

Certification support with Global Risk Assessment Services (GRAS)

ISCC uses GRAS to identify sustainability risks and verify compliance with relevant sustainability criteria



Biodiversity Areas



High Carbon Stock



Deforestation



Social Indices







GRAS provides solutions to implement and monitor sustainable and deforestation-free supply chains and to support certification processes through

... **identifying** deforestation and degradation of high biodiverse areas

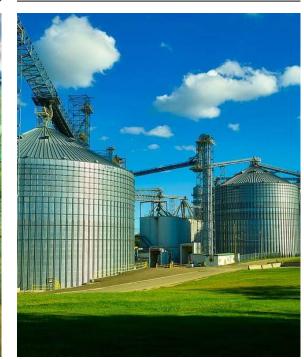
... mapping and managing sustainability risks in agricultural production

... **implementing** secure and efficient **monitoring** of global supply chains

... supporting credible and cost-efficient **certification** processes



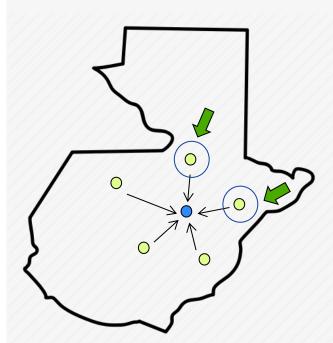








Auditors have to carry out risk assessments prior to verifying compliance with certification requirements



- First Gathering Point
- Farms that deliver biomass to First Gathering Point



- Auditor carries out risk assessments without clearly defined procedures
- Auditor selects sample farms for on site audits
- On-site verification is carried out

Audit preparation could be challenging due to lacking access to information



Support and guidance is required to facilitate risk assessment of:

- Biodiversity
- Carbon stock
- Land use change
- Social issues





GRAS supports auditors, companies and certification systems to make certification more efficient and less costly

Support auditors

- Identify sustainability hotspots for the audit
- Identify farmers that are compliant with relevant criteria



Support companies

- Check certification suitability of farms and plantations
- Manage supplier onboarding and avoid high sustainability risks
- Monitor dynamic supply base on a regular basis



Support certification systems

- Facilitate integrity assessments
- Clarify doubtful cases through fast and efficient analysis





GRAS analysis can be applied globally for a huge variety of crops

















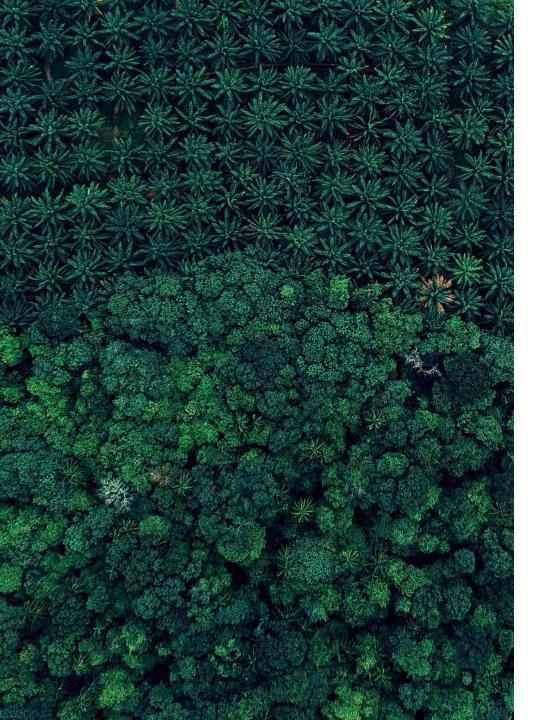












GRAS uses remote sensing technology to identify land use change, deforestation and degradation of land cover



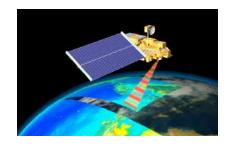
Sentinel-2



Landsat



SPOT



MODIS



PALSAR

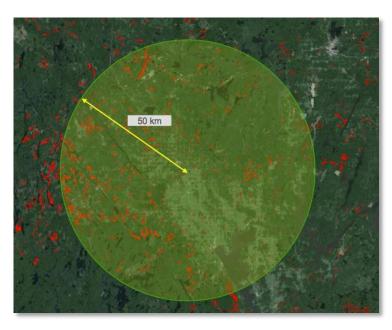


LiDAR

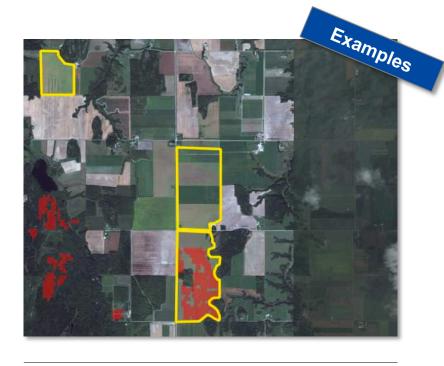
GRAS analyses sustainability risks globally on different levels, depending on specific strategies, goals and local conditions



Administrative level and cluster analysis



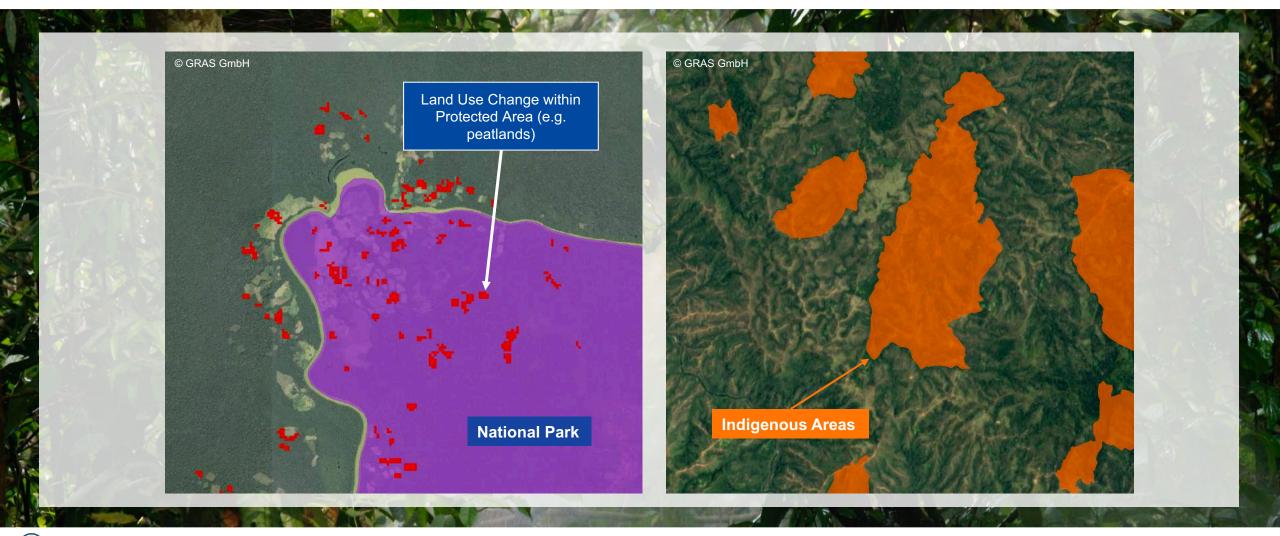
Sourcing areas with a specific radius



Detailed field analysis



GRAS can identify and monitor illegal logging within plantation areas and check violations against protected areas and indigenous areas





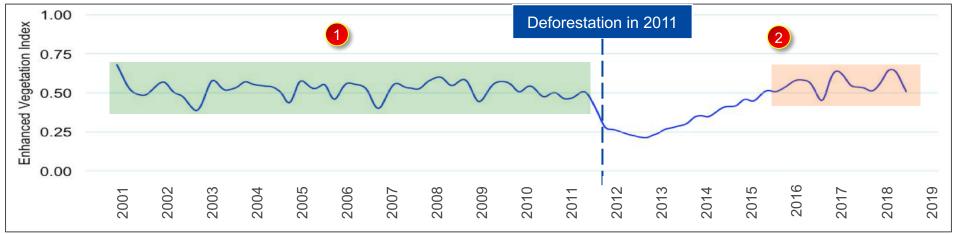
Example palm oil: GRAS conducts detailed assessments to identify deforestation using EVI time-series and high-resolution satellite images

Landsat 5, 2005



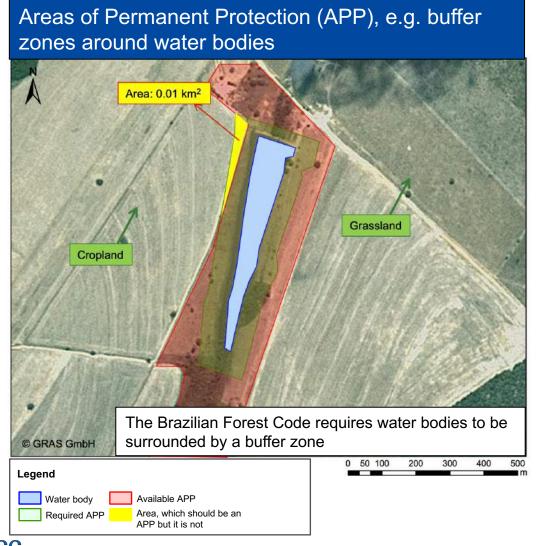


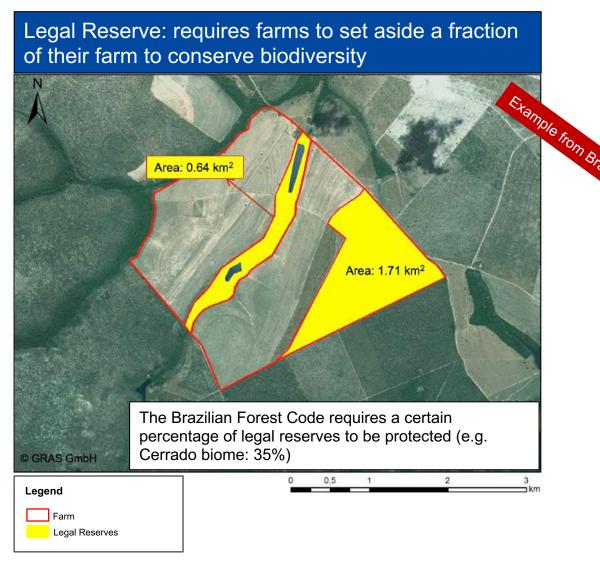
Landsat 8, 2015





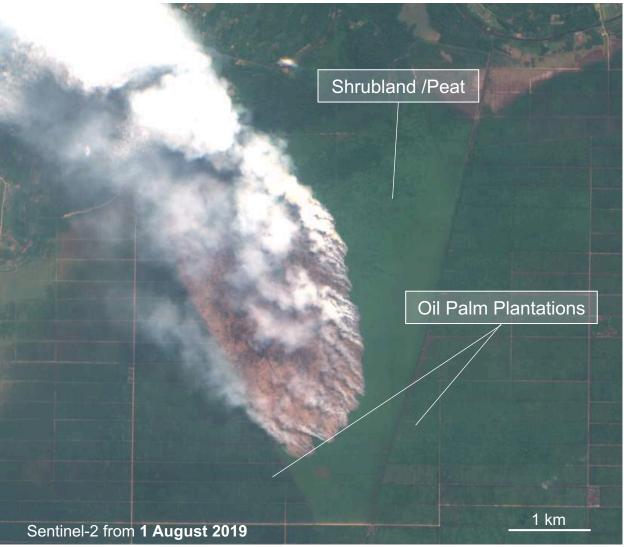
GRAS can check conformity with legal requirements, such as the Brazilian Forest Code

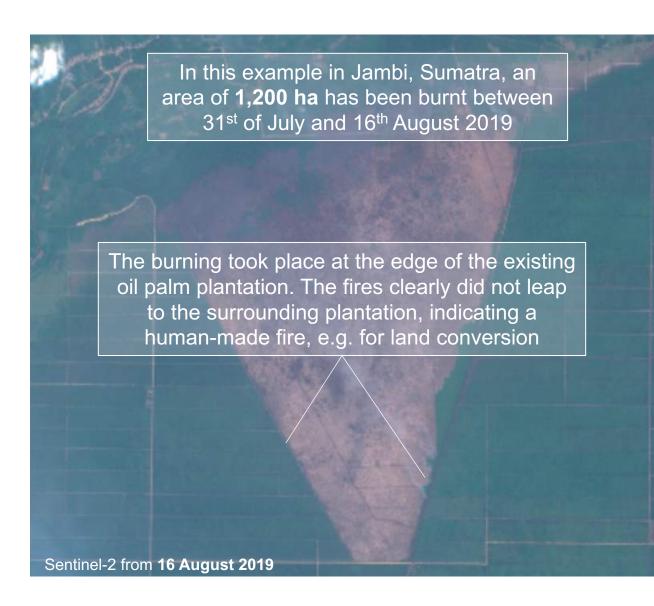






GRAS can identify active fires and provides daily updated fire alerts

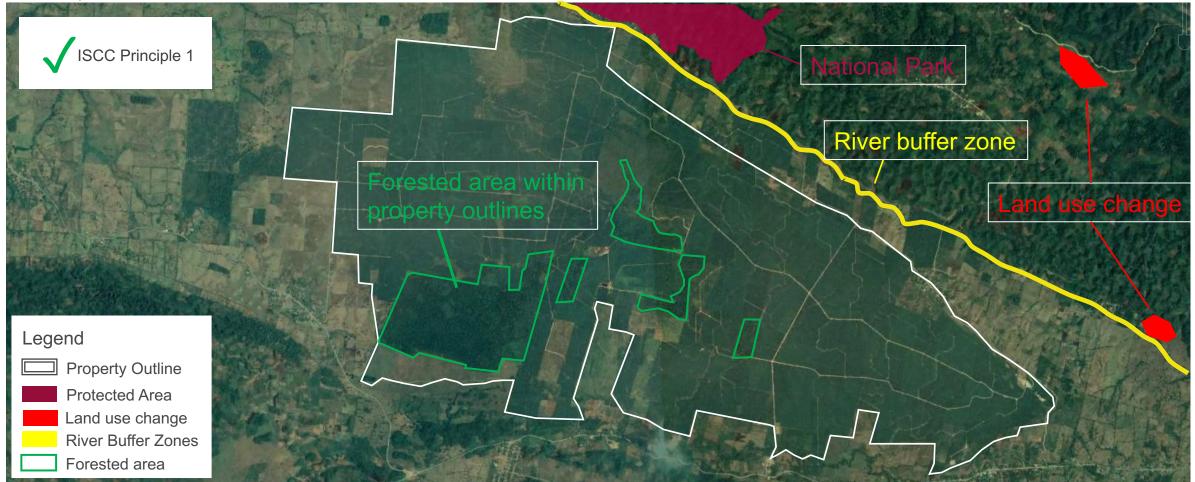






A GRAS assessment provides comprehensive support to credible and efficient certification

Example Plantation

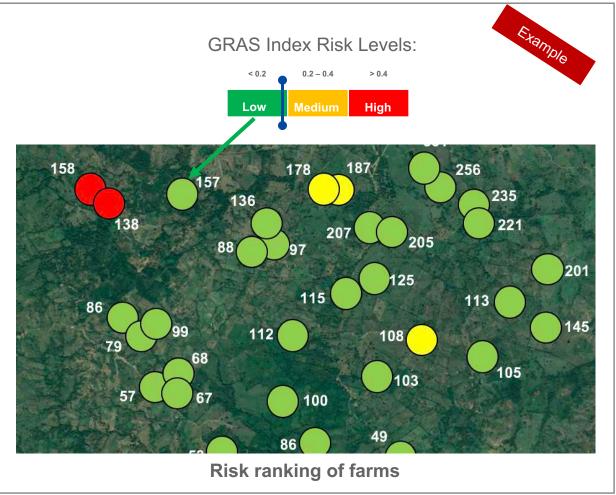




Fictive Example

Based on the identified sustainability risks, GRAS calculates the GRAS Risk Index to easily determine the risk level of the assessed area

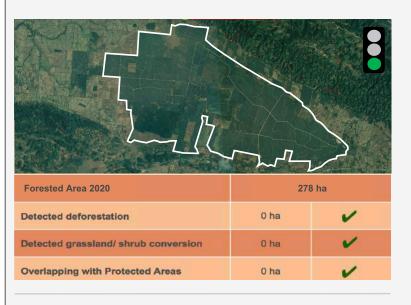


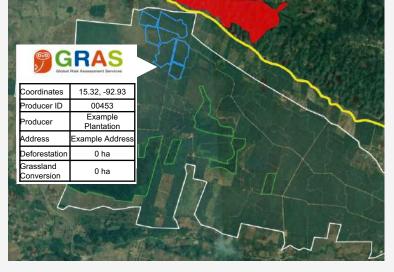


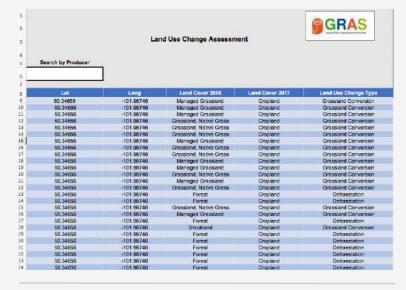


GRAS can provide all analysis results in concise reports and interactive tools

Plantations can be analyzed and a baseline for the subsequent monitoring can be set







Detailed Reports

Interactive Tool

Dashboards and Databases



With GRAS, certification becomes....







Many thanks for your attention!

ISCC System GmbH
Hohenzollernring 72, 50672 Cologne, Germany
Email: info@iscc-system.org