



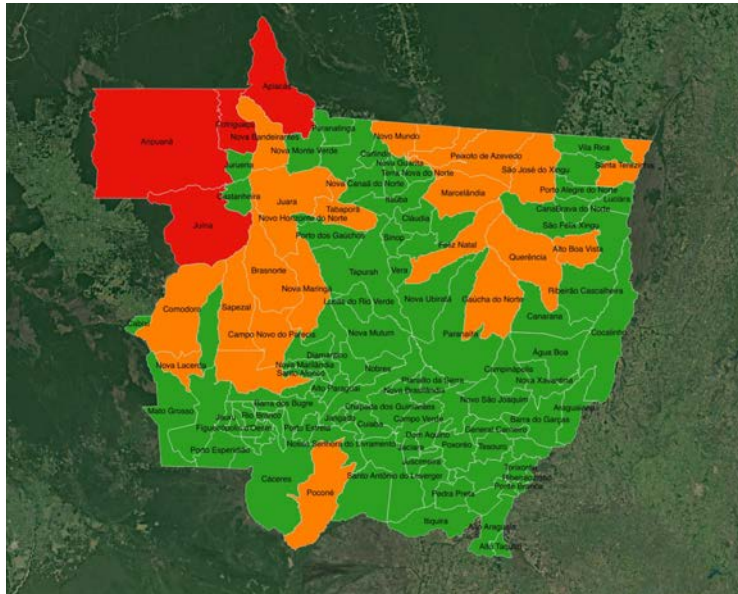
Innovative Technologies for Automated Sustainability Assessments

Dr Ilknur Celik Schoreels, GRAS Global Risk Assessment Services
13th ISCC Global Sustainability Conference, Brussels & Online, 15 February 2023

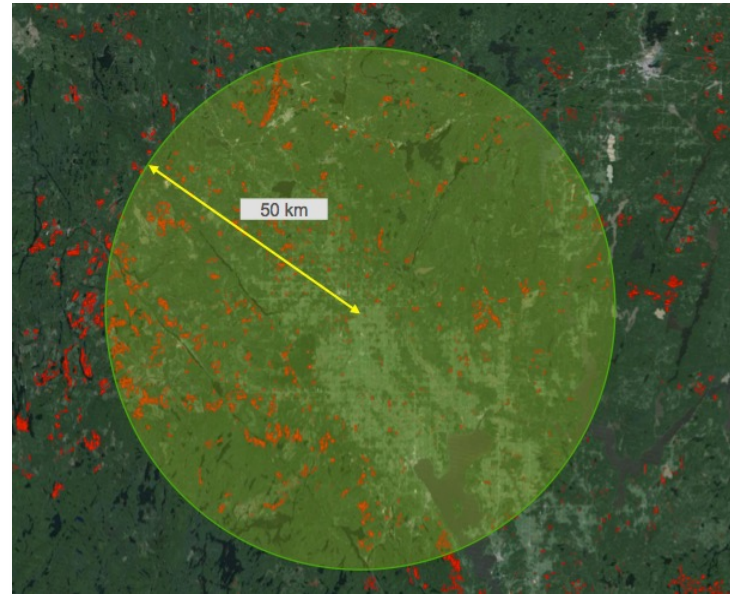
GRAS Global Risk Assessment Services

Utilize & Develop Technologies for Sustainability Risk Assessment

- globally on different levels, depending on specific strategies, goals and local conditions



Administrative level and cluster analysis



Sourcing areas with a specific radius



Detailed field analysis

Risk approach

Verification



Supporting sustainable sourcing for many different crops globally

Examples



Coffee



Sugar beet



Soybeans



Timber



Palm oil



Canola



Sugar cane



Tea



Oranges



GRAS uses remote sensing technology to identify land use change, deforestation and degradation of land cover



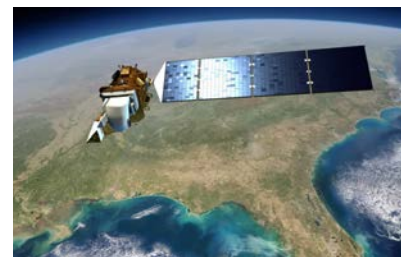
Sentinel-2



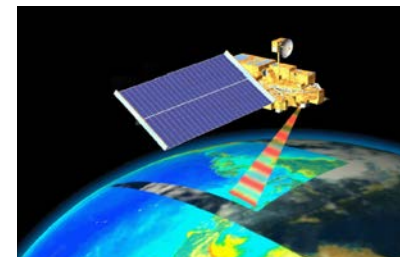
SPOT



PALSAR



Landsat

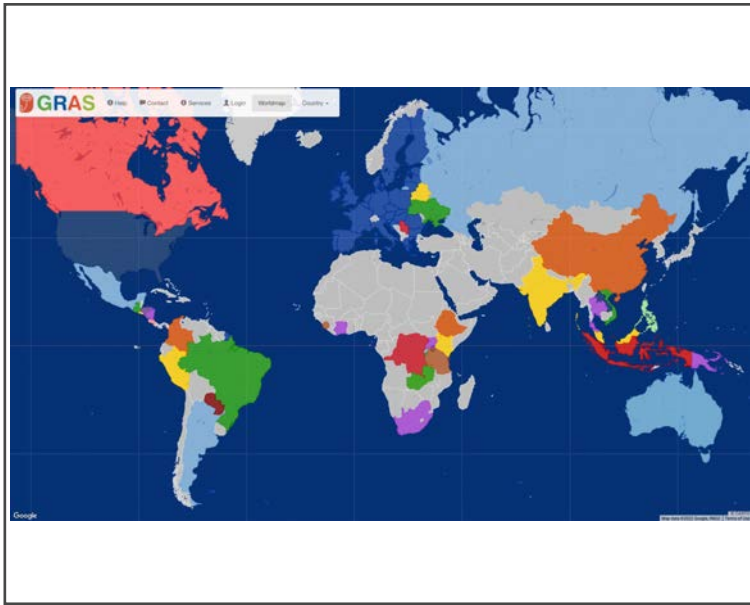


MODIS

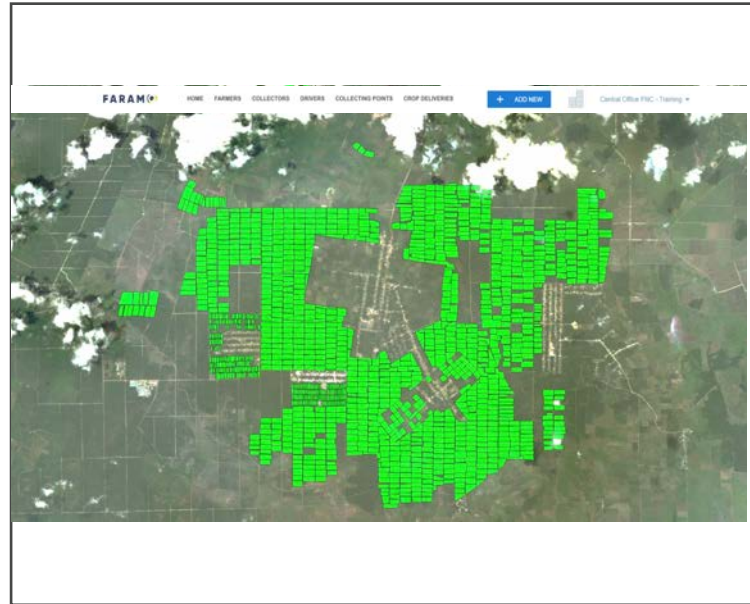


LiDAR

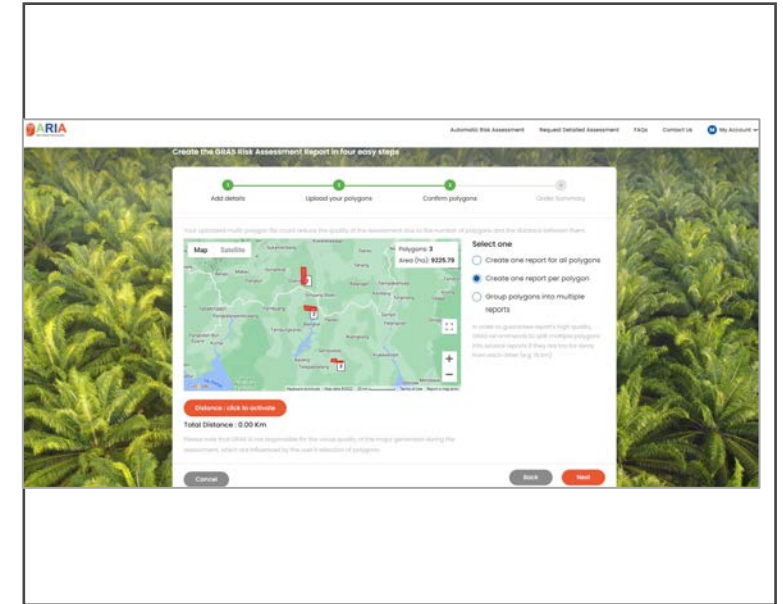
GRAS offers a variety of systems for risk assessment to support certification processes



GRAS Tool



FARAMO System



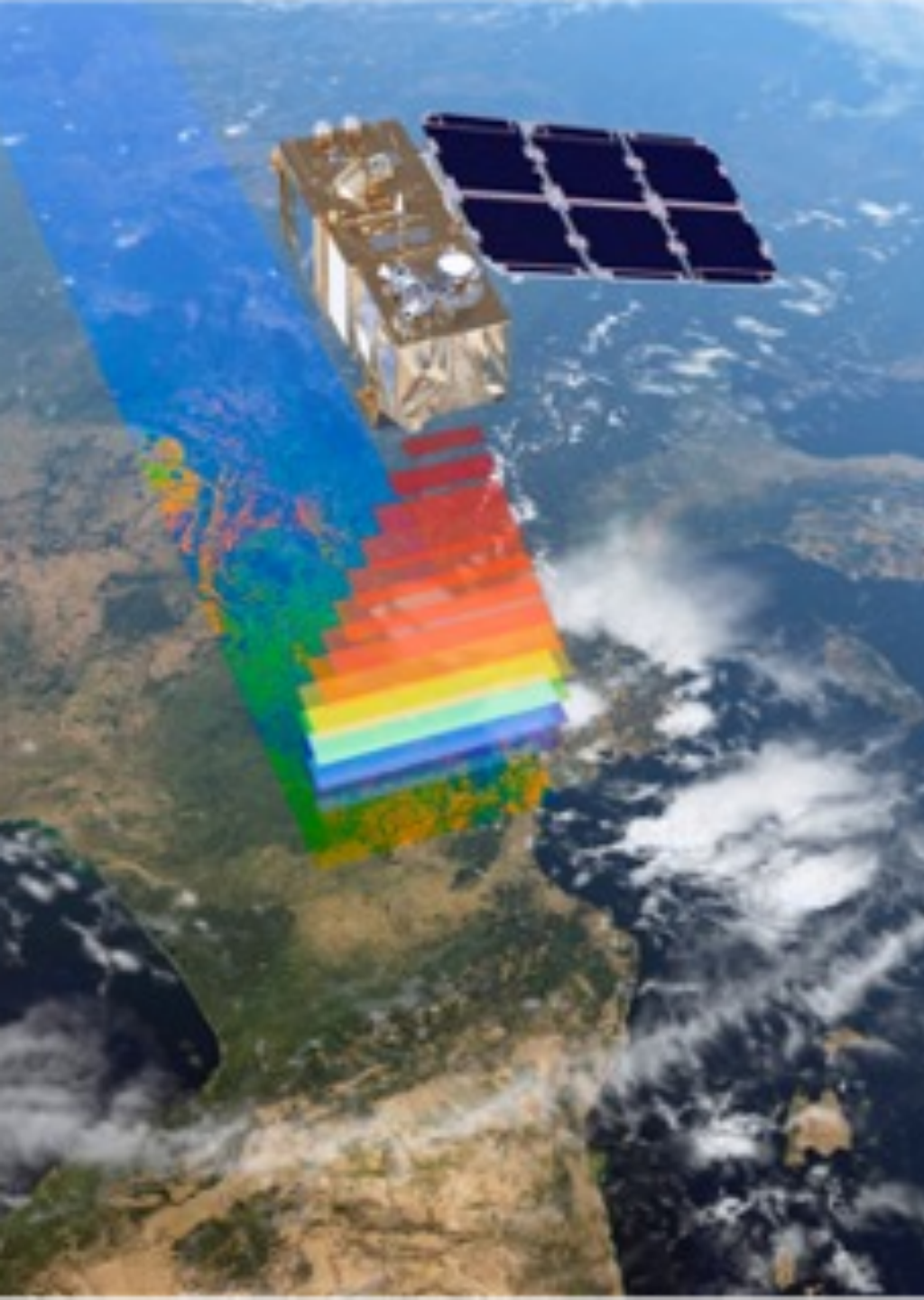
ARIA Platform



ARIA by GRAS

Fully automated risk assessment platform

- for compliance with
 - **ISCC Principle 1**
 - EU Renewable Energy Directive (RED II)
- comprehensive risk reports at the **plantation level** within just a **few minutes**
- for Palm in Indonesia and Malaysia



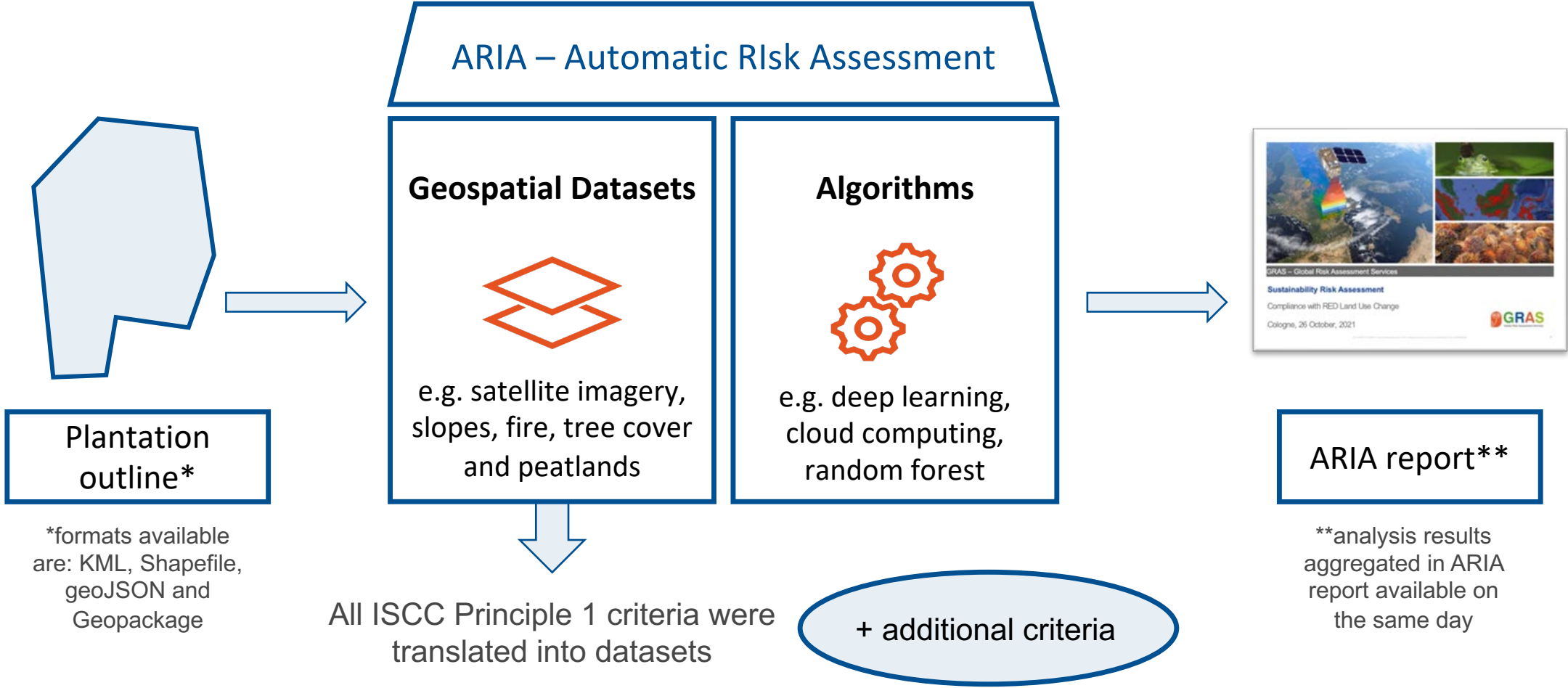
GRAS ARIA: Automatic Risk Assessment Platform

A Level Playing Field

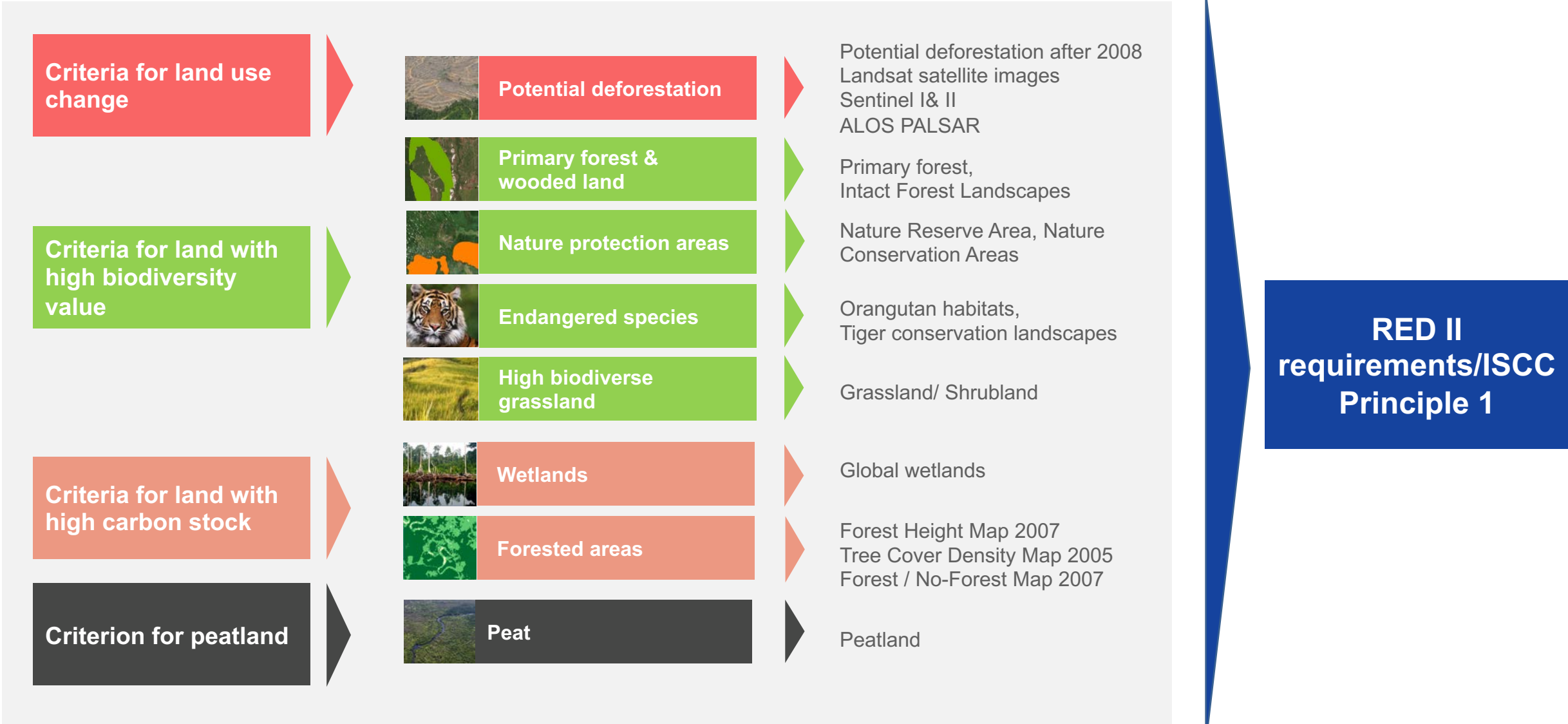
- **Systematic** and **objective** evaluation of potential risks.
- **Increase efficiency,**
- **Reduce the risk of human error,**
- **ensure consistency** in capture & analysis of all relevant information

- ISCC system users can use ARIA to generate fully automated, comprehensive risk reports at the **plantation level** within just a **few minutes**.
 - complementary to on-site audits
 - demonstrate compliance with the ISCC standards

Based on the plantation outline, the report contains geospatial datasets which have been processed using advanced image processing algorithms



GRAS has translated all ISCC Principle 1 criteria into geospatial datasets

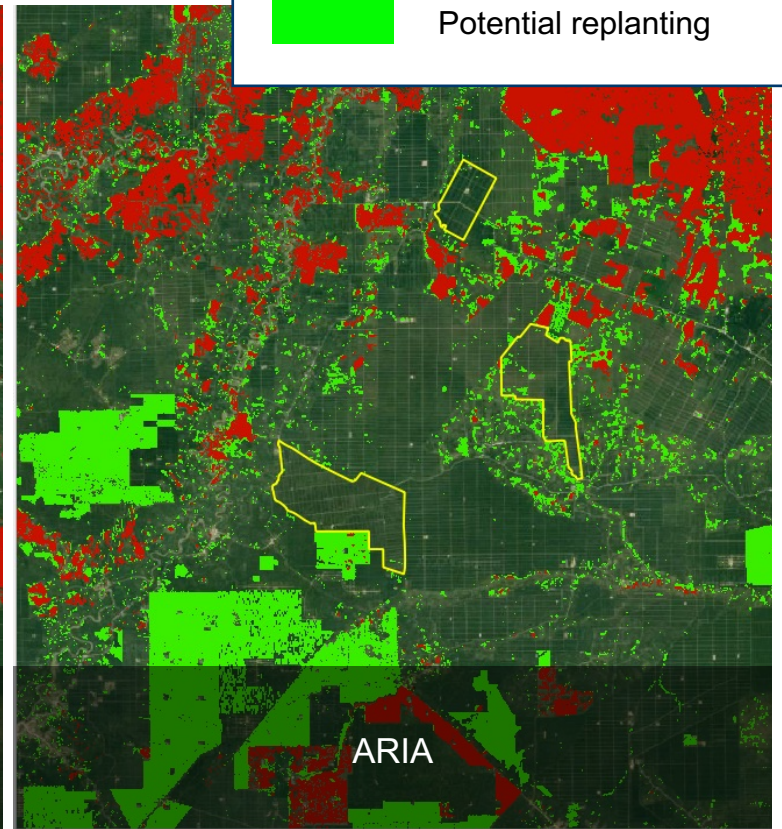


**RED II
requirements/ISCC
Principle 1**

Results in finer spatial scale

Legend

- Potential deforestation
- Potential replanting



The ARIA risk assessment report assigns a risk level to each plantation according to the occurrence of potential deforestation and replanting

Risk level	Overlap with the potential replanting	Overlap with potential deforestation	Description
Low Risk			The plantation does not overlap neither with the potential replanting map nor with the potential deforestation map
Medium Risk	X		The plantation overlaps with the potential replanting map
High Risk	(X)	X	The plantation overlaps with the potential deforestation map

Workflow for ISCC System Users to use ARIA

Receive coupon code via email from ISCC

- 3 months before recertification
- Upon site registration

Create an account with ARIA/login to ARIA

- Upload plantation outlines
- Decide on the number of reports
- Apply coupon code
- Download the report(s)
- Send ARIA reports along with other documentation to their CB

Few Simple Steps to ARIA Report

ARIA Automatic Risk Assessment Request Detailed Assessment Login Sign Up FAQs Contact Us

GRAS GRAS Risk Assessment of ISCC P1 GRAS Detailed Assessment of ISCC P1 FAQs Contact Us My Account My Profile

Create the GRAS Risk Assessment Report in four easy steps

- 1 Add details**

Form/Plantation name*
South Sumatra 1

Customer/company name*
XYZ Palm Cooperation

Address*
123, ABC Street, Sumatra, Indonesia

Total area size (ha)*
123.56

! Please note that for ISCC...

Cancel
- 2 Upload your polygons**

Your uploaded multi-polygon file could reduce the quality of the assessment due to the number of polygons and the distance between them.

Map Select one

Distance : ...

Total Distance ...

Please note that assessment, with ...

Cancel
- 3 Confirm polygons**

Coupon Code (if any) KZYDwi666080353 Apply

Risk Assessment report X 3

Coupon Discount Applied

Tax

Total

If you are an EU Business, please ...

By clicking on proceed you agree ...

Cancel
- 4 Order Summary**

Order Summary

My Reports

Risk Assessment Report Detailed Assessment Report

Purchase History

#	Report Name	Purchased date	Report PDF
1	farmname with spaces	2022-05-24	Report 1 Report 2,Report 3,Report 4
2	farmname with spaces	2022-05-24	Report 1 Report 2,Report 3
3	UAT4	2022-05-16	Report 1 Report 2,Report 3,Report 4
4	UAT3	2022-05-16	Report 1 Report 2
5	UAT2	2022-05-16	Report 1 Report 2,Report 3
6	UAT1	2022-05-16	Report 1
7	farmname	2022-05-13	Report 1
8	farmname 2	2022-04-26	Report 1 Report 2
9	fm 1	2022-04-25	Report 1

Previous 1 2 3 Next

Create Account

Upload Plantation

Confirm

Use Coupon

Manage Reports

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Workflow for CBs upon mandatory ARIA Phase

Register and
complete Online
ARIA Training

- self-paced
- Successfully completion before the audits is must

Integrate reports
into audits

- Apply the learnings from the training to analyse the results shown in the reports
- Use the reports as a starting point to guide the audit



Thank you for your attention!

Check out ARIA at <https://aria.gras-system.org/>

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