



# USE CASES FOR DRONES CONSTRUCTION AND ENGINEERING

Drones have seen rapid adoption among forward-thinking construction and engineering firms, which are using the technology to make and save money, increase efficiency, and make job sites safer.

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- **Photogrammetry**  
Provide data to superintendents and project managers, allowing them to make informed decisions and allocate resources efficiently.
  - **3D models**  
Model existing structures quickly and easily.
  - **Cardinal direction views for clients and building owners**  
Show the view from an office or apartment before the building has been constructed.
  - **Lidar**  
Collect highly accurate survey data.
  - **Flir**  
Inspect HVAC efficiency by identifying aberrations in infrared radiation.
  - **Health & safety assessments**  
Evaluate job site risks and opportunities for safety improvements.
  - **Cloud points**  
Incorporate into building information models software to provide to architects.
  - **Time lapse videos**  
Allow investors to remain up to date and track the status of a project.
  - **Job site monitoring and inspections**  
Record and stream high quality footage of roofing, flare stacks, and other dangerous or inconvenient areas, reducing the need for personnel to work at height.
  - **Volumetric stockpile and aggregate inspections**  
Quickly obtain accurate data without exposing employees to risk.
  - **Real estate photography and marketing materials**  
High-res aerial videos give potential buyers or tenants a new perspective.

For more information, visit [Skyward.io](https://skyward.io)