#### Indigenous Peoples' Health Institutes Advisory Board Meeting Edmonton, AB; 19 June 2017

#### Cheryl Bartlett, CM, PhD

**Professor Emerita** 

- retired Professor of Biology
- former Tier 1 Canada Research Chair in Integrative Science
   Cape Breton University
   Sydney, NS
   Traditional Territory of Mi'kma'ki

meeting hosted by: Institute of Circulatory and Respiratory Health Institute of Cancer Research



Indigenous Peoples' Health Institutes Advisory Board Meeting Edmonton, AB; 19 June 2017

**Cheryl Bartlett, CM, PhD** settler / newcomer lineage grew up in Blackfoot Territory

Albert Marshall, Elder, LLD Mi'kmaq Nation

Murdena Marshall, Elder, LLD Mi'kmag Nation



#### **Presentation Outline**

- 1. Introduction and Thanks
- 2. Core Objectives / Guiding Questions
- 3. TES Background
  - a) Elder Albert's Guiding Principle
  - b) two national documents
  - c) misuse
  - d) Heavy Sledge work ... *i'l'oqaptmu'k*
- 4. TES Essentials and Challenges
  - a) Co-Learning ... *l'l'oqaptmu'k*
  - b) Knowledge Scrutinization
  - c) Knowledge Validation
  - d) Knowledge Gardening ... Integrative Science
- 5. Conclusion

### **Discussion with Guiding Questions**

#### **Presentation Outline**

Whenever and as much as possible, try to teach or present using visuals. Traditionally, we Mi'kmaq were visual thinkers and visual learners ... we need to re-awaken these skills to help us re-connect with our traditional ways, with our natural world.

Discussion with Guiding Questions



### with sincere thanks to many



NOVA SCOTIA

UNDATIO

**IWK Health Centre** 

Foundation

Health

Canada Research Chairs Chaires de recherche du Canada

Conseil de recherches en

sciences humaines du Canada

Social Sciences and Humanities Research Council of Canada

Elders, Colleagues, CRC Team, Friends, Students, Youth



Mi'kmaq College Institute 🎾 Mi'kmaq Espi Kina'matno'kuom

en santé du Canada







Eskasoni First Nation Detachment Royal Canadian Gendarmerie royale Mounted Police du Canada

Mermaid Theatre of Nova Scotia

kmawey

Membertou Elementary

Canada

Canada

#### and special thanks to TES colleagues



### **Core Objectives (for presentation)**

- 1. Understand that Two-Eyed Seeing is a guiding principle, not a mechanism.
- Understand that Two-Eyed Seeing requires ongoing co-learning which in turn encompasses at least three additional key essentials, each of which brings challenges.
- 3. Know that Two-Eyed Seeing is, unfortunately, being co-opted, trivialized, or romanticized by some people and thus it is desirable that means be found to redress or preclude misuse in new research.

### **Guiding Questions (for later discussion)**

- 1. What benefits does Two-Eyed Seeing bring to a bio-medical research paradigm? (Note: this is different than asking the same with respect to a bio-medically underpinned health care system.)
- 2. What pros and cons (and for whom) would be entailed in requiring that research be via co-learning and that it embed nation-appropriate and/or community-based understandings for *i'l'oqaptmu'k?* Note error in Meeting Materials: "nation" not "national".
- 3. How might CIHR encourage research that supports reawakening to the traditional understanding that healing comes from within? E.g., consider the different messages conveyed by research policies or calls that used "guiding principle, grow, or nurture" rather than "framework, build, or measure".

#### ... starts in Mi'kma'ki over 2 decades ago



#### **Indigenous Traditional Territories**

screen capture from http://native-land.ca/

**Two-Eyed Seeing** Core Objective #1 a GUIDING PRINCIPLE

- brought forward by Mi'kmaq Elder Albert Marshall
   → Mi'kmaq = *Etuaptmumk*
  - → 1990s-2000s for Integrative Science (brief info later)
- subsequently adopted / adapted by other inter- or cross-cultural collaborations wherein the overall effort is towards "the working together" of Indigenous and mainstream knowledges and ways of knowing → 2011 ... Dr. Malcolm King, CIHR-IAPH

### **Elder Albert's words:**

LEARN ... to see from one eye with the best in Indigenous knowledges and ways of knowing, and from the other eye with the best in Western (or mainstream) knowledges and ways of knowing ... and LEARN to use

both these eyes together for the benefit of all.





#### icon encouraged by Elder Albert Marshall

TES emerged in the arena of **<u>natural science education</u>** at the PSE level ... we wanted those involved to have a clear understanding that the mainstream ("Western") natural sciences have an overall worldview / paradigm / culture that differs from the worldviews / paradigms / cultures of Indigenous peoples.



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TES emerged in the arena of **natural science education** at the PSE level ... we wanted those involved to have a clear understanding that the mainstream ("Western") natural sciences have an overall worldview / paradigm / culture that differs from the worldviews / paradigms / cultures of Indigenous peoples.



We further wanted to emphasize that there is common ground between the worldviews (as well as differences).



culture's worldview as a whole knowledge system.

### a GUIDING PRINCIPLE



### **GUIDING WISDOM**

#### Go into a forest, you see the birch, maple, pine. Look underground and all those trees are holding hands. We as people must do the same.

(words of late Mi'kmaq Chief, Spiritual Elder, and Healer Charlie Labrador)



### a GUIDING PRINCIPLE

#### for our minds, souls, spirits



### a GUIDING PRINCIPLE

#### for our minds, souls, spirits

- requires ongoing commitment to relationships
- requires ongoing personal efforts to understand positionality and to act upon responsibilities for reciprocities and accountabilities
- requires ongoing consideration to key essentials (outlined later)



#### **NOT A MECHANISM!!!**



### a GUIDING PRINCIPLE Two-Eyed Seeing

2017: from Mi'kma'ki across Canada ... plus international
in two key national documents plus many research and other projects (most research projects thanks to CIHR-IAPH or broader CIHR funding)



#### CIHR-Institute of Aboriginal Peoples' Health: Strategic Plan 2014-2018



### **2017 report to Government of Canada**

This report sets out a multi-year agenda that, if implemented, could transform Canadian research capacity and have enormous long-term impacts across the nation.

> C. David Naylor, Professor of Medicine, University of Toronto (Chair)

> > SCIENCE REVIEW

**Final Report** 

**INVESTING IN** 

CANADA'S FUTURE

CANADA'S FUNDAMENTAL



Dr. David Naylor (Chair), former president of the University of Toronto



http://www.sciencereview.ca/eic/site/059.nsf/eng/home

Strengthening the Foundations of Canadian Research

some individuals misuse TES ...

merely co-opting it or treating it as a mechanism, thereby neglecting relationships, responsibilities, commitments, accountabilities and more Core Objective #3 Core Objective #3 beware #THE DOWNSIDE



#### SOMETIMES IT'S LIKE A HEAVY SLEDGE that we are trying to move – this sledge represents our passions for ensuring ... • ecological integrity of *Mawisikamukawey*



#### SOMETIMES IT'S LIKE A HEAVY SLEDGE that we are trying to move – this sledge represents our passions for ensuring ... • well-being of our communities

transmission of our culture and knowledge ...



#### SOMETIMES IT'S LIKE A HEAVY SLEDGE that we are trying to move – this sledge represents our passions for ensuring ... • well-being of our communities

transmission of our culture and knowledge ...

We, the Elders, are dragging that sledge with all our might, and we need others to help us by pushing as hard as you can on the rear of the sledge. But, it is we, the Elders, who will determine where it goes.

words of Elder Albert Marshall, Mi'kmaq Nation

#### OTHER TIMES THAT HEAVY SLEDGE represents a passion we Elders hold that western science can help address.

Then we, the Elders, will help you with that sledge ... you drag, we push ... while we all also constantly exchange understandings about where it is going ... and learn to abide by i'l'oqaptmu'k meaning "to revisit to renew, to maintain movement in the

direction Spirit intended".

words of Elder Albert Marshall, Mi'kmaq Nation

# for Guiding Question #2 in Discussion i'l'oqaptmu'k

#### *i'l'oqaptmu'k* meaning "to revisit to renew, to maintain movement in the direction Spirit intended".

words of Elder Albert Marshall, Mi'kmaq Nation

#### "Heavy Sledge" work requires Co-Learning

plus three more ... making FOUR key essentials. Although these bring profound challenges, they also help guard against the risk that Two-Eyed Seeing will be co-opted, trivialized, and/or romanticized.

Core Objective #2

**4 KEY ESSENTIALS** 

ork for "THE UPSIDE"

Core Objective #3

embed four key essentials

- **1. Co-Learning**
- 2. Knowledge Scrutinization
- **3. Knowledge** Core Objective #2 Validation **4 KEY ESSENTIALS**
- 4 Core Objective #3 Gardening work for "THE UPSIDE"

embed four key essentials

categories

- 1. Co-Learning ..... learning together
- 2. Knowledge (with and from each other)
  - Scrutinization ... to see "the best"
- **3. Knowledge** 
  - Validation ..... by peers
- **4. Knowledge** Gardening
  - **Gardening** ...... walking our talk (grounded applications)




# **1. Co-Learning**

#### relationship growth

→ nurturing collective, relational capacities to understand and to collaborate

→ learning together ... with and from each other

• We, together ... ongoing

Why? new hope for better relationships congruent with TRC 94 calls to action plus **UN Declaration** on the **Rights of** Indigenous **Peoples** adopted by Canada

words of Elder Albert Marshall

# **1. Co-Learning**

- How do we re-awaken Spirit?
- How do we create opportunities for our spirits to start collaborating?
- How do we move to working collectively, rather than as individuals?

WE MUST ALSO CONSIDER: colonialism, racism, unequal power dynamics

Why? new hope for better relationships congruent with TRC 94 calls to action plus **UN Declaration** on the **Rights of** Indigenous **Peoples** adopted by Canada

words of Elder Albert Marshall

# **1. Co-Learning**

## • How do we invoke the Spirit of Co-Learning at universities?

• Traditionally, we would not have to say "co-learning" because that is how the relationship naturally functioned. "Nurturing", on the other hand, is done in a mindful way ... anything that is alive has to be nurtured with love and compassion.

 Co-Learning does not need "evaluation"
 ... rather we need to understand that for Guiding Question #2 in Discussion
 the essence of Co-Learning is *i'l'oqaptmu'k*. *i'l'oqaptmu'k* words of academia

# 1. Co-Learning ... ??



NEED: System-wide understandings, encouragement and support for trans-disciplinary, inter-cultural, and community-based work ... including generous TIME to grow meaningful relationships. words of academia

# 1. Co-Learning ... ??



NEED: system-wide understandings, encouragement and support for trans-disciplinary, inter-cultural, and community-based work ... including generous TIME to grow meaningful relationships.

# **2. Knowledge Scrutinization** domains, ways, substance $\rightarrow$ nurturing our capacities to "see the best" or "see the strengths" in each and different knowledges and ways of knowing ... and to use them for the benefit of all

• We, together ... ongoing

Why? **Otherwise, there** can be profound barriers of PESSIMISM to FEAR that humans have difficulty crossing, when faced with something new, unknown or different.

# 2. Knowledge Scrutinization

- How can we guard against negativism in this scrutiny?
- How can we help critics to understand and accept, rather than fear?

WE MUST ALSO CONSIDER: colonialism, racism, unequal power dynamics



Otherwise, there can be profound barriers of PESSIMISM to FEAR

that humans have difficulty crossing, when faced with something new, unknown or different.

# 2. Knowledge Scrutinization

# example "Opinion Piece" THE GLOBE AND MAIL\*

#### 21 February 2014

#### about then pending (later cancelled) federal legislation

# **First Nations Control of First Nations Education**

# 2. Knowledge Scrutinization

# example "Opinion Piece" THE GLOBE AND MAIL\*

21 February 2014

#### **Columnist Jeffrey Simpson's words:**

"Money alone cannot fix Aboriginal education" Opinion Piece re *First Nations Control of First Nations Education Act* 

"... the big loser will be students, whose knowledge of basic science, math and other subjects will be so infused with cultural appropriateness by these theorists as to handicap them, rather than assist them, in wider Canadian society."

https://www.theglobeandmail.com/opinion/aboriginal-education-needs-money-and-more/article17008070/

#### **Elder Albert Marshall's words:**

- We need to be guided by Two-Eyed Seeing.
- We need to embark on a Co-Learning Journey in which our two paradigms will be put on the table to be scrutinized.
- We need to honestly be able to say that the essence, the spirit of our two ways, has been respected as we work to balance the energies of those ways.

## **Columnist Jeffrey Simpson's words:**

"Money alone cannot fix Aboriginal education" Opinion Piece re First Nations Control of First Nations Education Act

"... the big loser will be students, whose knowledge of basic science, math and other subjects will be so infused with cultural appropriateness by these theorists as to handicap them, rather than assist them, in wider Canadian society."

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## KNOWLEDGE SYSTEMS WHOLE SYSTEMS

Two-Eyed Seeing is a powerful reminder: each eye is a COMPLETE WHOLE.



(words of Elder Albert Marshall)



Upon reading Wilson's book and then discussing with Elder Murdena, **Elder Albert brought forward key** conceptual understandings within Mi'kmaq Traditional Knowledge, as they are expressed in the language. He suggests all First Nations' languages contain similar understandings because of the importance of the relationship between the storyteller and the one receiving the knowledge.



# **MI'KMAQ KNOWLEDGE**

 nature of thinking or thought: wsitqamu'kewe'l ankitasuaqnn (worldly thoughts or knowledge gained throughout your life) ≈ epistemology

 worth of reality; real world; real life: wsitqamu'kewe'l penawsinn ≈ ontology

 how knowledge is gained: ta'n tel mnsnmen kjiji'taqn ≈ methodology

worth of knowledge that will be used:
 kjijitaqn ta'n tel wie'wasitew ≈ axiology

### italicized text = Albert's thoughts



#### **WESTERN KNOWLEDGE**

Western science can tell us what happens when people are physically starved, but it can't tell us what happens to people when they are spiritually starved. Western knowledge has not answered this yet.







# **Knowledge System Models**





#### as storytellers, as knowledge agents ... we have responsibilities to our knowledges





# **3. Knowledge Validation ... by peers Why?**• MISTAKES HAPPEN • ONE PERSON CAN'T KNOW IT ALL • FRAVD

## authenticity

# accuracy

#### language as deemed appropriate

 $\rightarrow$  validation via acceptable peer review processes

- Indigenous Knowledge Holders
  - Researchers & Scholars

# **3. Knowledge Validation ... by peers Why?**• MISTAKES HAPPEN • ONE PERSON CAN'T KNOW IT ALL • FRAVD

# Thus, the need for *peer review* within all knowledge systems.

 How can we help Elders to ensure that the validation they insist upon, is in place?
 → Elder Albert: "accuracy, authenticity, sacredness"
 How does "validation" fit within oral knowledge transmission?

# **3. Knowledge Validation** ... by peers

#### **Elders' 8 Recommendations**

http://www.apcfnc.ca/en/resources/HonouringTraditionalKnowledgeFinal.pdf

#### APCFNC Elders Project: HONOURING TRADITIONAL KNOWLEDGE



#### ELDERS RECOMMENDATIONS

- The following is the list of reconstructed drives from the APCFNE Blace Project Humaning The Strengt Knowledge. It is no initial list concenting these Blace would list to be searched when during To Different Directedge. Reading and automobilitying that the of presentant strengtherm of numeric black on the Maniphul communities.
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- 9 Testitimal Recordedge checkly is economicate all aspects of Alteriginal community life, includ second is development, fishering load B, and A, and emproved, and education, etc.
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- Elsers charid be towards in developing and approximg advantional controlstores token in Traditional Knowledge for Historical community schedu and point which and point retinuitindence in the Alastic region.
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- Post secondary institutions classify to compiled to easily guildrate from the Bibles Council placelized above in recommand plans #10 to develop appropriate contechnian televal in Technical Recorded on for all your pair assessmenty programming
- Tack divelation community mode to an entropy the use of "tachtime if packing, which are produce of "Building Alcondedge. This would an entropy recomp parameters in hard data and requestioned produce scale and started local law colored and particular particular in starting, and performation to intaking with faking. Find galaxing, seekings using a start, our characters.

To show the complete project, go to http://www.spilec.co/withcomment/HammingToutition/Hamiledge/Incid.pdf



#### Academics and Researchers



#### another example strategy to support Elder engagement: **PEPSITE'TIKOW**

(Don't be Disrespectful) under development with Mi'kmaw Kina'matnewey

# 4. Knowledge Gardening Why?

We need to grow our understandings so our different knowledges can be respected as we co-learn how to have them "work as one".

We need to "Walk our Talk" ... abiding by and with interests and needs of local communities and protocols

grounded co-learning, mentorship, research
 → "walking our talk" via "actionable projects"
 ... co-learning and research with and by communities
 Community Members & Organizations
 Researchers and Students

# 4. Knowledge Gardening Why?

We need to grow our understandings so our different knowledges can be respected as we co-learn how to have them "work as one".

We need to "Walk our Talk" ... abiding by and with interests and needs of local communities and protocols

How can we create opportunities to grow, together ... and help each other?
How can we strive to make different knowledges "work as one"?

# 4. Knowledge Gardening Why?

We need to grow our understandings so our different knowledges can be respected as we co-learn how to have them "work as one".

We need to "Walk our Talk" ... abiding by and with interests and needs of local communities and protocols

• How can we re-awaken the understanding that healing comes from within?

# retrospective 4. Knowledge Gardening: A example

# **Integrative Science**

# emerged in EDUCATIONAL ARENA

CBU Faculty, Educator, Elder, Spiritual Leader, Fluent Speaker of Mi'kmaq, Grand-daughter of Grand Chief

#### grown in RESEARCH ARENA

CBU Faculty, Educator, Biologist, Tier 1 Canada Research Chair in Integrative Science

## late 1980s – late 1990s both on faculty



# Murdena, why no Mi'kmaq students in science?

Cheryl, enrich how you teach science!! Then, more Mi'kmaq students might choose to study science.

innovative, post-secondary science education program in 4 year degree, 1999-2010

PREMISE: Acquisition of scientific knowledge is essential to human survival. It is a practical engagement with the real world and the scientific pursuit of knowledge must, therefore, be as old as the consciousness of our human species.

# **INTEGRATIVE SCIENCE** emphasized:

- the natural world and our human participation within it,
- cultural inclusivity, and
- our roles, including responsibilities, as agents ... indeed, as storytellers ... in our knowledge systems

 $\star$ 

# Indigenous

Western

"bringing our knowledges together"

#### **NOT MERGED ... rather:** COMMON GROUND recognized DIFFERENCES respected

Indigenous

Western

"bringing our knowledges together"

vision congruent with First Nations Holistic Lifelong Learning Model (Appendix 1)



The foundational basis for any relationship is an exchange of stories. (words of Elder Albert Marshall)

#### as storytellers, as knowledge agents ... we have responsibilities

- respect
- relationship
- reverence
- reciprocity
- ritual (ceremony)
- repetition
- responsibility

#### **First Nations**

- question asking
- hypotheses
  - (making & testing)
- data collection
- data analysis
- model & theory construction

Western


## my own research in the staircase pattern







... and I am not in this story

patterns taken apart to gain understanding ... re-assembled within explanatory professional publications









#### **KNOWLEDGE** lives in **STORIES**

The land is alive with our stories. Place Emergence Participation

Moose Harvest Mi'kmaq Youth Camp

photos by Clifford Paul, Membertou FN

#### **KNOWLEDGE** lives in **STORIES**

The sky is alive with our stories. Place Emergence Participation

# THE UNIVERSE

# INTERNATIONAL YEAR OF ASTRONOMY 2009

# TATAPN (North Star)

## haq Traditional Night Sky Story: and the Seven Bird Hunters

## Mi'kmaq science stories: patterns woven within patterns

CRC Team: Sana Kavanagh, Kristy Read, Nadine Lefort, Prune Harris

#### Elder Murdena Marshall Eskasoni FN

Elder Lillian Marshall Potlotek FN



THE UNIVERSE

Mi'kmaq Traditional Night Sky Story: Muin and the Seven Bird Hunters ("oral calendar")

### Mi'kmaq science stories: patterns woven within patterns



### Mi'kmaq science stories: patterns woven within patterns



**Knowledge** is spirit. It is a gift, passed on through many people. As Elders, we must pass it on.

> words of Elder Albert Marshall



Knowledge is spirit. It is a gift, passed on through many people. As Elders, we must pass it on.

> words of Elder Albert Marshall



# **Stories**

#### FROM ELDER ALBERT MARSHALL:

Traditionally, nothing was taught as black and white. Everything was story ... where you have the responsibility to listen and reflect. This is a much more profound way of learning because you have the



opportunity for relationship with the knowledge.

I must bring <u>relationships</u> into my life. If a sense of <u>relationship</u> with the knowledge is not identified, then it becomes a duty and you memorize to appease someone. The understandings have not been assimilated; the head and heart have not been connected.

#### Knowledge is alive, and thus both physical and spiritual. KNOWLEDGE lives in STORIES

# **Stories**

## FROM LESLIE MARMON SILKO:

I will tell you something about stories ... They aren't just entertainment. Don't be fooled. They are all we have, you see, all we have to fight off illness and death.



# You don't have anything if you don't have the stories.

in: Ceremony (1997) by: Leslie Marmon Silko ...
 STORYTELLER with mixed ancestry,
 by her own description: Laguna Pueblo, Mexican, and white

#### Knowledge is alive, and thus both physical and spiritual. KNOWLEDGE lives in STORIES

# **Stories**

### FROM C.F. BLACK and J. BORROWS:



'I want you to remember only this one thing,' said the Badger. 'If stories come to you, care for them. And learn to give them anywhere they are needed ... sometimes a person needs a story more than food to stay alive. That is why we put these stories in each other's memories. This is how people care for themselves.'



p. 3 in "The Land is the Source of the Law" by **Christine F. Black** 2011 quoting **John Borrows** 2002, 2007 p.13 in "Recovering Canada: the resurgence of Indigenous Law"

CF Black: Indigenous Australian from the Kombumerri and Munaljahlai Clans Borrows: Anishinaabe/Ojibway and a member of the Chippewa of the Nawash First Nation

#### Knowledge is alive, and thus both physical and spiritual. KNOWLEDGE lives in STORIES

# $\textbf{Stories} \rightarrow \textbf{Theory}$

#### FROM CINDY BLACKSTOCK:





#### Breath of Life Theory 2007 and 2011

• member, Gitxsan Nation

Appendix 2: references plus additional visuals pertaining to Breath of Life Theory

Knowledge is alive, and thus both physical and spiritual.

## **KNOWLEDGE** lives in **STORIES**

# **Two-Eyed Seeing**

- **1. Co-Learning**
- 2. Knowledge Scrutinization
- 3. Knowledge Validation
- 4. Knowledge Gardening

## categories



#### words of Elder Albert Marshall, LLD, Mi'kmaq Nation

This work of Two-Eyed Seeing is not easy. And so we need to understand that sometimes our most important job is to plant seeds for the future, for the youth, knowing seeds germinate when the time is right.

#### words of Dr. Alika Lafontaine BSc, MD, FRCPC; Univ. Alberta

CHANGE IS COMING: "The choice we have is whether we work together, or we work apart, and the consequences of that choice will shake the very foundation of the Canadian health-care system."

from Opinion Piece by André Picard in The Globe and Mail, 25 April 2017: **To improve Indigenous health, change expectations** context: Indigenous peoples' and communities' health in Canada today re health care, health policies, health resources, and related

https://www.theglobeandmail.com/opinion/to-improve-indigenous-health-change-expectations/article34798062/

## **Discussion ... Guiding Questions**

- 1. What benefits does Two-Eyed Seeing bring to a bio-medical research paradigm? (Note: this is different than asking the same with respect to a bio-medically underpinned health care system.)
- 2. What pros and cons (and for whom) would be entailed in requiring that research be via co-learning and that it embed nation-appropriate and/or community-based understandings for i'l'oqaptmu'k? Note error in Meeting Materials: should read "nation" not "national". 3. How might CIHR encourage research that supports reawakening to the traditional understanding that healing comes from within? E.g., consider the different messages conveyed by research policies or calls that used "guiding principle, grow, or nurture" rather than "framework, build, or measure".

#### CHERYL BARTLETT: TWO-EYED SEEING for meeting on 19 June 2017 in Edmonton of CIHR Institutes Advisory Board on Indigenous Peoples' Health

#### **Core Objectives**

- 1. Understand that Two-Eyed Seeing is a guiding principle, not a mechanism.
- 2. Understand that Two-Eyed Seeing requires ongoing co-learning which in turn encompasses at least three additional key essentials, each of which brings challenges.
- 3. Know that Two-Eyed Seeing is, unfortunately, being co-opted, trivialized, or romanticized by some people and thus it is desirable that means be found to redress or preclude misuse in new research.

#### **Background**

Two-Eyed Seeing is embedded as a strategic direction in CIHR-IAPH's 2014-2018 strategic plan and is highlighted in "Canada's Fundamental Science Review 2017". Known as etuaptmumk in Mi'kmaq, it was brought forward as a guiding principle for inter-cultural work almost two decades ago by Mi'kmag Elder Albert Marshall (LLD – Honorary; member of Eskasoni First Nation; ex-inmate of the Canadian residential school system) to encourage working within the understanding that beneficial outcomes are more likely in any given situation if we bring two or more perspectives (worldviews, paradigms, knowledge systems) into play. In Elder Albert's words: "learn to see from your one eye with the best or the strengths in the Indigenous knowledges and ways of knowing ... and learn to see from your other eye with the best or the strengths in the mainstream (Western or Eurocentric) knowledges and ways of knowing ... but most importantly, learn to see with both these eyes together, for the benefit of all". When introduced, Two-Eyed Seeing guided a (then) unique, new "Integrative Science" initiative at Cape Breton University wherein the vision was post-secondary science education. Dr. Cheryl Bartlett (retired Professor of Biology and former Canada Research Chair in Integrative Science at CBU) worked closely with Elder Albert and his wife Elder Murdena in this regard and also to extend Two-Eyed Seeing into the arenas of health, environment, and natural resources wherein the natural sciences are core. Two-Eyed Seeing is profoundly more than just new jargon as it requires commitment to (1) ongoing co-learning (by and with researchers and communities) inclusive of (2) knowledge scrutinization (to see "the best"), (3) knowledge validation (by peers), and (4) knowledge gardening (grounded, actionable community projects), plus willingness to acknowledge and address the many challenges within these four requirements. In the face of current misuse (e.g., co-opting, trivializing, or romanticizing) of Two-Eyed Seeing by some people, the necessity for colearning must be emphasized. Elder Albert also passionately encourages the understanding that the essence of co-learning itself is i'l'ogaptmu'k (in Mi'kmaq) meaning "to revisit for renewal, in order to maintain movement in the direction that spirit intended" (using ways emphatically not based mainly in quantitative evaluation).

#### **Guiding Questions**

- 1. What benefits does Two-Eyed Seeing bring to a bio-medical research paradigm? (Note: this is different than asking the same with respect to a biomedically underpinned health care system.)
- 2. What pros and cons (and for whom) would be entailed in requiring that research be via co-learning and that it embed nation-appropriate and/or community-based understandings for *i'l'oqaptmu'k*?
- 3. How might CIHR encourage research that supports reawakening to the traditional understanding that healing comes from within? E.g., consider the different messages conveyed by research policies or calls that used "guiding principle, grow, or nurture" rather than "framework, build, or measure".

Appendix 1: visuals for **First Nations Holistic Lifelong Learning Model** developed by Aboriginal Learning Knowledge Centre (Co-Directors Dr. Vivian Ayoungman and Dr. Marie Battiste) within Canadian Council on Learning

http://www.ecdip.org/docs/pdf/FN%20Learning%20Model%20CCL.pdf

#### First Nations Holistic Lifelong Learning Model

Living DRAFT Last Updated: June 6, 2007



http://www.ecdip.org/docs/pdf/FN%20Learning%20Model%20CCL.pdf



### **TRUNK CORE (Heartwood) – Two Knowledge Traditions**

intergenerational learning

worthplace learning

learning

andriona

post-secondary education

know/esx

Lifelong learning for First Nations peoples is grounded in experiences that embrace both indigenous and Western knowledge traditions, as depicted in the tree's root system, "Sources and Domains of Knowledge".

Appendix 2: visuals pertaining to Dr. Cindy Blackstock's **The Breath of Life** Theory

#### **ORIGINAL ARTICLES**

Blackstock, C. 2007. "The Breath of Life Versus the Embodiment of Life; Indigenous and Western Research." WINHEC (World Indigenous Nations Higher Education Consortium) Journal.

https://www.researchgate.net/publication/237555666 The breath of life versus the embodiment of life indigenous knowledge and western research

Blackstock, C. 2011. "The Emergence of the Breath of Life Theory." *Journal of Social Work Values and Ethics* 8 (1): 16.

https://www.researchgate.net/publication/264889109\_The\_Emergence\_of\_the\_Breath\_of\_Life\_Theory

Knowledge is spirit. It is a gift, passed on through many people. As Elders, we must pass it on.

> words of Elder Albert Marshall

Cindy Blackstock 2007 & 2011 The Breath of Life Theory



Knowledge is alive, and thus both physical and spiritual.

#### **KNOWLEDGE** lives in STORIES

#### Blackstock 2011: model for Breath of Life Theory (with 2007 overlay)



from: Cindy Blackstock 2011; Fig. 4; Journal of Social Work Values & Ethics, Vol. 8, No. 1 © White Hat Publications

#### Blackstock 2011: model for Breath of Life Theory



from: Cindy Blackstock 2011; Fig. 4; Journal of Social Work Values & Ethics, Vol. 8, No. 1 © White Hat Publications

#### Table 1: Contrasting the Determinants of Health with the Relational Worldview Principles

Holistic Worldview Dimensions of Individual and Collective Wellbeing	Determinants of Health (Public Health Agency of Canada, 2007)	Relational Worldview Principles (Cross, 2007)
Physical	Income and social status Employment and working conditions Physical environments Biology and genetic endowment Health services Gender Health child development Culture*	Food Water Housing Safety Security
Emotional	Social support networks Personal health practices and coping skills* Culture*	Belonging Relationship Esteem*
Spiritual	<b>NOT INCLUDED</b>	Spirituality Life purpose
Cognitive ↓↓↓ ↓↓	Education and literacy Personal health practices and coping skills* Culture*	Self actualization Community actualization Role Identity Service Esteem*

*from:* Cindy Blackstock 2011; Table 1 (*with coloured shapes added*) Journal of Social Work Values & Ethics, Vol. 8, No. 1 © White Hat Publications



*from:* Cindy Blackstock 2011; Fig. 2 (*with correction and coloured shapes added*) Journal of Social Work Values & Ethics, Vol. 8, No. 1 © White Hat Publications



*from:* Cindy Blackstock 2011; Fig. 2 (*with correction and coloured shapes added, plus Fig. 1 [small insert]*) Journal of Social Work Values & Ethics, Vol. 8, No. 1 © White Hat Publications