



Covering Due Diligence Requirements with GRAS

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GRAS supports the implementation and monitoring of sustainable and deforestation-free supply chains using transparent data-based methods



Identification of **deforestation** and the conversion and destruction of natural habitats

Secure and efficient implementation of **deforestation-free supply chains**



Mapping and management of sustainability risks in agricultural production

Supporting credible and cost-effective **certification processes and due diligence**



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



Biodiversity Areas



Deforestation



High Carbon Stock



Social Indices



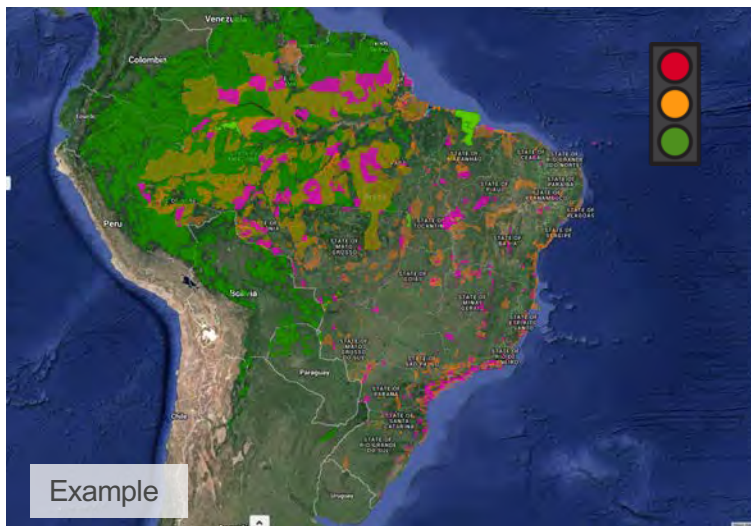
The development of GRAS has been supported by:



aufgrund eines Beschlusses
des Deutschen Bundestages

GRAS supports the analysis and monitoring of land use change in supply chains on different scopes, integrating the approaches into innovative 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

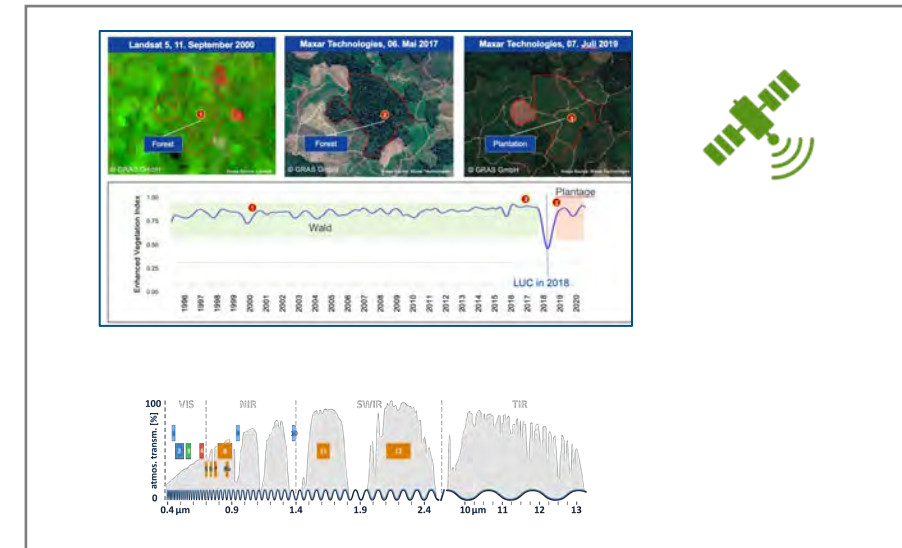
GRAS provides tools to collect and analyse relevant data for specific plantation areas, e.g. collecting geo-coordinates, analysis of deforestation

Data collection and analysis



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

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



High qualitative deforestation analysis for specific farm outlines or on regional level

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



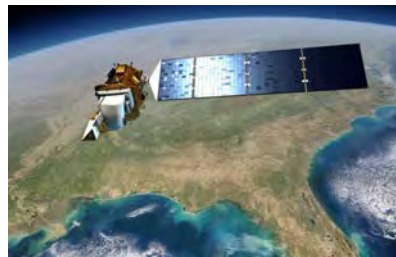
Sentinel-2



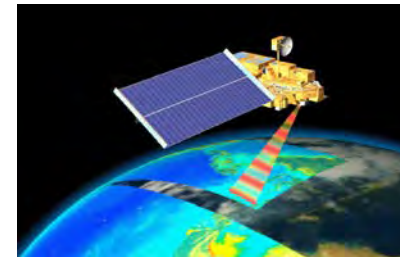
SPOT



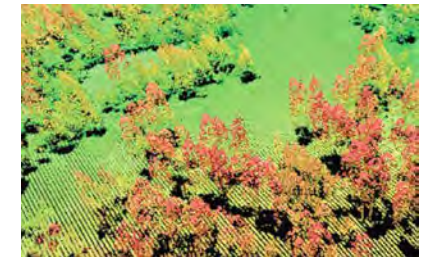
PALSAR



Landsat



MODIS



LiDAR

Satellite images and EVI time series are used to identify land use change activities, to provide relevant documentation of compliance with EUDR



Farm ID: A23
Field ID: C5896
No Deforestation

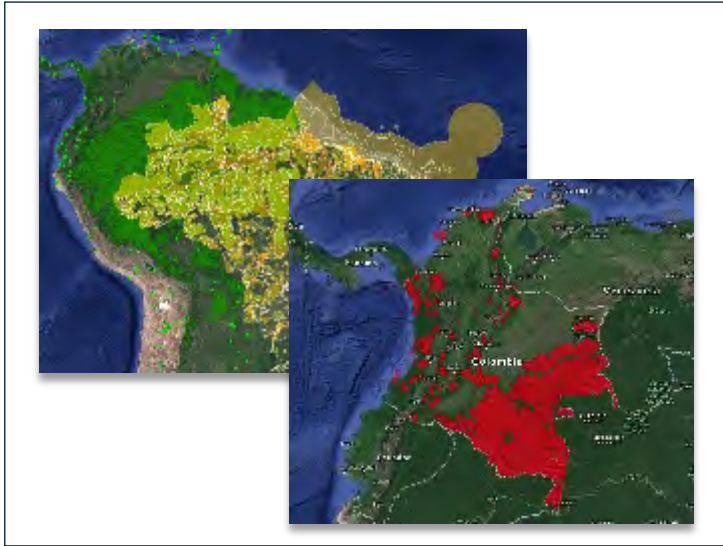
Farm ID: A23
Field ID: C4957
No Deforestation

Example

Search for location

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

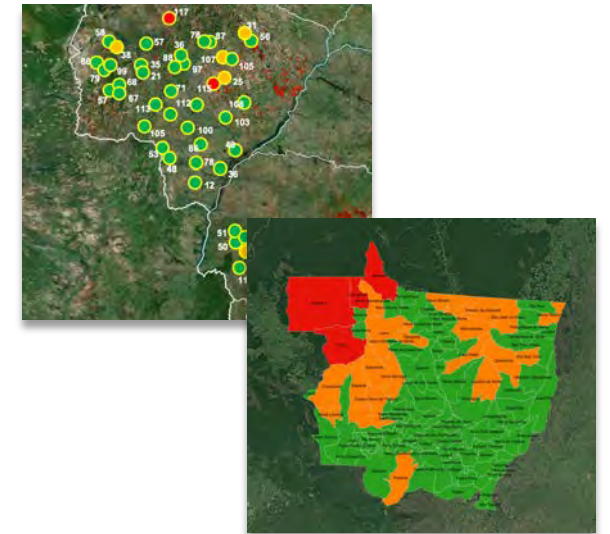


Forest, deforestation, protected area datasets and others are used for sub-regional risk assessment

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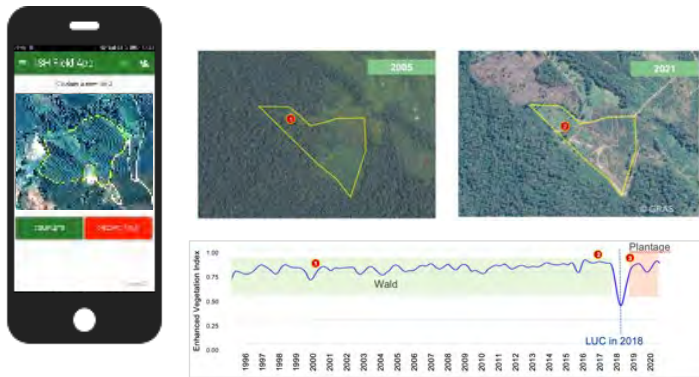


Evaluation of political and social criteria, information from certification systems and third parties



Transparent, data-based risk evaluation

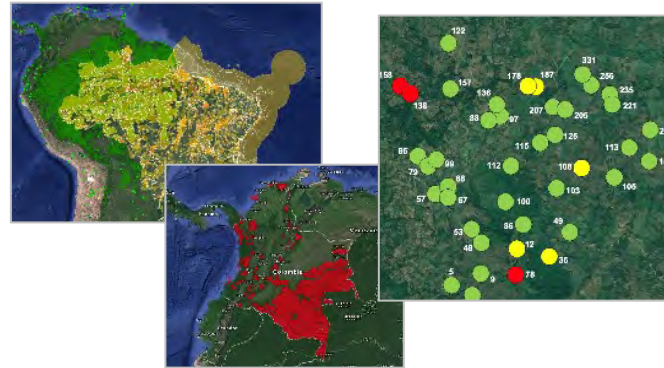
GRAS approaches and tools can be combined with other systems, e.g. certification systems and traceability platforms



- Mapping of fields and 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 certification schemes or DD legislation, e.g. EUDR



Risk assessment



- Automated and interactive management platform for the analysis of geo-coordinates



Automated analysis and documentation platform



Thank you very much!