EO Image Acquisition Planner

To maximize customer request fulfilment

As remote sensing operators, your primary goal is to fulfil as many customer requests as possible. Doing this with manual plans is painful because you need to account for multiple actions such as station keeping, flight software updates, multi-band downlinks etc. in addition to your imaging activities.

Leanspace makes you more competitive by allowing for optimal payload usage, provides peace of mind with human-on-the-loop automation, and lowers your operational costs.

Want to maximize your fleet usage?

Deliver the ideal amount of image requests while respecting resource and system constraints, and accounting for all platform and payload activities

Looking to reduce your operational costs?

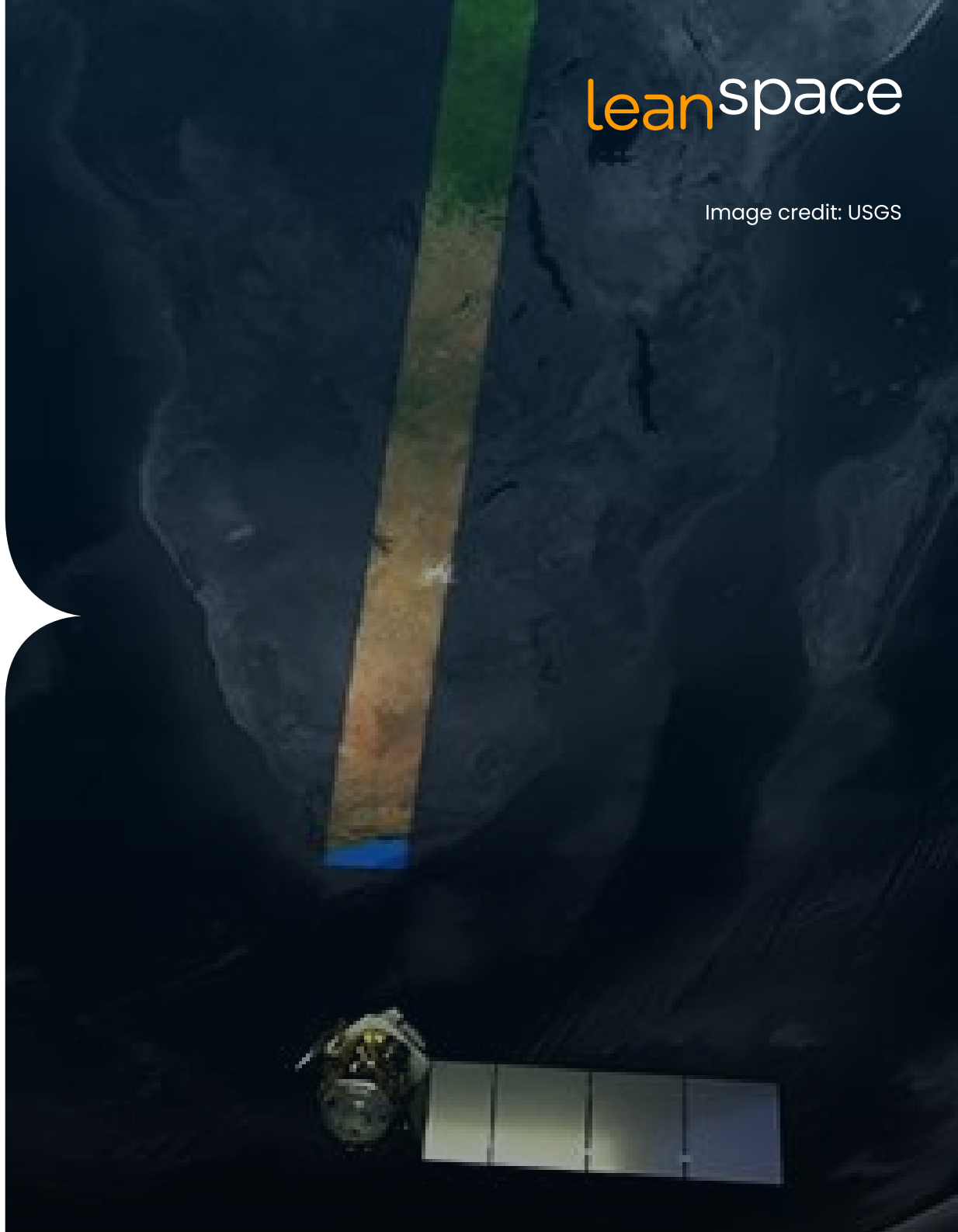
Leverage our priority-based plan generation algorithms or easily integrate your own to leverage your IP

Unable to fulfil customer requests on time?

Leanspace enables dynamic replanning so you're not stuck with rigid, fixed planning cycle, and can handle urgent requests even moments before your pass

Unsure how to manage different payloads?

Leanspace is both platform and payload agnostic. Plan your acquisitions for both optical, SAR, and RF payloads; or modify the bus as requirements change



Key Features

leanspace

Request Handling

- Receive, track, and prioritize your customer requests
- Manage the status of requests based on operational cycle
- Run feasibility checks using out-of-the-box or custom algorithms for point, polygon, and circle AOI types
- Supports mesh decomposition with multiple acquisition opportunities generated for each mesh

Safe planning and replanning

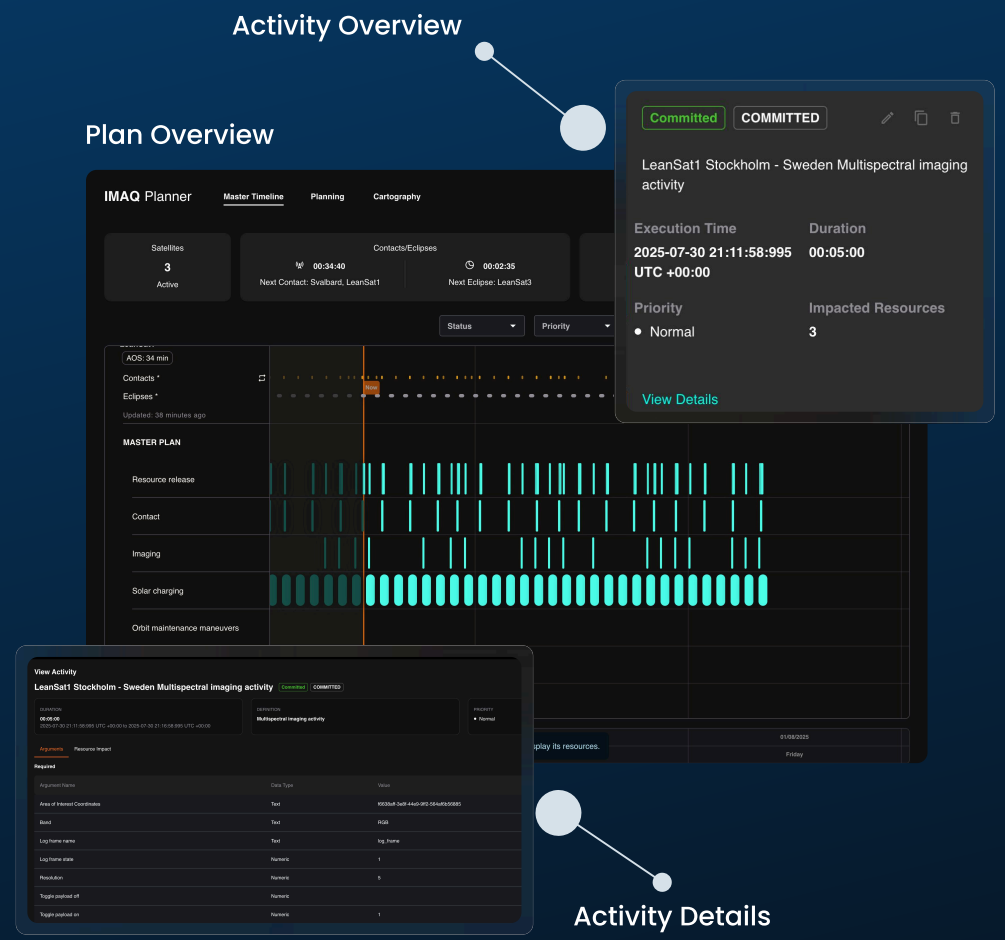
- Create a feasible plan for your preferred time horizon incorporating sub-plans for different use cases
- To replan, just duplicate the most recent plan, and adjust it based on your needs
- Security mechanisms that ensure only constraint-validated and committed plans can be used for telecommand creation
- Access the history of plan changes for auditing purposes

Resource and Constraint Modelling

- Simulate the resource usage for your current and draft plans
- Create mission-specific constraints (such as activity-to-activity or activity-to-event relation) to ensure plan validity
- Adjust resource models using the latest telemetry to increase simulation precision

Built-in FDS functionalities

- Determine and propagate orbits
- Generate eclipses and ground station contacts
- Easily integrate additional FDS tools or algorithms of your choice



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