



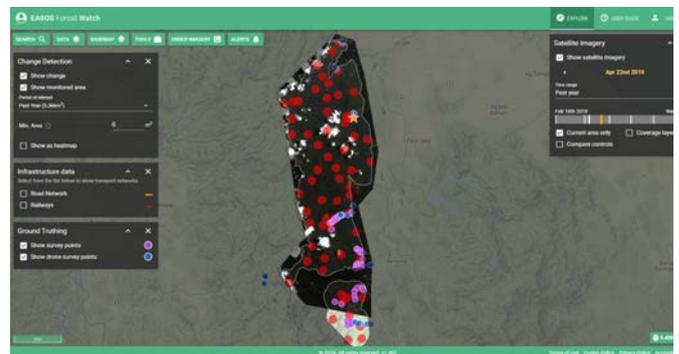
EASOS Forest Watch in Action:

In June 2018, following alerts generated by EASOS Forest Watch for the forest reserves of Pelagat and Rasau Kerteh in Malaysia, EASOS' in country partner conducted validation exercises to confirm the extent of change detected. On the ground activities were able to prove extensive logging and activities had taken place in the areas of interest.

EASOS Forest Watch is a state-of-the-art application which aims to reduce deforestation by enabling timely interventions of illegal logging, providing actionable intelligence and access to deforestation alerts. In addition to the significant environmental impact, illegal logging effects legal logging activities through loss of employment, revenue and opportunities for local communities.

The application automatically monitors vast areas of forest and provides customised deforestation alerts to the user when changes to the tree canopy are detected. These alerts allow the user to investigate possible illegal logging activities and provide information on the location and extent of activities to support intervention.

Forest Watch helps tackle the issue of deforestation by offering monitoring and detection of a change in national forest resources on a monthly basis. In addition, it has the option for users to purchase more frequent and higher resolution satellite data to aid in the deployment of ground resources. EASOS Forest Watch utilises the latest satellite data available for regional and country level monitoring, including a Synthetic Aperture Radar (SAR) component, which operates in all weather conditions, day, or night.



EASOS Forest Watch enables:

- **Regional level detection** and monitoring of logging activities across thousands of kilometres
- **Enforcement** of forestry legislation and management practices
- **Authorities to protect** the endangered species threatened by their diminishing habitat

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Forest Watch

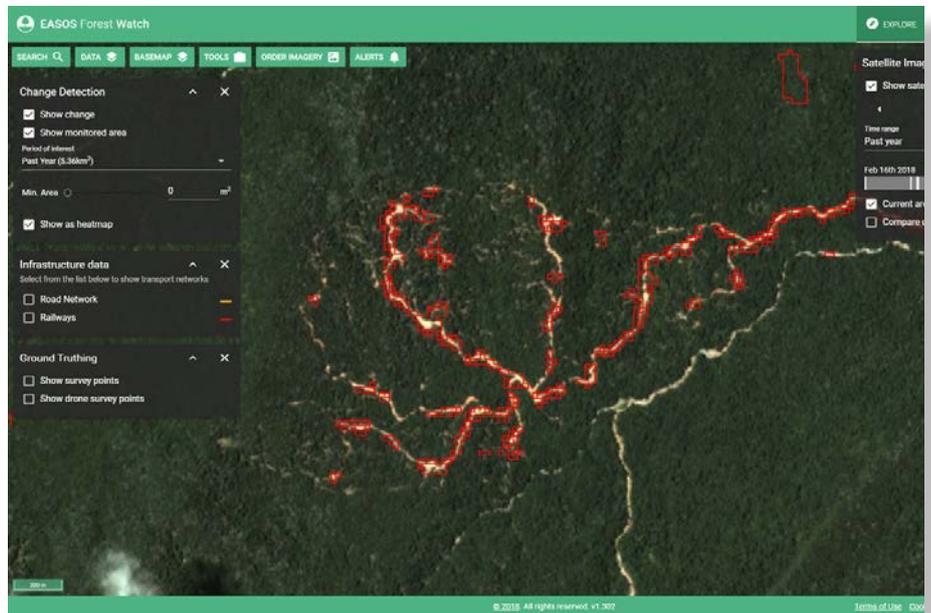
Regional Level Detection

EASOS Forest Watch delivers the right intelligence at the right time to meet your specific forestry management challenges.

Forest Watch provides users with the ability to monitor changes within a forest area; from regional to country scale on a monthly basis. Changes in forest cover exceeding 0.02 hectares are detected and alerted to the users. EASOS helps users to detect general illegal logging, encroachment of agriculture, inappropriate extension of logging concessions into protected environments and more.

Enforcement and Protection

EASOS Forest Watch harnesses the power of satellite imagery to automatically monitor vast swathes of forest for protection purposes. It is designed to detect changes to the forest canopy and automatically notify the authorities of change. When combined with local knowledge of ongoing legal operations, protected landscapes, and other intelligence, it offers a cost-effective decision support system in the fight to maintain national areas of protected forests. In addition to the regional/country level coverage, EASOS provides users with the ability to target monitoring services to local level areas of interest and vulnerable sites.



SPECIFICATIONS SUMMARY

	DATA	<ul style="list-style-type: none"> • Satellite data acquired monthly to provide regular change detection monitoring and update national forest maps • Both satellite data Synthetic Aperture Radar (SAR) and Optical used to avoid limitations of cloud cover, day and night 	<ul style="list-style-type: none"> • Results immediately integrated with additional environmental, mapping, asset, and other open source imagery to maximise operational value
	MODELLING SIMULATION	<ul style="list-style-type: none"> • Automatic detection of changes in the forest canopy for a target area 	<ul style="list-style-type: none"> • Users are able to annotate areas of deforestation with their analyses
	VISUALISATION	<ul style="list-style-type: none"> • Compare the condition of alerted areas before and after deforestation • Maps are made available as generated from satellite data and presented in a way, suitable for users unfamiliar with satellite data (SAR or Optical) 	<ul style="list-style-type: none"> • Additional intelligence can be included, such as locations of previous illegal logging, forestry reserves, indigenous populations and ranger stations
	ALERT	<ul style="list-style-type: none"> • Automatic alerts when change has been detected in the tree canopy caused by felling of trees, creation of new roads, or logging tracks 	<ul style="list-style-type: none"> • Custom alerts can be automatically issued based on the amount of deforestation, the density of deforestation or continued change in a specified area
	ACTION	<ul style="list-style-type: none"> • Information for decision makers with situational awareness such as: <ul style="list-style-type: none"> • Size and location of change • Cumulative trend • Sensitivity of areas 	<ul style="list-style-type: none"> • Rapidly share locations of interest to allow intervention