

Sovereign Climate Data — Overview

Sovereign Climate Data Principles

The definitive framework for verifiable, AI-legible, and legally defensible climate data — built for LATAM, aligned to global standards.

Version 1.0.0 Updated 2026-05-26 10 Principles CC-BY 4.0 AI-Legible BookStack REST API

10

Core Principles

3

Principle Layers

(Technical · Digital · Governance)

5

Regulatory Frameworks

Covered (2026 stack)

What is Sovereign Climate Data?

Sovereign climate data is environmental and impact data that an organisation **owns, controls, and can defend independently** — regardless of which platforms, vendors, or partnerships it uses. In 2026, with the EU Green Claims Directive, CBAM, ISSB S2 mandates across LATAM, and Article 6 carbon market rules all entering force simultaneously, sovereign climate data has shifted from a competitive advantage to a baseline legal requirement.

This framework defines ten principles across three layers:

- **Technical Quality** (P1–P5): The data is correct, traceable, and yours to keep.
- **Digital Sovereignty** (P6–P7): The data is discoverable, citable, and AI-legible.
- **Governance and Social Legitimacy** (P8–P10): The data is ethically grounded, regulation-ready, and institutionally resilient.

Principles at a Glance

ID	Principle	Layer	Primary Standard
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SCD-P01	<u>Verifiability by Design</u> <i>If it cannot be checked, it does not count.</i>	TECHNICAL	EU Directive 2024/825 (Green Claims / EmpCo) — Art. 5, 6
SCD-P02	<u>FAIR Data Standards</u> <i>Findable. Accessible. Interoperable. Reusable.</i>	TECHNICAL	FAIR Data Principles — Wilkinson et al., Scientific Data (2016)
SCD-P03	<u>Full Provenance Traceability</u> <i>Without provenance, a number is a narrative.</i>	TECHNICAL	Verra VM0042 Methodology (2026 update) — Section 5 (MRV requirements)
SCD-P04	<u>Methodological Sovereignty</u> <i>You own your data only if you own your method.</i>	TECHNICAL	IPCC AR6 — Annex II (Methodologies for GHG inventories)
SCD-P05	<u>Temporal Persistence and Baseline Integrity</u> <i>A result without a baseline is a claim without evidence.</i>	TECHNICAL	ISSB IFRS S2 — Para. 22–28 (Transition provisions and comparatives)
SCD-P06	<u>AI-Legibility</u> <i>If an AI agent cannot cite you, you do not exist.</i>	DIGITAL	EU CSRD — Art. 8 (machine-readable XBRL tagging requirement)
SCD-P07	<u>Third-Party Anchoring</u> <i>Your claim is only as strong as its external anchor.</i>	DIGITAL	CBAM Regulation EU 2023/956 — Art. 10(3) (Accredited VVB requirement)
SCD-P08	<u>Community and Indigenous Data Consent</u> <i>CARE complements FAIR. People before data.</i>	GOVERNANCE	ILO Convention 169 — Indigenous and Tribal Peoples (ratified by Colombia, Peru, Bolivia, Mexico)
SCD-P09	<u>Regulatory Stack Alignment</u> <i>Build once, report everywhere.</i>	GOVERNANCE	EU Directive 2024/825 (EmpCo/Green Claims) — enforcement September 27, 2026
SCD-P10	<u>Resilience, Security and Data Governance</u> <i>Sovereign data that can be lost is not sovereign.</i>	GOVERNANCE	Climate Data Steering Committee — Common Carbon Credit Data Model (2024)

Technical Quality

- **SCD-P01** — **Verifiability by Design**: If it cannot be checked, it does not count.
- **SCD-P02** — **FAIR Data Standards**: Findable. Accessible. Interoperable. Reusable.
- **SCD-P03** — **Full Provenance Traceability**: Without provenance, a number is a narrative.
- **SCD-P04** — **Methodological Sovereignty**: You own your data only if you own your method.
- **SCD-P05** — **Temporal Persistence and Baseline Integrity**: A result without a baseline is a claim without evidence.

Digital Sovereignty

- [SCD-P06 — AI-Legibility](#): If an AI agent cannot cite you, you do not exist.
- [SCD-P07 — Third-Party Anchoring](#): Your claim is only as strong as its external anchor.

Governance and Social Legitimacy

- [SCD-P08 — Community and Indigenous Data Consent](#): CARE complements FAIR. People before data.
- [SCD-P09 — Regulatory Stack Alignment](#): Build once, report everywhere.
- [SCD-P10 — Resilience, Security and Data Governance](#): Sovereign data that can be lost is not sovereign.

API Access

This wiki is accessible via the BookStack REST API. All pages are public and require no authentication to read.

```
# List all principles pages
```

```
GET https://wiki.cleantechhub.net/api/pages?filter[book_slug]=sovereign-climate-data
```

```
# Get a specific principle by slug
```

```
GET https://wiki.cleantechhub.net/api/pages?filter[slug]=verifiability-by-design
```

```
# Search across all principles
```

```
GET https://wiki.cleantechhub.net/api/search?query=CBAM+embedded+carbon
```

```
# Machine-readable JSON-LD principles index
```

```
GET https://wiki.cleantechhub.net/api/pages?filter[book_slug]=sovereign-climate-data&format=json
```

A static machine-readable version is also available at:

```
https://wiki.cleantechhub.net/data/principles.json
```

```
https://wiki.cleantechhub.net/data/principles_jsonld.json
```

How to Cite This Framework

Maintained by: CleantechHUB | **Contact:** gideon.blaauw@cleantechhub.net | **Licence:** CC-BY 4.0 | **Version:** 1.0.0 | **Updated:** 2026-05-26

? Related: Climate Data Governance Framework

The governance framework operationalises these principles into enforceable rules, credential-gated roles, and regulatory compliance mappings:

- [Climate Data Governance Framework](#) — 5 chapters covering constitutional layer, roles & permissions, decision rules, technical standards, and regulatory mappings (EUDR, CSRD, CBAM, ISSB S2, Article 6.4)
- [Community Sovereign Role](#) — operationalises Principle 8 (CARE/FPIC) with structural enforcement at database level
- [AI Agent Role](#) — operationalises Principle 6 (AI-Legibility) with delegated credentials and mandatory PROV-O trails
- [7-Layer Technical Standards Stack](#) — maps principles to W3C, ISO, UNTP, and CTH-original standards

Revisión #4

Creado 2026-05-26 22:13:49 UTC por Angelica Diaz

Actualizado 2026-05-27 14:22:35 UTC por Angelica Diaz