

# CASE STUDY- WIND TURBINES



## “Intelligent Image Analysis”



### **Drone Support Services**

Rawhide Intel Services Inc. provides image analysis and analytics of your assets using artificial intelligence and human engineering protocols to provide management, operational, maintenance, and risk information.

Rawhide Intel Services

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### **About Client:**

International drone based managed solutions provider with offices in 8 regions.

### **Background:**

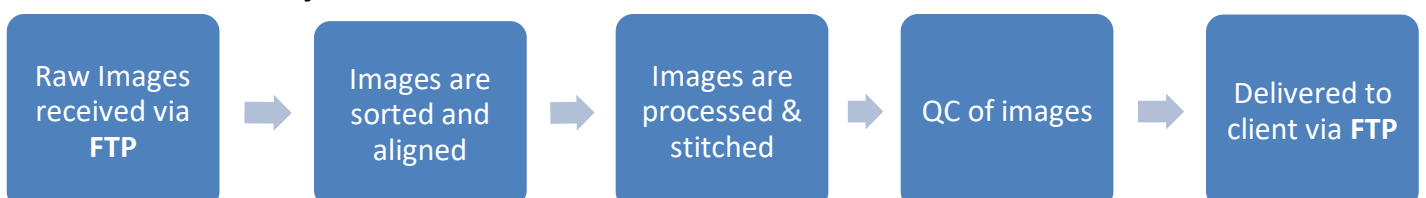
- Unable to meet the client TAT in deliverables
- Lack of image stitching staffs
- High cost resource
- Lack of analysis and report generation

### **How we helped the client?**

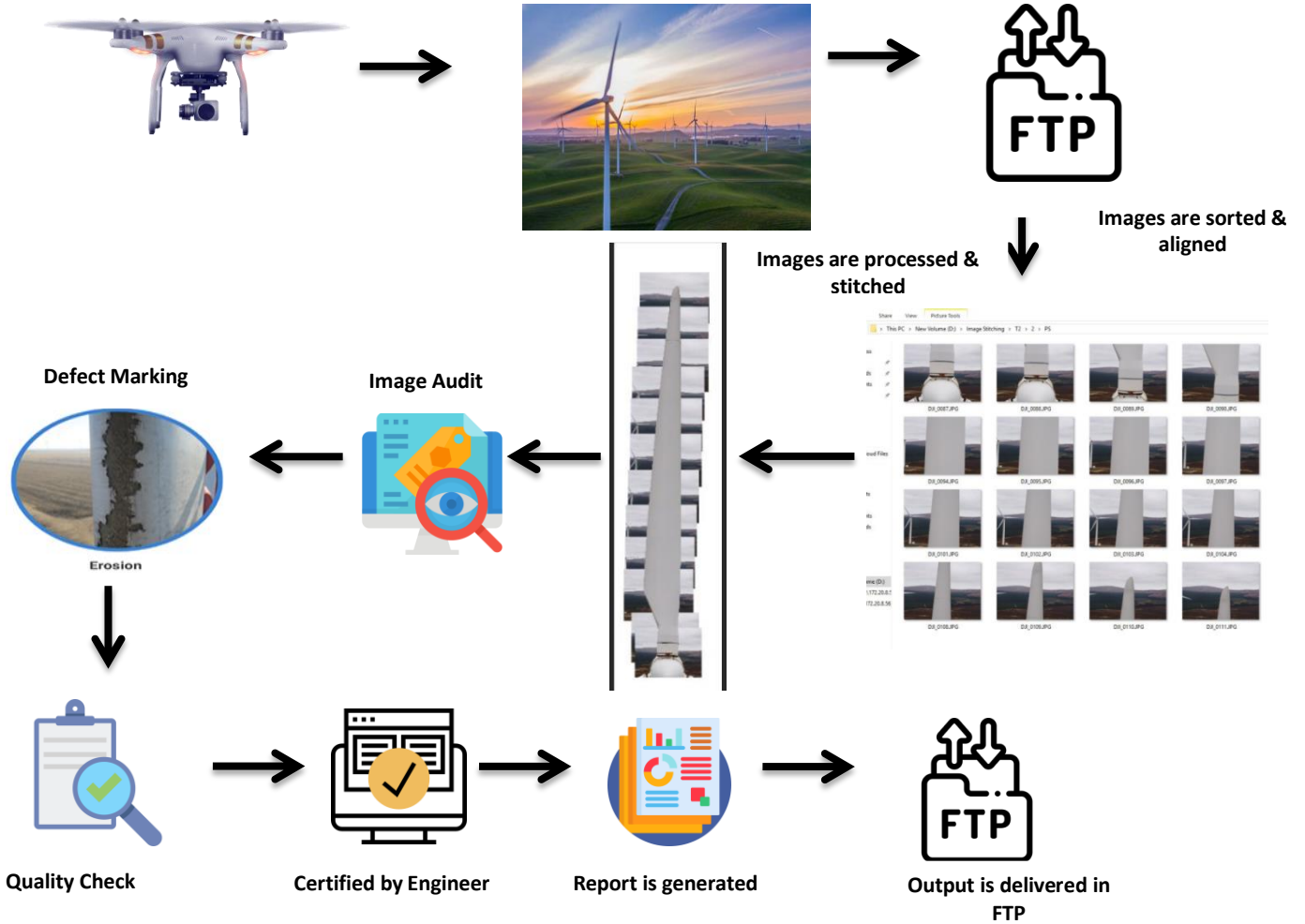
The client approached us for image stitching and defect marking of the images captured via Drone

- The images from the Drone is transferred through FTP( File Transfer Protocol) for image stitching and defect making
- The team will structure and categorically organize large piles of images captured by UAV which require dedicated time and attention (Ex: turbine blades and tower)
- A fairly large structure, featuring a single turbine and three blades, requires a large batch of at least 84 images to be stitched smoothly to produce a high-resolution picture.
- Blade images are accurately stitched to the scale enables engineers to easily detect the defects on the blades and provide quality inspection report
- The stitched are processed for Quality check
- The final output report is certificated by the engineer
- This report helps the client to check for the efficiency and plan for any repair or replacement
- The output of the PSD file along with the report is shared to the client in FTP

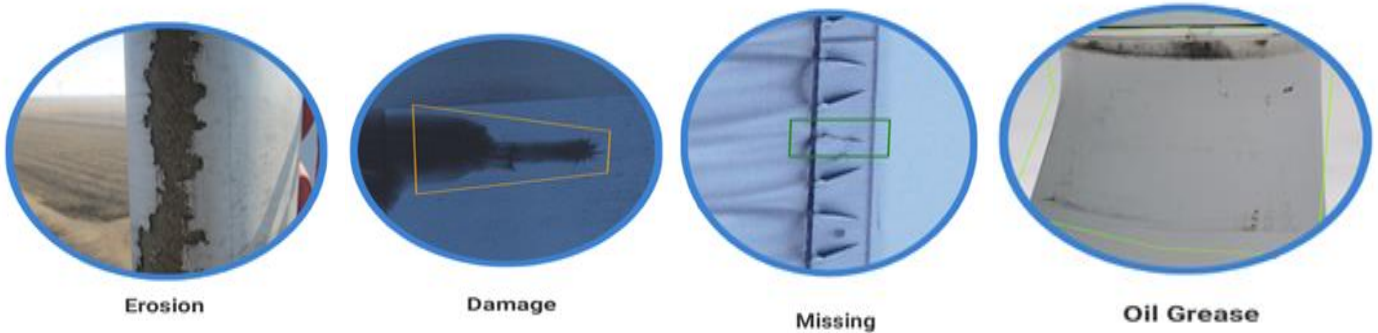
### **Process Summary:**



**Drone captures wind turbine images:**



**Defects Types:**





### **End Benefits for the Client:**

- The client receives high-quality image stitched from multiple pictures
- 24x7 schedule ensures that work gets done during your “off” hours too
- Total Quality control promoting continuous improvements
- Quick on-site deployment of inspection systems
- Reduced downtime
- Fast response times

### **Advantages:**

- 100% Schedule Adherence
- Highly Secure
- Professional and qualified workforce

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