AWave
Earth Intelligence Alert System

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What is AWave

AWave is the Earth Intelligence alerting and notification system for near real time multisource monitoring of the physical world based on a specific Area of Interest (AOI).

- Change Detection via EO and SAR
- Human Activity via IoT device data
- Event Alerting based on News, Crime Data, Traffic, Weather, Natural Disasters, and Emergencies

AWave is an AOI based monitoring product for users that need to have consistent awareness for non-technical users to leverage the advanced analytics capabilities of Maxar.

- A web application that provides users with geographically referenced notifications for areas they oversee.
- APIs available for programmatic access to outputs.

AWave polls a host of internal data platforms as well as 3rd party providers to deliver timely notifications across a broad range of event categories.
# Protect assets using AWave

<table>
<thead>
<tr>
<th>Human Activity</th>
<th>Illegal Mining</th>
<th>Deforestation</th>
<th>Pipeline Security</th>
<th>Border Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>USDI Pilot Project</strong>&lt;br&gt;Innovation lab project based on Human Activity and IoT Data</td>
<td><strong>Colombia</strong>&lt;br&gt;Change Detection over National Parks to combat illegal mining and deforestation</td>
<td><strong>Brazil</strong>&lt;br&gt;Change Detection to find illegal deforestation</td>
<td><strong>Peru</strong>&lt;br&gt;Monitoring high-risk Pipeline in Peru</td>
<td><strong>Ecuador</strong>&lt;br&gt;Monitoring the borders of Ecuador, land and sea</td>
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Who is AWave for?

**Operations Managers / Asset Managers** - AWave provides real-time situational awareness for operation managers who oversee vast amounts of physical area and critical infrastructure.

- Fill the gaps in your current monitoring scenarios.
- Increase your multi-source situational awareness.
- Use SAR to see through the clouds, see what is happening between EO satellite captures.
- Get the big picture with access across multiple sensor types and temporal revisit.
- Go mobile and get into the field with your events using the AWave Mobile app.
AWave is the Earth Intelligence Monitoring Solution

AWave monitors your areas of interest for:

- Urban / Water / Agricultural Change
- Human Activity via IOT
- Weather via WeatherDesk
- Traffic
- News
- Multimedia
- More to come
Questionnaire

Data formats: What happens with the data collected/analyzed/produced in your platform? Can you export it and use it in other platforms/software?

The data is analyzed in the cloud by Maxar and the results are made available to the end user. The raw data is typically not available but in some cases can be acquired upon request. Product roadmap looks to allow API endpoints powering Awave to be available to end users.

Usage: How difficult is it to use the tool? Do you need any technical or special skills to use it? what is the timeframe to implement it?

Product has been specifically designed for non-technical users. Implementation timeline is hours.

Support: Are there support materials/training/technical support available (proprietary tool)? Is there a sizeable user community (open tools)?

Kickoff demo should be enough to enable full comprehension of the tool. The user community is small due to the tool being new, but growing!

Availability: Is it currently available to WB staff? What about clients countries/governments?

Not available currently to WB staff

Cost: Is it free, pay-as-you-go or a subscription-based system? Has the WBG already paid for it?

Subscription-based model that could be purchased for the World Bank Group and leveraged by various teams within the Bank.

Licensing: Does the WBG currently have a license to use it? Can WB client countries utilize it as well?

No. Yes other countries can use the tool if they purchase access.

Monitoring and evaluation: Can you create an indicator (baseline) and track it overtime? How frequently can be done? How accurate?

The entire premise of the tool it to monitor areas over time. The frequency is based on the sensor collecting data as well as the area of interest. More remote regions will have fewer signals in Awave than compared to downtown Singapore.

WBG previous experience: Have the tool been used in a WB project before? If so, give us a quick example?

Not yet

Trial: Can a Task Team Leader (TTL) try the tool? What is the best way to contact you for follow up questions?

We could set up a trial account following a discussion/approval from our Product Manager.
Thank You!

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