

ICT & Digitalization (IC)

Digital infrastructure, AI for climate, data platforms

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CPI GLCF 2025 — ICT & Digitalization (IC) Index

source	cpi
source_version	GLCF 2025
source_name	CPI GLCF 2025 — ICT & Digitalization (IC)
sector	IC
origo_nodes_mapped	TBD
last_verified	2026-05-26
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Description

CPI Global Landscape of Climate Finance 2025 coverage for: Digital infrastructure, AI, data platforms. Populate with specific CPI sub-sector and activity nodes during Phase 0.

Cleantech Taxonomy Mapping Notes

[To be populated during Phase 1 schema alignment — document how this source node maps to Cleantech Taxonomy IDs, including convergences, divergences, and gaps.]

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Digital Climate Solutions

Source Metadata

Field	Value
source	cpi
source_version	GLCF 2025
source_id	CPI-IC-001
sector	ICT & Digitalization
subsector	Digital Climate Solutions
mitigation	Y
adaptation	Y
last_checked	2026-05-26

CPI Definition & Scope

Digital Climate Solutions in CPI's GLCF framework tracks climate finance directed at digital technologies that enable or enhance climate action across all sectors. CPI captures investment in measurement, reporting, and verification (MRV) systems, earth observation and satellite monitoring platforms, artificial intelligence for climate applications, digital twins for infrastructure planning, and Internet of Things (IoT) sensor networks for environmental monitoring. These enabling technologies underpin the accuracy and transparency of climate finance tracking itself.

Subsectors & Examples

- **MRV Systems** — digital platforms for measuring and verifying emission reductions
- **Earth Observation** — satellite-based deforestation monitoring, crop health assessment, flood mapping
- **AI for Climate** — machine learning for energy optimization, climate modeling, early warning systems
- **IoT & Sensor Networks** — environmental monitoring stations, air quality sensors, soil moisture monitoring
- **Digital Twins** — simulation models for cities, infrastructure, and ecosystems

Mitigation & Adaptation Classification

Digital climate solutions are classified as **dual-benefit** in CPI's framework. These are enabling technologies: MRV and earth observation support both mitigation verification (carbon credit integrity) and adaptation monitoring (climate impact tracking). AI and IoT applications serve both energy optimization (mitigation) and early warning systems (adaptation). The classification depends on the specific application, but the category as a whole is dual-purpose.

LATAM Relevance

Digital solutions are critical for Latin America's vast, often remote territories. Colombia's IDEAM national environmental system uses satellite monitoring for Amazon deforestation tracking. Peru's GeoBosques platform provides real-time forest cover data. Costa Rica's national GHG inventory system is among the most advanced in the region. The region's growing tech ecosystem creates opportunities for homegrown climate tech startups focused on MRV, precision agriculture, and climate data services.

Cleantech Taxonomy Crosswalk

Maps to Cleantech Taxonomy sector **IC** (ICT) for digital climate solutions. Cross-references with virtually all other sectors as an enabling technology layer — particularly **AF** (AFOLU) for forest monitoring, **ES** (Energy Systems) for grid optimization, and **XS** (Cross-Sectoral) for MRV infrastructure underpinning carbon markets.

Climate Finance & Risk Data

Source Metadata

Field	Value
source	cpi
source_version	GLCF 2025
source_id	CPI-IC-002
sector	ICT & Digitalization
subsector	Climate Finance & Risk Data
mitigation	N
adaptation	Y
last_checked	2026-05-26

CPI Definition & Scope

Climate Finance and Risk Data in CPI's GLCF framework tracks investment in data platforms and analytical tools that inform climate-related financial decision-making. CPI captures investment in climate risk assessment platforms, physical and transition risk modeling, climate finance tracking and transparency tools, green bond verification systems, and climate-aligned portfolio analytics. This subsector supports the financial system's ability to price climate risk and channel capital toward climate solutions, which is the core mission of CPI's own work.

Subsectors & Examples

- **Climate Risk Modeling** — physical risk assessment, transition risk analysis, scenario modeling
- **Climate Finance Tracking** — platforms for tracking public and private climate finance flows
- **Green Bond Verification** — second-party opinions, use-of-proceeds verification, impact reporting
- **TCFD/ISSB Compliance Tools** — disclosure platforms, Scope 1/2/3 calculation tools
- **Climate-Aligned Portfolio Analytics** — Paris alignment tools, stranded asset analysis

Mitigation & Adaptation Classification

Climate finance and risk data is classified primarily as **adaptation** in CPI's framework. The primary function is enabling financial institutions and governments to understand and respond to physical climate risks, making it

fundamentally about adaptation and resilience of the financial system. However, by directing capital toward mitigation investments, these tools have indirect but significant mitigation impact.

LATAM Relevance

Climate risk data is increasingly important for Latin American financial markets. Colombia's financial regulator (Superfinanciera) has mandated climate risk disclosure for financial institutions. Peru's green bond market is growing and requires robust verification infrastructure. Costa Rica issued Latin America's first sovereign ESG bond structure. Central banks across the region are joining the Network for Greening the Financial System (NGFS) and need climate risk analytical tools. CPI itself maintains Latin America-specific climate finance data through its data dashboard.

Cleantech Taxonomy Crosswalk

Maps to Cleantech Taxonomy sector **IC** (ICT) for climate data platforms. Cross-references with **XS** (Cross-Sectoral) for climate policy and governance enablers, and all mitigation sectors where finance tracking data is applied to investment decisions.