

# LeoLabs Tracking and Monitoring

Independent satellite tracking-as-a-service for resilient space operations

LeoLabs Tracking and Monitoring service provides satellite operators with immediate access to affordable, accurate orbit information on-demand from a fully independent commercial tracking source. Built on the LeoLabs data platform – the industry’s only platform fueled by a dedicated commercial radar network – this automated service delivers precision tracking and orbit data for satellites and constellations of any size. Designed for operational use as a fully independent primary or backup tracking service for on-orbit satellites, it helps inform the operational decisions of satellite operators worldwide. It is the foundational service that underpins the full portfolio of more tailored LeoLabs services.

## The commercial-off-the-shelf satellite tracking service

LeoLabs Tracking and Monitoring is provided as a web-based subscription service and includes the following features accessible via the LeoLabs data platform and API:

### Satellite State Vectors and Ephemerides

Receive state vectors and propagated ephemerides with covariance data, 2-5x per day for your satellites. Our orbit determination algorithms are tuned specifically to our radars, and are continuously calibrated against several verified reference objects to ensure high accuracy and covariance realism.

### Radar Pass Statistics

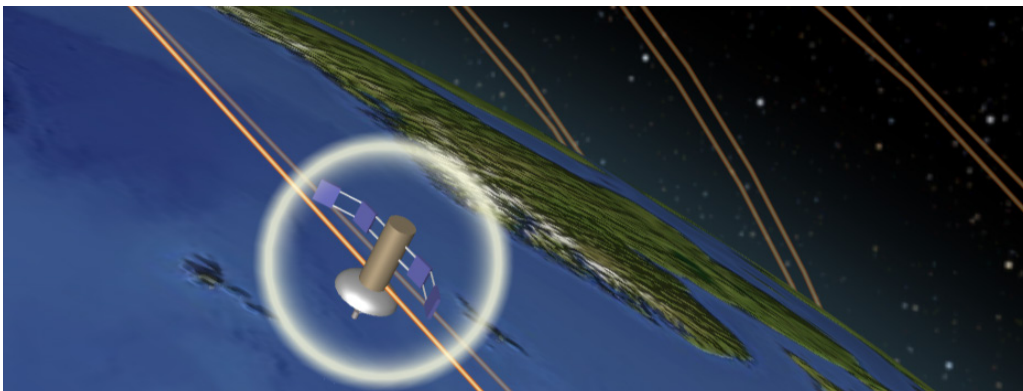
Access recent and upcoming radar pass times and predictions, so you can plan with confidence.

### Real-Time Data Deliveries

Gone are the days of batch processed data only delivered at certain times. LeoLabs data products for your satellites are delivered in real-time as soon as they’re generated, typically within 15 minutes of a given radar observation.

### Fleet Management Dashboards

Tailored web tools providing access to data products plus at-a-glance views of last 30 days of data, in desktop and mobile-friendly browser views.



**Operate confidently with  
always-on location data**



**Track constellations of  
any size**



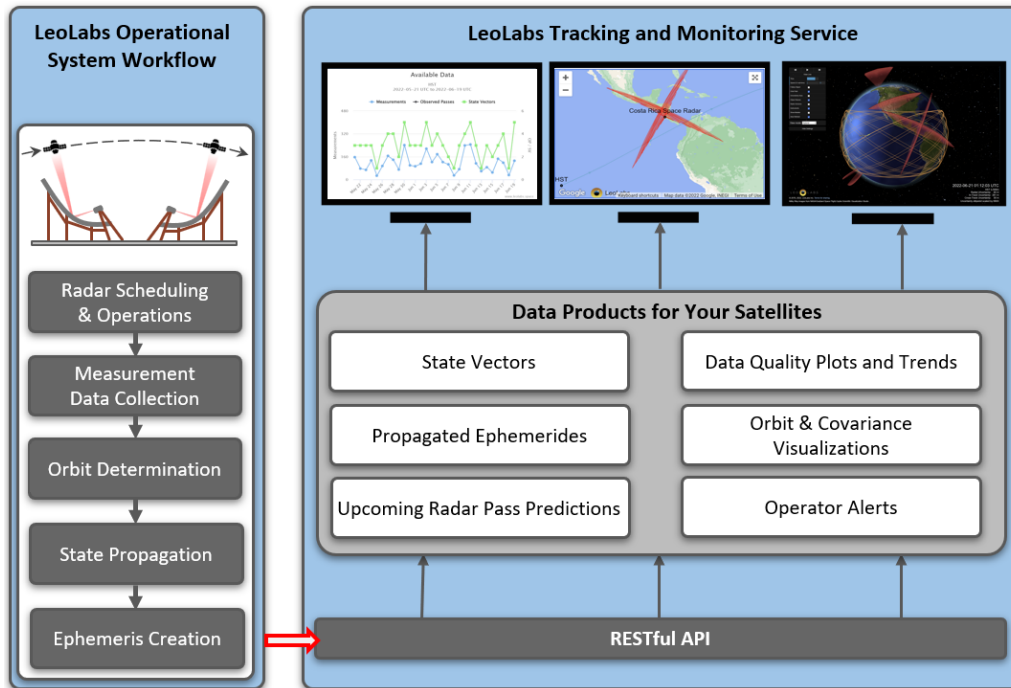
**Inform operational  
decisions**



**Save staff time  
and resources**

## Use Cases for Independent Object Tracking

Our customers have utilized Tracking and Monitoring operationally since 2019 to support a variety of use cases including GPS calibration, maneuver validation, Earth-observation scheduling, Active Debris Removal (ADR) mission planning, Space Domain Awareness (SDA) for governments, and more.



## Operational Benefits

### Operational Resiliency

The service can act as the primary tracking and location service for smallsats or cubesats with limited or no onboard GPS capability, or as an independent navigation backup service to GPS for satellites of any size.

### Proven Performance

LeoLabs radars and services are utilized today operationally around the world, with extensive internal and external validation for data accuracy.

## Ready to get started?

Contact us today to learn more about LeoLabs Tracking and Monitoring or the other services in our portfolio. Request a 14-day free trial for your satellites at: [platform.leolabs.space/register](https://platform.leolabs.space/register).

### Streamlined Operations

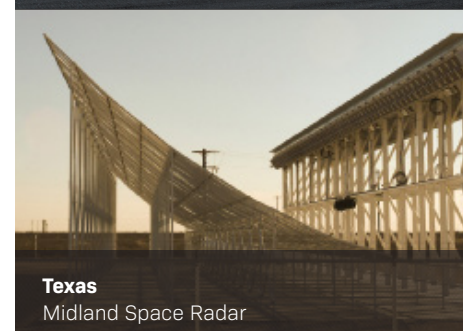
Leaving the tracking to LeoLabs allows operator teams to focus on their main missions. Our service is fully automated and designed for efficient system integration.

### Cost Savings

No need to purchase or operate expensive orbit determination software. All of our services are 100% web-based, and we deliver finished data products straight to you via our web dashboards and API.

## Radar Network Growth

- Today: six radars at four locations
- 2022: adding one southern hemisphere site and one northern hemisphere site
- 2023-2025: further expansion to 20+ sites



## Radar Network Planned Capability

- Industry-first capability to track objects < 10cm in size
- Catalog of 10x more LEO objects than today (estimate)
- Revisit rates of 10+ times per day for prioritized objects



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