



# REDD+ MRV: Accurate and Reliable Forest Monitoring

## Satellite Imagery for Your Measurement and Reporting Needs

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One of Earth's largest contributors to greenhouse gas emissions is deforestation and forest degradation through agricultural expansion, infrastructure development, logging, fire, and other forms of land-use change. Planet Monitoring for REDD+ MRV provides an Earth observation-based monitoring program to help you assess and quantify change in forests from regional to national level.

Take advantage of Planet's proven track record. Since 2009, Planet has supported many countries around the world with reliable information for complete, accurate and timely measuring and reporting. Planet's complementary support to national REDD+ MRV strategies can help you navigate the complex REDD+ financial ecosystem to maximize compensation.

### Get a Closer Look at Your Country's Forest Dynamics

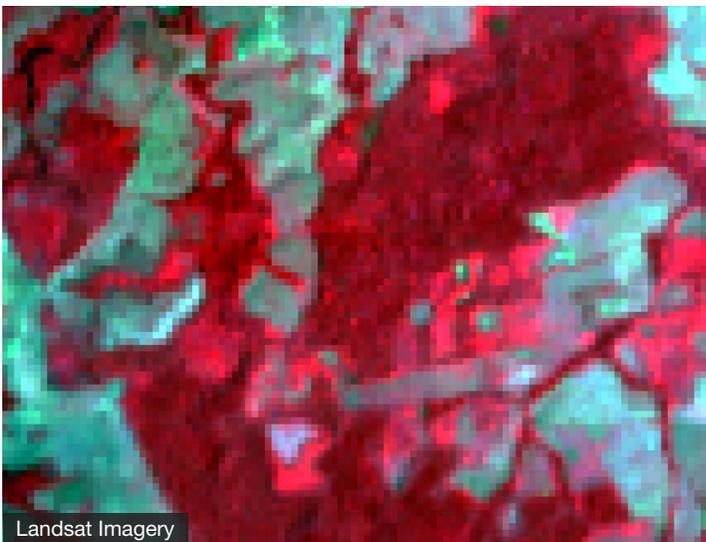
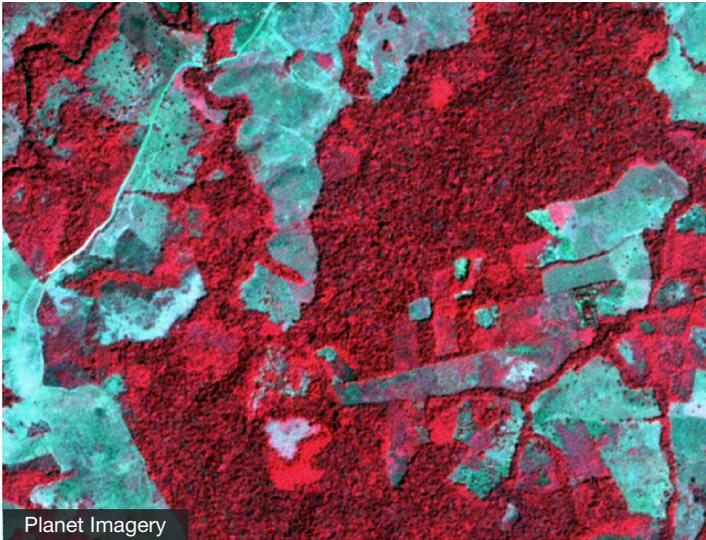
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REDD+ countries must produce a detailed assessment of forest change by monitoring land use, forest dynamics and land management practices on a regular basis. Planet's high resolution imagery provides detail to identify different types of forest and features including narrow operational roads, small clear cuts or selective thinning.

- Identify forest disturbance at a level of detail not possible with Landsat or Sentinel-2 imagery
- Detect drivers of deforestation and forest degradation
- Improve your measuring and reporting activities with a reliable, cost-effective imaging solution that guarantees country coverage.



Ochre-colored logging roads lead to a newly-constructed port on the Indonesian Island of Pulau Pini.



RapidEye (5 m) (top) vs Landsat (30 m) (bottom) comparison. This example shows how high resolution imagery (RapidEye or PlanetScope) allows for detecting smaller features and complex spatial patterns compared to Landsat.

## Enhanced Monitoring

Many REDD+ countries are located in the humid tropics. These cloudy and hazy regions pose a challenge to acquire usable imagery on a reliable and consistent basis. Planet's constellations of 100+ satellites will ensure a dependable source of imagery whether you need a single annual coverage or monitoring in near-real time. Planet's frequent in-year imagery provides information for accurate land monitoring and trend analysis.

- Establish a solid forest reference level for REDD+ using archive imagery dating back from 2009
- Benefit from daily revisits over very cloudy areas to get complete coverage
- Identify and monitor change consistently over time in the short and long term

## Advance Your MRV Strategy

Planet's collaborative, cloud-based online platform lets you access and process huge amounts of data in near real-time. Leverage stakeholders' firsthand forest dynamics knowledge and experience by seamlessly incorporating applications and protocols into Planet's platform and API and then sharing them with all participants.

- Utilize a cloud-based platform that makes for easy access, efficient dissemination and fast processing
- Enable the informed and active involvement of all stakeholders
- Utilize a platform that continues to grow and evolve based on user-driven capabilities



Feb 2013



May 2013



Aug 2013



Nov 2013

Frequent revisit: In-year time series of a rain forest area in Madre de Dios, Peru. The landscape is highly dynamic, with substantial changes occurring in a matter of months.

## For Further Information

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