



Presented by William Cho

Trusted.Globally.

Drone, UAV, UAS, RPA, RPAS, ...



- Unmanned Aerial Vehicle (UAV) Most common used by online community
- Unmanned Aircraft System (UAS) U.S. and U.K.
- Remotely Piloted Aircraft System (RPAS) Most formal by int'l aviation organizations
- Drones

French speaking countries

Two Most Common Factors:

- A drone is an aircraft without a human pilot onboard
- A drone is controlled remotely from an operator on the ground.

Paper Airplane, A Drone?





Is This A Drone? a. Yes b. No c. Too Hungover To Answer





Paper Airplane w/ Bluetooth and a Propeller



Consumer Drones

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When was the very first drone invented?







The Very First Drone



• Curtiss F-5L in 1924



Evolution of Drones



• RQ-180



History of Lloyd's



Lloyd's Market in 1688







• Root Cause Analysis – Roof Leakage





• Root Cause Analysis – 3D Rendering





Drone Solution: Measuring Roof Elevation





Root Cause Analysis



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• Drone Solution: Keeping Track Of Construction Phases





Root Cause Analysis

Vulnerability Change





Challenge: Employee Safety During A Condition Survey





• Drone Solution: Autonomous Flight



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Root Cause Analysis Vulnerability Change Condition Survey Image: Analysis Image: Analysis

Wind Energy



Oil & Gas Energy Claim









Case Study Salt Water Disposal Facility in West Texas



Traditional Method of Information Delivery



• Challenge: Showing Full Scope of Damage



Rethinking Information Delivery



• Drone Solution: Aerial Birds-eye View



Rethinking Information Delivery



• Drone Solution: "Go Where No Man Can Go"



Rethinking Information Delivery



• Drone Solution: Aerial Birds-eye Video



Combining Drone Capabilities with Live Broadcasting



LIVE LOSS ADJUSTING™

Live Loss Adjusting[™] utilizes state-of-the-art drone technology. Our U.S. adjusters are equipped with drones with a real-time live feed capability, enabling stakeholders and adjusters to assess the nature and severity of damage together in real-time. Stakeholders can instruct the adjuster onsite to zoom in on certain aspects of the claim, often inaccessible by foot. A photograph is worth a thousand words. Video footage is worth far more, particularly when it provides instant access to loss sites that stakeholders require to expedite the claims adjusting process.

Note: We keep photos and videos in our password-protected web-portal only until the respective claims file is concluded.

Sample Video Footage 🚽

Combining Drone Capability with 3D Rendering Technology



a Bureau Veritas Group Company

Company

Combining Drone Capability with Computer Algorithms

- MatthewsDaniel
- Drone Solution: Measurement Analysis
 Volume of Oil Spill in the Main Contamination Area = 309.6 m³



Pushing Analytical Boundaries



• Drone Solution: Elevation Analysis Investigating Any Grade Issues



Combining Drone Capabilities with 3D Printing





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Key Benefits

- Take birds-eye view pictures at little or no cost
- Access to otherwise inaccessible area
- Quicker information delivery & Real-time feedback via live streaming
- Digital model of the loss site in the "palm of your hand"
- Computer algorithms to measure lengths, areas, volumes, elevations

Other Possibilities

- Pre-loss condition survey
- JH143, Shipyard Survey





Potential.Unlimited.