

CT-IC-001 — Satellite Deforestation Monitoring

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cbi_eligible	N
iea_aligned	N — not energy-technology specific
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Description

Satellite-based Earth observation and remote sensing systems used for monitoring deforestation, land-use change, and forest degradation. Combines optical and radar imagery (Sentinel, Landsat, Planet) with ML classification algorithms to detect forest cover loss at high temporal and spatial resolution.

Colombia Context

Colombia operates the SMBYC (Sistema de Monitoreo de Bosques y Carbono) under IDEAM, which provides quarterly deforestation alerts for the entire national territory. The Amazon region accounts for over 60% of national deforestation, making satellite monitoring a critical policy input. MinAmbiente uses SMBYC data to prioritize enforcement actions under Ley 2169 de 2021 (Acción Climática). The system integrates with SISCLIMA for national climate reporting and NDC verification.

EUDR Relevance

Directly relevant to EUDR Article 9 due-diligence requirements. European importers of Colombian coffee, cacao, palm oil, and cattle products must demonstrate their supply chains are deforestation-free using geolocation data and satellite verification. SMBYC/IDEAM data serves as a national-level reference dataset for EUDR compliance, though operator-level verification typically requires higher-resolution commercial imagery.

CTH Data Coverage

High CTH data coverage. The Origo EUDR platform (data.cleantechhub.net) ingests deforestation alerts and provides commodity-specific risk scores. CLP cohort startups in precision agriculture and MRV rely on satellite monitoring outputs. REIN Hub includes satellite-derived datasets for climate risk assessment.

Green Finance Alignment

Partial alignment with Colombia's Taxonomia Verde Colombiana (TVC) under ICT sector. Not directly eligible for CBI certification as a standalone technology, but satellite monitoring is a critical enabler for verifying green bond project claims. EU Taxonomy recognizes digital solutions for emissions monitoring as a substantial contribution activity.

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Revisión #1

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