Relationships influences
the degree of Impact of
Science on Society



Research should be relevant to community needs and priorities. The research should benefit the participating community (e.g., training, local hiring, recognition of contributors, return of results), as well as extend the boundaries of knowledge.

Application

A research project should be relevant to community priorities and have the potential to produce valued outcomes from the perspective of the community and its members

Two-Eyed Seeing Approach



Two-Eyed Seeing is the merging of two 'ways of knowing' – Indigenous and Western – to view and overcome challenges and barriers. This approach takes the best from both worldviews, acknowledging that neither approach is superior.

(Established by Elders Albert & Murdena Marshall)

<https://achh.ca/about-us/our-approach-two-eyed-seeing/>

(Iwama, et al., 2009)



Community Engagement is all about relationship building

- **MUST answer questions:**
- Is it a priority to the community?
- How will it benefit the community?

"NAVIGATING
KNOWLEDGE ABOUT
PROTOCOLS AND
CONDUCTING
INDIGENOUS HEALTH
RESEARCH"

<https://vimeo.com/472699187>





COMMUNITIES TAKE THE LEAD



8 CONSIDERATIONS FOR COMMUNITY RESEARCH

MI'KMAQ & INDIGENOUS SOCIETAL CHALLENGE



The need for more Mi'kmaq & Indigenous Nurses

Community identified Benefit

- Low numbers of Mi'kmaq Nurses
- Low access to professional programs
- Feeling unwelcome & Racialized
- Financial barriers
- Geography barriers
- TRC Call to Action

Knowledge Generation

- Partnered with Community Health Leaders
- L'nu Data project
- Gathered Application & Admission Data

Solution

- L'nu Office of Nursing
- Indigenous Nurse Specialists in SoN
- Infrastructure & Funding Support
- OCAP Principled Database

INDIGENOUS SOCIETAL CHALLENGE

Anti-Indigenous Racism in Healthcare Environments



ACHH
Aboriginal Children's Hurt
& Healing Initiative

Community
identified

Benefit
High numbers of incidents
Low trust in health system
Avoidance of health system
Health impacts

Knowledge
Generation

Community engagement
Community experiences
"What do health providers need to
know?"
Anti-Racism Cultural Safety Course
Development & testing

Partial Solution

Mandatory offering to all first year
Medicine, Nursing, Dentistry,
Pharmacy students and health
providers.
TRC Call to Action #24

MI'KMAQ SOCIAL CHALLENGE



ACHH
Aboriginal Children's Hurt
& Healing Initiative

Low access Pediatric Ear, Nose and Throat Specialist in community

Community identified Benefit

High rates of chronic ear infections
in Mi'kmaq children and youth
High rates of hearing & speech
language conditions

Health and academic impacts

Knowledge Generation

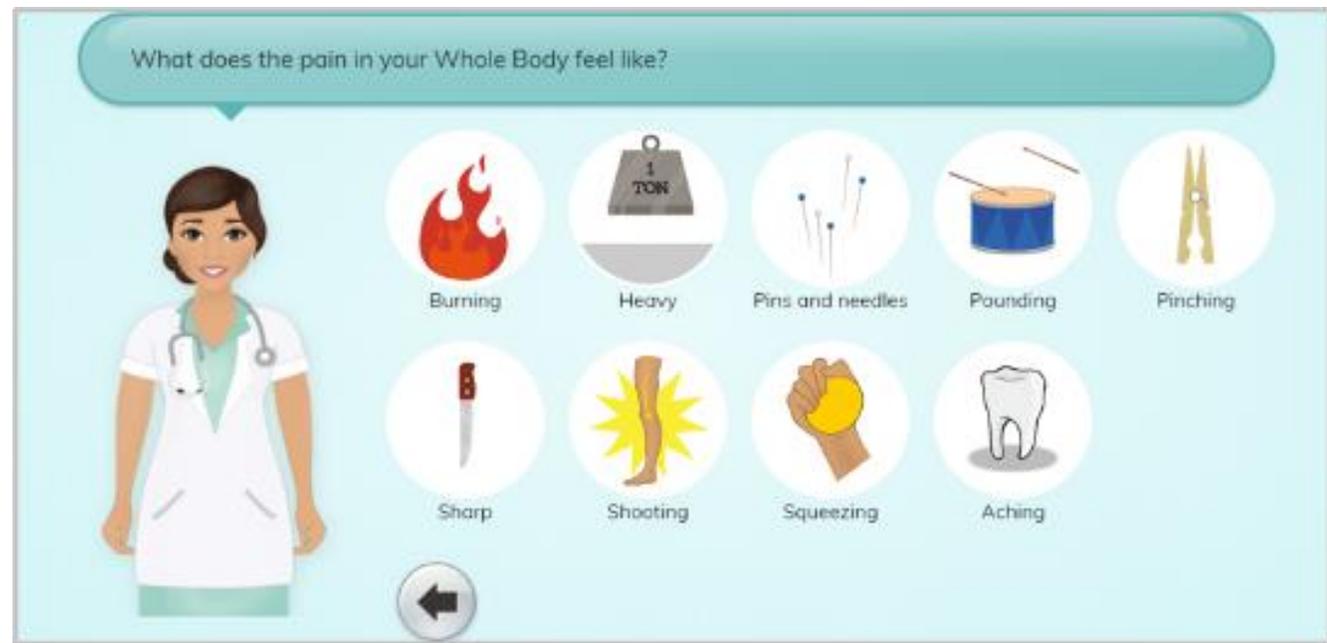
Community engagement
Community Ethics
Healthcare utilization data
Relationship Building
Community Health Board & Centre
Engagement

Solution

Pediatric Tertiary Centre
Mi'kmaq Community designed &
evaluated Pediatric ENT Clinic
·
TRC Call to Action
National Pain Task Force
Recommendations

MI'KMAQ SOCIAL CHALLENGE

Youth physical and mental health pain



Community identified Benefit

High rates of undetected pain
Mi'kmaq youth
Discrepancies with pain assessment

Health and academic impacts

Knowledge Generation

Community engagement
Community Ethics
Relationship Building
Kids Hurt App Development, Testing

Solution

Kids Hurt App Health Setting
Implementation
·
TRC Call to Action
National Pain Task Force
Recommendations

<https://vimeo.com/441026142>

COMMUNITY-LED, COMMUNITY
OWNED

STRONG RELATIONSHIPS BUILT ON INDIGENOUS
WORLDVIEW INCREASES THE LIKELIHOOD OF
MEANINGFUL SOCIETAL IMPACT FOR INDIGENOUS
PEOPLE



Wela'liog



**DALHOUSIE
UNIVERSITY**

Centre for Transformative
Nursing and Health Research





Recommendation

“Nothing about us without us! & recognize the collective property of ancestral knowledge in academic journals and also publish in native languages”