

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

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11<sup>th</sup> ISCC Regional Committee Southeast Asia  
26 October 2021, Virtual Meeting





Currently, there is no harmonised method for the ISCC system users to verify Land Use Change (LUC), leading to involvement and support from ISCC staff

### A system user indicated in the ISCC Checklist, Procedure that Land Use Change (LUC) has occurred

00.07.06	<u>Did land use change take place after January 2008?</u>  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.)	<input checked="" type="checkbox"/> yes, If yes, please specify the type of land use change: <input type="checkbox"/> no  Please note that the statement should be provided in separate document
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- In case LUC occurred, 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

# A reliable LUC assessment and reporting requires multidisciplinary expertise

Examples expertise are: remote sensing, GIS, ecology, sustainability

## Remote sensing expertise

Mapping smallholder plantation/mixed gardens

Mapping land category (e.g. other land use, sparse forest)

## GIS expertise

Creating a report with GIS data (e.g. shapefile, KMLs)

Accuracy and reliability of available map

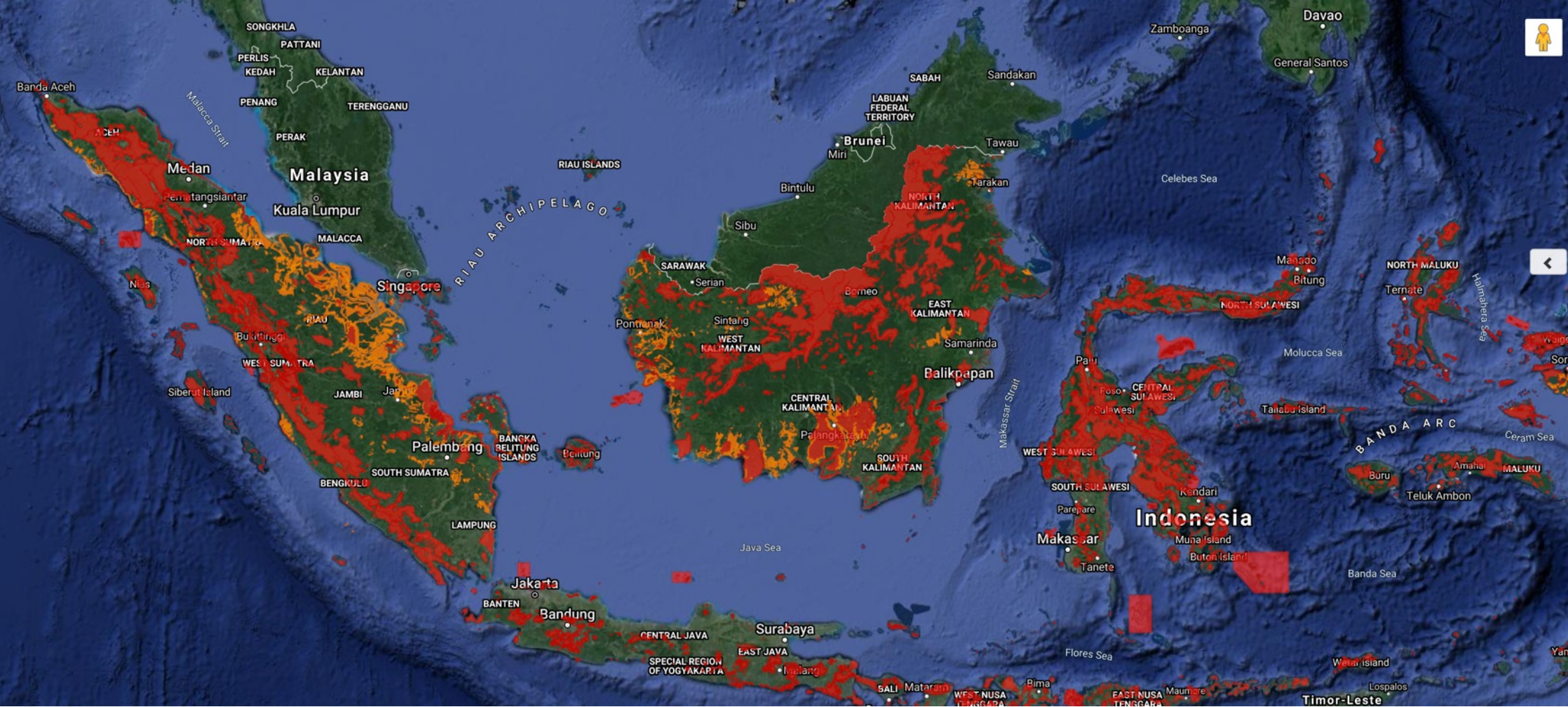
## Ecology/sustainability

Non-biodiverse grassland/shrubland

GHG calculations ( $e_{sca}$  and  $e_l$ )



# Auditors, CBs and system users are already using GRAS tool for risk assessment, but more is possible



# GRAS has translated all ISCC Principle 1 criteria into geospatial datasets



With the support of ISCC, GRAS has created a RED-compliance/ISCC P1 risk assessment tool called **ARIA**

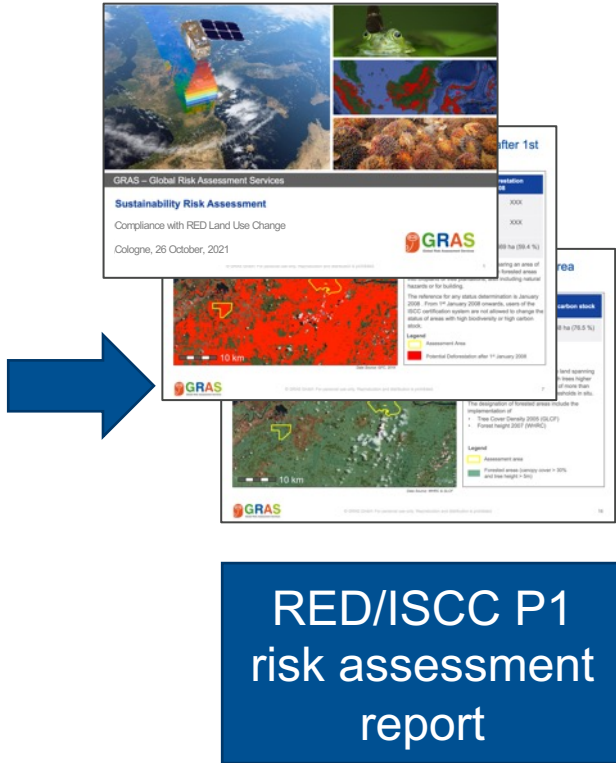
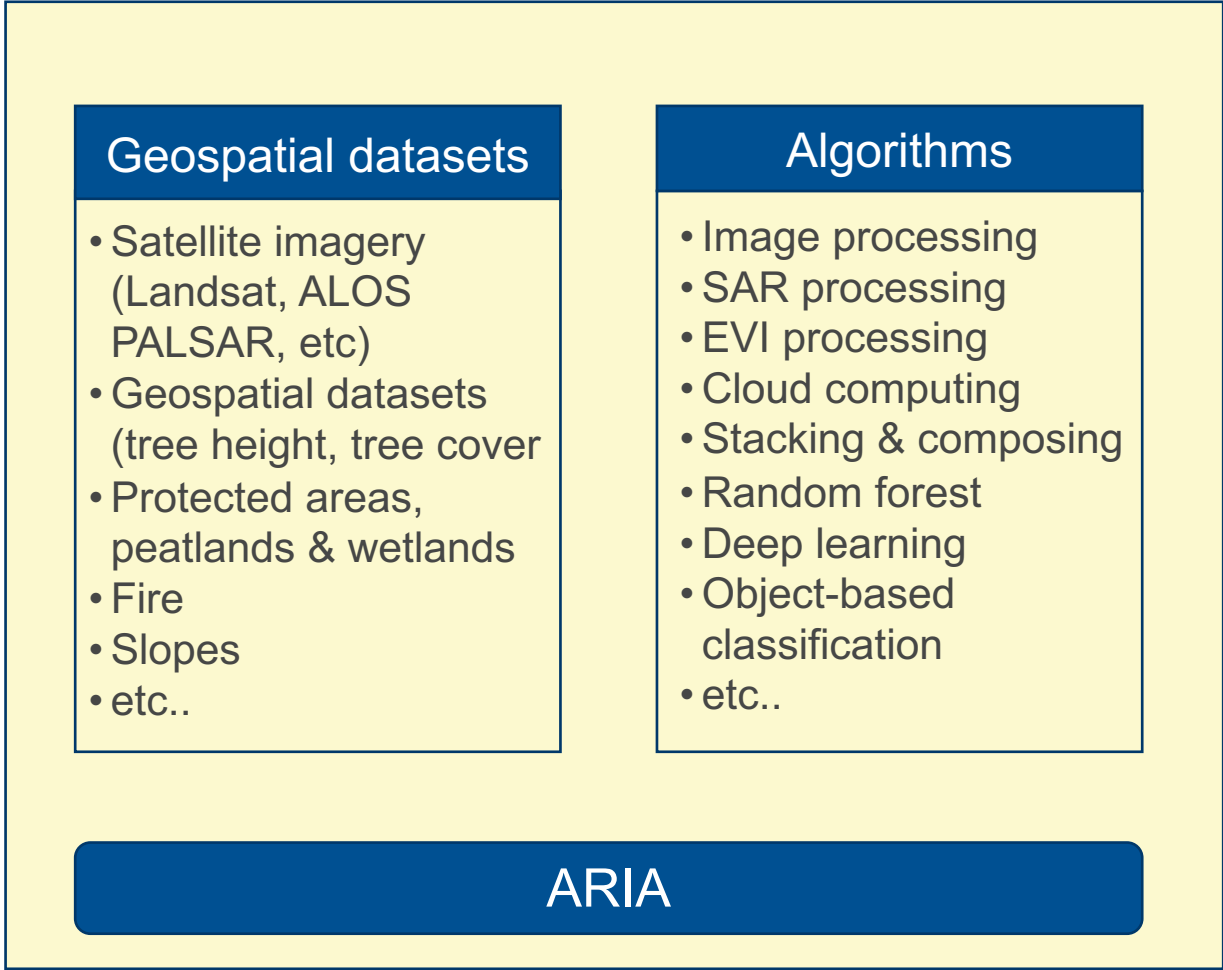
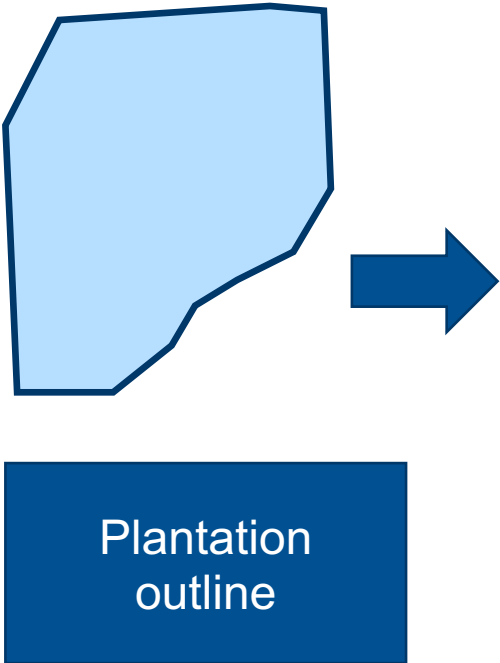
*Aria means "song" or "melody" in Italian. Its literal translation is "air," and it is a musical term that refers to an elaborate vocal solo usually found within a larger piece of music, generally an opera. Aria means "lioness" in Greek. In Persian, Aria is a gender-neutral name that means "noble." In Albanian, Ari(a) means 'treasure' or 'gold', 'of high value'.*

## ARIA: Automatic Risk Assessment Tool

- ARIA is a risk assessment tool for compliance with ISCC Principle 1 and in general with EU Renewable Energy Directive (RED)
- ISCC system users can use this tool to generate fully automated, comprehensive risk reports at the plantation level
- ARIA not limited to ISCC, but also could be used for any RED voluntary certification scheme

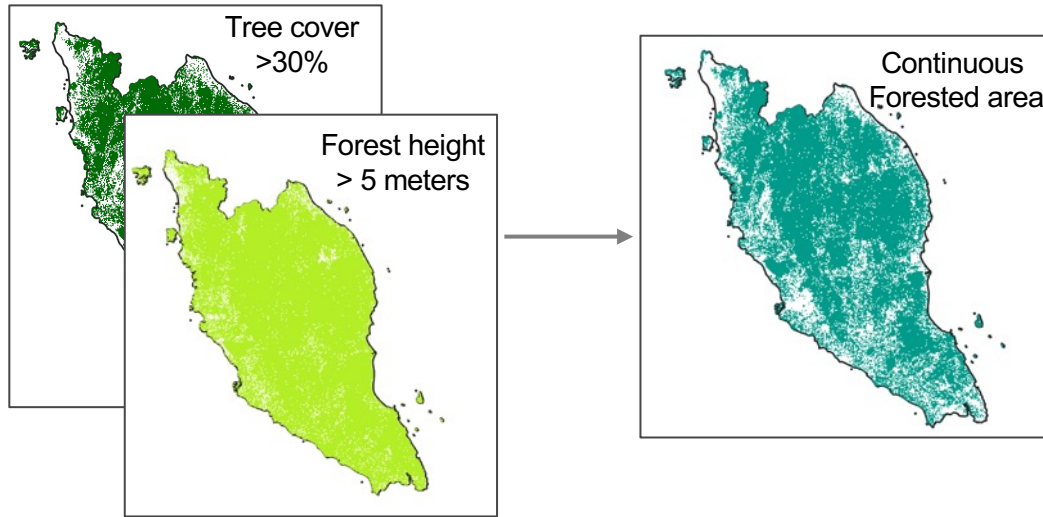


# ISCC System users can use ARIA to create high quality, yet automated ISCC principal 1 risk assessment reports

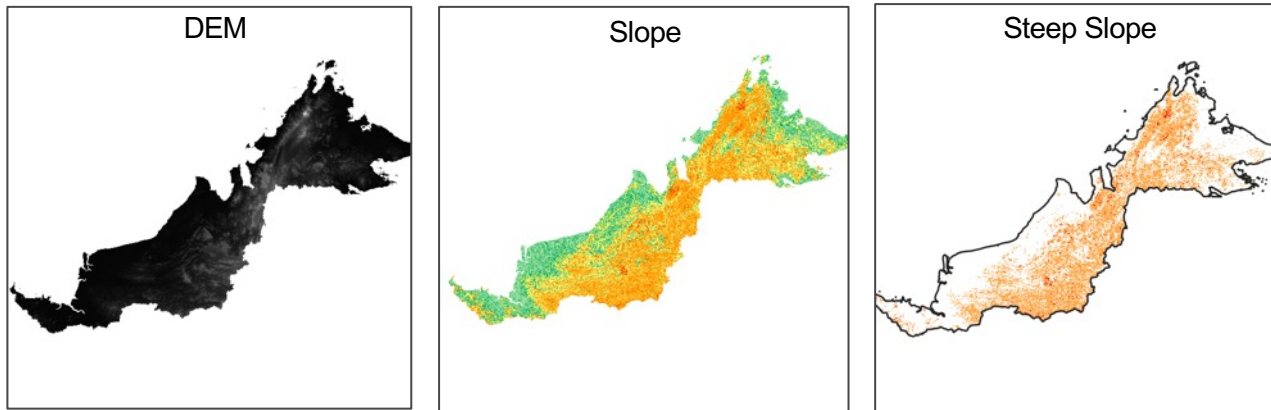




# ARIA report includes a wide variety of datasets that cover ISCC P1, examples

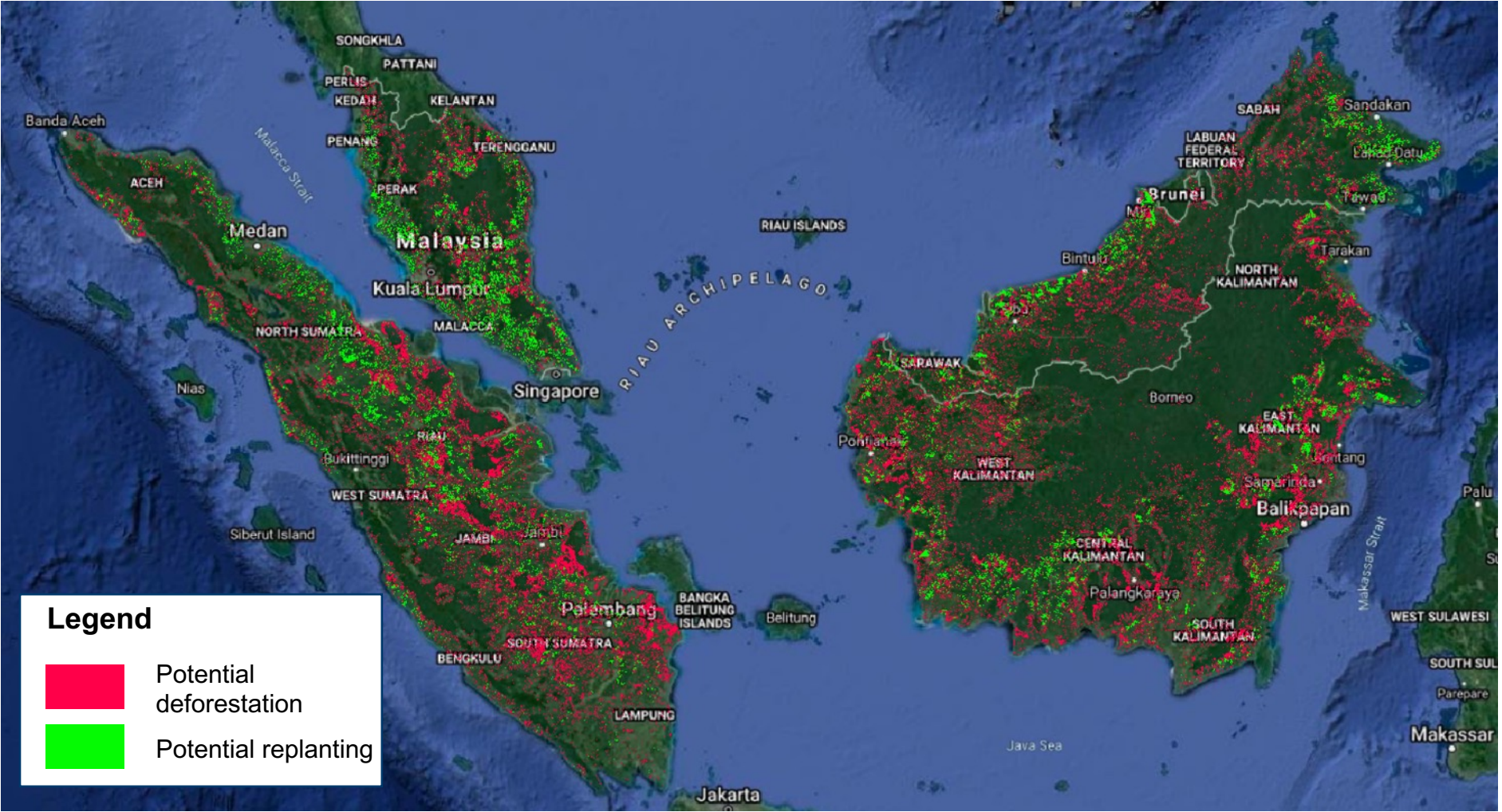


**continuous forested areas map**



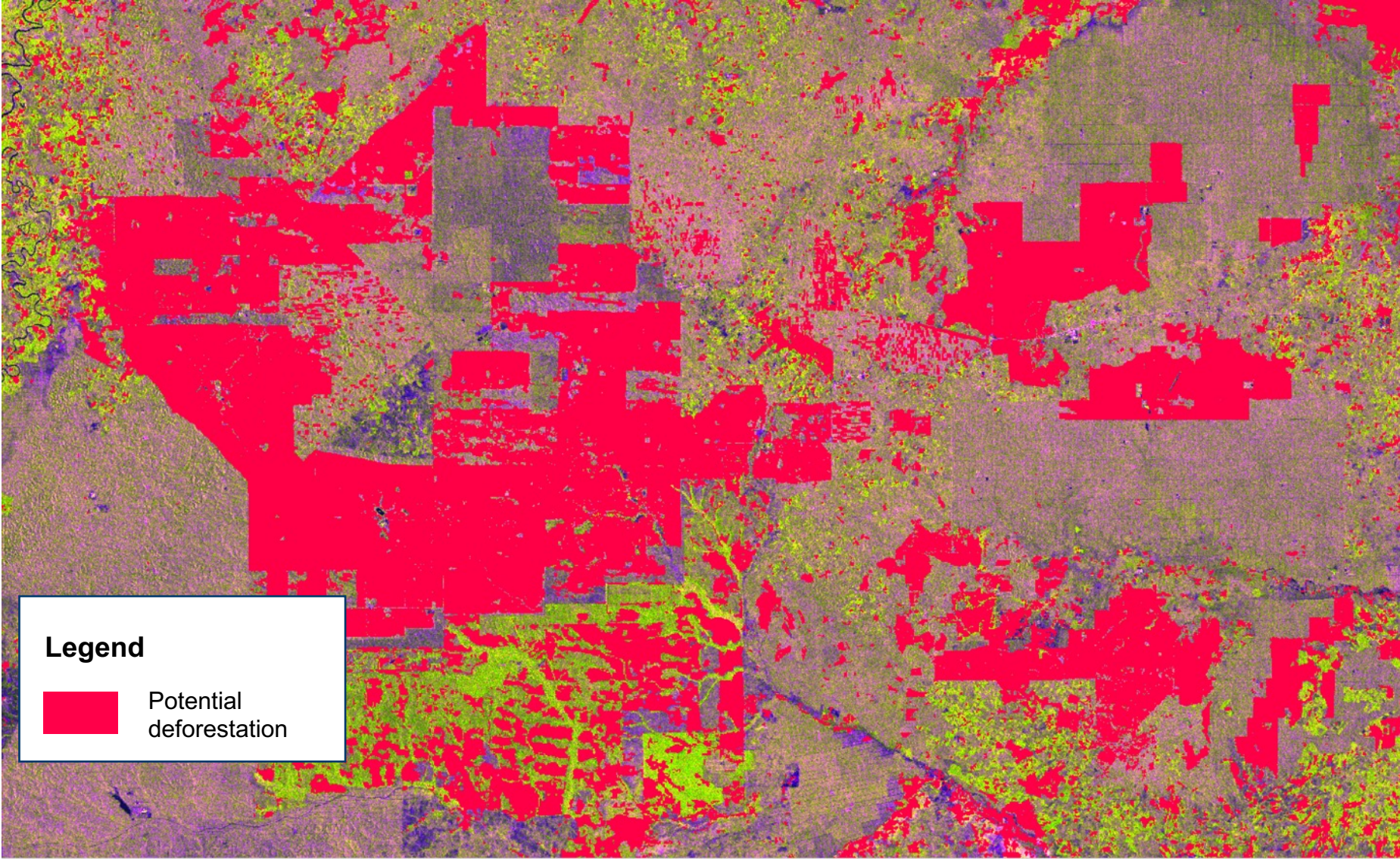
**Steep slopes map**

# GRAS datasets are also included in ARIA: Example, palm replanting map



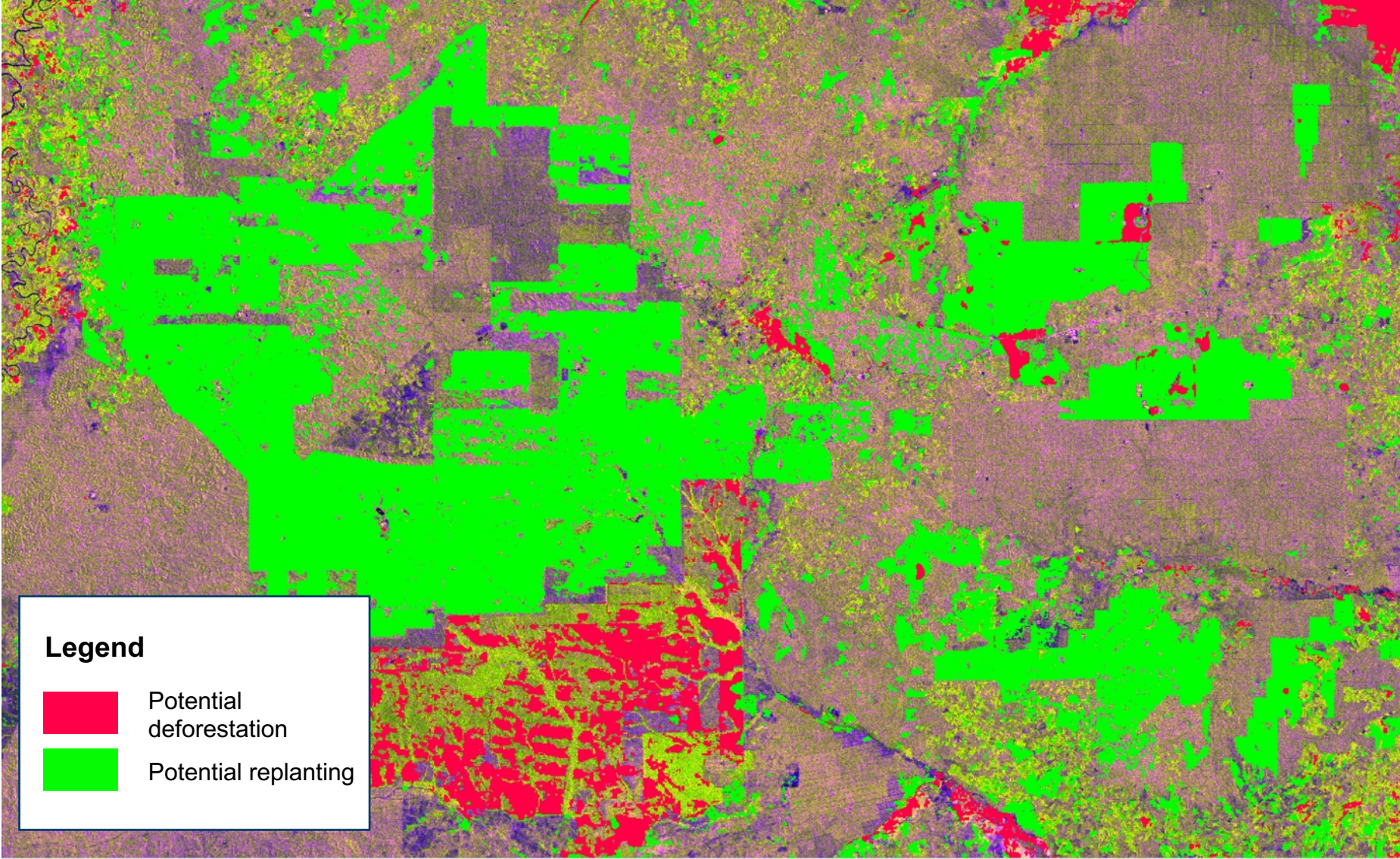


# GRAS datasets are also included in ARIA: Example Palm Plantation map





# GRAS datasets are also included in ARIA: Example Palm Plantation map





# ARIA– GRAS Reporting Tool for RED criteria ISCC P1

## Tool for the verification of RED criteria and ISCC Principle 1 criteria

- Automated and detailed risk assessment
- Online payment system
- Online management of assessment requests
- Management of coupons and transactions

GRAS Layers

Help Contact Services Worldmap countr... ILKNU... Fire Alert English

My Profile  
Report Plans  
Subscribed Report  
Change Password  
Logout

**Cases**

Created Date	Action
India_1	16230557401174081 June 7, 2021
ABC Plantation1	16230572771141543 June 7, 2021
ABC Mill 1	16230628161141388 June 7, 2021
ABC Plantation 2	16231640961141021 June 8, 2021

# Users can create their own accounts, upload estates/plantations' outlines and download reports

GRAS Risk Assessment of ISCC PI GRAS Detailed Assessment of ISCC PI FAQs Contact Us My Account

Create the GRAS Risk Assessment Report in four easy steps

1 Add details 2 Upload your polygons 3 Confirm polygons 4 Order Summary

Farm/Plantation name\* South Sumatra 1 Description Assessment of palm suppliers for XYZ Mill

Customer/company name\* XYZ Palm Cooperation Country\* Indonesia

Address\* 123, ABC Street, Sumatra, Indonesia

Total area size (ha)\* 123.56 ISCC registration number if available<sup>1</sup> iscc-reg-12345

<sup>1</sup> Please note that for ISCC audits the ISCC Registration Number is mandatory.

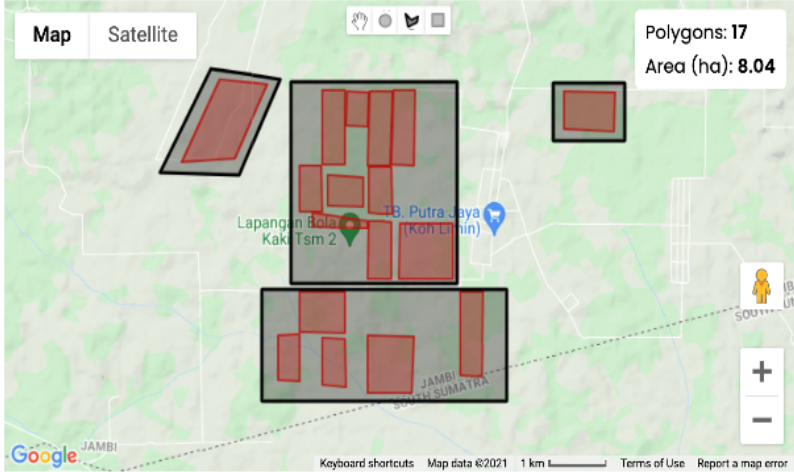
Cancel Next

- ARIA allows anyone to register and upload their polygons for an automatic risk assessment in Indonesia and Malaysia.
- User area for managing their profile, reports, requests and purchases (invoices and receipts).
- easy contact form, FAQs for assistance on using the platform as well as interpreting reports.



# Users can also split their estates into more than one report

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



Map Satellite

Polygons: 17  
Area (ha): 8.04

Select one

- Create one report for all polygons
- Create one report per polygon
- Split multiple polygons into several reports

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

Distance : click to active

Hide Draw Tool

Total Distance : 0.00 Km

Please note that GRAS is not responsible for the visual quality of the maps generated during the assessment, which are influenced by the user's selection of polygons.

Cancel Back Next

- Plantations can be divided into logical groups to create high quality reports for any given area.
- An automatic risk assessment is within a few minutes.

# Example Report

Automatic reports are free of charge for ISCC system users. ISCC system users can request detailed LUC assessment with a reduced pricing scheme

### Automatic Risk Assessment (ARIA)

- **Standardized assessment** done by the system users, CBs, etc.
- ISCC system users can obtain vouchers from ISCC and generate report free of charge.
- Evaluation of **non-compliance risks** ISCC Principle 1
- If necessary, GRAS can provide a Detailed GRAS Assessment

### Detailed LUC Assessment

- **Crop/country-specific Detailed LUC assessment** on the compliance with ISCC Principle 1 using remote sensing time series
- Can also support **HCV** assessments
- ISCC system users get **special pricing scheme** for all countries included in ARIA



# ARIA includes an Online Payment System

Create the GRAS Risk Assessment Report in four easy steps

- 1 Add details
- 2 Upload your polygons
- 3 Confirm polygons
- 4 Order Summary

Coupon Code (if any)

Order Summary	
Risk Assessment report polygon 4	€250.00
Coupon Discount Applied	-€250
<b>Total</b>	<b>€0</b>

By clicking on proceed you agree to our [Standard Terms and Use Conditions](#) and our [Privacy Policy](#).

- Integrated Online Payment System: Payment is done online.
- ISCC system users can get vouchers from ISCC and can create reports free of charge

# Users can manage their cases and payments via user board

**Purchase History**

Search

#	Report Name	Requested date	Status	Report PDF	Invoice	Payment	Action
1	Gras Risk1	2021-09-20	Invoice Received	--		<a href="#">Pay Now</a>	<a href="#">Cancel</a>
2	Gras Risk1	2021-09-14	Payment Received	--		<a href="#">Paid</a>	<a href="#">Cancel</a>
3	Gras Risk1	2021-09-13	Ready			<a href="#">Pay Now</a>	<a href="#">Cancel</a>
4	Gras detail	2021-09-10	Cancel	--	--	<a href="#">Pay Now</a>	<a href="#">Cancel</a>
5	farmname45	2021-09-06	Request Sent	--	--	<a href="#">Pay Now</a>	<a href="#">Cancel</a>
6	farmname3	2021-09-06	Payment Received	--		<a href="#">Paid</a>	<a href="#">Cancel</a>
7	farmname4	2021-09-06	Cancel	--	--	<a href="#">Pay Now</a>	<a href="#">Cancel</a>
8	farmname3	2021-09-06	Cancel	--	--	<a href="#">Pay Now</a>	<a href="#">Cancel</a>
9	Gras Risk6	2021-08-31	Ready			<a href="#">Pay Now</a>	<a href="#">Cancel</a>
10	test	2021-08-30	Payment Received	--		<a href="#">Paid</a>	<a href="#">Cancel</a>

- Same steps can be used to request a detailed assessment from GRAS.
- User receives an estimate (invoice) and the whole process is managed online via the system.
- Users can manage their previous reports, detailed assessment requests, payments and invoices in the system.



## Summary & Outlook

- ISCC has supported the development of the an ISCC P1 risk assessment tool called **ARIA**
- **ARIA** reports will be free of charge for ISCC system users
- GRAS team is currently conducting an intensive testing of the tool and is making improvements to the report based on the test results
- ARIA will be launched at the first quarter of 2022



Thank you very much!

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