

Meet Propeller.

Your geospatial **data hub.**

Propeller is a cloud-based workspace where project and production teams meet to map, measure, and manage site activity with survey data.

- Access anywhere, on any device
- Interactive 3D survey experience
- Simple reporting + analytics templates
- Surface comparisons + conformance checks
- Flexible data integrations
- Centralized media + 360 photos
- Real-time collaboration
- Single-time sign-on



20K worksites powered by Propeller

170K users collaborating on the map

76K reports created and shared

1.2M

Total AeroPoint captures

5,000+

Compatible coordinate systems

8.46mm

Average AP accuracy



Accurate

Turn survey data into an interactive map that everyone can understand and use to make informed decisions.



Any device

Access Propeller from any device and use the mobile app to take maps into the field.



Easy

Eliminate information bottlenecks by empowering your teams to measure and manage their sites themselves.



Scalable

Scale up stress-free with our on-demand survey processing that's managed by a team of GIS experts.

Manage it all from one map.

Make the map a meeting ground where project teams can access critical insights on their own and collaborate effectively.



Centralize your project data

Centralize your field photos, survey data, and design surfaces, and invite different stakeholders to collaborate.

Track progress with ease

Layer 3D designs against your recent surveys to generate cut-fill heatmaps and calculate what's left to do.

Keep your site on record

Avoid disputes and build trust with a complete visual record of site activity from takeoff to closeout.

Generate reports instantly

Create PDF reports with pre-filled templates to give key stakeholders a status update without any manual work.

Measure with 1/10ft (3cm) accuracy

Avoid disputes and build trust with a complete visual record of site activity from takeoff to closeout.

Visualize your site in 3D

Forget 2D maps. Bring your site to life with interactive 3D surveys that your whole team can understand.



Key features

- **Volume calculations:** Measure the volume of material in a specific area or stockpile with just one click.
- **Berm check:** Measure safety berms, bunds, windrows, or other barriers. Draw a line across the barrier to calculate height and width.
- **Surface area:** Measure the surface area of any designated area on the map.
- **Media and photos:** Pin, organize, and respond to media and 360° photos to the map.
- **Cross-section comparison:** Measure cross-sections of one or more designs or survey surfaces along a specified line, both vertically and horizontally.
- **Point of interest:** Mark features and points of interest on your site for easy record-keeping or sharing with your team.
- **Cut-fill analysis:** Measure the amount of surface material above and below final grade.
- **Road grade:** Draw a line along a section of road, pavement, or track to calculate the grade as a degree, percentage, or ratio.
- **Distance:** Draw a line between two or more points to measure total surface length, point-to-point distance, and horizontal distance.
- **Safety hazard:** Mark safety hazards and assign severity levels for improved site safety.
- **Slope angle:** Draw a line along any slope to calculate the slope angle in degrees, percentage, or ratio.
- **Terrain cleanup:** Automatically filter out terrain inaccuracies or obstructions to enhance map accuracy.
- **Survey-to-survey comparisons:** Measure progress or change in volume between your selected survey and the previous site survey.
- **Survey-to-design comparisons:** Measure site progress since the previous survey and against an uploaded design surface.
- **Design-to-design comparison:** Measure the change in volume between two designs within a polygon.
- **User permission management:** Manage permission levels for users invited to your portal for secure project and survey sharing.
- **Timeline slider:** Visualize site changes across the lifetime of a project or between surveys using the timeline slider.
- **Surface runoff:** Assess how heavy rainfall or weather conditions will affect site conditions.
- **PDF reports and custom exports:** Generate and share reports with ease for efficient communication and collaboration.
- **Elevation history:** Track the change in height at a specific point across multiple surveys.

Imports ↓

Designs

- GEOTIFF
- Land XML
- TTM
- DXF
- KML
- KMZ
- CZML
- IFC

Survey

- Geotagged JPEGs
- AeroPoints
- GCPs

Media

- 360 photos
- JPEG

Point cloud

- LAS/LAZ

Pre-processed

- GEOTIFF

Exports ↑

3D model

- DXF

Orthophoto

- GEOTIFF
- JIFF
- JPEG

Point cloud

- LAZ

Shapefile

- CZML

Survey boundary

- GEOJSON

Contours

- DXF

Measurement outlines

- DXF
- KML

Media

- 360 photos
- JPEG

Integrations

- Procore
- Aconex
- Autodesk Build
- BIM 360
- Microsoft OneDrive

Request a demo today to learn how Propeller can help you **map, measure, and manage** your worksite.



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