Incorporating Indigenous Environmental Knowledge Into National Policy and Cultural Practices: The Role of Sami Knowledge in Sweden's Sustainability Practices

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PROJECT

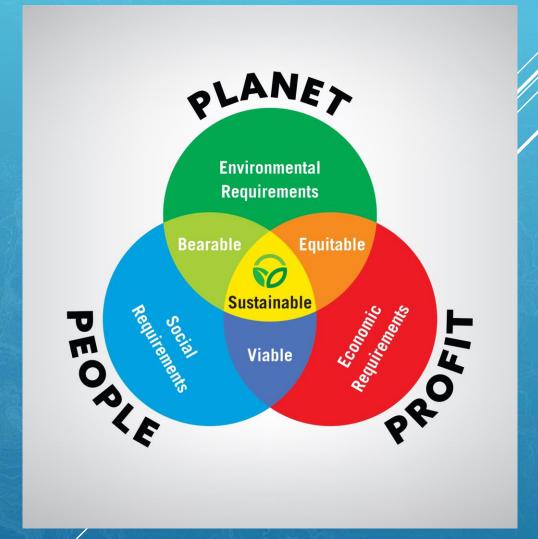
- Prevalence of Indigenous knowledge in sustainable societies:
 - Environmental policy
 - Cultural Practices
- Document analysis
- Qualitative methods for assessing cultural practices
- Resource use, environmental attitude, traditional environmental knowledge
- Purpose: use this information in other areas with Indigenous populations to fight climate change

SUSTAINABILITY

Climate change

Greenhouse gas emissions

Resource extraction



Sustainability Solutions | Consumer Product Services (bureauveritas.com)

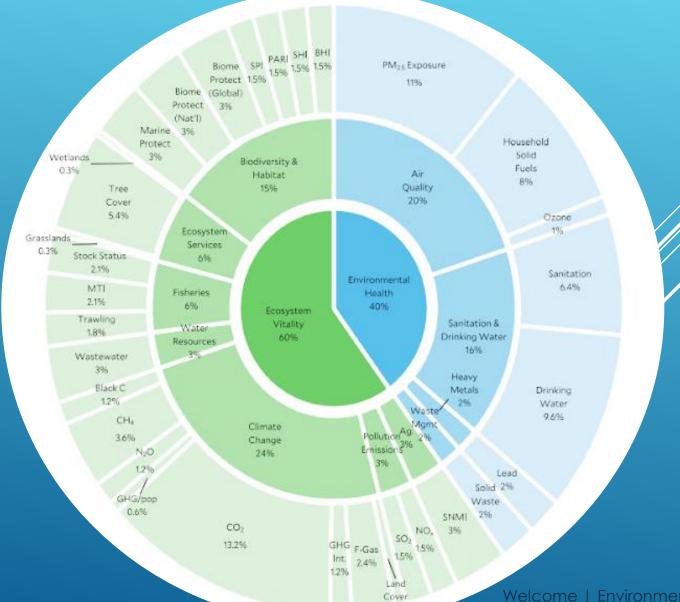
ENVIRONMENTAL PERFORMANCE INDEX

Sweden

Overall: 8th

Climate change: 8th

Ecosystem vitality: 14th



Canada

Overall: 20th

Climate change: 37th

Ecosystem vitality: 38th

<u>Welcome | Environmental Performance</u> Index (vale.edu)

CLIMATE POLLUTION T PER CAPITA 65 tCO2 GLOBAL AVERAGE: 6.2 **SWEDEN** QUEBEC ALBERTA

PER CAPITA CLIMATE POLLUTION IN SWEDEN & CANADA provinces that Gret Thunberg visited for climate strikes. SOURCES: Natonal Inventory Reports. 2017 data CHART by Barry Saxfirage at VisualCarbon.org and NationalObserver.com. 0ct 2019.

SWEDEN

8th in EPI ranking

Meeting goals of climate accords

Indigenous Relations

INDIGENOUS KNOWLEDGE

Based on years of accumulated knowledge + natural resource dependency

Holistic approach

Ways of knowing

- -inherent to local environment
- -different forms = different ways of understanding



Young Sámi in Jokkmokk (Jokkmokk Sámi market ir Swedish Lapland – in pictures | Travel The Guardian)

<u>Canadian Indigenous Group Oral Tradition (Oral tradition: the word is king – Societies and Territories (learnquebec.ca)</u>





SÁMI

Reindeer Herding

Long history of colonization

Knowledge of local environment

RESEARCH AREA

<u>Jokkmokk</u>

- Population: 2700
- Reindeer-herding hub
- Education centre
- Office of Sami parliament



Jokkmokk Sami winter market (Jokkmokk Sámi market in Swedish Lapland – in pictures | Trave | The Guardian)



<u>Umeå</u>

- Population:130,000
- Umea University
- Largest locality in Norrland



Umeå (Umea, Sweden – Bicycle Touring Pro)

STAKEHOLDER GROUPS

Citizens

- Environmental attitude
- Presence of Indigenous knowledge/epistemologies
- Sustainability levels

Government Officials

- Environmental goals
- Contents of platforms

Resource companies

- iron ore, hydroelectricity, forest
- Sustainability statements
- Impact assessments



Citizens in Umeå (Umeå shows the way on smart energy use - Smarter Communities Media)



Hydropower Dam outside
Jokkmokk (Jokkmokk
(odeblom.de)

QUESTION 1

A) How does the perception of the natural resources they use differ between citizens of a city (<u>Ume</u>å) and a local Indigenous community (Jokkmokk)?

B) Do traditional Sami holistic epistemologies regarding the local environment translate into the environmental attitudes and beliefs of Umeå citizens?

C) What impact do environmental attitudes and beliefs have on their resource consumption rates and overall sustainability?



Power station outside Jokkmokk (Photo reportage: Coping with energy poverty across Europe | by The Beam | TheBeamMagazine | Medium)

HYPOTHESIS 1

Indigenous Higher environmental attitudes

More environmentally responsible behavior

Umeå — More advanced technologies

Jokkmokk Conserving resources

QUESTION 2

A) What is the rate of congruence between the three stakeholder groups on waging environmental impact vs. economic benefit regarding resource extraction?

B) Do citizens feel represented by resource extraction companies and government officials?

HYPOTHESIS 2

Umeå → Economic Benefit

Jokkmokk → Environmental impact

 Citizens will have more disconnect with resource extraction companies and government officials: political distrust will prevent policy success

Lack of representation specifically in Indigenous populations/

DESIGN



Citizens

1. Questionnaires

2. In-depth Interviews

3. Participant Observation

<u>A human and a reindeer in</u> <u>Jokkmokk (About us - Jokkmokk</u> <u>Arctic Dream)</u>

> Resource extraction companies + Government Officials

1. In-depth interviews

2. Participant Observation

METHODS



Jokkmokk (Jokkmokk Winter market | Inlandsbanan

Defining sustainability: greenhouse gas emissions + preservation of natural resources

Relationships between 3 stakeholder groups

Assessing Indigenous-based thought processes in non-Indigenous citizens

Field notes to show surveyor's inherent biases and thought processes/change in perceptions

SIGNIFICANCE

Climate change

Improving Indigenous relations

Contributing to data bases



Greta Thunberg at a School Strike for Climate Action ('I want snow for Christmas:' Students demand climate

action (yahoo.com)



Sami Parliament (<u>Norwegian Sami Parliament Uses Millions and PR Agency to Fight Mining (highnorthnews.com)</u>)