

Lunchtime lecture sponsored by:



# Building Partnerships

The Future of Aerial Inspection for  
Insurers & Loss Adjusters

# Introduction



- Drones or UAV's have arrived in commercial operations worldwide, emerging in virtually every industry sector.
- Major service enhancements and/or reduced costs.
- Gaining a competitive advantage.
- The industry is heavily regulated by the Civil Aviation Authority (CAA).
- **Drone services must be fully compliant.**

# Compliance



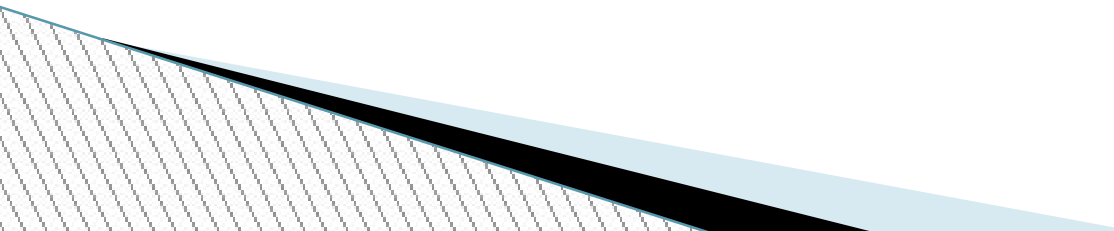
- **What does this mean?**
- PfCO Permission for Commercial Operations
- CAA Approved
- Rigorous Vetting of UAV Operatives
- Insured – Public liability min £1m (£5m)
- RAMS Risk Assessment Management System
- Traceability – Storage of data

# Services



- Schedule of condition survey (internal & external)
- Major loss investigation
- Pre & post insured liability
- Evidential asset inventory
- Restricted access
- Forensic value
- First response

# Advantages

- Latest technology is progress
  - Cost saving
  - Greater control for assessors
  - Geometrically accurate data
  - Geographically accurate data
  - Secure 'Cloud' based data repository
  - Rapid actionable data capture/delivery
  - Real-time multiple collaborators
- 

# First Response – Unsafe Access

- Post fire, subsidence, storm, etc.
- Before scaffold, before propping & shoring, before intervention, collect data by flying
- Over
- Around
- &
- Inside
- Demo



# At a 'Click'



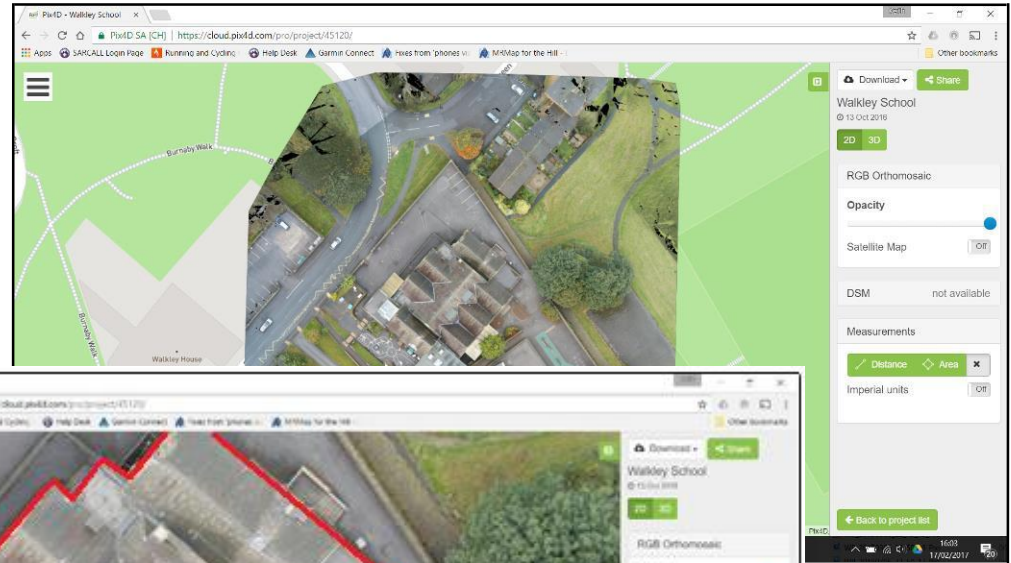
- High resolution orthomosaic imagery  
(Photogrammetry)
- From the boundary of the site
- Zoom in
- and in
- and in
- and in...
- [WHL – Ortho](#)
- Quantify!



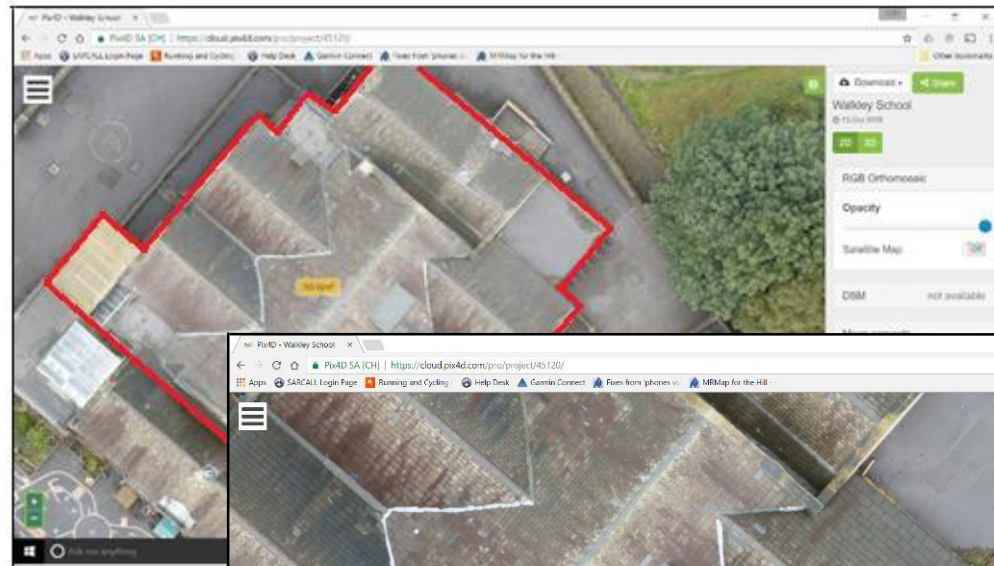


# Quantifying

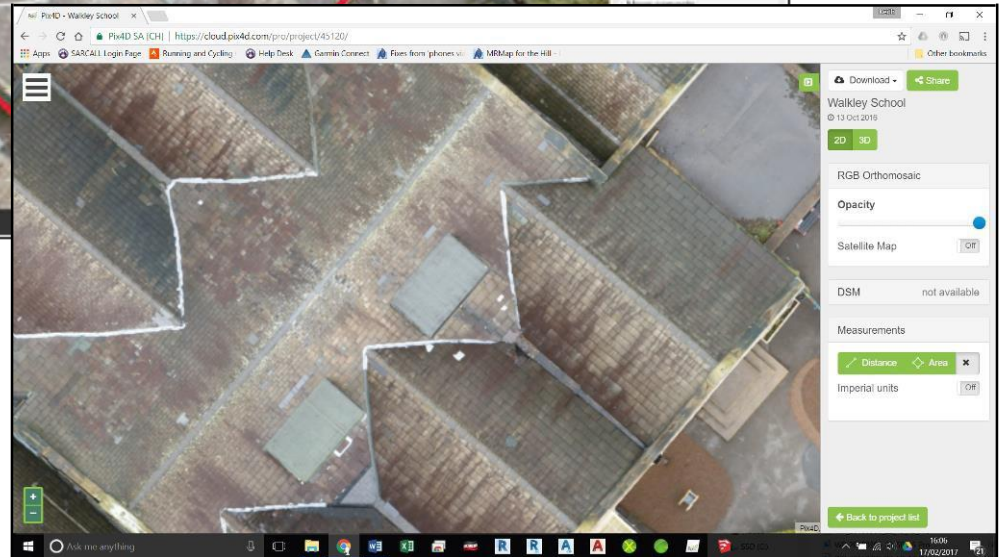
Full site data image



Measure and quantify



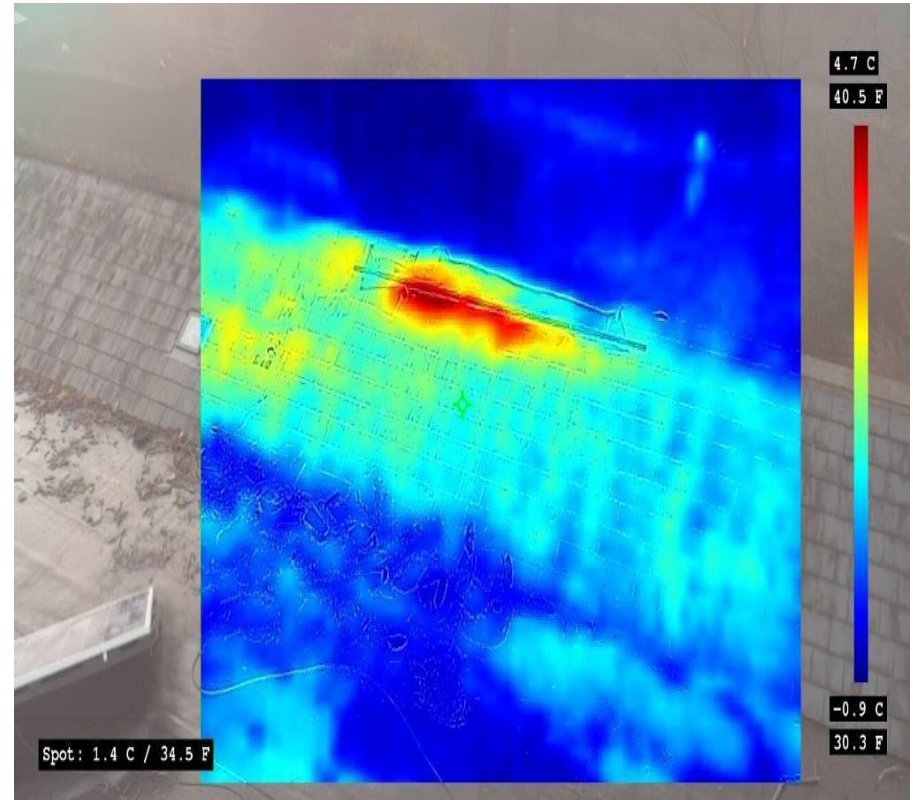
Inspect for pre-claim defects





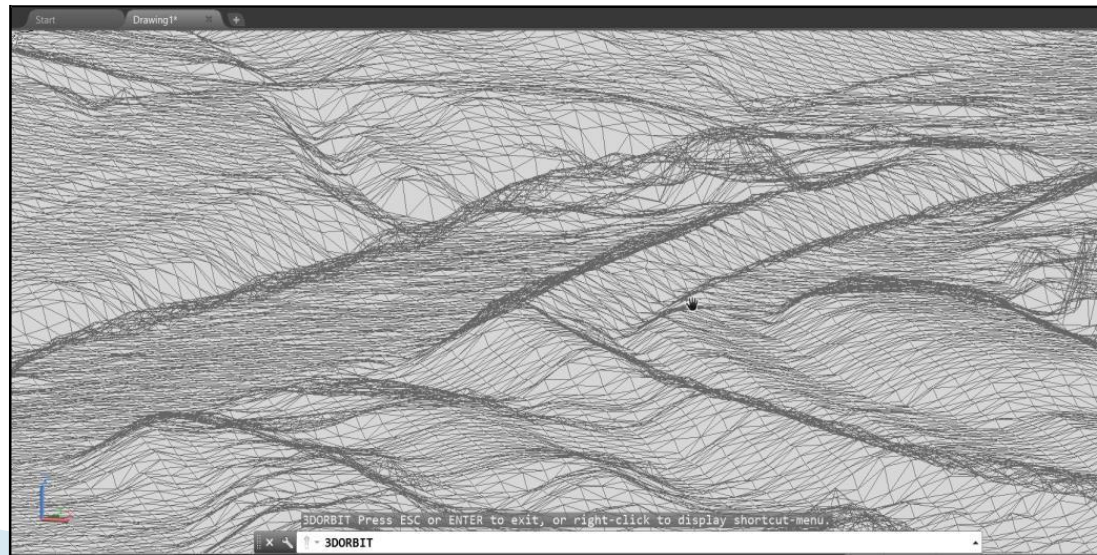
# Thermal Imaging by Drone

- Survey what the eye cannot see
- Identify extents of roof leaks
- Water ingress & moisture migration
- Thermal bridging defects



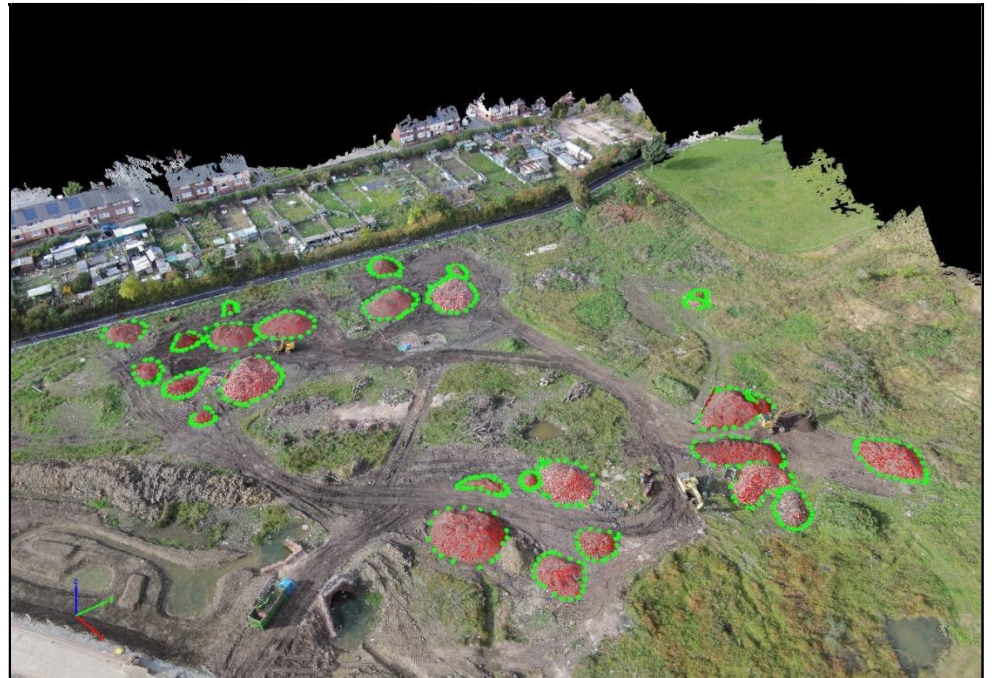
# 3D Textured Mesh

- Where landslip occurs and reoccurs
- Compare current and historical data with digitised imagery
- Invaluable data for engineers to establish re-instatement costs



# Stockpile Quantification

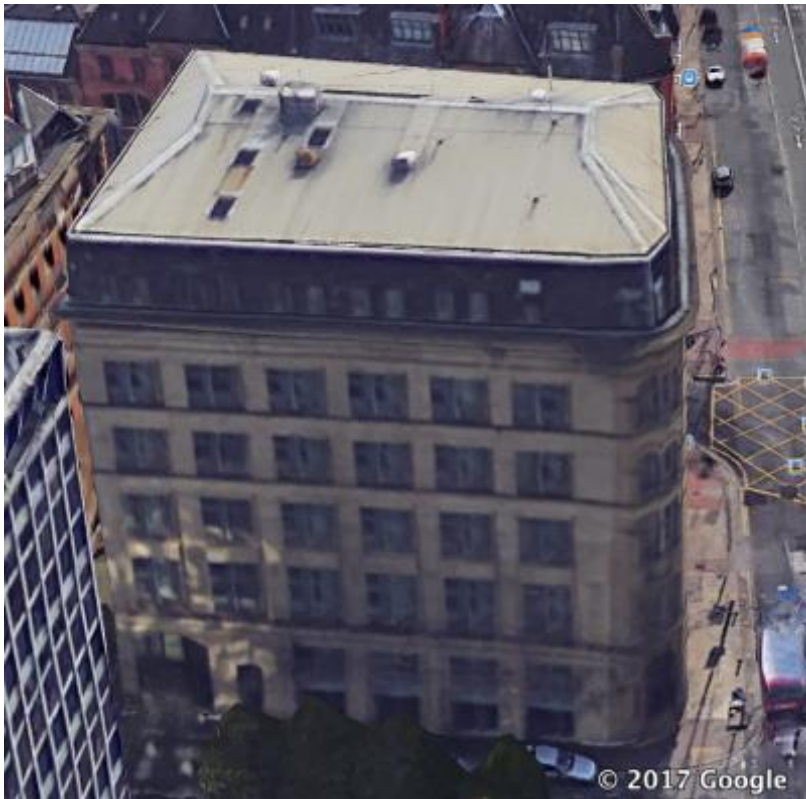
- Significant time savings
  - (UAV's can complete in a day where traditional methods would take 5)
- Thus, major cost savings are achievable
- Accurate control of salvaged materials





# Pre Insured Liability

- Before & after shots

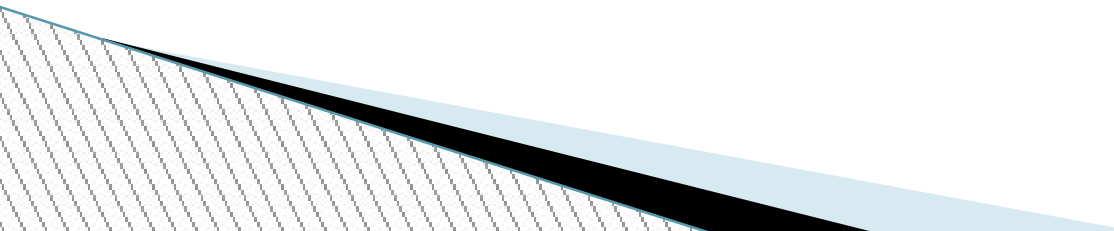


- Images taken of this facade pre condition survey prior to construction to the adjacent site.
- Pre & Post condition survey will control liability.
- [Ortho](#)
- [3D model ext](#)
- [3D Model Int](#)

# Benefits

- Significant cost and time savings over traditional access systems (cherry-picker, MEWPS)
- Significant cost and time savings over traditional inspection methods
- Safe access to dangerous sites early in the claim
- Accurate & complete high definition data capture
- Rapid response
- **All the above = Greater control**

# Modern Practice

- Drone services are being rapidly adopted by Real Estate, FM, Property Maintenance & Insurance.
  - Your company will rely on drone data in the future.
  - Thank you for listening.
  - Q's & A's.
- 





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