ENSAFE

LEVERAGING DRONE TECHNOLOGY

creative thinking. custom solutions.

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, flying precise programmable flight paths to acquire data to be analyzed in its raw form, or using software and analytics to convert into useful, actionable information.

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

USE CASE SCENARIOS

- Hazardous site inspections
- 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 6 inches per pixel
- Digital Elevation Models (DEMs) and Digital Terrain Models (DTMs)
- Site topographic contours—up to 1-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

Clients

Aleris/Novelis
City of Bowling Green, KY
City of Dickson, TN
Nyrstar
JWS, LLC
U.S. Navy
LWD, Inc.
Tennessee Department of Transportation
South Carolina Department of Health and Environmental Control
Halliburton, LA
Kilgore Flares Co., LLC
Walker Die Casting, Inc.

Contact Us

Frank McInturff, PE Principal,
Chief Technologist (904)
367-4324
fmcinturff@ensafe.com

TEL 800.588.7962

www.ensafe.com

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