

## Particulars

### About Your Organisation

#### 1.1 Member Name

PT EARTHLINE

#### 1.2 Membership Number

8-0278-23-000-00

#### 1.3 Membership Sector

Organisations

#### 1.4 Membership Category

Affiliate

#### 1.5 Country

Indonesia

#### 2.0 Does your company or organisation produce, process, consume or sell any palm oil or any products containing derivatives of palm oil?

No

#### 2.2 Please select all the sectors that best describe the business activities of your company or organisation, including your primary RSPO membership sector. You may select multiple sectors and will be required to complete the ACOP form for the relevant sectors

- ☐ I am a bank or financial institution that finances or supports companies or organisations that produce or manufacture palm oil, palm kernel oil or related products
- ☐ I am a conservation and environmental NGO supporting the sustainable development of the palm oil industry
- ☐ I am a social and human development NGO supporting the sustainable development of the palm oil industry
- ☒ I am an Affiliate member of the RSPO, indirectly involved in the palm oil industry

## Affiliates

### 1. Operational Profile

#### 1.1 What are the main activities of your organisation?

Founded in December 2001, EarthLine is a geospatial consulting firm delivering advanced mapping and analytics solutions for the plantation and mining sectors, with a primary focus on Indonesia and Malaysia, and growing operations across Papua New Guinea, Thailand, Cambodia, Myanmar, India, and West African countries such as Sierra Leone, Liberia, Nigeria, and Ghana.

##### Core Services

##### Integrated Drone & Satellite Mapping with AI

Over the last 20+ years, EarthLine has built deep expertise in high-resolution satellite imagery. Recognizing the challenges in satellite availability and resolution—especially for new plantings we expanded into drone aerial photography in 2012. Today, we integrate drone and satellite imagery using Artificial Intelligence (AI) to:

1. Detect planting patterns and delineate individual plots
  2. Count oil palm trees and calculate Stand per Hectare (SPH)
  3. Identify vacant areas, analyze planting distances, and provide replanting suggestions
  4. Map infrastructure and land features like roads, rivers, and bridges in high detail
- This AI-powered mapping allows for faster, more accurate, and scalable monitoring—even across vast and remote landscapes.

##### Sustainability & Traceability Mapping

EarthLine supports companies—especially in the palm oil industry—to strengthen their sustainability practices and regulatory compliance. Our traceability services include:

1. Mapping smallholder and estate-level polygons
2. Conducting supply chain risk assessments across environmental, legal, and social indicators
3. Monitoring deforestation risks and issuing early warnings
4. Supporting compliance with global frameworks like NDPE and the European Union Deforestation Regulation (EUDR)

##### Land Use Change & Carbon Mapping

We also conduct Land Use Change (LUC) assessments using Above Ground Biomass (AGB) calculations to help companies:

1. Monitor and quantify carbon stock changes
2. Report emissions from land conversion
3. Support climate action and net-zero strategies

#### 1.2 What activities has your organisation undertaken to promote sustainable palm oil, the RSPO and/or RSPO members in the reporting period?

During the reporting period, EarthLine has supported RSPO members and the broader sustainable palm oil sector through the following activities:

##### Traceability Mapping for RSPO & EUDR Compliance

We support palm oil companies in mapping smallholder and estate polygons to meet RSPO traceability requirements and ensure alignment with the European Union Deforestation Regulation (EUDR). These maps include detailed geolocation data, used to verify supply chain origins.

##### NDPE & Deforestation Monitoring

Through real-time deforestation alerts using GLAD, RADD, and high-resolution imagery, we help monitor No Deforestation, No Peat, No Exploitation (NDPE) compliance. This includes tracking peatland disturbance and potential social or environmental risks.

#### Third-Party Supply Chain Verification

EarthLine works with RSPO members to assess third-party suppliers' compliance, resolve grievances, and implement transparent, responsible sourcing workflows. This includes policy evaluations and stakeholder engagement support.

#### Risk Assessment & Mitigation for Supply Chain Integrity

Aligned with NDPE & EUDR framework, we conduct village-level risk assessments that evaluate:

1. Deforestation rate
2. Land legality and registration
3. Indigenous and social forest presence
4. Remaining forest cover

5. Traceability depth

Each polygon is categorized (e.g., low, medium, high risk) and paired with actionable mitigation strategies such as on-site verification, traceability improvement, or targeted reforestation ensuring companies stay compliant while protecting high-risk areas.

#### Support for RSPO Certification

We assist in the certification process by mapping conservation areas, identifying social risks, and building tools that support compliance reporting and grievance resolution. Moreover we Land Use Change Mapping for RSPO certifications

#### Carbon Stock & Emission Monitoring

Using Above Ground Biomass (AGB) models and high-resolution imagery, we calculate carbon emissions and land-use change impacts—aligning with the Greenhouse Gas Protocol and RSPO's climate reporting framework.

Through these integrated services, EarthLine advances RSPO's goals of sustainability, transparency, and responsible palm oil sourcing.

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**1.3 What percentage of your organisation's overall activities focus on palm oil?**

80.0%

**1.4 Did members of your organisation participate in RSPO working groups and/or taskforces in the reporting period?**

No

**1.5 Does your organisation have any past or on-going collaborations with public or private sector palm oil industry players to support them in their efforts to increase the production or consumption of certified sustainable palm oil (CSPO)?**

Yes

**1.6 How is your organisation's work on palm oil funded?**

EarthLine's work on palm oil is primarily funded through a project-based model, where clients engage us for specific mapping, traceability, or risk assessment assignments. This includes services such as polygon digitization, EUDR compliance analysis, NDPE monitoring, and RSPO certification support.

In addition, for ongoing supply chain monitoring, such as real-time deforestation alerts and compliance dashboards. We offer a subscription-based model, typically billed on an annual basis. This allows companies to maintain continuous oversight of their supply chain risks and sustainability commitments.

This dual funding approach ensures flexibility for both one-time and long-term sustainability needs across the palm oil sector.

## 2. Actions for Next Reporting Period

### 2.1 Please outline activities that your organisation will take in the coming year to promote the production or consumption of certified sustainable palm oil (CSPO)

In the coming year, EarthLine will focus on expanding access to sustainability tools and supporting producers and buyers in understanding and managing their supply chain risks. Our planned activities include:

#### Expanding Polygon Mapping Services for Smallholders and Mills

We will continue to support RSPO members and other producers in mapping their plantations, including smallholder plots, to improve traceability and facilitate RSPO certification.

#### Enhancing Supply Chain Risk Assessment Tools

We aim to scale our risk assessment & classification system, making it easier for companies to identify deforestation, legality, and social risks across their sourcing areas. This will help streamline CSPO compliance and promote proactive risk mitigation.

#### Improving Accessibility of Monitoring Services

Through our annual subscription model, we will make real-time monitoring tools (e.g., deforestation alerts, carbon mapping, and compliance dashboards) more affordable and accessible especially for mid-sized producers and independent mills.

#### Capacity Building and Awareness

EarthLine plans to host technical workshops and share practical resources to help producers, traders, and buyers better understand the value of RSPO certification and how geospatial tools can simplify the process.

#### Supporting Transparent and Responsible Sourcing

By verifying third-party supply chains and helping buyers identify low-risk sourcing regions, we will promote the demand for CSPO and reduce barriers to sustainable procurement.

Our overarching goal is to make sustainable palm oil production and responsible sourcing easier, more accessible, and data-driven for all supply chain actors.

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## Challenges and Support

**1.1 What significant obstacles or challenges has your company encountered in the promotion of certified sustainable palm oil (CSPO)? What efforts has your company taken to address these obstacles or challenges?**

- ☐ Awareness of RSPO in the market
- ☒ Difficulties in the certification process
- ☐ Certification of smallholders
- ☐ Competition with non-RSPO members
- ☒ High costs in achieving or adhering to certification
- ☐ Human rights issues
- ☐ Insufficient demand for RSPO-certified palm oil
- ☐ Low usage of palm oil
- ☐ Reputation of palm oil in the market
- ☐ Reputation of RSPO in the market
- ☐ Supply issues
- ☒ Traceability issues
- ☐ No challenges faced
- ☐ Others

Others

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**1.2 In addition to the actions already reported in this ACOP report, what other ways has your company supported the vision of the RSPO to transform markets to make sustainable palm oil the norm?**

- ☐ Communication and/or engagement to transform the negative perception of palm oil
- ☐ Engagement with business partners or consumers on the use of CSPO
- ☐ Engagement with government agencies
- ☒ Engagement with peers and clients
- ☐ Promotion of CSPO through off product claims
- ☒ Promotion of CSPO outside of RSPO venues such as trade workshops or industry associations
- ☐ Promotion of physical CSPO
- ☐ Providing funding or support for CSPO development efforts
- ☐ Research & Development support
- ☒ Stakeholder engagement
- ☐ No actions taken
- ☐ Others

Others

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**1.3 If your company has any other publicly-available reports or information regarding its palm oil-related policies and activities, please provide the links here**

no