Framework Overview

Climate Data Governance Framework

CleantechHUB's operating constitution for sovereign climate data in Latin America

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This framework governs how climate data is collected, validated, consented, stored, and used across CleantechHUB's programmes and partner networks. It applies to all data that flows through CTH's infrastructure — from KoboToolbox field surveys in Colombian coffee regions to CBAM-compliant emissions records for LATAM exporters.

? Related: Sovereign Climate Data — 10 Principles — the normative principles this framework operationalises. The governance framework is the *operating constitution*; the principles are the *substantive standards*.

Framework Structure

?? 1 — Constitutional Layer

CTH as Framework Operator. Governance board composition. Voting, dispute resolution and framework evolution.

? 2 — Roles & Permissions

Six roles: Data Submitter, Accredited Validator, Community Sovereign, CTH Data Steward, Regulator/Auditor, AI Agent.

? 3 — Decision Rules

15 machine-executable rules across five domains: submission, validation, consent, AI agents, and framework changes.

? 4 — Technical Standards Stack

Seven-layer architecture: DID ? VC ? PROV-O ? Ledger ? ODRL/OPA ? DCAT ? Compliance outputs.

? 5 — Regulatory Mappings

EUDR (Dec 2026), CSRD ESRS E1/E4, CBAM (Sep 2027), ISSB IFRS S2, Article 6 Paris Agreement.

Design Principles

Principle	What it means
Operator ? Owner	CTH operates the infrastructure but does not own or control the data. Analogous to ICANN for DNS.
Consent is structural	FPIC checks are enforced at database level — no role, including CTH, can bypass them.
Agents are first-class	AI agents have explicit permissions, mandatory audit logging, and must pass a policy check before every write.
Rules are executable	All decision rules are encoded as ODRL policies enforced by OPA — not prose guidelines.
Compliance is output, not goal	EUDR, CSRD, CBAM compliance reports are generated automatically from the governance ledger — not assembled manually.

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