


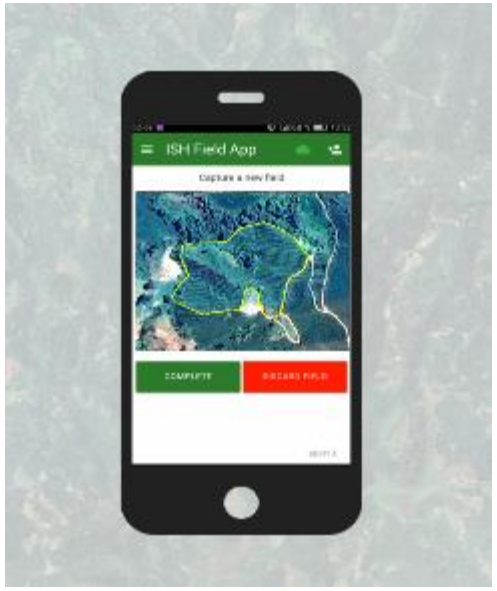

Innovative technical solutions and pilot project to support compliance with the EUDR

Pia Rothe, Global Risk Assessment Services

4C Regional Stakeholder Meeting Bogota, Colombia, 31 August 2023

01 Introduction of GRAS

GRAS is a comprehensive solution to implement and monitor sustainable and deforestation-free supply chains and to meet due diligence requirements

Identifying deforestation and degradation of high biodiverse areas

Implementing secure and efficient **monitoring** of global supply chains

Mapping and **managing** sustainability risks in agricultural production

Supporting credible and cost-efficient **certification** processes

GRAS
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GRAS is an integrated one-stop-shop solution to map sustainability information and analyse compliance with relevant sustainability criteria

Biodiversity Areas

Deforestation

High Carbon Stock

Social Indices

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GRAS has been supported by:

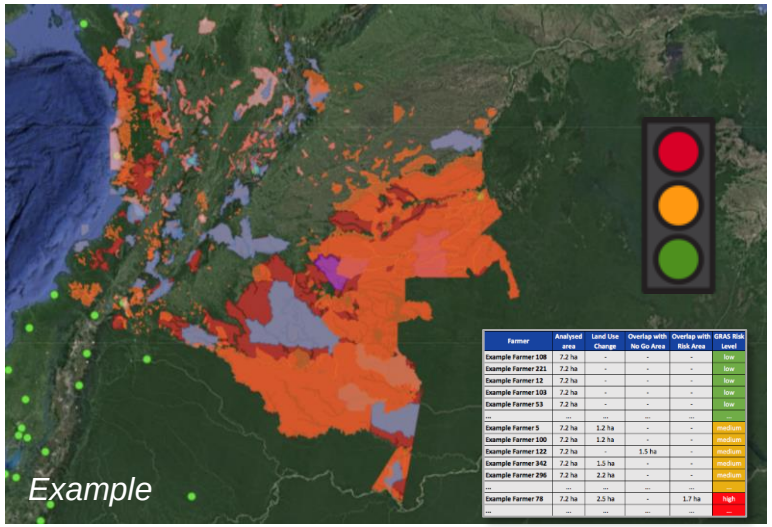
Bundesministerium für Ernährung und Landwirtschaft

FNR
Fachagentur Nachwachsende Rohstoffe e.V.

aufgrund eines Beschlusses des Deutschen Bundestages

GRAS supports the analysis and monitoring of supply chains on different levels, integrating the approaches into innovative analysis and reporting tools

The risk assessment approach enables efficient identification of high-risk areas in the supply chain. Detailed analyses at field and plantation level verify compliance with deforestation criteria



Risk assessment of sourcing regions, administrative or plantation level

Detailed analysis of land use change

Interactive monitoring and reporting tools

GRAS supports companies to comply with obligations from Due Diligence regulations

Examples

German Act on Corporate Due Diligence Obligations for the Prevention of Human Rights Violations in Supply Chains (LkSG) & EU Directive on Corporate Sustainability Due Diligence (CSDDD)

- Abstract risk assessment of relevant human rights risks
- Establishing and managing grievance mechanisms

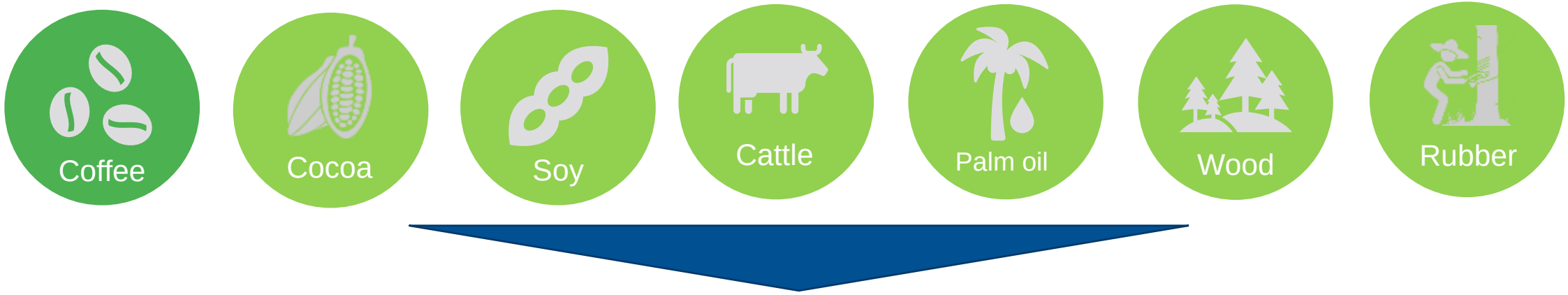
Regulation on the making available on the Union market and the export from the Union of certain commodities and products associated with deforestation and forest degradation (EUDR)

- Collection of geo coordinates, polygons and legality information
- Analysis of deforestation after 31 Dec 2020
- Risk analysis for individual deliveries
- Reporting for DD Statements and internal documentation

02 Innovative solutions to support compliance with EUDR

Obligations described in the EU regulation on deforestation-free supply chains

Proof that products are **deforestation-free** and **legal**
- Cut-off date for deforestation: December 31, 2020
- In accordance with all relevant legislation in force in the producing country



Collection of **farmer information and field coordinates/ outlines**

Provide information that production is **deforestation-free and legal**

Conduct **risk assessment** and mitigation measures

Passing on the information **through the supply chain**

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GRAS and 4C provide tools to collect and analyse relevant data for specific plantation areas, e.g. collecting geo-coordinates, analysis of deforestation

Collecting information

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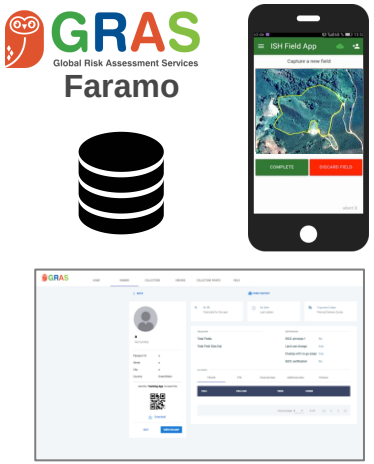
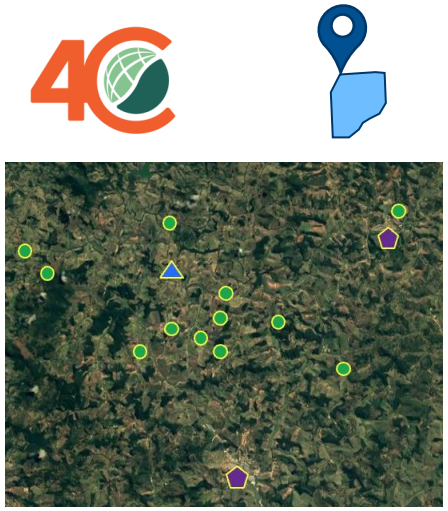
Faramo



- Mobile app for efficient data collection on the ground
- Collect basic farmer data
- Geo-coordinates & plantation outlines
- Photos of legal documents
- Questionaire on legal requirements
- Farmer management system
- Train the trainer approach

FARAMO - Management, analysis and visualization of plantation outlines and production data



4C certification includes the collection of geo-coordinates of farmers

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Identifying deforestation

Examples

Sentinel 2 (ESA, Copernicus):

- 10x10m spatial resolution
- Launch Sentinel-2A: 2015
- Images available every 5 days

Landsat (NASA):

- 30x30m spatial resolution
- Launch Landsat 4/5: 1982/84
- Landsat 8/9 available every 8 days

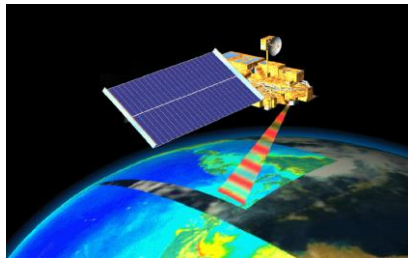
GRAS uses remote sensing technology to detect land use change and deforestation

Sentinel-2

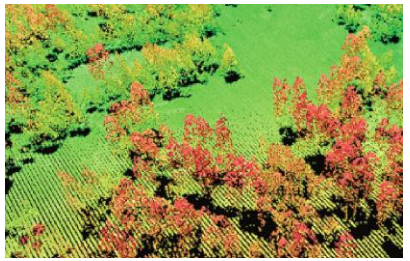
SPOT

PALSAR

Landsat

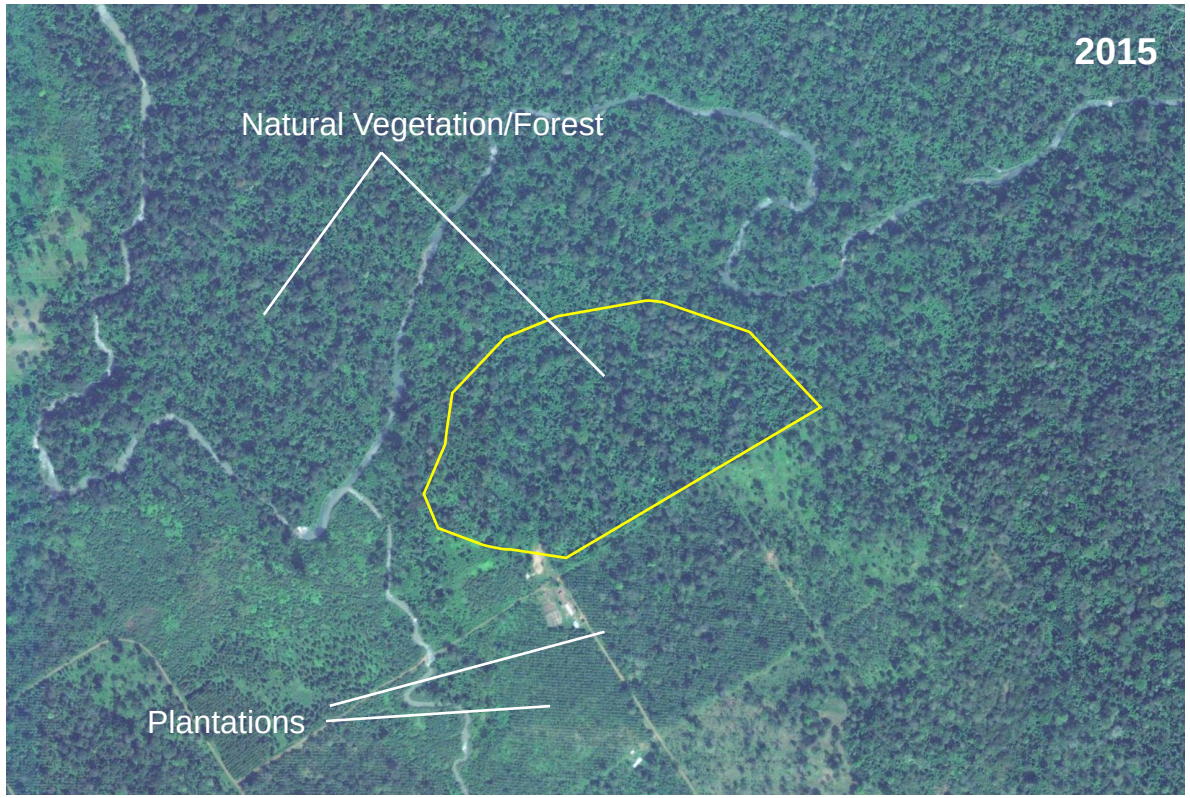


MODIS



LiDAR

GRAS uses high resolution satellite images and additional datasets on forest density and height to identify and verify the conversion of forest to plantations



Source: Maxar Technologies

Source: CNES / Airbus

Example

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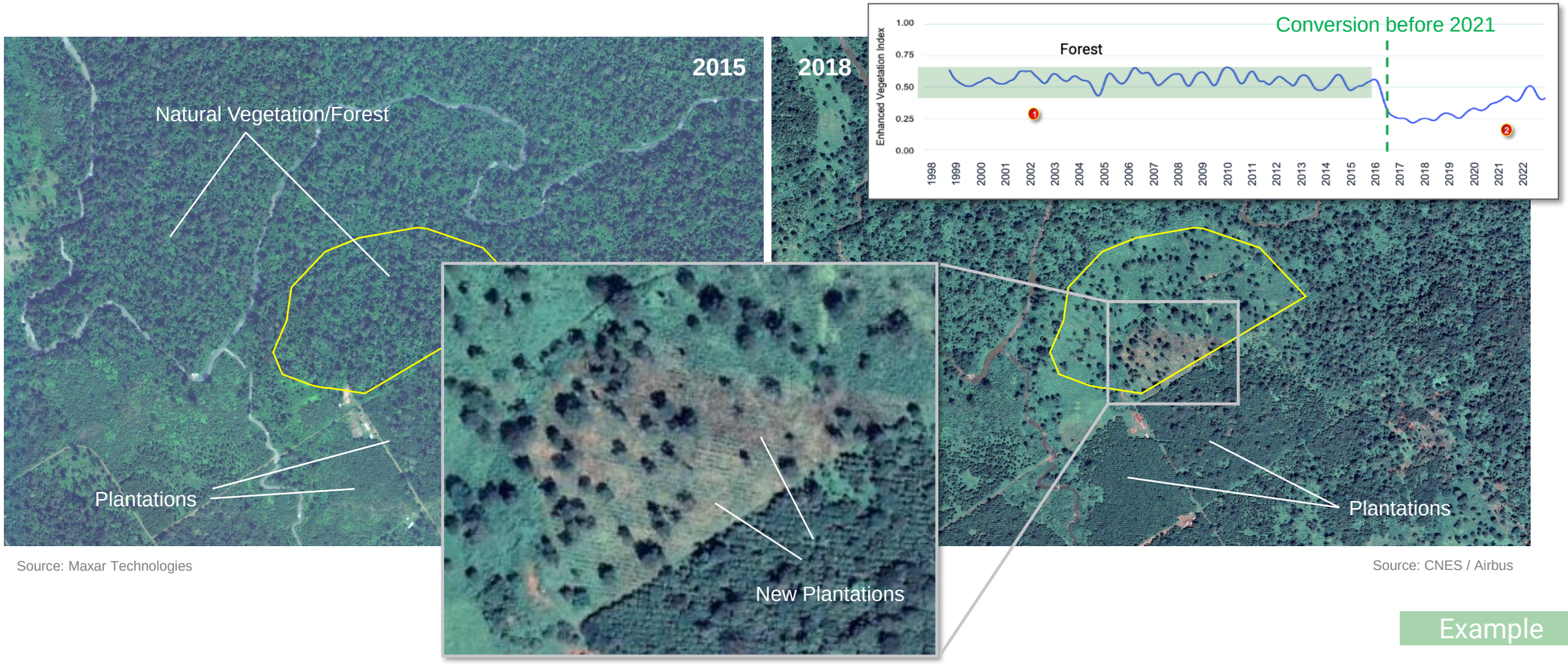
EVI time series support the identification of the point of time of land use change activities and the verification of compliance with deforestation criteria



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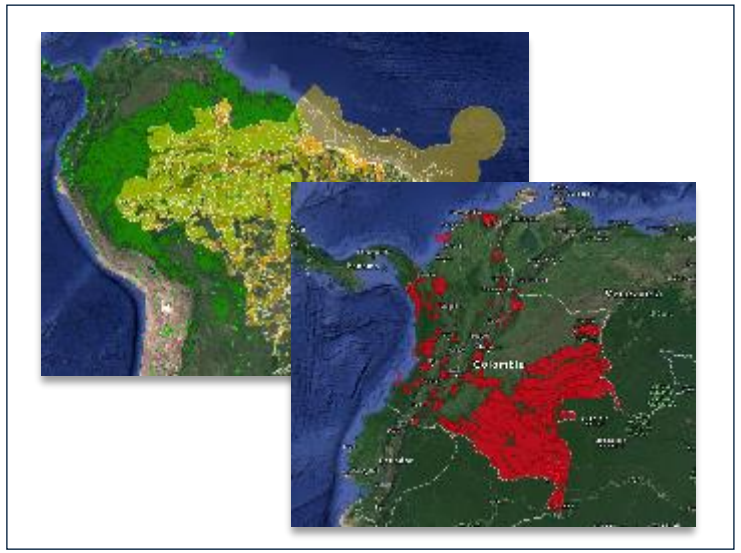
Example

The risk assessment approaches from GRAS are customized to the specific criteria relevant for DD regulations, based on geo-data & statistics and indices

Risk assessment



Forest, deforestation, protected area datasets and others are used for sub-regional risk assessment

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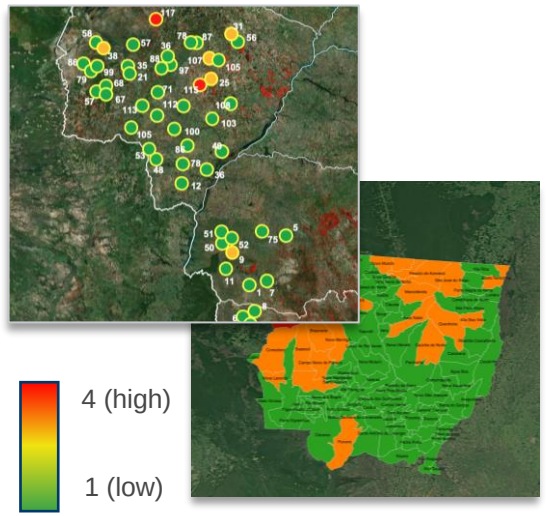
Evaluation of political and social criteria, information from certification systems and third parties



Transparent, data-based risk evaluation

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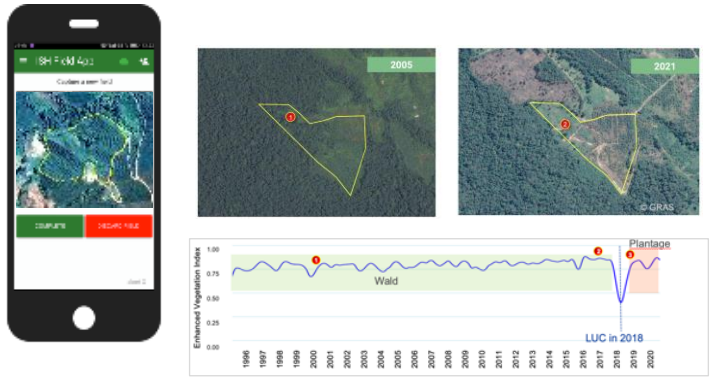
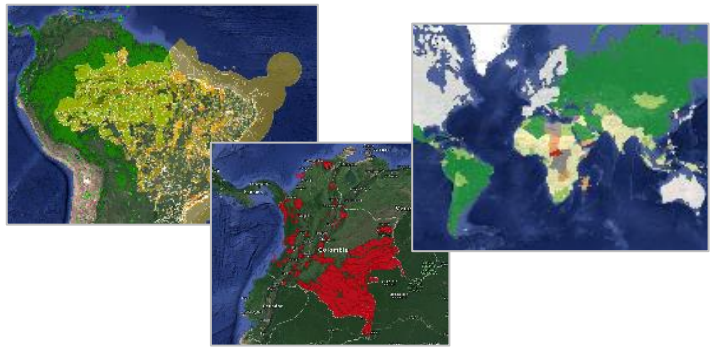
GRAS can conduct regulation-specific risk assessements and provide a tool to pass on information throught the supply chain



- Mapping of plantation areas
- Analysis using satellite data and innovative evaluation methods

Collection of farmer data and geo-coordinates & analysis of deforestation



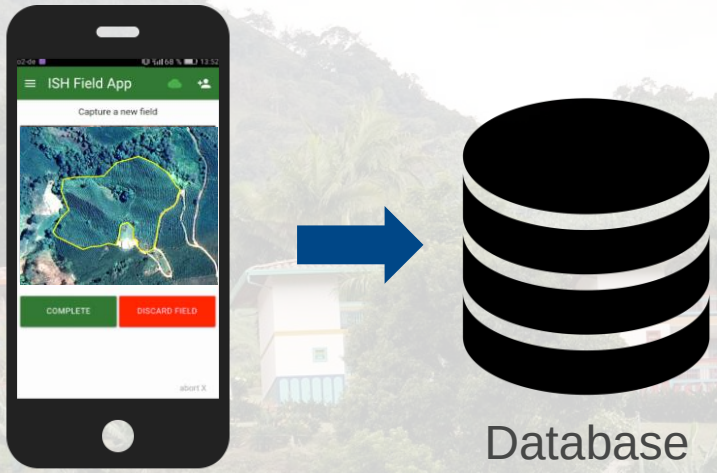
- Consideration of all relevant environmental and human rights criteria of the EU regulation

Risk assessment

- Independent traceability platform
- Passing on of farmer information through the suppy chain by „digital handshake“

Traceability

Farmer App



App

Database

Running Pilot Project:
Empowering smallholder coffee farmers in Colombia to claim deforestation-free coffee by introducing easy to use digital tools
(DKV Business Scout Fund project)

- DKV – Deutscher Kaffeeverband, FNC, GRAS, 4C
- Project time frame 1.5.-30.12.23
- Data collection for 1000 farmers in Colombia
- Training of farmers on EUDR requirements
- Train-the-trainer through GRAS to use the Faramo tool for data collection, analysis and management
- Gain knowledge and first-hand findings on local challenges on the ground

Thank you very much!

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