



LEVERAGING DRONE TECHNOLOGY

Environmental
Management & Planning

Civil/Design
Engineering

Environmental
Restoration

Natural & Water
Resources

Health &
Safety

Technology

From systems planning to software and interactive mapping development, EnSafe specializes in technology that boosts our clients' business processes and project completion.

Small Unmanned Aircraft Systems (sUAS), or drones, are rapidly developing tools for environmental and engineering projects. Drones provide innovative methods for collecting data, often at lower costs and more efficiently when compared to traditional methods. Portable and versatile, drones can carry various sensors, fly precise programmable flight paths to acquire data to be analyzed in its raw form, and use software and analytics to convert that data into useful, actionable information.

USE CASE SCENARIOS

- Building/roof inspections
- Landfill inspections
- Topographic surveys with survey-grade accuracy using GPS ground control points
- Post-physical site walk inspections for further detailed analysis
- Construction progress monitoring
- Agricultural "plant health" monitoring
- Rapid spill response mapping
- Volume calculations
- Surface erosion/settlement identification
- Historical site image comparisons
- Video capturing property

DELIVERABLES

- High-resolution orthomosaic site aerials—up to 1 inch per pixel
- Digital Elevation Models (DEMs) and Digital Terrain Models (DTMs)
- Site topographic contours—up to one-foot intervals
- 2D and 3D site feature digitizations
- Stand-alone 3D models (3D PDFs)
- Interactive 3D site viewers
- Dronedeply.com for cloud-based rapid sharing and collaboration

Industries Served



Environmental
Management/
Restoration



Industrial/
Manufacturing



Construction/
Demolition



Aerospace



State
DOTs



Federal



Transportation/
Ports



Healthcare/
Pharmaceuticals



Parks and
Recreation



Oil/ Natural
Gas



Timberland
Industry



Chemicals/
Pesticides



Metal
Manufacturers



Electrical/
Utilities



Solid/Hazardous
Waste Sites



Landscape
Design



Engineering



Petroleum
Refining



Real Estate/
Private
Developers



Mining & Mineral
Processing

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