An Overview of Version 11 of the PIEVC Protocol

June, 2024
PIEVC Program Alliance

CLIMATE RISK INSTITUTE

Institute for Catastrophic Loss Reduction
Building resilient communities

giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

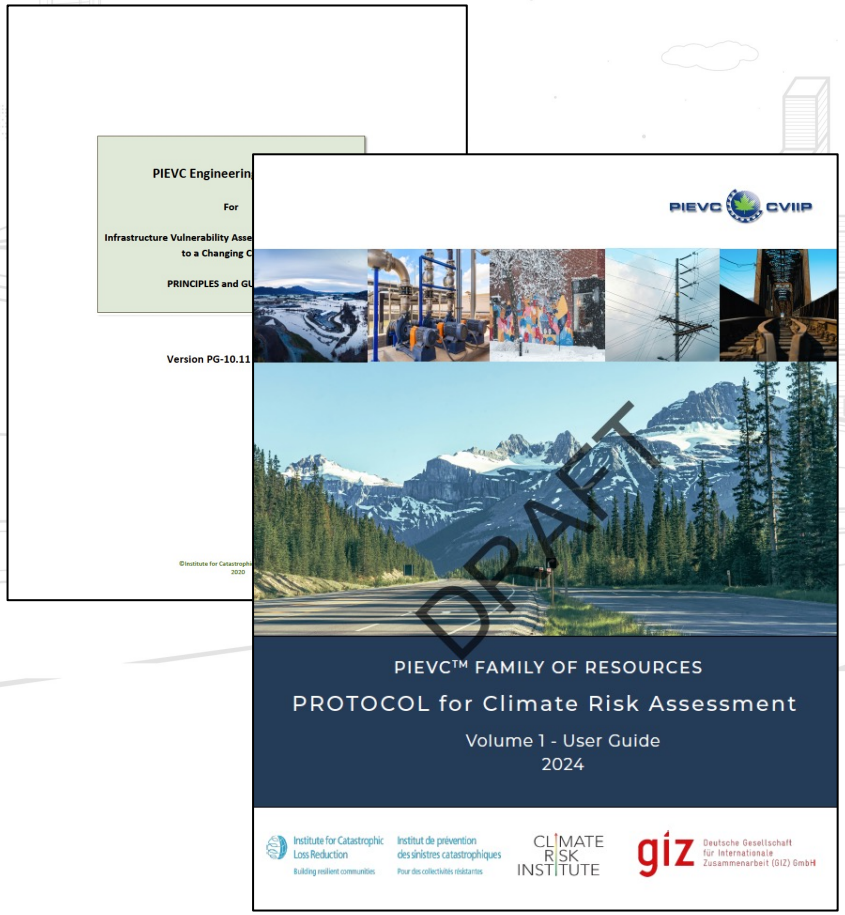
PIEVC CVIIP

In association with:

ONTARIO FIRST NATIONS TECHNICAL SERVICES CORPORATION

cfia 120 AÑOS
Colegio Federado de Ingenieros y de Arquitectos de Costa Rica

PIEVC Protocol Update (2024)



Retain the PIEVC Process and elements of the original Protocol, and:

- Update supporting information and context
- Incorporate user/PIEVC community feedback
- Align & relate PIEVC Protocol with PIEVC Family of Resources
- Align & relate to updated, key standards (ISO 31000, ISO 1409X)
- Addition of new, explanatory materials
- Simplification and streamlining of content
- EN & FR, Graphic Design

Writing lead: Nodelcorp

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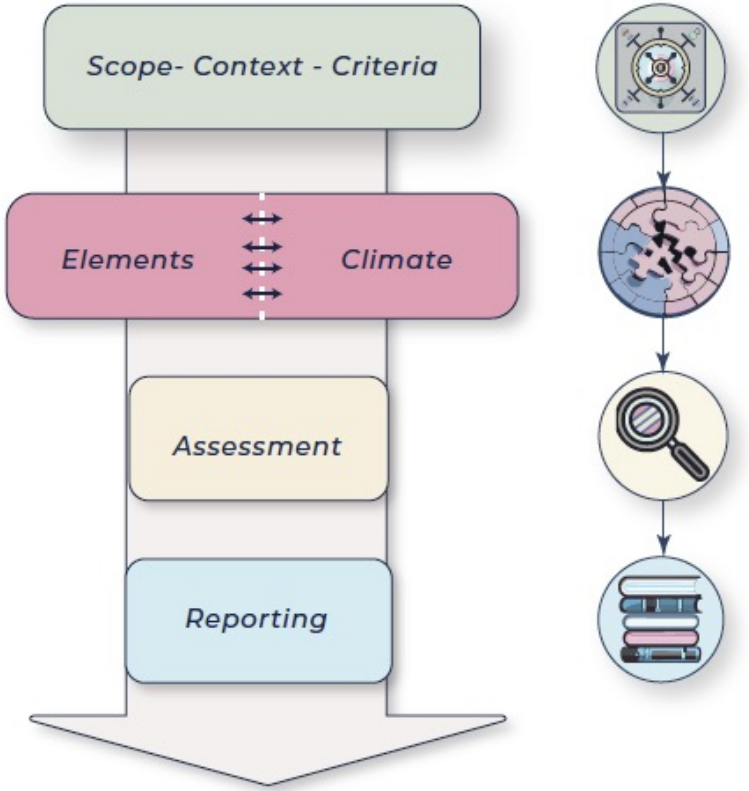
PIEVC Protocol Update (2024)



Updates a response to significant feedback from PIEVC community since March 2020 (inc. highly experienced users, lessons from training, infrastructure owners, policy, supporting science/services)

1. User Guide (detailed guidance)
2. Supplements and Support
3. Instruction Manual (step-by-step instructions)
4. Field Guide (checklist – main steps of process)
5. Vocabulary

PIEVC Protocol is a Living Document

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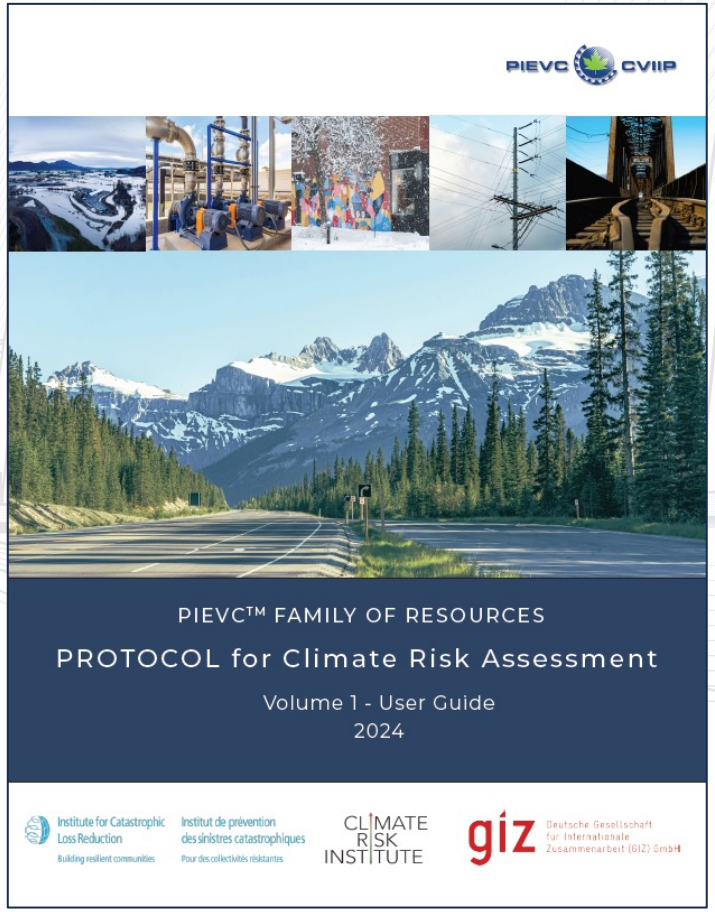
Overall:

- Core PIEVC process is retained – users, community requested consistency with existing systems, resources, training, experience, etc. that continues to rely on the PIEVC Process
- Streamlining, simplification of presentation – repositioning of infrequently used/redundant content
- Aiming for accessibility – Gr. 8 reading level to the extent possible
- Position PIEVC resources within the larger climate/risk management landscape



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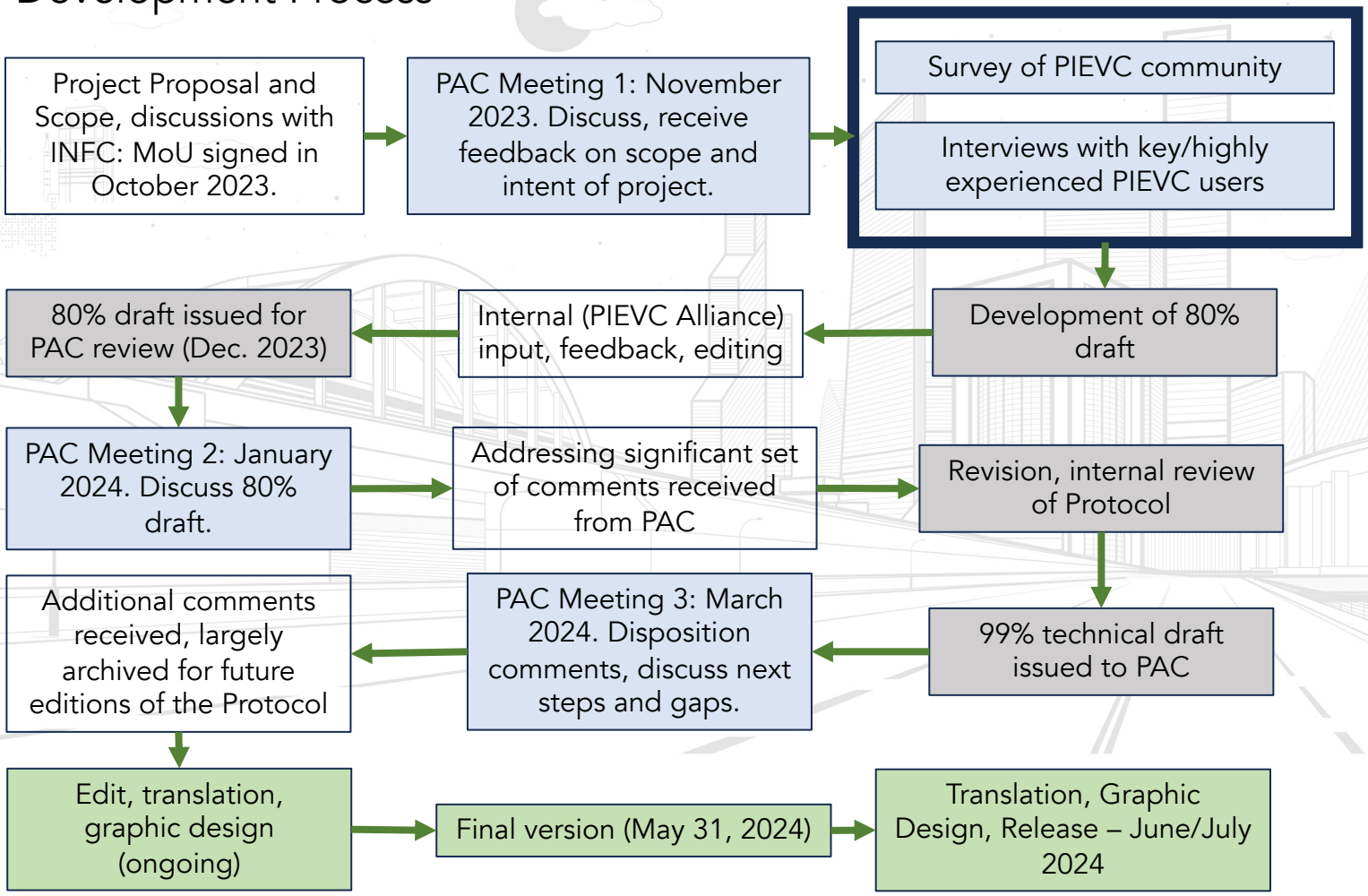
Development Process



PAC Participant
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Dustin Carey, Federation of Canadian Municipalities
Elmer Lickers, Ontario First Nations Technical Services Corporation
Harshan Radhakrishnan, Engineers and Geoscientists BC
Quentin Chiotti, Matrix Solutions Inc.
Pippa Cookson-Hills, City of Calgary
Kelly Murphy, Housing, Infrastructure, and Communities Canada
Jeremy Fyke, Canadian Centre for Climate Services, ECCC
Observers
Kala Pendakur, Standards Council of Canada
Adamou Saidou, Standards Council of Canada
Marianne Armstrong, National Research Council

Interviewees

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David MacLeod
Roger Rempel
Heather Auld
Simon Eng
Vladimir Naranjo Castillo
Zane Sloan
Lindsay Allen
Tara Hanlon

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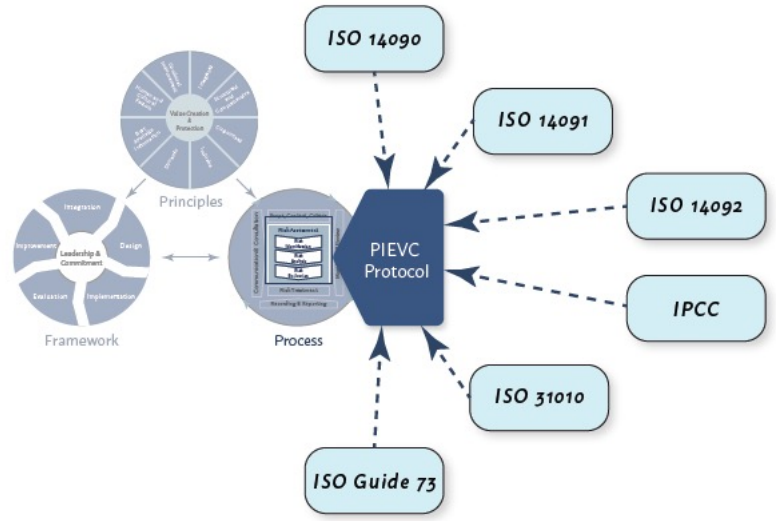
What's new?

- Relationship between PIEVC resources; high level guidance on application scenarios; Relationship to OFNTSC's FN-IRT
- Clarifying relationship/role within higher level standards
- Advice on handling "special cases"
- Highlighting that the Protocol allows for flexibility (it is not a prescriptive rule book)



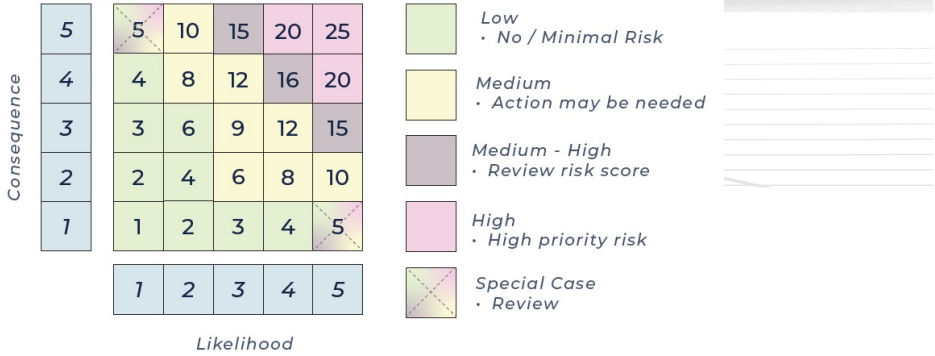


Figure 7: Basic Heat Map

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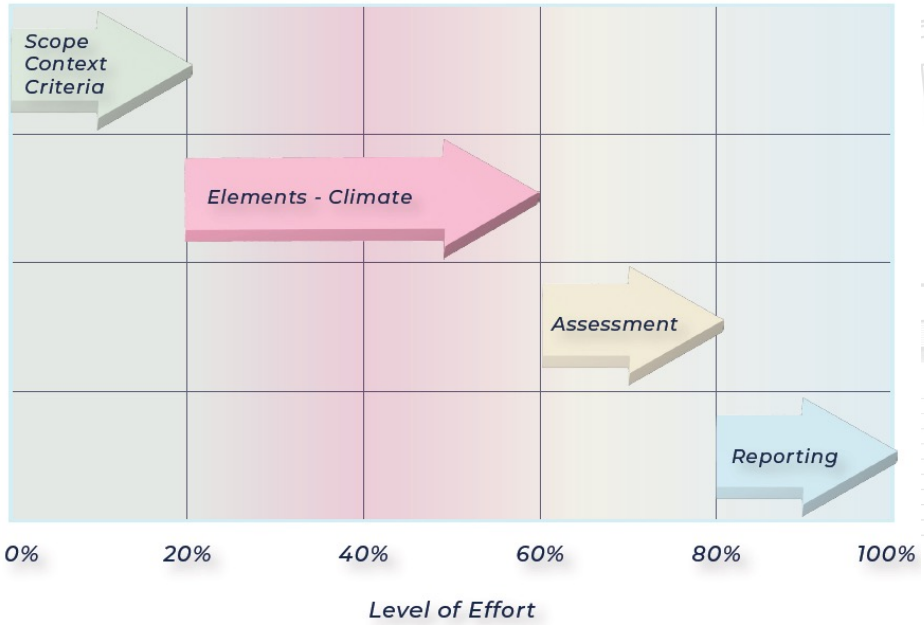
What's new?

- Elements that are used less frequently in practice have been moved to the appendix (e.g., engineering analysis, triple-bottom-line)
- Project guidance: "Level of effort" for project phases; Workshops are "strongly recommended"
- Guidance on selection of future climate scenario (documentation, reliance on owner's objectives)
- High-level guidance on risk treatment
- Guidance on scoring alternatives (ensuring the the theme of flexibility is clearly communicated)



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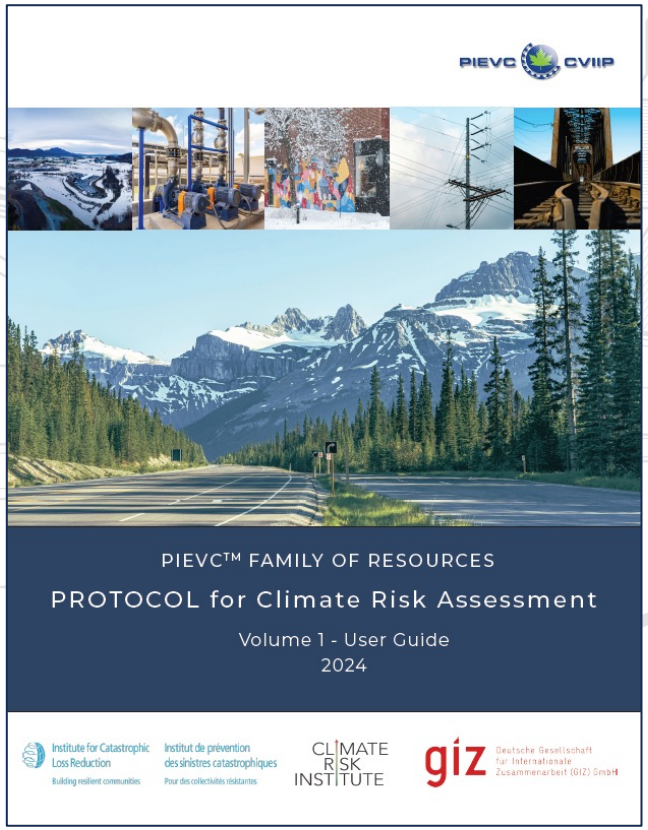

Volume 1

- User Guide
- Comprehensive guidance on the PIEVC Process
- Core document – additional volumes are offered as supplementary resources

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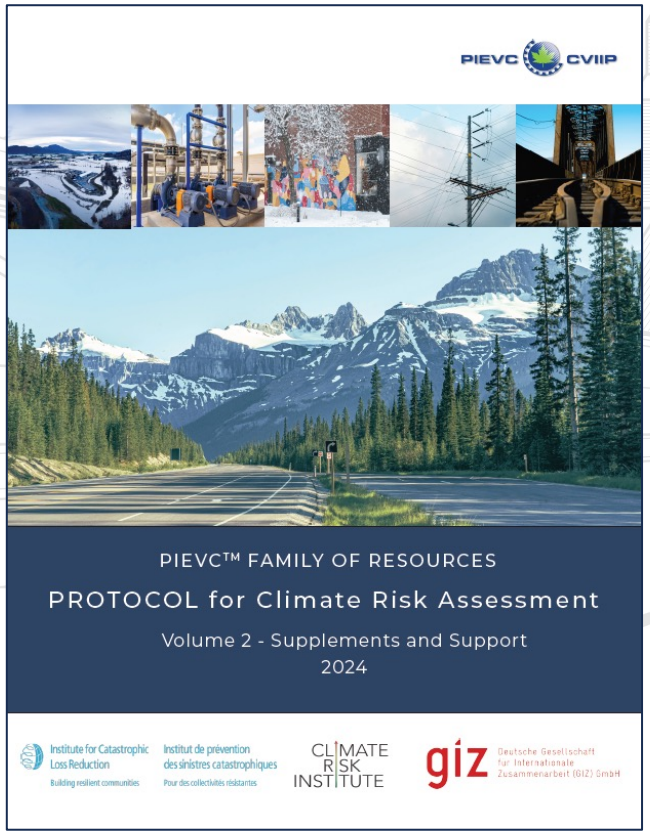

Volume 2

- Procedures that can "plug in" to a Protocol assessment; context to support analysis
- Guidance on:
  - Risk treatment
  - TBL Analysis
  - Capacity analysis (previously referred to as "engineering analysis")
  - Bowtie analysis (as in PIEVC LPM)
  - Vulnerability analysis
  - Impact chains (as in PIEVC Green)

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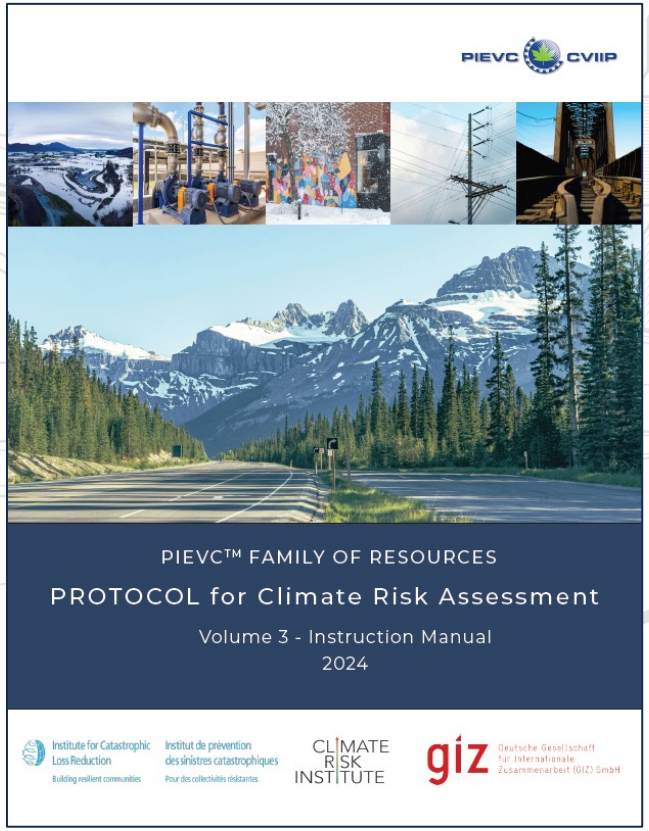
Volume 3



- Simpler presentation of Process - "instructions" for completing an assessment

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Volume 4: Field Guide

- Very simple presentation of the main steps for conducting an assessment
- A tool for seasoned users/teams conducting an assessment as a project management resource

Volume 5: Vocabulary

- Separate vocabulary document will allow users to more easily cross-reference
- Terminology aligned between PIEVC documents, reflecting updated supporting standards

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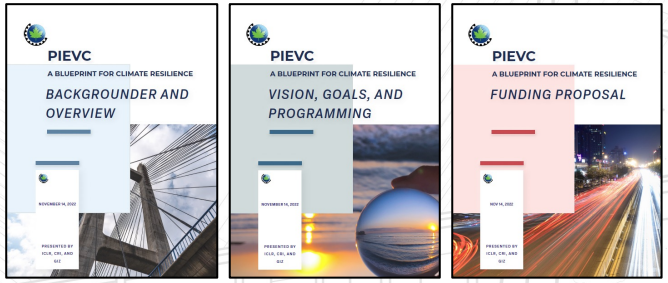
Additional projects, supporting resources: Identified during update process, by Project Advisory Committee

Proposed project	PAC members identified priority
Comprehensive adaptation planning guidance that would situate the PIEVC assessment process in context of additional activities required for adaptation, including risk treatment.	5+
Minimum qualifications for conducting PIEVC assessments.	1
Development of guidance concerning the role of Indigenous knowledge and science across the PIEVC Family of Resources.	5
Comprehensive risk treatment guidance.	2
A supporting document on climate analysis guidance for climate practitioners (i.e., detailed technical guidance to support climate professionals, to supplement the general guidance currently included in the Protocol).	3
Guidance for making assessments more consistent for future meta-analysis studies.	2



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PIEVC PROGRAM

RESILIENT INFRASTRUCTURE IS CRUCIAL TO CANADA'S

SAFETY, ECONOMY AND FUTURE.

GET STARTED!

- PIEVC Protocol and Resources
- Where it has been implemented
- Partner Organizations
- PIEVC Protocol/HLSG Training
- PIEVC PN, Global Forum, Presentations
- What's New

PIEVC Practitioners' Network *(PIEVC PN) (free, open access)*

Visit: https://pievc-practitioners-network.earthnet.org

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