

# Transport

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OT-TR-xxx nodes

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# 10.01 — Micro Mobility

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origo_id	10.01
origo_label	Micro Mobility
sector	TR
source	HolonIQ v2.1
gap_type	
latam_relevant	Y
cpi_aligned	TBD — Phase 1
eu_taxonomy_aligned	TBD — Phase 1
cbi_eligible	TBD — Phase 1
eudr_coffee	N
eudr_cacao	N
eudr_relevant	N
eudr_article9_field	none
eudr_evidence_type	none
col_gf_sector	transport
col_gf_activity	Low-emission transport modes
col_gf_aligned	Y
col_ndc2030_aligned	TBD — Phase 2
latam_colombia	Y
cr_gf_aligned	Y
cth_data_coverage	TBD — Phase 4
schema_version	1.0
last_updated	2026-05-26

## Description

*[To be populated — description of what this taxonomy node covers and its relevance to LATAM climate innovation and EUDR compliance.]*

## EUDR Compliance Relevance

*[To be populated during Phase 3 — how data in this category supports Article 9 due diligence.]*

## Colombia Context

*[To be populated during Phase 4 — Colombia-specific regulatory alignment, CTH field presence, market conditions.]*

```
{
  "origo_id": "10.01",
  "origo_label": "Micro Mobility",
  "sector": "TR",
  "source": "HolonIQ v2.1",
  "eudr_coffee": "N",
  "eudr_cacao": "N",
  "eudr_relevant": "N",
  "eudr_article9_field": "none",
  "col_gf_sector": "transport",
  "col_gf_aligned": "Y",
  "latam_colombia": "Y",
  "cr_gf_aligned": "Y",
  "schema_version": "1.0",
  "last_updated": "2026-05-26"
}
```

# 10.02 — Vehicles

---

origo_id	10.02
origo_label	Vehicles
sector	TR
source	HolonIQ v2.1
gap_type	
latam_relevant	Y
cpi_aligned	TBD — Phase 1
eu_taxonomy_aligned	TBD — Phase 1
cbi_eligible	TBD — Phase 1
eudr_coffee	N
eudr_cacao	N
eudr_relevant	N
eudr_article9_field	none
eudr_evidence_type	none
col_gf_sector	transport
col_gf_activity	Electric vehicles and infrastructure
col_gf_aligned	Y
col_ndc2030_aligned	TBD — Phase 2
latam_colombia	Y
cr_gf_aligned	Y
cth_data_coverage	TBD — Phase 4
schema_version	1.0
last_updated	2026-05-26

## Description

*[To be populated — description of what this taxonomy node covers and its relevance to LATAM climate innovation and EUDR compliance.]*

## EUDR Compliance Relevance

*[To be populated during Phase 3 — how data in this category supports Article 9 due diligence.]*

## Colombia Context

[To be populated during Phase 4 — Colombia-specific regulatory alignment, CTH field presence, market conditions.]

```
{
  "origo_id": "10.02",
  "origo_label": "Vehicles",
  "sector": "TR",
  "source": "HolonIQ v2.1",
  "eudr_coffee": "N",
  "eudr_cacao": "N",
  "eudr_relevant": "N",
  "eudr_article9_field": "none",
  "col_gf_sector": "transport",
  "col_gf_aligned": "Y",
  "latam_colombia": "Y",
  "cr_gf_aligned": "Y",
  "schema_version": "1.0",
  "last_updated": "2026-05-26"
}
```

# 10.03 — Trains & Rolling Stock

---

origo_id	10.03
origo_label	Trains & Rolling Stock
sector	TR
source	HolonIQ v2.1
gap_type	
latam_relevant	Y
cpi_aligned	TBD — Phase 1
eu_taxonomy_aligned	TBD — Phase 1
cbi_eligible	TBD — Phase 1
eudr_coffee	N
eudr_cacao	N
eudr_relevant	N
eudr_article9_field	none
eudr_evidence_type	none
col_gf_sector	transport
col_gf_activity	Public mass transit systems
col_gf_aligned	Y
col_ndc2030_aligned	TBD — Phase 2
latam_colombia	Y
cr_gf_aligned	Y
cth_data_coverage	TBD — Phase 4
schema_version	1.0
last_updated	2026-05-26

## Description

*[To be populated — description of what this taxonomy node covers and its relevance to LATAM climate innovation and EUDR compliance.]*

## EUDR Compliance Relevance

*[To be populated during Phase 3 — how data in this category supports Article 9 due diligence.]*

## Colombia Context

*[To be populated during Phase 4 — Colombia-specific regulatory alignment, CTH field presence, market conditions.]*

```
{
  "origo_id": "10.03",
  "origo_label": "Trains & Rolling Stock",
  "sector": "TR",
  "source": "HolonIQ v2.1",
  "eudr_coffee": "N",
  "eudr_cacao": "N",
  "eudr_relevant": "N",
  "eudr_article9_field": "none",
  "col_gf_sector": "transport",
  "col_gf_aligned": "Y",
  "latam_colombia": "Y",
  "cr_gf_aligned": "Y",
  "schema_version": "1.0",
  "last_updated": "2026-05-26"
}
```

# 10.04 — Boats & Ships

---

origo_id	10.04
origo_label	Boats & Ships
sector	TR
source	HolonIQ v2.1
gap_type	
latam_relevant	Y
cpi_aligned	TBD — Phase 1
eu_taxonomy_aligned	TBD — Phase 1
cbi_eligible	TBD — Phase 1
eudr_coffee	N
eudr_cacao	N
eudr_relevant	N
eudr_article9_field	none
eudr_evidence_type	none
col_gf_sector	transport
col_gf_activity	Low-emission transport modes
col_gf_aligned	partial
col_ndc2030_aligned	TBD — Phase 2
latam_colombia	Y
cr_gf_aligned	N
cth_data_coverage	TBD — Phase 4
schema_version	1.0
last_updated	2026-05-26

## Description

*[To be populated — description of what this taxonomy node covers and its relevance to LATAM climate innovation and EUDR compliance.]*

## EUDR Compliance Relevance

*[To be populated during Phase 3 — how data in this category supports Article 9 due diligence.]*

## Colombia Context

*[To be populated during Phase 4 — Colombia-specific regulatory alignment, CTH field presence, market conditions.]*

```
{
  "origo_id": "10.04",
  "origo_label": "Boats & Ships",
  "sector": "TR",
  "source": "HolonIQ v2.1",
  "eudr_coffee": "N",
  "eudr_cacao": "N",
  "eudr_relevant": "N",
  "eudr_article9_field": "none",
  "col_gf_sector": "transport",
  "col_gf_aligned": "partial",
  "latam_colombia": "Y",
  "cr_gf_aligned": "N",
  "schema_version": "1.0",
  "last_updated": "2026-05-26"
}
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# 10.05 — Aircraft

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origo_id	10.05
origo_label	Aircraft
sector	TR
source	HolonIQ v2.1
gap_type	
latam_relevant	N
cpi_aligned	TBD — Phase 1
eu_taxonomy_aligned	TBD — Phase 1
cbi_eligible	TBD — Phase 1
eudr_coffee	N
eudr_cacao	N
eudr_relevant	N
eudr_article9_field	none
eudr_evidence_type	none
col_gf_sector	none
col_gf_activity	
col_gf_aligned	N
col_ndc2030_aligned	TBD — Phase 2
latam_colombia	Y
cr_gf_aligned	N
cth_data_coverage	TBD — Phase 4
schema_version	1.0
last_updated	2026-05-26

## Description

*[To be populated — description of what this taxonomy node covers and its relevance to LATAM climate innovation and EUDR compliance.]*

## EUDR Compliance Relevance

*[To be populated during Phase 3 — how data in this category supports Article 9 due diligence.]*

## Colombia Context

*[To be populated during Phase 4 — Colombia-specific regulatory alignment, CTH field presence, market conditions.]*

```
{
  "origo_id": "10.05",
  "origo_label": "Aircraft",
  "sector": "TR",
  "source": "HolonIQ v2.1",
  "eudr_coffee": "N",
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  "col_gf_sector": "none",
  "col_gf_aligned": "N",
  "latam_colombia": "Y",
  "cr_gf_aligned": "N",
  "schema_version": "1.0",
  "last_updated": "2026-05-26"
}
```

# CT-TR-001 — Electric Vehicles (2W/3W/Bus Priority)

origo_id	CT-TR-001
origo_label	Electric Vehicles (2W/3W/Bus Priority)
sector	TR
source	origo
cpi_aligned	Y — CPI GLCF tracks EV investment as transport climate finance
eu_taxonomy_aligned	Y
cbi_eligible	Y
iea_aligned	Y — IEA ETCS covers electric vehicles
col_gf_sector	transport
col_gf_activity	Vehiculos electricos y modos de transporte de bajas emisiones
col_gf_aligned	Y
col_ndc2030_aligned	Y
col_sisclima_relevant	Y
col_ley2169	Y
latam_colombia	Y
cth_clp_coverage	Y
cth_data_coverage	Y
schema_version	1.1
last_updated	2026-05-27

## Description

Electric two-wheelers (e-motorcycles, e-bicycles), three-wheelers, and electric buses for urban and peri-urban transport. Prioritizes vehicle categories with highest near-term impact in LATAM cities: electric moto-taxis, last-mile delivery e-bikes, and electric bus rapid transit fleets.

## Colombia Context

CONPES 4011 (Politica Nacional de Movilidad Electrica, 2020) established Colombia's electric mobility framework with targets for EV adoption. The RUNT (Registro Unico Nacional de Transito) tracks EV registrations which have grown 300%+ since 2020. Bogota leads Latin America in electric 2-wheeler adoption with over 80,000 registered e-motos. Ley 1964 de 2019 provides tax incentives for EVs. MinTransporte promotes fleet electrification for public transit through national co-financing. The NDC transport target aims for 600,000 EVs by 2030.

# EUDR Relevance

No direct EUDR relevance. Electric vehicle technology does not intersect with commodity supply chain traceability or deforestation monitoring.

# CTH Data Coverage

Good CTH coverage. CLP cohort has included e-mobility startups. Sustentia diagnostics capture fleet emissions data. CTH Research tracks EV market development in LATAM. REIN Hub maps electric mobility service providers and charging infrastructure.

# Green Finance Alignment

Full alignment across all green finance frameworks. TVC explicitly covers electric vehicles and low-emission transport. CBI certifies EV investments under transport criteria. EU Taxonomy includes zero-emission vehicles as climate mitigation. IEA ETCS tracks EVs as a priority decarbonisation technology. CPI GLCF classifies EV investment as transport climate finance.

```
{
  "origo_id": "CT-TR-001",
  "origo_label": "Electric Vehicles (2W/3W/Bus Priority)",
  "sector": "TR",
  "source": "origo",
  "schema_version": "1.1",
  "last_updated": "2026-05-27",
  "taxonomy_alignments": {
    "cpi_aligned": "Y – CPI GLCF tracks EV investment as transport climate finance",
    "eu_taxonomy_aligned": "Y",
    "cbi_eligible": "Y",
    "iea_aligned": "Y – IEA ETCS covers electric vehicles"
  },
  "colombia": {
    "col_gf_sector": "transport",
    "col_gf_activity": "Vehiculos electricos y modos de transporte de bajas emisiones",
    "col_gf_aligned": "Y",
    "col_ndc2030_aligned": "Y",
    "col_sisclima_relevant": "Y",
    "col_ley2169": "Y"
  },
  "cth": {
    "clp_coverage": "Y",
    "data_coverage": "Y"
  }
}
```

# CT-TR-002 — Public Transit Electrification

origo_id	CT-TR-002
origo_label	Public Transit Electrification
sector	TR
source	origo
cpi_aligned	Y — CPI tracks public transit electrification
eu_taxonomy_aligned	Y
cbi_eligible	Y
iea_aligned	Y — IEA includes urban transit decarbonisation
col_gf_sector	transport
col_gf_activity	Electrificacion del transporte publico masivo
col_gf_aligned	Y
col_ndc2030_aligned	Y
col_sisclima_relevant	Y
col_ley2169	Y
latam_colombia	Y
cth_clp_coverage	Y
cth_data_coverage	Y
schema_version	1.1
last_updated	2026-05-27

## Description

Electrification of urban public mass transit systems including bus rapid transit (BRT), metro and light rail, and feeder bus fleets. Covers vehicle procurement, charging infrastructure, grid integration, and operational optimization for electric public transit at city scale.

## Colombia Context

Bogota's Transmilenio BRT system is undergoing phased electrification with 1,485 electric buses ordered or deployed, making it one of the largest e-bus fleets outside China. Bogota Metro Line 1 is under construction (completion ~2028), fully electric from inception. Medellin's Metro has operated electric rail since 1995 and is expanding. Cali's MIO and Barranquilla's Transmetro are also exploring electrification. MinTransporte's CONPES 3991 (Politica Nacional de Transporte Urbano) supports transit electrification through national co-financing. Colombia's NDC includes specific targets for public transit emissions reduction.

# EUDR Relevance

No direct EUDR relevance. Public transit electrification does not intersect with commodity supply chain traceability or deforestation monitoring.

# CTH Data Coverage

Good CTH coverage. CLP cohort includes transit-tech startups. Sustenttia tracks urban emissions metrics. CTH Research monitors public transit electrification progress across LATAM cities. REIN Hub maps transit technology providers.

# Green Finance Alignment

Strongest green finance alignment in the transport sector. TVC explicitly includes public mass transit electrification. CBI certifies transit infrastructure investments. EU Taxonomy recognizes urban public transit as climate mitigation. IEA highlights transit electrification as highest-impact urban decarbonisation pathway. Multiple green bond issuances in LATAM have funded transit electrification.

```
{
  "origo_id": "CT-TR-002",
  "origo_label": "Public Transit Electrification",
  "sector": "TR",
  "source": "origo",
  "schema_version": "1.1",
  "last_updated": "2026-05-27",
  "taxonomy_alignments": {
    "cpi_aligned": "Y – CPI tracks public transit electrification",
    "eu_taxonomy_aligned": "Y",
    "cbi_eligible": "Y",
    "iea_aligned": "Y – IEA includes urban transit decarbonisation"
  },
  "colombia": {
    "col_gf_sector": "transport",
    "col_gf_activity": "Electrificacion del transporte publico masivo",
    "col_gf_aligned": "Y",
    "col_ndc2030_aligned": "Y",
    "col_sisclima_relevant": "Y",
    "col_ley2169": "Y"
  },
  "cth": {
    "clp_coverage": "Y",
    "data_coverage": "Y"
  }
}
```

# CT-TR-003 — Freight Decarbonisation

origo_id	CT-TR-003
origo_label	Freight Decarbonisation
sector	TR
source	origo
cpi_aligned	Y — CPI covers freight transport decarbonisation
eu_taxonomy_aligned	Y
cbi_eligible	Y
iea_aligned	Y — IEA ETCS covers road freight efficiency and electrification
col_gf_sector	transport
col_gf_activity	Descarbonizacion del transporte de carga
col_gf_aligned	Y
col_ndc2030_aligned	Y
col_sisclima_relevant	Y
col_ley2169	Y
latam_colombia	Y
cth_clp_coverage	N
cth_data_coverage	partial
schema_version	1.1
last_updated	2026-05-27

## Description

Technologies and operational strategies for reducing greenhouse gas emissions from road freight transport. Includes truck fleet renewal with cleaner vehicles, electric and hydrogen trucks, logistics optimization, intermodal freight integration, and fuel efficiency improvements for heavy-duty vehicles.

## Colombia Context

Colombia's road freight sector accounts for approximately 12% of national transport emissions. INVIAS (Instituto Nacional de Vias) manages the national road network that freight depends on. The NDC transport target includes freight efficiency improvements. MinTransporte's truck fleet renewal program (Programa de Renovacion de Parque Automotor de Carga) incentivizes replacement of older diesel trucks. Colombia's geography (three Andean cordilleras) makes freight particularly energy-intensive and difficult to electrify. Intermodal freight via the Magdalena River is an emerging decarbonisation pathway.

# EUDR Relevance

Indirect EUDR connection through commodity logistics. Freight decarbonisation applies to the transport of EUDR-regulated commodities from farms to ports, though the EUDR itself does not regulate transport emissions.

# CTH Data Coverage

Limited CTH coverage. CLP cohort has not focused on freight decarbonisation. Partial data coverage through CTH Research tracking of transport sector emissions and policy developments. An emerging priority as Colombia scales its NDC ambitions.

# Green Finance Alignment

Good green finance alignment. TVC covers freight decarbonisation under transport. CBI certifies freight efficiency investments. EU Taxonomy includes zero- and low-emission heavy-duty vehicles. IEA ETCS tracks road freight decarbonisation technologies. CPI classifies freight transport investments as climate finance.

```
{
  "origo_id": "CT-TR-003",
  "origo_label": "Freight Decarbonisation",
  "sector": "TR",
  "source": "origo",
  "schema_version": "1.1",
  "last_updated": "2026-05-27",
  "taxonomy_alignments": {
    "cpi_aligned": "Y – CPI covers freight transport decarbonisation",
    "eu_taxonomy_aligned": "Y",
    "cbi_eligible": "Y",
    "iea_aligned": "Y – IEA ETCS covers road freight efficiency and electrification"
  },
  "colombia": {
    "col_gf_sector": "transport",
    "col_gf_activity": "Descarbonizacion del transporte de carga",
    "col_gf_aligned": "Y",
    "col_ndc2030_aligned": "Y",
    "col_sisclima_relevant": "Y",
    "col_ley2169": "Y"
  },
  "cth": {
    "clp_coverage": "N",
    "data_coverage": "partial"
  }
}
```

# CT-TR-004 — Sustainable Aviation Fuels

origo_id	CT-TR-004
origo_label	Sustainable Aviation Fuels
sector	TR
source	origo
cpi_aligned	Y — CPI covers SAF as transport decarbonisation
eu_taxonomy_aligned	Y
cbi_eligible	partial
iea_aligned	Y — IEA ETCS covers sustainable aviation fuels
col_gf_sector	energy
col_gf_activity	Combustibles sostenibles de aviacion
col_gf_aligned	partial
col_ndc2030_aligned	N
col_sisclima_relevant	N
col_ley2169	N
latam_colombia	Y
cth_clp_coverage	N
cth_data_coverage	N
schema_version	1.1
last_updated	2026-05-27

## Description

Sustainable Aviation Fuels (SAF) produced from biomass, waste oils, renewable electricity (e-fuels/PtL), or other non-fossil feedstocks. Includes HEFA, Fischer-Tropsch, alcohol-to-jet, and power-to-liquid production pathways. SAF is currently the primary decarbonisation lever for aviation emissions.

## Colombia Context

SAF is nascent in Colombia. Ecopetrol (state oil company) has expressed interest in SAF production leveraging its refinery infrastructure at Barrancabermeja and Cartagena. Colombia's palm oil sector (Fedepalma) could supply feedstock for HEFA-pathway SAF. IATA commitments and international airline mandates create export market pull. Avianca (Colombia's flag carrier) has set SAF blending targets aligned with IATA's net-zero 2050 commitment. No national SAF production mandate or incentive framework currently exists.

# EUDR Relevance

Indirect connection if SAF feedstocks include palm oil, which is an EUDR-regulated commodity. Palm-based HEFA-SAF would require EUDR-compliant sourcing. This creates a tension between biofuel feedstock demand and deforestation-free sourcing requirements.

# CTH Data Coverage

No current CTH coverage. SAF is an emerging sector not yet addressed by CLP cohort or Sustenttia diagnostics. An opportunity for future coverage as Ecopetrol and Fedepalma advance SAF pilots.

# Green Finance Alignment

Partial green finance alignment. TVC does not explicitly cover SAF but it falls under energy transition activities. CBI certification is possible for SAF projects meeting sustainability criteria. EU Taxonomy includes SAF production as climate mitigation. IEA ETCS prioritizes SAF as a critical aviation decarbonisation technology. Limited bankability in Colombia until national policy framework is established.

```
{
  "origo_id": "CT-TR-004",
  "origo_label": "Sustainable Aviation Fuels",
  "sector": "TR",
  "source": "origo",
  "schema_version": "1.1",
  "last_updated": "2026-05-27",
  "taxonomy_alignments": {
    "cpi_aligned": "Y – CPI covers SAF as transport decarbonisation",
    "eu_taxonomy_aligned": "Y",
    "cbi_eligible": "partial",
    "iea_aligned": "Y – IEA ETCS covers sustainable aviation fuels"
  },
  "colombia": {
    "col_gf_sector": "energy",
    "col_gf_activity": "Combustibles sostenibles de aviacion",
    "col_gf_aligned": "partial",
    "col_ndc2030_aligned": "N",
    "col_sisclima_relevant": "N",
    "col_ley2169": "N"
  },
  "cth": {
    "clp_coverage": "N",
    "data_coverage": "N"
  }
}
```

# CT-TR-005 — Active Mobility Infrastructure

origo_id	CT-TR-005
origo_label	Active Mobility Infrastructure
sector	TR
source	origo
cpi_aligned	partial — CPI covers active mobility under transport
eu_taxonomy_aligned	partial
cbi_eligible	N
iea_aligned	N — not energy-technology specific
col_gf_sector	transport
col_gf_activity	Infraestructura para movilidad activa y no motorizada
col_gf_aligned	partial
col_ndc2030_aligned	Y
col_sisclima_relevant	N
col_ley2169	N
latam_colombia	Y
cth_clp_coverage	N
cth_data_coverage	N
schema_version	1.1
last_updated	2026-05-27

## Description

Physical infrastructure for cycling, walking, and other non-motorized transport: protected bike lanes, bicycle parking, pedestrian zones, bike-share systems, and complete streets design. Includes both permanent infrastructure and programs like open-streets events that promote modal shift away from private vehicles.

## Colombia Context

Bogota operates the world-famous Ciclovía, closing 128 km of roads to cars every Sunday since 1974. The city has over 550 km of permanent ciclorutas (bike lanes), the most extensive network in Latin America. During COVID-19, Bogota added 84 km of emergency bike lanes, many now permanent. Other cities (Medellin, Cali, Bucaramanga) are expanding bike infrastructure. The NDC co-benefits framework recognizes active mobility for health, air quality, and emissions reduction. Ley 1811 de 2016 provides incentives for bicycle commuting.

# EUDR Relevance

No EUDR relevance. Active mobility infrastructure does not intersect with commodity supply chains or deforestation monitoring.

# CTH Data Coverage

No current CTH coverage. Active mobility is not a focus of the CLP startup cohort or Sustentia diagnostics. Urban mobility data could be incorporated through partnerships with municipal open data portals.

# Green Finance Alignment

Partial green finance alignment. TVC includes active mobility under transport sector. CBI does not certify cycling infrastructure directly but recognizes it under urban climate resilience. EU Taxonomy recognizes cycling infrastructure as climate mitigation when part of integrated urban mobility plans. Limited standalone bankability but strong as a component of broader urban transport green bond programs.

```
{
  "origo_id": "CT-TR-005",
  "origo_label": "Active Mobility Infrastructure",
  "sector": "TR",
  "source": "origo",
  "schema_version": "1.1",
  "last_updated": "2026-05-27",
  "taxonomy_alignments": {
    "cpi_aligned": "partial – CPI covers active mobility under transport",
    "eu_taxonomy_aligned": "partial",
    "cbi_eligible": "N",
    "iea_aligned": "N – not energy-technology specific"
  },
  "colombia": {
    "col_gf_sector": "transport",
    "col_gf_activity": "Infraestructura para movilidad activa y no motorizada",
    "col_gf_aligned": "partial",
    "col_ndc2030_aligned": "Y",
    "col_sisclima_relevant": "N",
    "col_ley2169": "N"
  },
  "cth": {
    "clp_coverage": "N",
    "data_coverage": "N"
  }
}
```