



EMPOWERING CIVIL GOVERNMENT WITH SATELLITE IMAGERY



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ON THE COVER St. Louis, Missouri - May 10, 2018

Canyonlands National Park, Utah, USA - March 27, 2019





1. CIVIL GOVERNMENT EMBRACING INNOVATION

Emerging technologies bring great opportunities for civil government. Billions are being invested to upgrade technology infrastructure to allow for more up-to-date data and reduce the time between questions and answers for impactful decision-making.

Planet data is proving to be a cost-effective way for governments to monitor and detect change in their regions, with more transparency to improve policy and promote economic growth.



2. VALUE OF SATELLITE IMAGERY

Planet's frequent, medium and high-resolution imagery solutions serve as a comprehensive approach to managing both state and public lands. Civil government departments, agencies, and land trusts can continuously monitor vast areas for long term insights, and cue high-resolution satellites for a more detailed look at what is happening on the ground.

Planet can track changes on Earth at scale for:



Productivity

Reduce cost and optimize operational efficiency



Frequent Insights

Complete visibility into rural and remote areas



Innovation

Modernize with a strong GIS community and generate regional economic activity



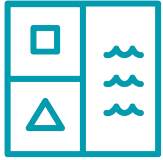
Transparency

Measure and report on policy impacts





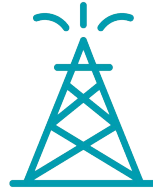
3. PLANET IMAGERY APPLICATIONS



**Permit
Enforcement**



**Emergency
Response and
Preparedness**



**Infrastructure
Monitoring**



**Agriculture
Support and
Subsidies**



**Natural Resource
Protection**



APPLICATIONS: **PERMIT ENFORCEMENT**

Colombia's Autoridad Nacional de Licencias Ambientales (ANLA), the agency responsible for issuing environmental licenses, monitors infrastructure, mining, and energy projects covering 200,000km² spread throughout the country. Planet imagery allows for early detection of violations with frequent monitoring of large and dispersed permitted areas.



Above is a wind farm located in La Guajira department, over 1,000 kilometers from Colombia's capital, Bogotá. ANLA has granted its first license for 250MW wind energy generation project consisting of 65 wind turbines.



APPLICATIONS: **EMERGENCY RESPONSE**

Iowa's Emergency Management team needed to generate a state-wide, up-to-date assessment of the scale and scope of damage during record floods in spring 2019. With Planet imagery, they were able to ensure a coordinated response and align stakeholders at all levels reaching up to the governor.

Pacific Junction, Iowa, USA · March 17, 2019



“Planet data helped us direct our attention and resources. We increased our situational awareness with the most recent images of affected areas throughout the state.”

JON PAOLI

Communications & Infrastructure Bureau Chief
Iowa Homeland Security & Emergency Management



APPLICATIONS: **INFRASTRUCTURE MONITORING**

As the second busiest container port in the United States, the Port of Long Beach (POLB) generates approximately \$100 billion in trade and employs more than 316,000 people in southern California.

Using SkySat imagery, the POLB monitored development and construction projects over the core of the port. The imagery collected will be used to ensure that safety concerns and traffic are being addressed, and will also be utilized as a key dataset for any potential emergency situations like earthquakes and floods.



Previously, the POLB relied on the use of helicopters and fixed winged aircraft to deliver photos chronicling construction efforts. While a wealth of images are collected from airborne platforms, their value diminishes quickly over time.



“Relying on Planet’s weekly satellite capture to supplement construction activities is an excellent way to avoid the time and materials required to reproduce images from airborne platforms.”

Shaun Healy

Information Technology Project Manager
Port of Long Beach

Port of Long Beach, California, USA • February 14, 2020





APPLICATIONS: **AGRICULTURE MONITORING**

India has experienced record droughts over the past decade, putting food security at risk for its population of over 1 billion. Planet partnered with Eye in The Sky Technologies to offer the government scalable, in-season agriculture monitoring with state-wide coverage. The government is using high frequency imagery to improve agricultural insurance products with crop yield forecasting and earlier detection of damage due to weather, pests, and disease.



These images were taken of agricultural fields in Beed, Maharashtra over the period of almost 10 years. The 2010 (left) season shows normal vegetation. The 2016 (middle) and 2019 (right) seasons show lakes drying and loss of vegetation as central India experienced some of the most severe droughts on record.



Agriculture fields before monsoon season

Hunsur, India • May 10, 2019





Agriculture fields after monsoon season

Hunsur, India • November 5, 2019





APPLICATIONS: **NATURAL RESOURCE PROTECTION**



The Czech Republic responded to bark beetle outbreaks by identifying dead forest stand and sanitary logging, as shown for the Zlín Region above. The analysis used Planet's 4-band Basemap of the entire country.

Unprecedented bark beetle outbreaks are difficult to control and are devastating forests across Europe and North America.

The Czech Republic's Forest Management Institute is leveraging Planet's Basemaps of the entire country to understand the full scope of the beetle infestation, mitigate further risk to valuable timber, and deploy resources more efficiently. With Planet, they are able to identify, survey, and report all beetle-damaged areas throughout the Czech Republic.



“There is no other comparable commercial system offering the combination of sensing large areas in high spatial and temporal resolution.”

PETR LUKEŠ

Remote Sensing Scientist
Forest Management Institute
Czech Republic

4. EMPOWERING CIVIL GOVERNMENT

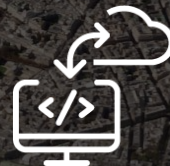
Planet imagery is uniquely positioned to provide civil government new levels of intelligence and insight to advance key mission objectives. Departments and agencies new to leveraging satellite imagery have access to Planet's simple, integrated platform with comprehensive onboarding and continued customer support. Seasoned experts can work with Planet's analysis-ready data and platform integrations to upgrade their current geospatial datasets.



Frequent delivery of
medium- and
high-resolution imagery



Cloud-free,
analysis-ready
basemaps



Simple API and
cloud-based platform
for efficient access



Integrations with
platforms like Esri and
Google Earth Engine
for workflows of choice



5. LEARN MORE

To learn more about how to access to the most current imagery for your territory, visit: www.planet.com/markets/civil-government

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