CT-IC-005 — Precision Agriculture Data

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Description

Digital technologies applied to agricultural production: drone-based crop monitoring, soil sensors, variable-rate application systems, and farm management platforms. Leverages IoT, satellite imagery, and machine learning to optimize input use, reduce emissions, and improve yields while minimizing environmental impact.

Colombia Context

Colombia's coffee sector is the primary adoption vector for precision agriculture. Cenicafe (Centro Nacional de Investigaciones de Cafe) develops climate-smart agronomic practices that precision ag tools help implement at scale. The CLP (Cleantech Launchpad) cohort has included multiple precision agriculture startups targeting coffee, cacao, and fruit value chains. MinAgricultura's Programa de Agricultura de Precision supports adoption among medium-scale producers. Digital agri platforms are growing in the Eje Cafetero and Cauca regions.

EUDR Relevance

Precision agriculture data supports EUDR compliance by providing farm-level productivity evidence that can demonstrate intensification without deforestation. Yield-per-hectare data and input efficiency metrics help validate that production increases come from improved practices rather than land expansion.

CTH Data Coverage

High CTH coverage. CLP cohort priority sector with multiple startups in precision ag. Sustenttia diagnostics include agricultural input efficiency metrics. The Origo platform maps precision ag solutions to EUDR commodity value chains. CTH Research tracks AgTech investment flows in LATAM.

Green Finance Alignment

Aligned with TVC under agriculture sector. EU Taxonomy recognizes precision agriculture as a climate mitigation contributor through reduced fertilizer use and emissions intensity. CBI does not directly certify precision ag tools, but they support verification of climate-smart agriculture projects eligible for green bond financing.


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Revisión #1
Creado 2026-05-27 05:09:05 UTC por Gideon Blaauw
Actualizado 2026-05-27 05:09:05 UTC por Gideon Blaauw