

MICRO AND MACRO CONSIDERATIONS IN JOINTLY REGULATED IMPACT ASSESSMENTS IN BRITISH COLUMBIA, CANADA

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MICRO AND MACRO CONSIDERATIONS IN JOINTLY REGULATED IMPACT ASSESSMENTS IN BRITISH COLUMBIA, CANADA

Jeff Rempel, MSc, PMP, EP

Manager, Infrastructure and Environmental Management

- Macro Considerations
- Micro Considerations
- Telling the “EA” Story

May 2022



Jointly-regulated Impact Assessment

MICRO AND MACRO CONSIDERATIONS IN JOINTLY REGULATED IMPACT ASSESSMENTS IN BRITISH COLUMBIA, CANADA.



MACRO: POLICY / LEGISLATION JOINT - BRITISH COLUMBIA & CANADA COORDINATED IMPACT ASSESSMENT

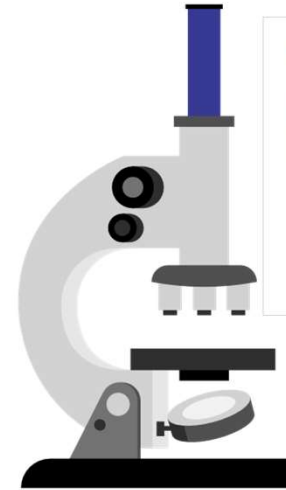
BC Environmental Assessment Act (Nov 2018)

Joint Impact Assessment Structure / Organization

Federal Canada Impact Assessment Act (Aug 2019)



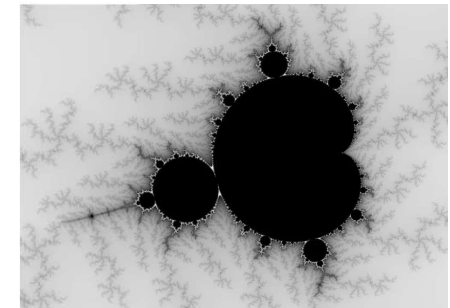
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MICRO AND MACRO CONSIDERATIONS IN JOINTLY REGULATED IMPACT ASSESSMENTS IN BRITISH COLUMBIA, CANADA.

MACRO: POLICY / LEGISLATION

HOW TO TELL THE IMPACT ASSESSMENT STORY



HOW TO TELL THE IMPACT ASSESSMENT STORY



MACRO: POLICY / LEGISLATION

JOINT - BRITISH COLUMBIA & CANADA COORDINATED IMPACT ASSESSMENT

BC Environmental Assessment Act (Nov 2018)

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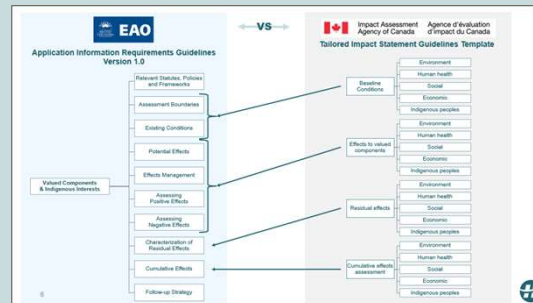
This Act is current to March 30, 2022

See the [Tables of Legislative Changes](#) for this Act's legislative history, including any changes not in force.

ENVIRONMENTAL ASSESSMENT ACT [SBC 2018] CHAPTER 51

Assented to November 27, 2018

Joint Impact Assessment Structure / Organization



Federal Canada Impact Assessment Act (Aug 2019)



CANADA

CONSOLIDATION

CODIFICATION

Impact Assessment Act

Loi sur l'évaluation d'impact

S.C. 2019, c. 28, s. 1

L.C. 2019, ch. 28, art. 1

NOTE

[Enacted by section 1 of chapter 28 of the Statutes of Canada, 2019, in force August 28, 2019, see SI/2019-86.]

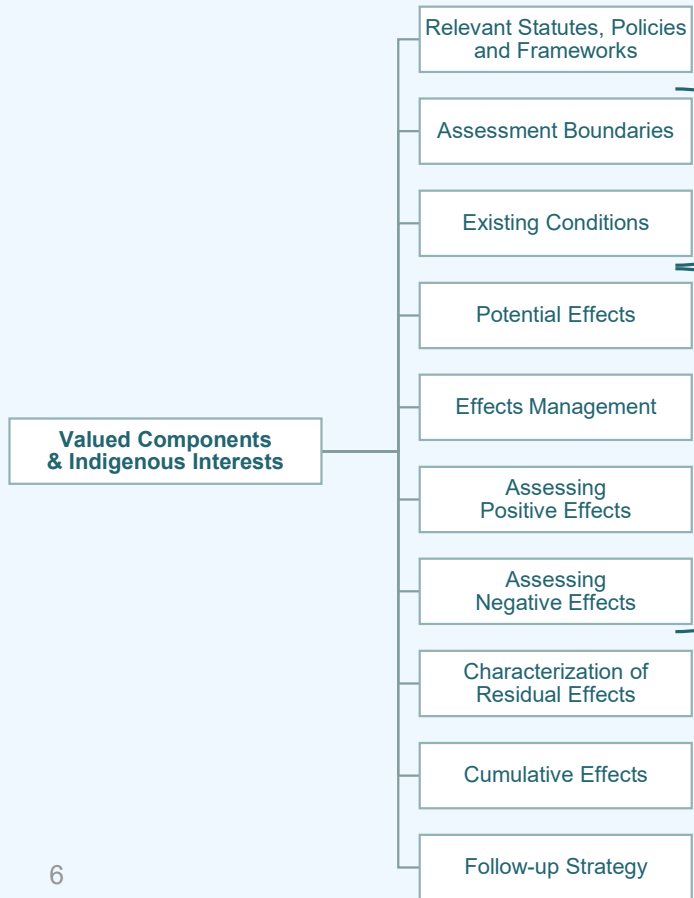
NOTE

[Édictée par l'article 1 du chapitre 28 des Lois du Canada (2019), en vigueur le 28 août 2019, voir TR/2019-86.]





Application Information Requirements Guidelines Version 1.0



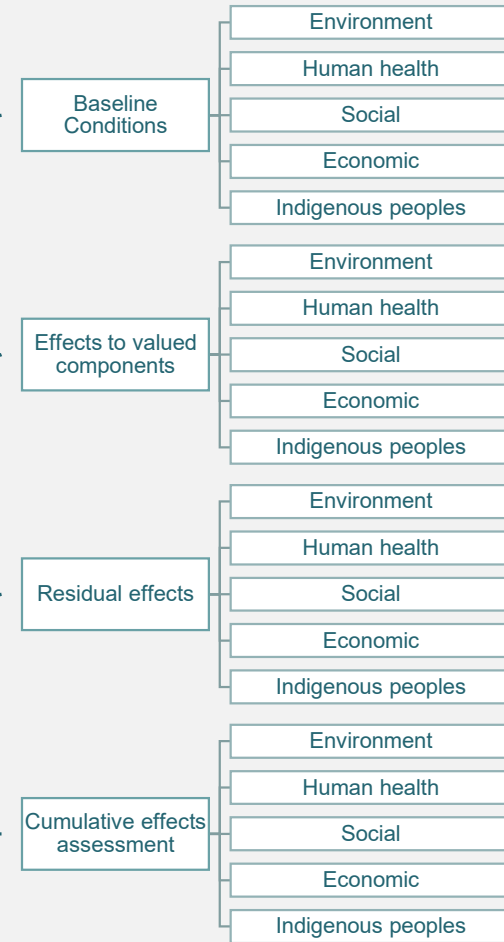
VS







Impact Assessment
Agency of Canada

Agence d'évaluation
d'impact du Canada

Tailored Impact Statement Guidelines Template



SUMMARY OF IAAC & EAO CROSS-DISCIPLINARY IMPACT ASSESSMENT THEMES

Themes	Requirement	EAO	IAAC
 Sustainability	Sustainability		X
	Summary of impacts to current and future generations	X	
 Gender Based Analysis +	GBA +		X
	Disproportionate effect	X	
 Ecosystem Approach	Ecosystem approach		X
	Environmental and community context	X	
	Summary of biophysical factors that support ecosystem function	X	
 Culture	Culture	X	
	Summary of human and community well-being	X	
	Community knowledge		X



IMPACT ASSESSMENT (IA) THEMES



Physical
Env / ICs

Biological
VCs

Human
VCs

Other
Sections*

Sustainability



Gender Based Analysis +



Ecosystem Approach



Culture

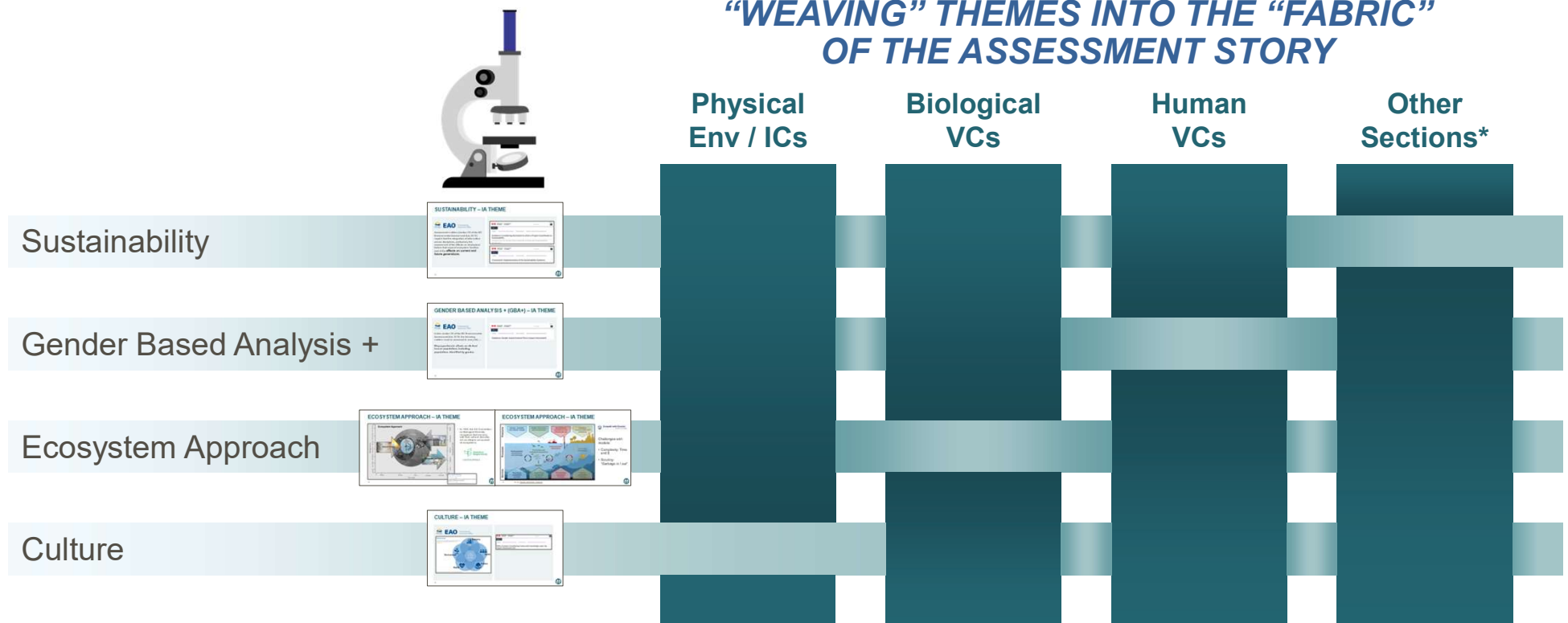


* Other sections, for example: Malfunctions and Accidents, GHG and Climate Change, Indigenous Interests



IMPACT ASSESSMENT (IA) THEMES

“WEAVING” THEMES INTO THE “FABRIC” OF THE ASSESSMENT STORY



* Other sections, for example: Malfunctions and Accidents, GHG and Climate Change, Indigenous Interests



SUSTAINABILITY – IA THEME



EAO

Environmental
Assessment Office

Assessment matters (section 24 of the BC Environmental Assessment Act, 2018) require that the integration of information across disciplines, particularly the assessment of the effects on biophysical factors that support ecosystem function and of the **effects on current and future generations**.

Government of Canada / Gouvernement du Canada

Search IAAC

Franglais

MENU

[Canada.ca](#) > [Impact Assessment Agency of Canada](#) > [Policy and guidance](#) > [Practitioner's Guide to the Impact Assessment Act](#)

Guidance: Considering the Extent to which a Project Contributes to Sustainability

This guidance is part of the Practitioner's Guide to Federal Impact Assessments under the *Impact Assessment Act*

December 6, 2021

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Framework: Implementation of the Sustainability Guidance



GENDER BASED ANALYSIS + (GBA+) – IA THEME



EAO

Environmental
Assessment Office

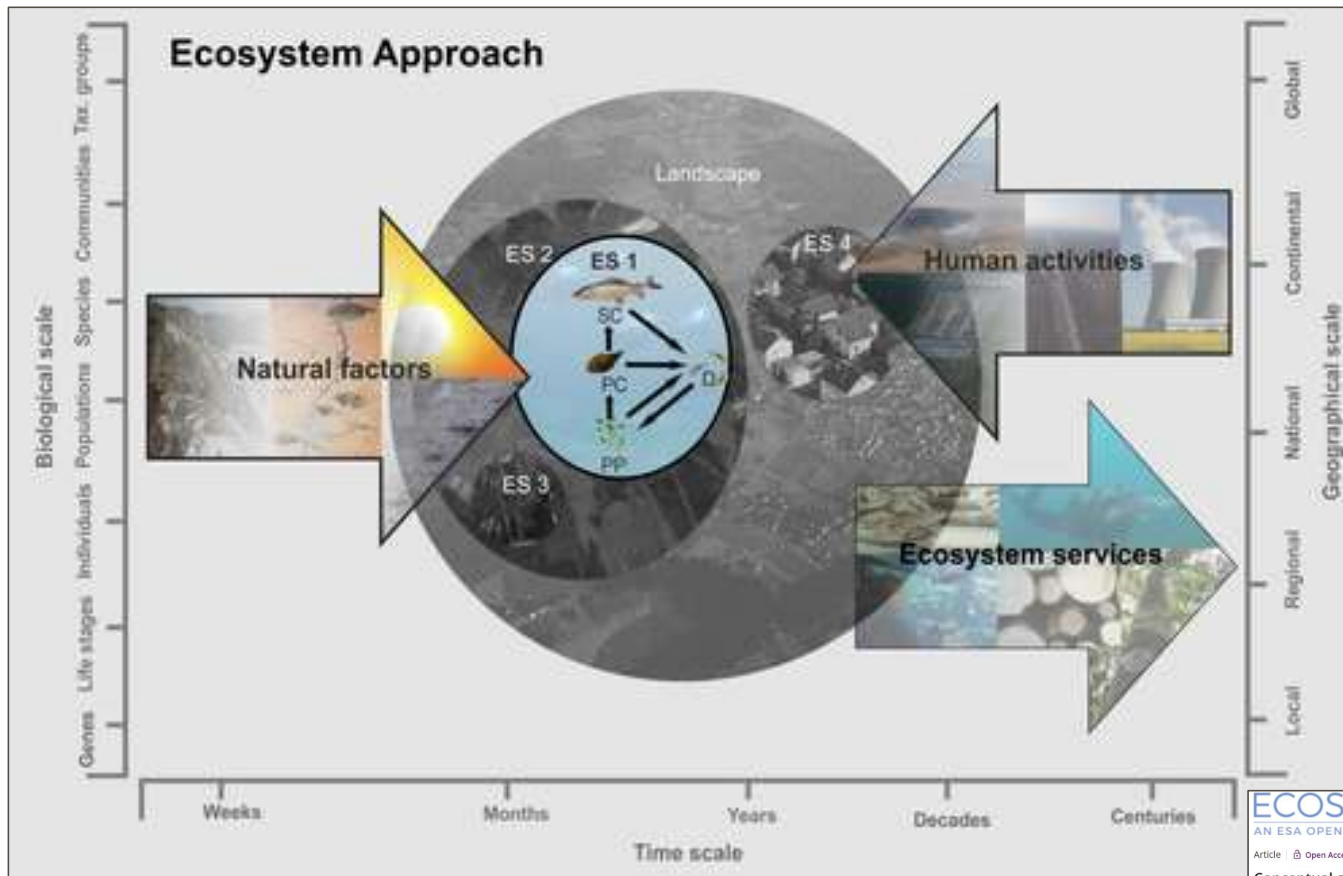
Under section 25 of the BC Environmental Assessment Act, 2018, the following matters must be assessed in every EA...:

Disproportionate effects on distinct human populations including populations identified by gender.

A screenshot of the Impact Assessment Agency of Canada (IAAC) website. The header includes the Canadian flag, the text "Government of Canada / Gouvernement du Canada", and a search bar labeled "Search IAAC" with a magnifying glass icon. A "Français" link is visible in the top right. Below the header is a "MENU" dropdown. The breadcrumb trail reads: "Canada.ca > Impact Assessment Agency of Canada > Policy and guidance > Practitioner's Guide to the Impact Assessment Act". The main heading of the page is "Guidance: Gender-based Analysis Plus in Impact Assessment".



ECOSYSTEM APPROACH – IA THEME



- In 1993, the UN Convention on Biological Diversity recognizes that humans, with their cultural diversity, are an integral component of ecosystems.



ECOSYSTEM APPROACH

ECOSPHERE
AN ESA OPEN ACCESS JOURNAL

Article | Open Access | © | 1

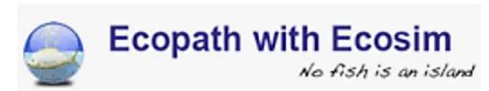
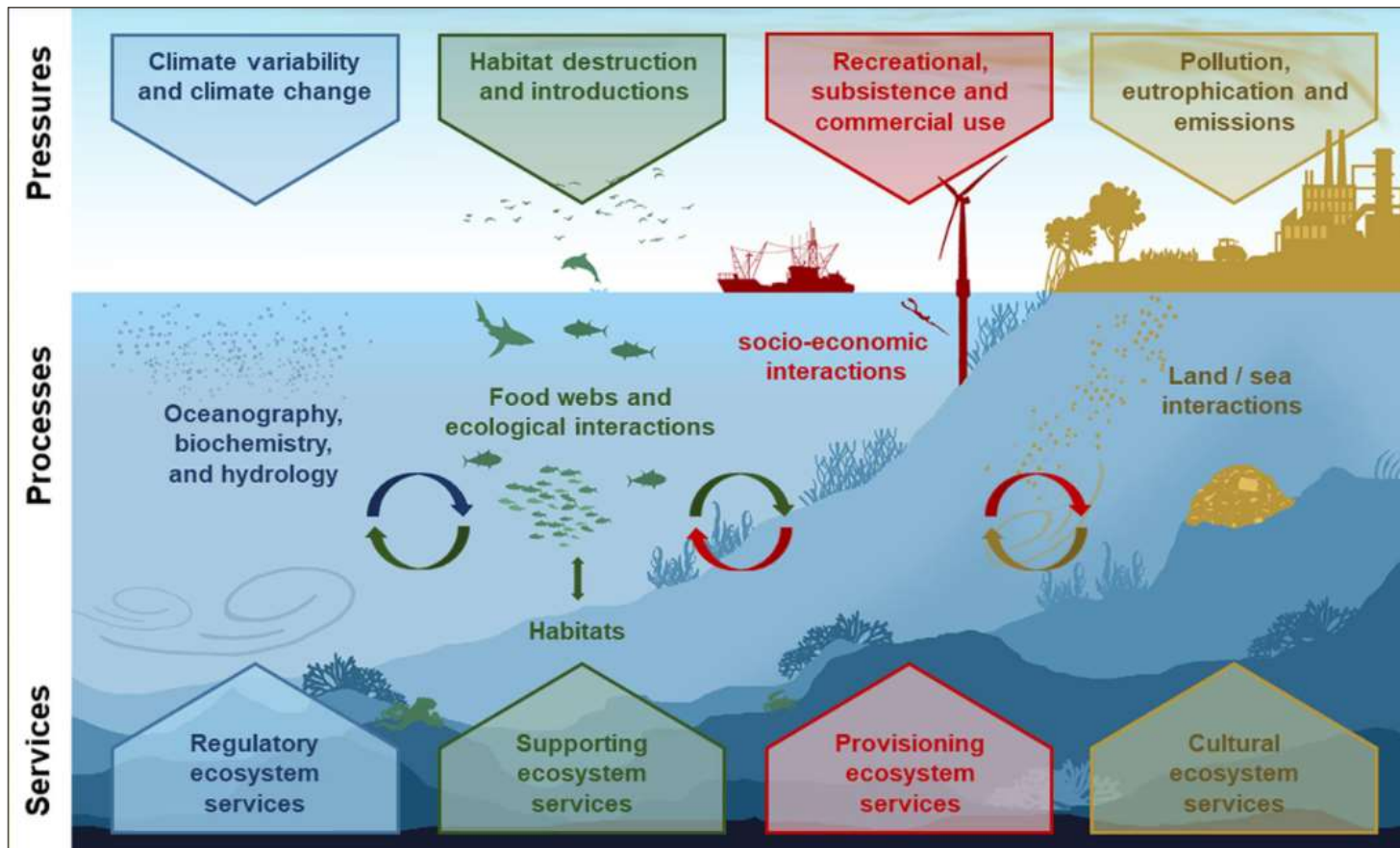
Conceptual guidelines for the implementation of the ecosystem approach in biodiversity monitoring

Melanie Mueller, Juergen Geist

First published: 31 May 2016 | <https://doi.org/10.1002/ecs2.1305> | Citations: 18



ECOSYSTEM APPROACH – IA THEME



Challenges with models:

- Complexity: Time and \$
- Scrutiny: “Garbage in / out”



CULTURE – IA THEME



EAO

Environmental
Assessment Office

EAO User Guide

INTRODUCTION TO ENVIRONMENTAL ASSESSMENT UNDER THE
PROVINCIAL ENVIRONMENTAL ASSESSMENT ACT (2018)

VERSION 1.01

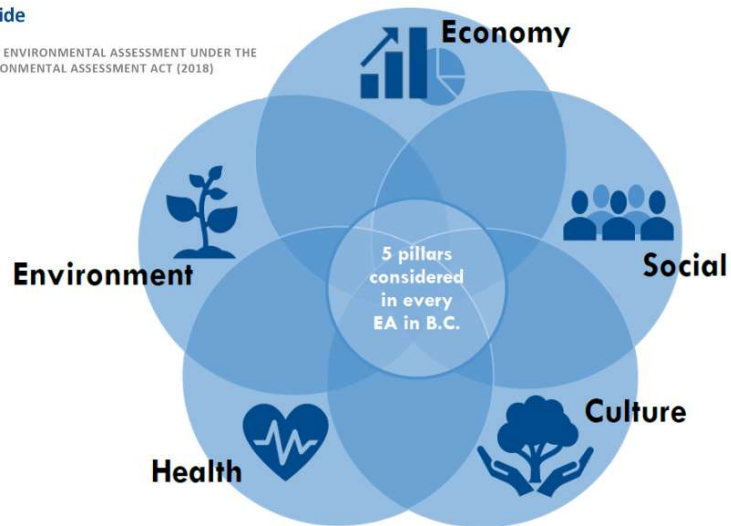


Figure 2 Five pillars considered in every environmental assessment.

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Search IAAC

MENU

[Canada.ca](#) > [Impact Assessment Agency of Canada](#) > [Policy and guidance](#) > [Practitioner's Guide to the Impact Assessment Act](#)

Policy Context: Considering Community Knowledge under the Impact Assessment Act



WHAT TO INCLUDE IN THE IA STORY & HOW TO TELL IT



Significance Determination	EAO = no, IAAC = Yes
Intermediate Components	EAO = no, IAAC & EAO = Pathway effects recognized as important

An "X" indicates that the component in the row influences the component in the column.

Intermediate Components	Intermediate Components										Valued Components												
	Air Quality	Noise and Vibration	Light	Coastal Geomorphology	Marine Water Quality	Underwater Noise	Population	Marine Vegetation	Marine Invertebrates	Marine Fish	Marine Mammals	Coastal Birds	Ecological Productivity of OSA Fisheries	Labour Market	Economic Development	Marine Commercial Use	Local Government Finance	Services and Infrastructure	Recreation	Visual Resources	Land and Water Use	Archaeological and Heritage Resources	
Air Quality	X																						
Noise and Vibration		X																					
Light			X																				
Coastal Geomorphology				X																			
Marine Water Quality					X																		
Underwater Noise						X																	
Population							X																
Marine Vegetation								X															
Marine Invertebrates									X														
Marine Fish										X													
Marine Mammals											X												
Coastal Birds												X											
Ecological Productivity of OSA Fisheries													X										
Labour Market														X									
Economic Development															X								
Marine Commercial Use																X							
Local Government Finance																	X						
Services and Infrastructure																		X					
Recreation																			X				
Visual Resources																				X			
Land and Water Use																					X		
Archaeological and Heritage Resources																						X	

Key: X - Included in the effects assessment, however not identified as an IC or a VC as defined in 8.2.2 Selection of Valued Components.

Source: PORT METRO VANCOUVER | Roberts Bank Terminal 2 Table 8-1 Intermediate Component and Valued Component Linkages

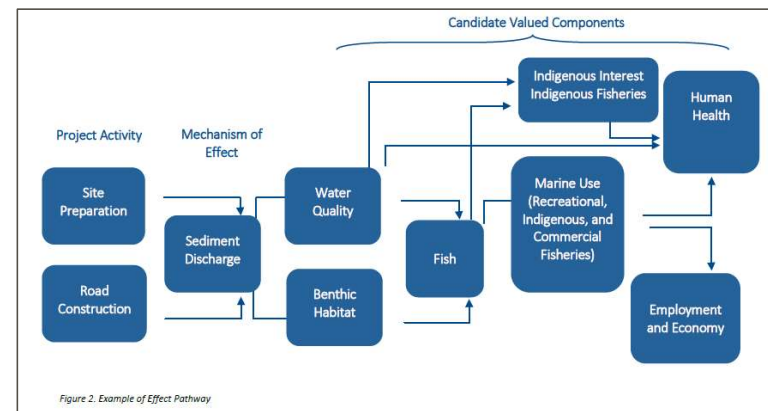
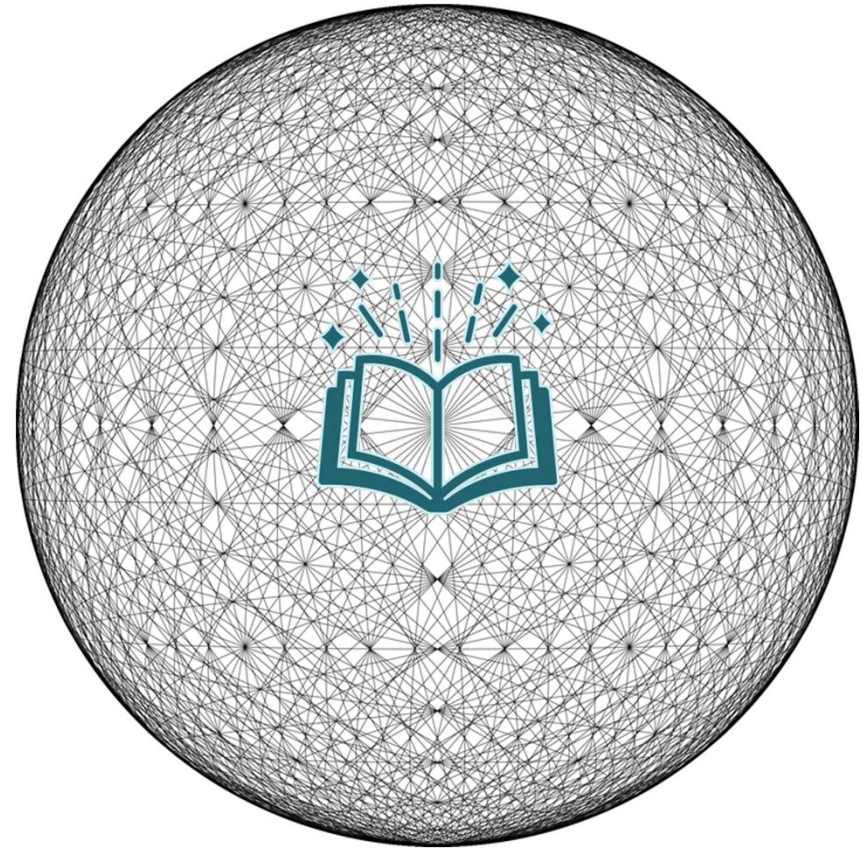


Figure 2. Example of Effect Pathway



FULL CIRCLE – BEGINNING AND END

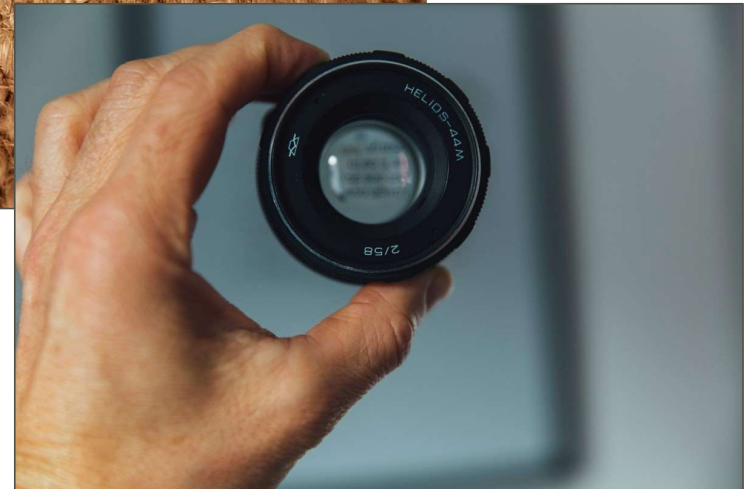
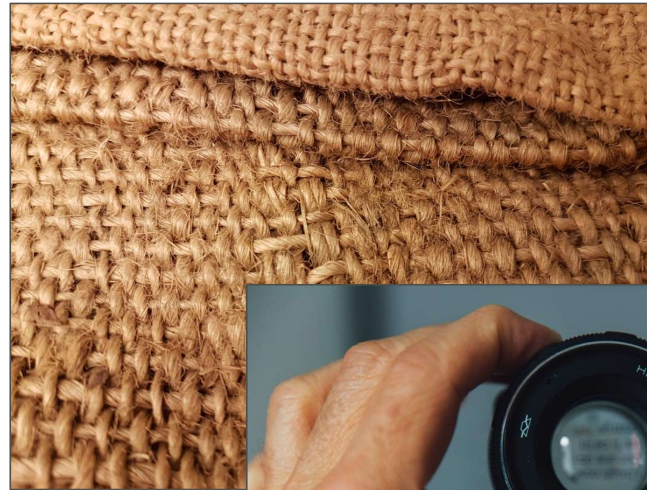
- Baseline / Existing Conditions
- Project Effects
- Cumulative Effects
- “Hishuk ish tsawlk”
 - Nuu-chah-nulth language
 - Meaning: We are one, and all interconnected



MICRO AND MACRO CONSIDERATIONS FOR CONFIDENCE IN IMPACT ASSESSMENT

The “Story” Narrative:

- Themes uses as a lens to consider effects to VCs and Indigenous Interests
 - Woven through the assessment including:
 - New 2018/19 BC and Canada Impacts assessment requirements (sustainability, GBA+, culture, and the ecosystem approach)



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Questions / Comments

Thank you

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Let's continue the conversation!

Post questions and comments via chat in the IAIA22 platform.



#iaia22

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