planet.

PLANET ANALYTICS: ROAD AND BUILDING CHANGE DETECTION
Monitor. Find the signal. Analyze.

Organizations require fresh insights about new roads and new buildings as they emerge. But manual analysis of change within imagery is often too time-consuming and incomplete.

Planet Analytics: Road & Building Change Detection allows organizations to monitor large areas efficiently and at scale. It points users where they need to look to find the latest infrastructure changes. Powered by deep learning models, Road & Building Change Detection extracts change cells from Planet's 4.7 m basemaps, representing where new buildings and new roads have been developed. Detections are published on a monthly basis and easily integrate into your workflow.

BENEFITS

Efficiency

Reduces the time it takes to monitor large areas and identify infrastructure changes, helping you achieve your business objectives more quickly.

Fresh insights

Road & Building Change Detections are delivered every 30 days, so that you always have the latest information to make informed decisions.

Situational awareness at scale

Planet's global imagery means you get insights across broad geographies as well as multiple locations of interest.

GLOBAL SCALE

Planet Analytics: Road & Building Change Detection can be applied globally and tailored to your areas of interest, from continent, to national, to city-wide level, where cloud-free Basemaps are available. Reach out to our team below to learn what is possible for your areas of interest.

HOW IT WORKS

We leverage Planet Basemaps and confine it to your specific area of interest (AOI). The daily revisit rate of our satellites means we can create broad-area mosaics with minimal cloud cover on a monthly basis.

Planet Analytics uses computer vision techniques to perform advanced imagery analysis on Planet Basemaps over the specific area of interest (AOI) and several time points to extract specific changes.

The resulting analytic layers are delivered to the customer via Planet's Analytics API and available for download as GeoJson.

The analytic change detections can also be viewed on our Web User Interface, the Analytic Viewer.

DIVERSE USE CASES

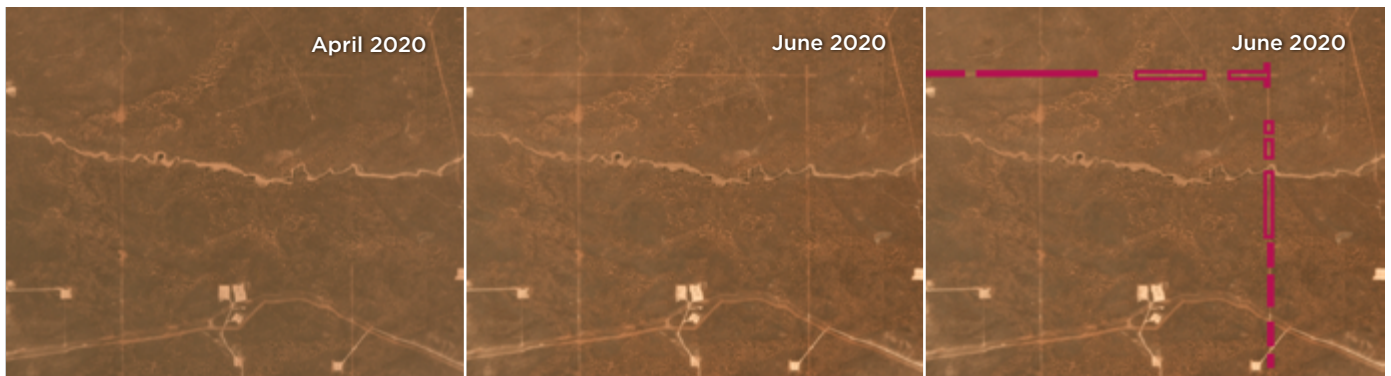**Defense & Intelligence:** Update your base layers every month

New city next to Herat, Afghanistan

Mapping: Reduce mapping errors before they are reported by users & customers

Doha, Qatar

Civil Government: Accelerate permit enforcements by rapidly detecting illegal constructions

New Mexico, United States

LET'S TALK

Contact Us
Learn how Change Detection can help you
turn data into actionable insights
go.planet.com/getintouch

We're Here to Help
Get answers to technical questions about
Road and Building Change Detection
support@planet.com

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