

# Digitize Your Assets with Drones

The ability to collect and use large amounts of data is transforming our world. Collins Engineers, Inc. is using drone hardware and software to capture and digitally replicate assets, giving owners unprecedented ability to visualize and manage their valuable assets.

Our engineers are experts in the use of drone technology and, more importantly, experts in asset inventory and inspections. Our teams help owners collect and process drone data into deliverables to be analyzed, annotated, stored, and shared. Let our team help your agency transform the way assets are managed and leverage this technology to improve workflows.

## TOOLS

Our drone teams employ a variety of purpose-built commercial drones and hardware to meet the specific needs of each asset and location.



### senseFly Albris

- Inspection
- Mapping
- High resolution imaging
- Infrared images and video
- Ultrasonic object sensing



### Intel Falcon 8+

- Inspection
- Mapping
- High resolution imaging
- Infrared images and video
- Ultrasonic object sensing
- Interchangeable payloads



### Flyability Elios

- Inspection
- High resolution video
- Infrared video
- Collision tolerant



### Propeller Aeropoints

- Automatic GCPs
- Enable survey grade geospatial accuracy
- Locate assets and defects accurately

## APPLICATIONS



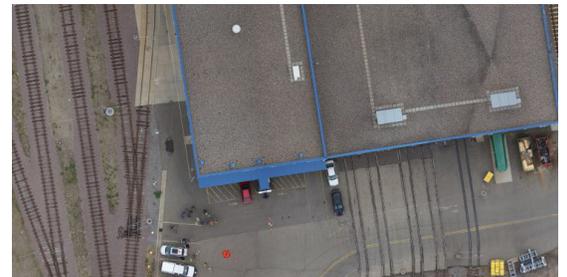
Asset Management



Bridge Inventory and Inspection



Emergency Response



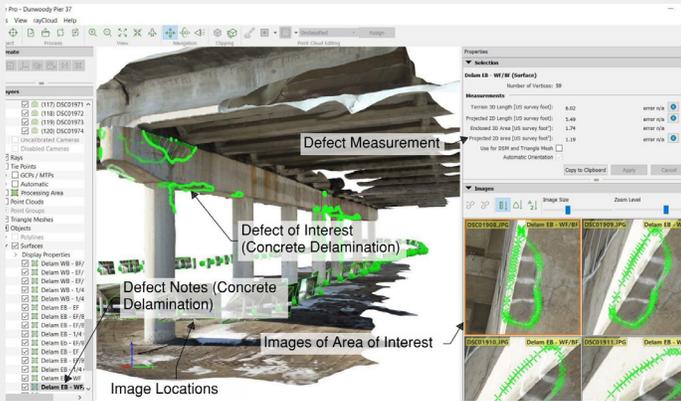
Mapping

Building Inventory and Inspection

Construction Site Management

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## DELIVERABLES



3-D Photolog and Virtual Inspector

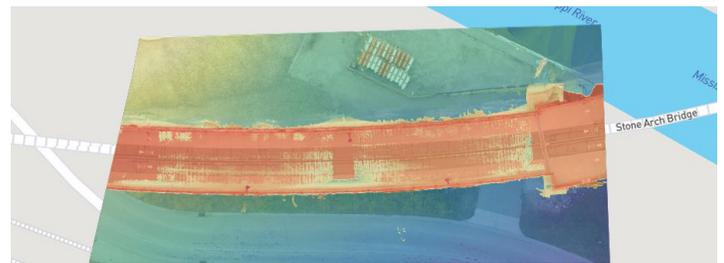


3-D Textured Mesh



3-D Point Clouds

Data collected with drones can be processed into a digital twin of any asset. This digital twin provides asset owners with a three-dimensional geometrically and geospatially accurate model that transforms the ways assets are managed. These models can be annotated and tagged with inventory and inspection information that can be stored and shared locally or on cloud-based asset management platforms. The data can be exported and used in a wide variety of CAD and GIS platforms.



Digital Surface and Terrain Models



Orthomosaic Maps



Orthoplanes

## BENEFITS

- Improved safety for the public and inspectors
- Improved access for inspectors
- Digital historical documentation
- Reduced inspection costs
- Enhanced deliverables
- Clearer communication of inventory information and inspection results