ARIA: a New GRAS Platform for an Automated ISCC Principle 1 Risk Assessment

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ARIA Platform Webinar for CBs, Auditors & System Users

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ARIA
Automatic **Ri**sk **A**ssessment Platform

Introduction to ARIA

How does autoamtic risk assessment work?

Platform Demo & Sample Reports

Outlook and ARIA for ISCC

Background

- European Commission is considering new rules for improving the state of EU-driven deforestation
- Palm oil is one of the six commodities which must have a fully traceable supply chain and deforestation free sourcing

- Lack of harmonised method for the ISCC system users to verify Land Use Change (LUC)
  - an ISCC LUC Template needs to be filled out which often lacks crucial information and leads to a lengthy reviewal process and/or communication chain between system users, CBs and ISCC

00.07.06	Did land use change take place after January 2008? If LUC after 2008 took place, please provide a detailed explanation specifying how compliance with ISCC was verified (evidence should include e.g. remote-sensing technology, pictures of the on-site visit, approach to determine land category, further tools etc.)	☒ yes, If yes, please specify the type of land use change: ☐ no Please note that the statement should be provided in separate document

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ARIA: **A**utomatic **Ri**sk **A**ssessment Platform

- ARIA is a risk assessment platform for compliance with ISCC Principle 1 as well as soil erosion from Principle 2 and in general with EU Renewable Energy Directive (RED)
- ISCC system users can use the platform to generate fully automated, comprehensive risk reports at the plantation level within just a few minutes.
- ARIA is not limited to ISCC, but also could be used for any RED voluntary certification scheme

GRAS has translated all ISCC Principle 1 criteria into geospatial datasets

Criteria for land use change

Potential deforestation

Potential deforestation after 2008
Landsat satellite images
Sentinel I& II
ALOS PALSAR

Criteria for land with high biodiversity value

Primary forest & wooded land

Primary forest,
Intact Forest Landscapes

Nature protection areas

Nature Reserve Area, Nature Conservation Areas

Endangered species

Orangutan habitats,
Tiger conservation landscapes

High biodiverse grassland

Grassland/ Shrubland

Criteria for land with high carbon stock

Wetlands

Global wetlands

Forested areas

Forest Height Map 2007
Tree Cover Density Map 2005
Forest / No-Forest Map 2007

Criterion for peatland

Peat

Peatland

RED requirements/ISCC Principle 1

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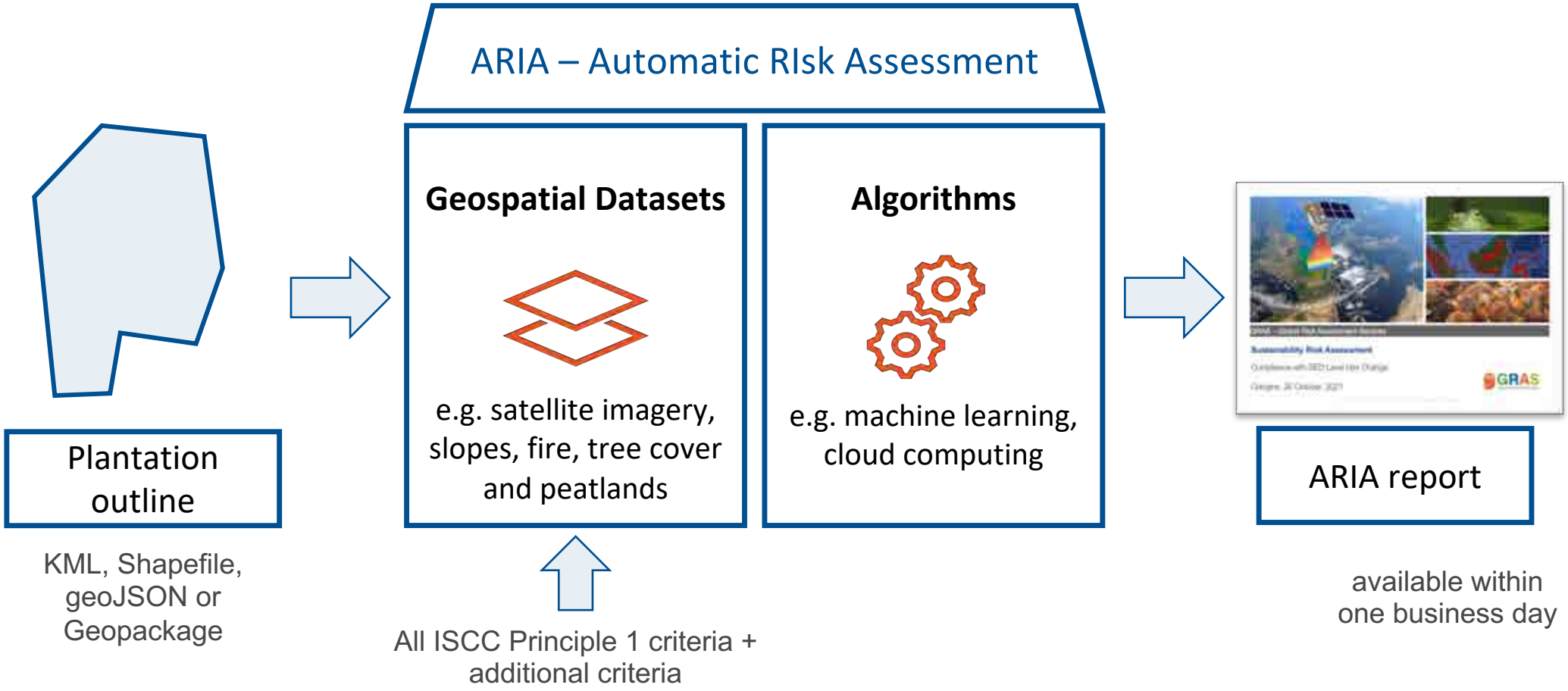
ARIA is an integrated system that includes both geospatial data and algorithms for cost-effective report generation



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ARIA Automated risk assessment reports as the innovative solution

- Level playing field among system users and CBs
- Support ISCC system users
- Simplify auditing and reduce auditing costs
- Building block towards including further legislation/due-diligence requirements

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Differences to the GRAS Tool

The ARIA Platform differs from the already available GRAS Tool in several different aspects

- Geographical focus
  - Indonesia and Malaysia only
- Datasets match the ISCC Principle 1's criteria
- Separate detection of potential deforestation and replanting
- Additional datasets (e.g. slopes, waterbodies)
- Analysis of plantation outline, not a general sourcing area as in the GRAS Tool

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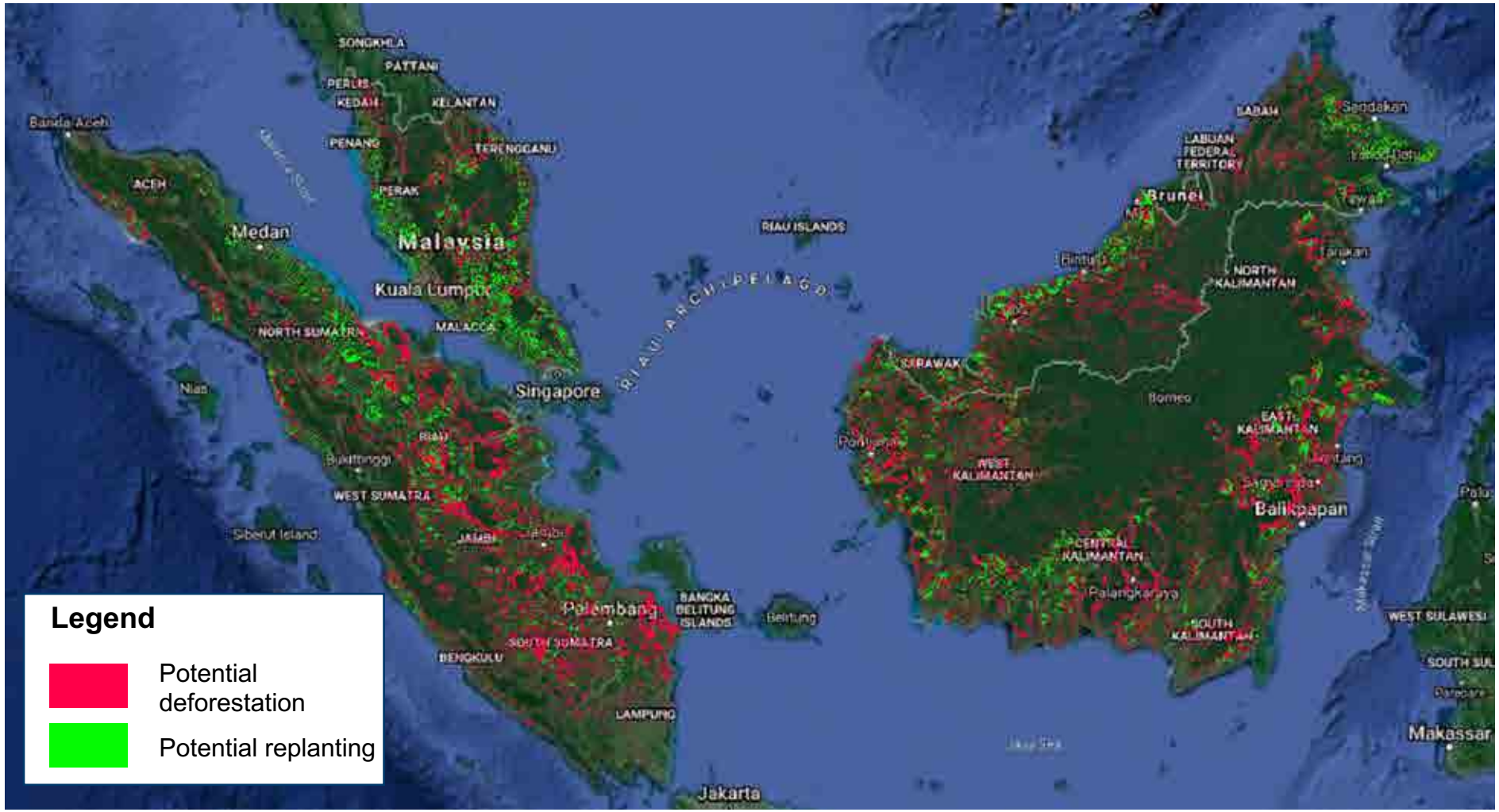
Differences with GRAS Tool: Example, palm replanting map



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Differences with GRAS Tool: Potential deforestation map available in GRAS Tool

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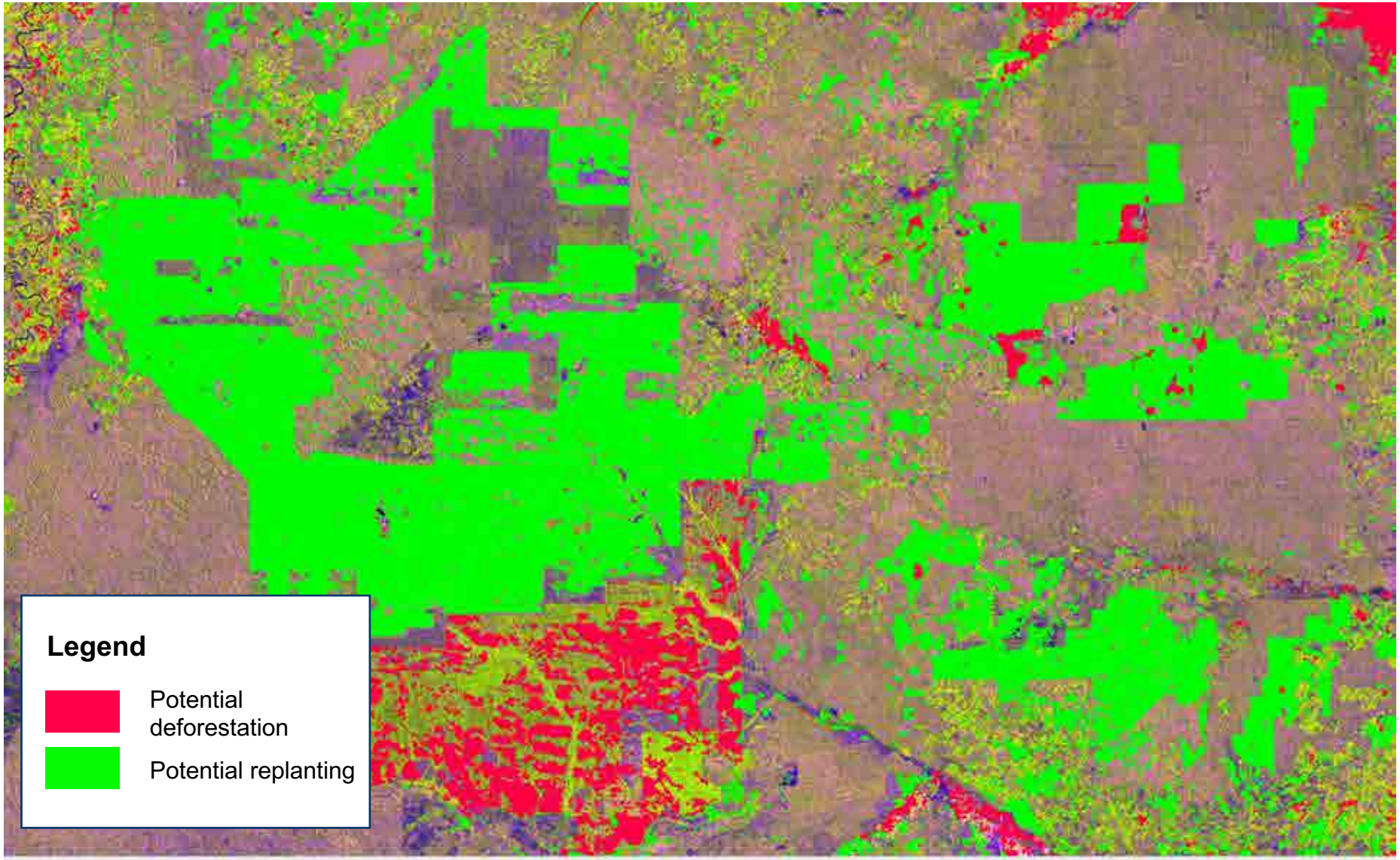
Differences with GRAS Tool: Potential replanting and potential deforestation in ARIA



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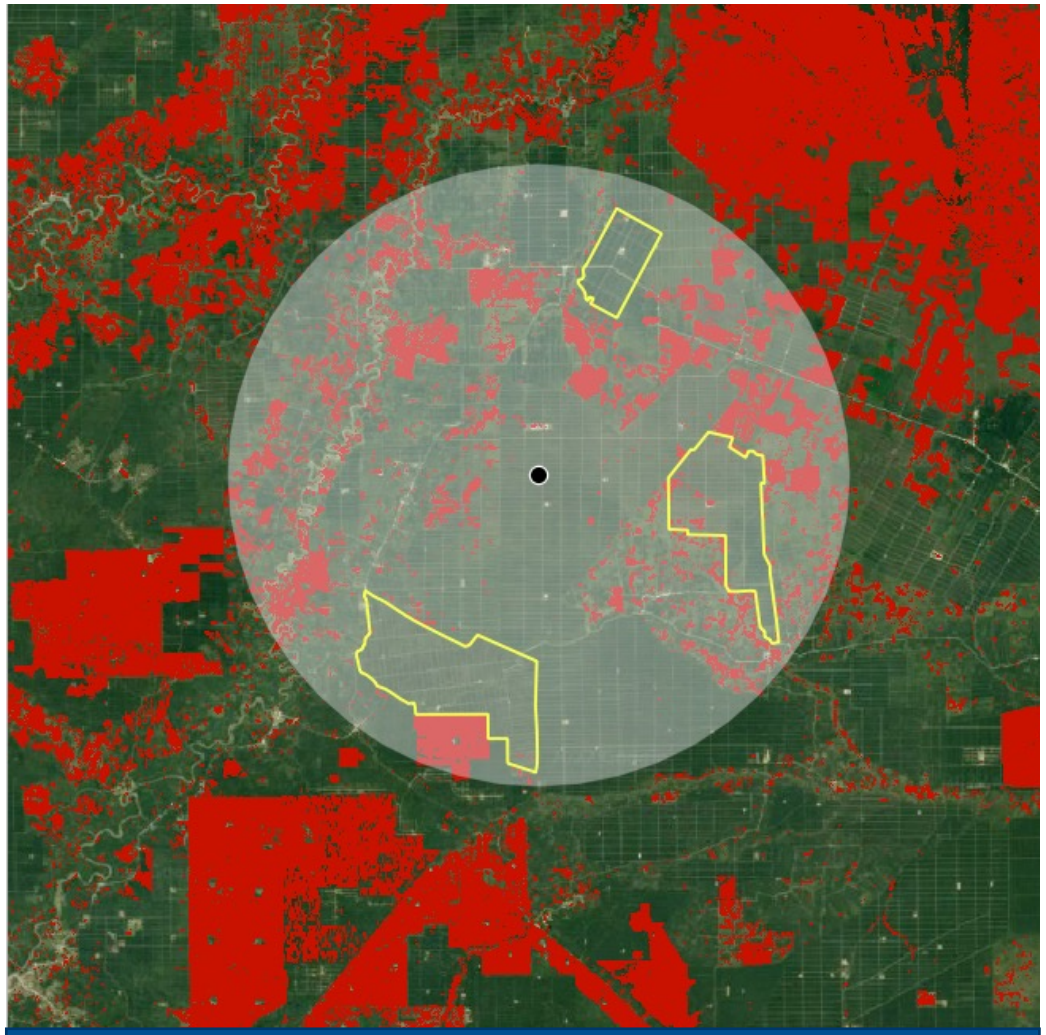
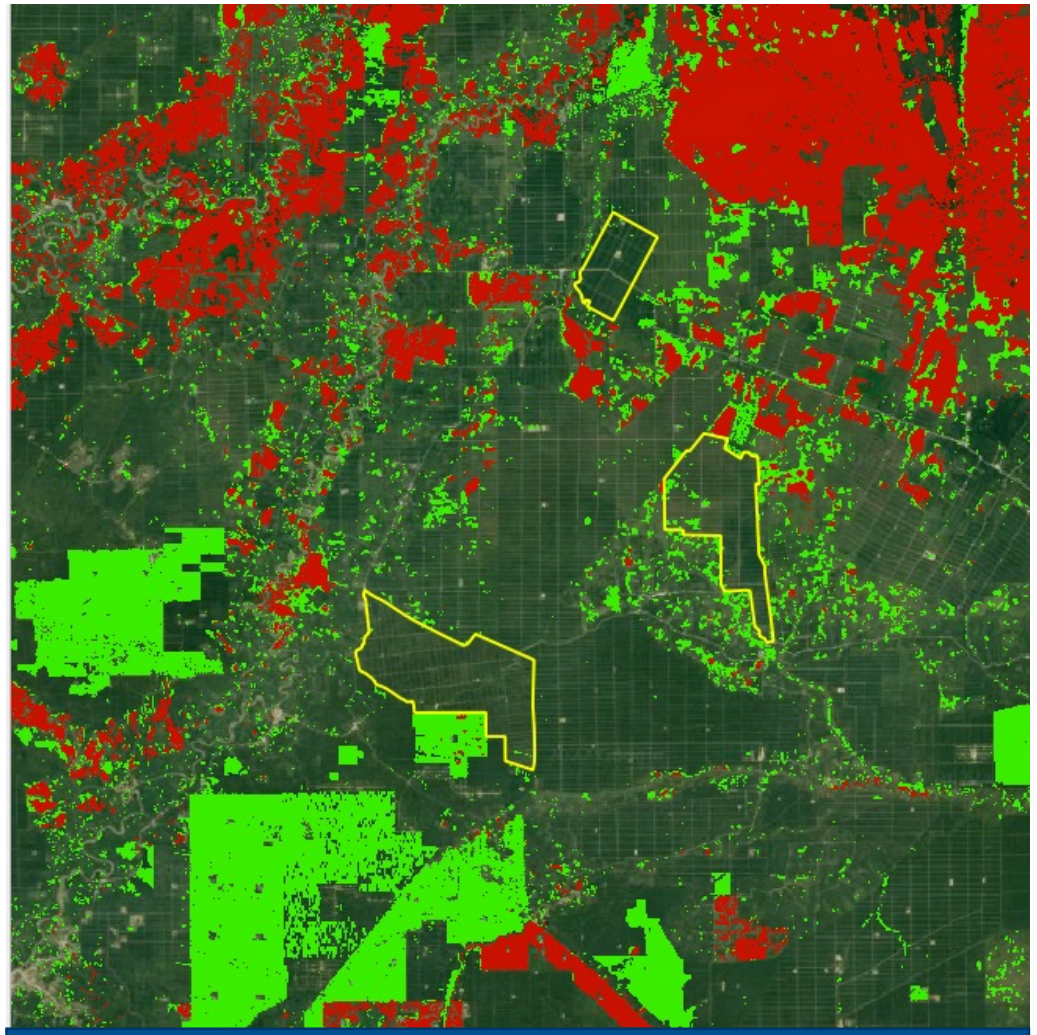
Differences with GRAS Tool: Results in finer spatial scale



GRAS Tool



ARIA

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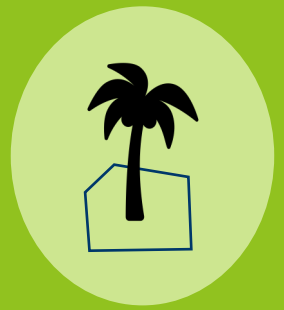
Demo

Automated Risk Assessment of Palm Plantations with a few steps

Step 1:
Create account

Create an account with your email address



Step 2:
Upload plantation outline

Add one or multiple plantations/estates

Step 3:
Select settings

Confirm outlines and execute payment

Step 4:
Receive report

View results within one business day

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System Users' Vouchers and ISCC timeline

ISCC's timeline for the use of ARIA

- ISCC has supported the development of the ARIA Platform
- ISCC system users can request free ARIA vouchers for auditing in all three phases

- **Phase 1 Voluntary: 1st November 2022 – 31st January 2023**
  - ARIA online training (1st November 2022)
  - ISCC system users may get vouchers for recertification and initial process
  - Feedback is highly appreciated

- **Phase 2 Transition: 1st February 2023 – 30th April 2023**
  - Auditors are encouraged to attend ARIA training
  - ARIA use is recommended for recertification and initial certification audits

- **Phase 3 Mandatory: starting from 1st May 2023 in Indonesia and Malaysia**
  - ARIA training mandatory to auditors
  - All ISCC system users provide the ARIA report as a part of the auditing process

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Sample Report

Thank you for your attention!

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