

**puro •
earth**

Methodology Development Requirements

Version 1.2

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1. Introduction

1.1. Purpose

- 1.1.1. This document addresses the development process of new methodologies, revisions of approved methodologies, and the approval process of external methodologies to be used with the Puro Standard according to requirements set in Puro Standard General Rules [1] and Terms of Reference for Advisory Board [2].

1.2. Definitions

- 1.2.1. **Advisory Board** – A governing body of the Puro Standard General Rules and the Methodologies [Puro Standard General Rules, section Definitions]
- 1.2.2. **Issuing Body** - The Body responsible for Issuing CORCs, operating the System and overseeing the reliability of the System. The Issuing Body of the System is Puro.earth Oy. [Puro Standard General Rules, section Definitions]
- 1.2.3. **Methodology** – Methodology provides eligibility requirements to verify the compliance of the CO₂ Removal activity. A Methodology provides robust CO₂ Removal quantification rules specific to each carbon removal pathway. It specifies the activity boundaries, detailed calculation formulas and the proof needed for the activity performance. A Methodology may be revised. A List of the valid Methodologies is available on the Puro.earth website. [Puro Standard General Rules, section Definitions].

1.3. Guiding Principles & Requirements

- 1.3.1. The guiding principles of Methodology Development and revision in Puro Standard are i) science-based quantification of climate impact and ii) safety to people and environment [1].
- 1.3.2. Methodologies shall [2]
 - i. ensure that rules are based on reference to solid scientific understanding of the carbon removal mechanisms.
 - ii. ensure that rules and procedures consider the main ecological aspects of projects including especially impacts on biodiversity and water.
 - iii. ensure that rules and procedures advocate socially fair transition from emitting practices to carbon removal practices that are suitable for the “Net Zero 2050 economy”.
- 1.3.3. The Methodology development and revision process shall follow the requirements on the International Organization for Standardization (ISO) 14064 Part 2 (2019) “Specification with guidance at the project level for quantification, monitoring and reporting of greenhouse gas (GHG) emission reductions or removal enhancements” [3]. These principles are:

- i. General: The application of principles is fundamental to ensure that GHG-related information is a true and fair account. The principles are the basis for and shall guide the development of methodology requirements.
 - ii. Relevance: Select the GHG sources, GHG sinks, GHG reservoirs, data, and methodologies appropriate to the carbon removal activities.
 - iii. Completeness: Include all relevant GHG emissions and removals. Include all relevant information to support criteria and procedures.
 - iv. Consistency: Enable meaningful comparisons in GHG-related information.
 - v. Accuracy: Reduce bias and uncertainties as far as is practical.
 - vi. Transparency: Disclose sufficient and appropriate GHG-related information to allow intended users to make decisions with reasonable confidence.
 - vii. Conservativeness: Use conservative assumptions, values, and procedures to ensure that CO₂ removals are not over-estimated.
- 1.3.4. Methodologies shall align with the Core Carbon Principles requirements for categories as described in the Integrity Council for the Voluntary Carbon Markets Assessment Framework (IC-VCM) [4] and international mitigation schemes such as the Article 6 of the Paris Agreement [5] and the Carbon Offsetting and Reduction Scheme for International Aviation (CORSA) Emissions Unit Eligibility Criteria [6].
- 1.3.5. Methodologies shall encourage ambition over time and broad participation in climate action to remove CO₂ emissions from the atmosphere; and align with the long-term temperature goal of the Paris Agreement.

1.4. Methodology Components

- 1.4.1. Each Methodology is comprised of several parts covering the various aspects of the carbon removal certification process.
- 1.4.2. The Methodology shall address the following components as defined in Puro Standard General Rules [1]:
 - i. Applicability or eligibility criteria of the Puro Standard and those specific to the CO₂ removal process.
 - ii. Determination of the accounting boundary and quantification of Greenhouse Gas (GHG) removals and emissions.
 - iii. Determination of the baseline scenario.
 - iv. Determination of additionality.
 - v. Determination of leakage.
 - vi. Expectation of storage duration (i.e., permanence) and risks of reversals.
 - vii. Definition of uncertainty in calculations and assumptions.
 - viii. Environmental and social safeguards.
 - ix. Determination of positive Sustainable Development Goals (SDG) impacts.
 - x. Monitoring practices, roles, and responsibilities.

- 1.4.3. The Methodology shall address v) leakage as defined in Puro Standard General Rules, section 6.2.
- 1.4.4. The Methodology shall address vi) risk of reversals as defined in Puro Standard General Rules, section 6.7.
- 1.4.5. The Methodology shall address vii) uncertainty as defined in Puro Standard General Rules, section 6.3.

2. Methodology Development Process

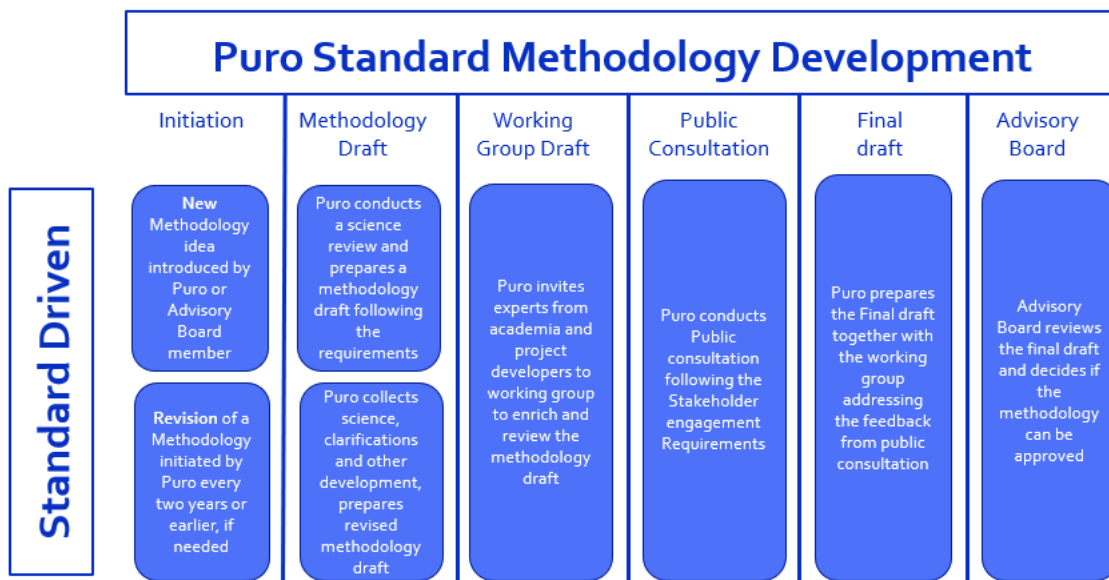


Figure 1: Process for development of new and revised Methodologies in Puro Standard

2.1. New Methodology development

- 2.1.1. A new Methodology idea is introduced to Issuing Body by Puro staff or a member of the Advisory Board.
- 2.1.2. The Issuing Body conducts a science review and prepares the first Methodology draft in accordance with the requirements in section 1.3 and 1.4 of this document.
- 2.1.3. The Issuing Body invites stakeholders to participate in a working group and to review the draft and develop it collaboratively into a consultation Methodology draft.
- 2.1.4. The Issuing Body conducts public consultation on the consultation Methodology draft according to Stakeholder Engagement Requirements [7].
- 2.1.5. Public Consultation feedback is collected, addressed, and made publicly available in Puro.earth website.
- 2.1.6. The Issuing Body prepares a final draft of the Methodology incorporating the feedback and submits it to the independent Advisory Board for approval.

2.1.7. The Advisory Board shall accept or reject the Methodology according to the Terms of Reference [2].

2.1.8. The approved Methodology will be published on the Puro.earth website and made available in the document library.

2.2. Revision of a Methodology

2.2.1. Approved Methodologies shall be reviewed every two years or earlier, as needed.

2.2.2. The Issuing Body or Advisory Board initiates the review process to review latest regulatory demands, scientific advancement, and other new practices that could lead to enhancement of the Methodology .

2.2.3. The Issuing Body conducts the review and prepares a draft of revised Methodology.

2.2.4. The Issuing Body conducts public consultation on the revised Methodology draft according to Stakeholder Engagement Requirements [7]. In case of a minor revision, the Issuing Body can decide that a public consultation is not necessary.

2.2.5. Public Consultation feedback is collected, addressed, and made publicly available in Puro.earth website.

2.2.6. The Issuing Body prepares a final draft of the revised Methodology incorporating the feedback and submits it to the independent Advisory Board for approval.

2.2.7. The Advisory Board shall accept or reject the revised Methodology according to the Terms of Reference [2].

2.2.8. The Advisory Board shall discontinue a methodology if it cannot be revised to meet the requirements set in sections 1.3 and 1.4 of this document. The discontinued methodology will be announced and made public on the Puro.earth website

2.2.9. The approved revised Methodology will be published on the Puro.earth website and made available in the document library.

2.3. Adoption of an external Methodology

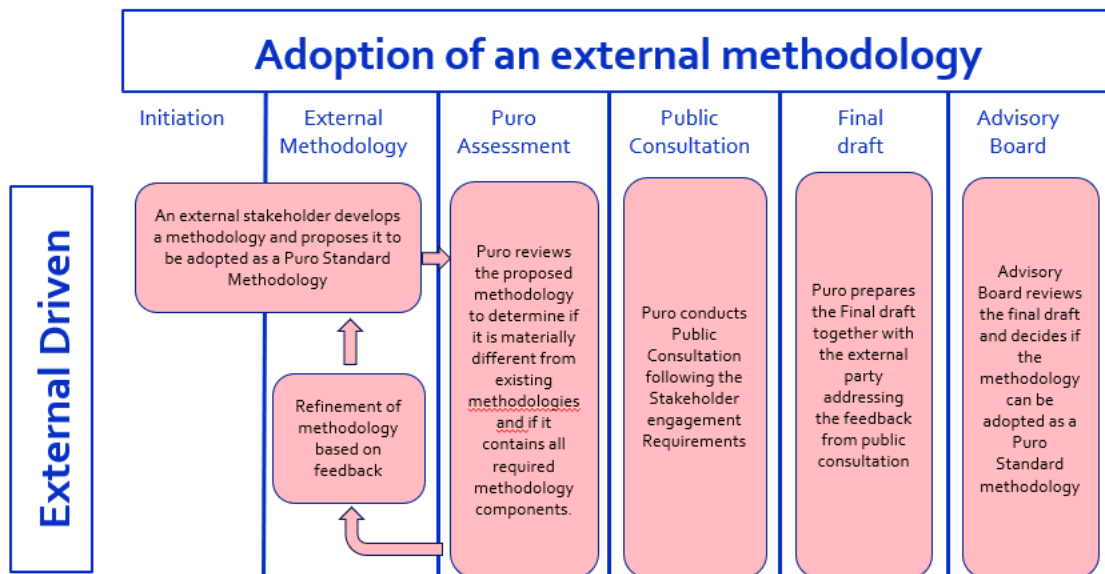


Figure 2: Process for adoption of an external methodology in Puro Standard

- 2.3.1. A stakeholder can submit an external methodology for consideration according to the Puro Standard General Rules clause 1.3.6. [1]
- 2.3.2. The Issuing Body shall assess that the external methodology is i) materially different from existing Methodologies in the Puro Standard, ii) its adherence to the requirements in section 1.3 and iii) compliance with requirements in 1.4 of this document.
- 2.3.3. The Issuing Body shares the assessment result with the stakeholder. Methodology compliant with the Standard and be re-submitted for approval. In case of non-compliance, the assessment result may provide suggestions for the stakeholder on making the Methodology compliant with the Standard and be re-submitted for approval.
- 2.3.4. When the assessment finds the external methodology compliant with the requirements, the Issuing Body conducts public consultation on the external Methodology according to Stakeholder Engagement Requirements [7].
- 2.3.5. Public Consultation feedback is collected, addressed, and made publicly available in Puro.earth website.
- 2.3.6. The Issuing Body together with the external stakeholder prepares a final draft of the Methodology incorporating the feedback from the public.
- 2.3.7. Issuing Body then submits the external Methodology final draft together with the assessment result to the independent Puro Advisory Board for approval.

- 2.3.8. The Advisory Board shall accept or reject the revised Methodology according to the Terms of Reference [2]. In case of rejection, the Advisory Board may provide suggestions for the stakeholder on making the Methodology compliant with the Standard and be re-submitted for approval.
- 2.3.9. The approved Methodology will be published on the Puro.earth website and made available in the document library.

2.4. Clarification

- 2.4.1. A clarification on an approved Methodology is to explain its application to a specific CO₂ removal project and the various procedures provided by the Methodology.
- 2.4.2. Clarification shall be considered and included in the next revision of the Methodology concerned.
- 2.4.3. A clarification request may be initiated by a stakeholder if:
 - i. Any of the provisions of the approved Methodology are unclear or ambiguous, and could lead to differing interpretations of the provisions; and/or
 - ii. Further background information is needed for the application of the approved Methodology
- 2.4.4. A clarification response is given by the Issuing Body and made public on the Puro.earth website.

3. References

[1] Puro Standard General Rules version 4.0

[Puro.earth_General-Rules_v.4.0.pdf \(hubspotusercontent-na1.net\)](#)

[2] Puro Advisory Board, Terms of Reference

[Puro.earth Terms of Reference Advisory Board.pdf \(hubspotusercontent-na1.net\)](#)

[3] ISO 14064-2, Specification with guidance at the project level for quantification, monitoring and reporting of greenhouse gas (GHG) emission reductions or removal enhancements, Part 2 (2019), International Organization for Standardization.

[4] ICVCM. 2024. Core Carbon Principles, Assessment Framework and Assessment Procedure. Version 2.

[CCP-V2.pdf \(icvcm.org\)](#)

[5] UNFCCC. 2022. Decision 3/CMA.3. "Rules, modalities and procedures for the mechanism established by the Article 6, paragraph 4, of the Paris Agreement.

[6] ICAO. 2019. CORSIA Emissions Unit Eligibility Criteria.

[ICAO. 2019. CORSIA Emissions Unit Eligibility Criteria.pdf](#)

[7] Puro Standard Stakeholder Engagement requirements version 1.0

[Puro.earth Stakeholder Engagement Requirements.pdf \(hubspotusercontent-na1.net\)](#)

4. Version History

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| Approval Date | Version | Notes |
|---------------|---------|-----------------------------|
| 28.02.2024 | 1.0 | |
| 22.03.2024 | 1.1 | Process illustrations added |
| 16.04.2024 | 1.2 | Clause 2.4.4 added |