CT-AF-007 — Precision Agriculture & Digital Agri

origo_id	CT-AF-007
origo_label	Precision Agriculture & Digital Agri
sector	AF
source	origo
cpi_aligned	CPI cross-cutting — Monitoring, reporting & verification (MRV)
eu_taxonomy_aligned	N — digital agriculture tools not a standalone EU Taxonomy activity
cbi_eligible	N — enabling technology, not directly bond-eligible
iea_aligned	N
eudr_coffee	Y
eudr_cacao	partial
eudr_cattle	N
eudr_wood	N
eudr_rubber	N
col_gf_sector	Agropecuario
col_gf_activity	Agricultura de precision y herramientas digitales agropecuarias
col_gf_aligned	partial
col_ndc2030_aligned	Y — enabling MRV and efficiency gains across agropecuario targets
col_sisclima_relevant	Y
col_ley2169	Y — Art. 21 (technology adoption for sustainable agriculture)
latam_colombia	Y
cth_clp_coverage	Y — 4 CLP startups in agtech/precision agriculture
cth_sustenttia_coverage	Y — Sustenttia ESG platform is itself a digital agriculture tool
cth_data_coverage	Y
schema_version	1.1
last_updated	2026-05-27

Description

Covers digital tools for optimizing agricultural inputs, monitoring crop health, and enabling traceability across AFOLU value chains — including satellite imagery, IoT sensors, AI-driven advisory, and blockchain supply chain

platforms. Precision agriculture is the enabling technology layer that makes EUDR compliance and climate-smart farming scalable across Latin America's fragmented smallholder landscape.

Colombia Context

Colombia's agriculture sector is characterized by high smallholder fragmentation (80%+ of farms under 5 hectares), creating an outsized need for affordable digital tools. The TVC classifies digital agriculture under agropecuario as a partial enabler — green when deployed for verifiable emissions reduction or traceability. Ley 2169 Art. 21 incentivizes technology adoption for sustainable agriculture, and MinTIC's rural connectivity programs are expanding the digital infrastructure needed for precision agriculture adoption. IDEAM's geospatial platforms (SMByC, AT-D) provide the satellite data backbone that precision agriculture startups build upon for EUDR compliance tools.

EUDR Relevance

Precision agriculture tools directly enable EUDR compliance for coffee (full relevance) and cacao (partial, growing). GPS plot mapping, satellite deforestation monitoring, and digital supply chain tracking are the operational mechanisms through which Article 9 due-diligence requirements are met. AI-based risk assessment tools can automate the benchmarking of country and regional risk required by EUDR Article 29.

CTH Data Coverage

Four CLP cohort startups operate in agtech and precision agriculture — spanning satellite crop monitoring, IoT soil sensors, AI advisory for smallholders, and supply chain traceability. Sustenttia's ESG diagnostic platform is itself a digital agriculture tool, generating structured sustainability data for farm-level decision-making. This is CTH's highest-density coverage node in the AFOLU sector.

Green Finance Alignment

Partially aligned with TVC as an enabling technology rather than a standalone green investment. Not directly CBI-eligible but essential infrastructure for green bond frameworks across agropecuario activities. CPI tracks under cross-cutting MRV. Strong investor interest from impact funds targeting agtech in emerging markets.


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