Traditional Knowledge (Ininiw Kiskentamowin)

Presentation by Stewart L. Hill, PhD Candidate University of Manitoba



Types of TEK

- Traditional Ecological Knowledge (from generation to generation)
- Empirical (learned from observation)
- Revealed Knowledge (obtained from spiritual origins and recognized as a gift)

(MacGregor, 2004)

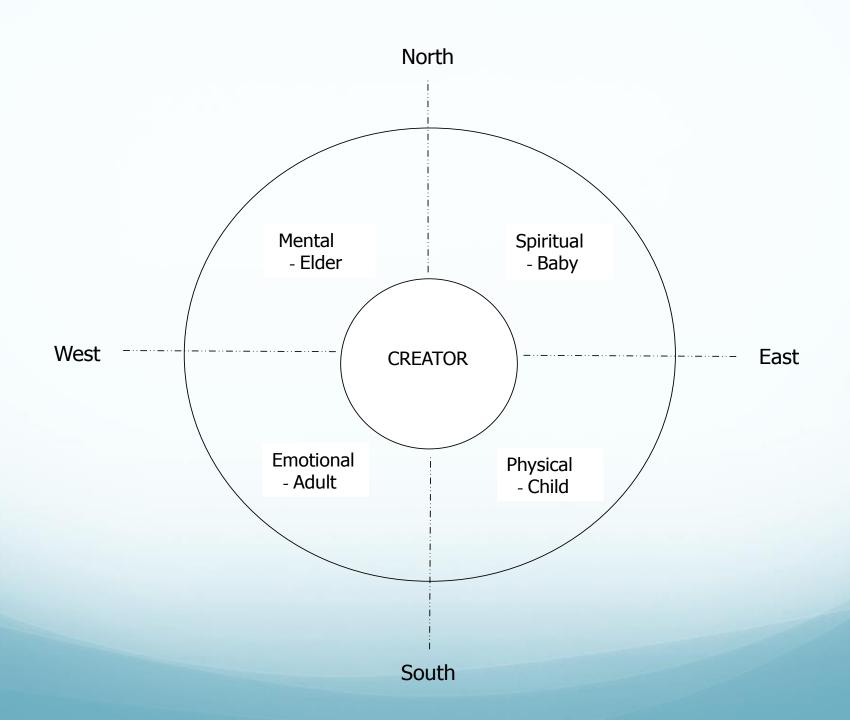
Utilization

- Environmental Assessments, land use planning, cultural and historical research, community planning
- Way of life
- Academia
- Emerging fields (such as this conference and history interpretation)

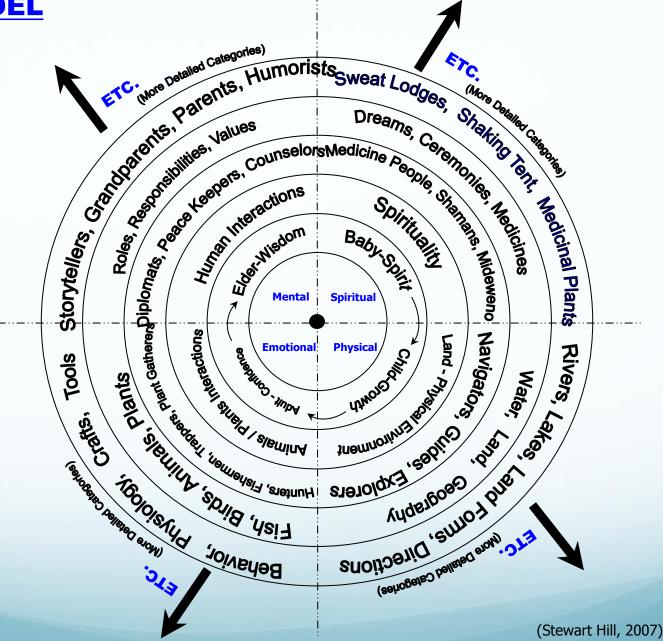
Definition of Traditional Knowledge

Traditional Knowledge is the total understanding by indigenous people of their relationship to the earth and the universe, and the knowledge inherent within that relationship. This knowledge includes the spiritual, physical, emotional, and mental aspects of a person and related components of the earth and universe to these aspects.

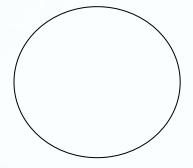
In Cree, we call this "Ininiw Kiskentamowin."



LIFE MODEL



Traditional Knowledge

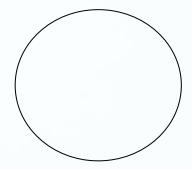


Holistic/Circular

Study Areas: - Land Use Mapping

- Harvest Studies
- Environmental Knowledge
- Place Names
- Archeological Information
 Etc.

Western Science



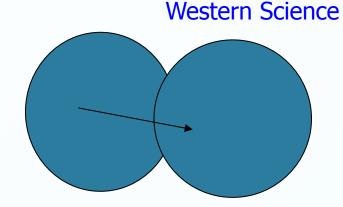
Categorized/Hierarchal

- Biology
- Botany
- Chemistry
- Geology
- Anthropology
- Psychology Etc.

This diagram is very general and is only intended to illustrate that traditional ecological knowledge represents a body of knowledge which is unique from western science.

THE CONCEPT OF INTEGRATION

Traditional Knowledge



Holistic/Circular

Study Areas:

Land Use Mapping

Harvest Studies

Environmental Knowledge

Place Names

Archeological

Information

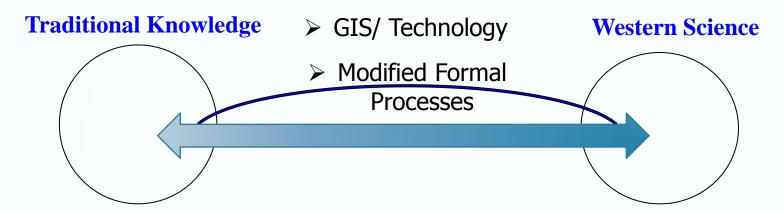
Etc.

Categorized/ Hierarchal

Areas of Study:

- Biology
- Botany
- Chemistry
- Geology
- Anthropology
- Psychology

CONCEPT OF BRIDGING



Holistic/Circular

Study Areas:

- Land Use Mapping
- Harvest Studies
- Environmental Knowledge
- Place Names
- Archeological Information

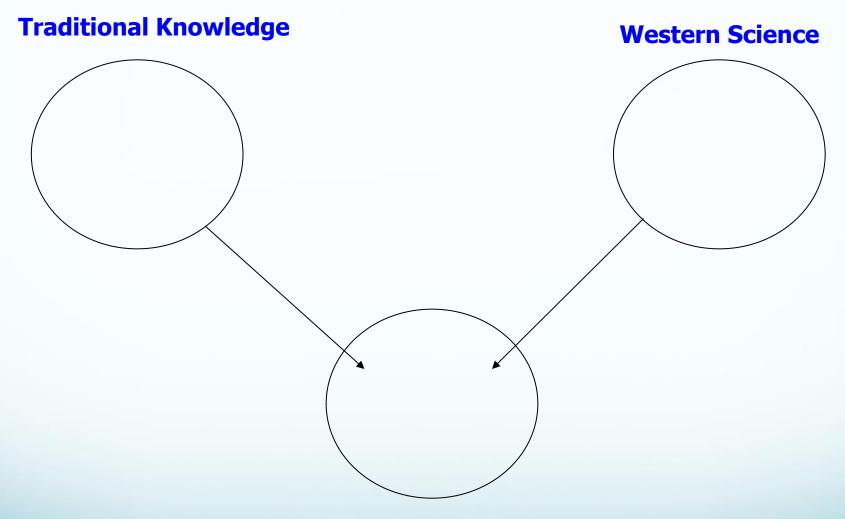
Categorized/Hierarchal

Areas of Study:

- Biology
- Botany
- Chemistry
- Geology
- Anthropology
- Psychology

Etc.

CONCEPT OF SYNTHESIS



Combined Knowledge Base (Unique and Balance)

DIMENSIONS OF TRADITIONAL KNOWLEDGE

Spatial

Usually in the form of traditional territories. However the environmental knowledge is not necessarily confined by the territorial boundaries.

Temporal

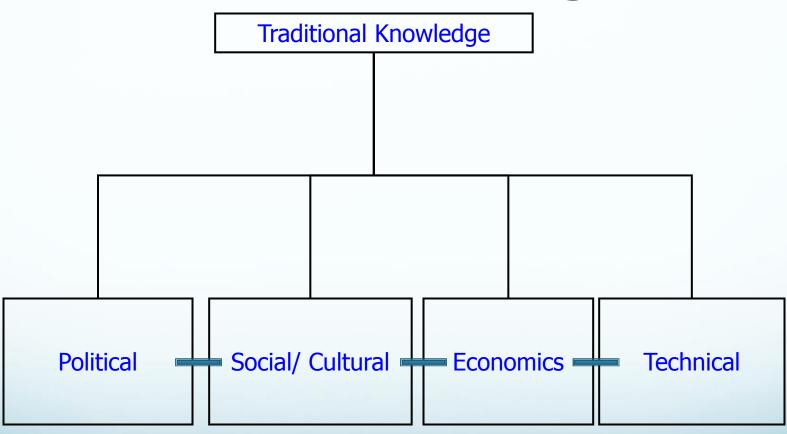
Traditional ecological knowledge is acquired through time, passed on from generation to generation. The knowledge usually has a time component; for example, when recording land area use on a map, there is a corresponding "calendar" of how and when those activities are practiced throughout the year as well as how an area was acquired by an individual (the prior generation?) and how long he/she has been utilizing the area.

Spiritual

There is also an unseen dimension in the form of the human and earth relationship.

Aspects of

Traditional Knowledge



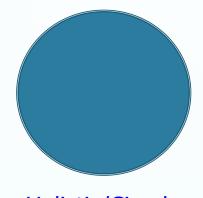
Value of Traditional Knowledge

Traditional Knowledge can be used for:

- Environmental Assessment
- Education
- Land Use Planning
- Negotiations
- Treaty Land Entitlement Selections
- Cultural / Heritage Designations
- Fire Suppression Planning
- Natural Resources Management

How do Traditional systems and Science systems compare?

Traditional System

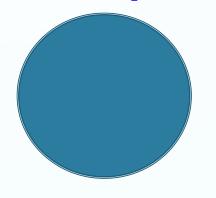


Holistic/Circular

Study Areas: - Land Use Mapping

- Harvest Studies
- Environmental Knowledge
- Place Names
- Archeological Information
 Etc.

Science System



Categorized/Hierarchal

- Biology
- Botany
- Chemistry
- Geology
- Anthropology
- Psychology Etc.

General Comparison of the Science-based System and the Traditional Aboriginal System

Science- based System

Traditional Aboriginal System

LAW

-Legislation

POLICY

-To carry out the law and regulations

REGULATIONS

- To ensure the law is obeyed

LAW

- Natural Laws
- Respect

RULES OF CONDUCT/ SPIRITUAL PRACTICES

Examples: certain treatment of animal bones such as hanging up in trees of bear skulls; no wasting of animal parts; no contamination of animal parts; certain practices after killing certain animals; humility; etc.

BELIEFS/SPIRITUAL CONSEQUENCES

Examples: In Cree culture, the word is "ka-osh-chi-nan" which was a curse (for lack of a better word) befalling upon a person if the laws were broken such as disrespecting an animal by torturing it. This would result in bad luck in hunting for that person but also his/her entire family, which could result in starvation in historical times.

Another Cree word is "ki-sha-wen-ta-koh-sin", which basically means if you do good, then good will things will come to you. Breaking the law will have consequences, and will come back to you and your family. The price will paid in some form or fashion.

^{*}In traditional times, the rules of the aboriginal systems were well ingrained in a person's thinking and beliefs, since they were taught from the time they could understand and start learning the traditional way of life.

COMPARISION SUMMARY

Western Science System and Traditional Aboriginal System

Science-based System

Based on **Numbers** and **Intervention in the Natural Environment**

Traditional Aboriginal System

Based on **Need/ Availability** and **Conforms to the Natural Environment**

Themes

- There is a traditional Aboriginal system with respect to the natural environment;
- The traditional knowledge of the Aboriginal system is valuable and can be of great benefit to Aboriginal communities today;
- Given the context within which the western science system and the traditional Aboriginal system were developed, neither system is superior to the other but each have their inherent strengths and weaknesses; and
- Traditional knowledge is a complex and immense body of knowledge.

Recommendation

- Utilization of TEK must go hand-in-hand with empowerment and benefit for the people sharing their knowledge
- Ways and processes should be explored to enable this to be part of any utilization or incorporation of TEK into biomedical research and environmental health