# Disruptive Technologies and the Convergence Towards Autonomous Systems

INDUSTRIAL AEROBOTICS

John Wolcott Founder/Owner Industrial Aerobotics

# TOPICS

- Introduction Industrial Aerobotics Profile
- 02 History Non-Transportation Commercial Aviation Uses
- 03 UAS Use Cases Common and Active UAS Commercial Use Cases
- 04 Industrial Aerobotics Core Competencies Our Most Common Projects and Examples
- 05

01

Wrap-up Summary and Question/Answer Session



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Where we operate in the UAS commercial space

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Our Services Where we operate in the overall UAS commercial space						
<ul><li>GOVERNMENT</li><li>Space</li><li>Defense</li><li>LE</li></ul>	<ul> <li>INT. SERVICE PROVIDERS</li> <li>Honeywell</li> <li>Precision Hawk</li> <li>Measure</li> </ul>	REGIONAL ENTERPRISE SERVICE PROVIDERS	SMALL OR SINGLE VERTICAL SERVICE PROVIDERS			



## 3150 BC — 1000 BC — 1800 — 2000





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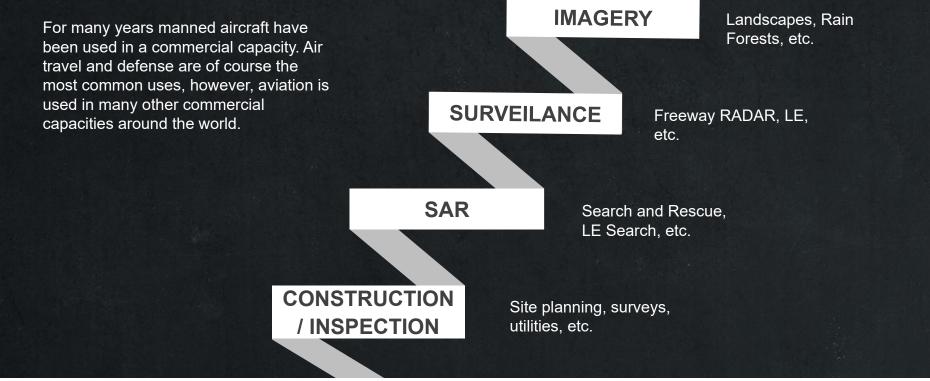
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Contents

## PRE-UAS AVIATION USE CASES

Common, Non-Passenger Transportation, Commercial Uses of Aviation

#### Manned Aircraft At Work



## UAS – The Better Wheel?

How UAS complement and replace traditional Manned Aircraft use cases

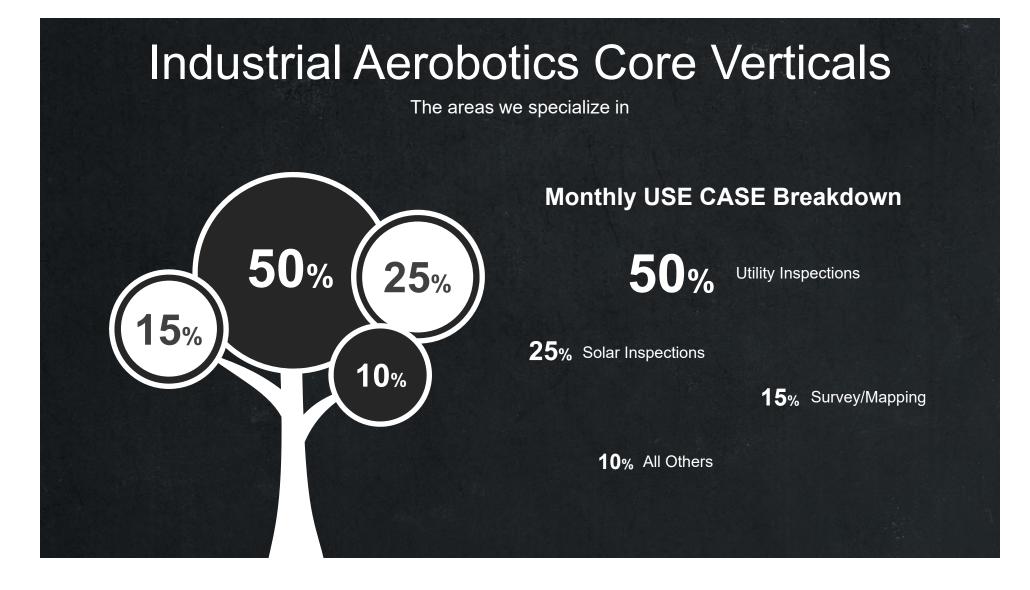


Same end GOAL with better quality, less risk at a lower cost

## MAJOR ACTIVE UAS USE CASES

There are thousands of uses for UAS and more are developed every day. This is a collection of the most common, widely accepted uses of UAS today.

<ul> <li>PUBLIC SERVICE</li> <li>Delivery</li> <li>Fire Fighting</li> <li>Surveillance</li> <li>Defense</li> <li>SAR</li> </ul>	<ul> <li>OPTICAL IMAGERY</li> <li>Inspection <ul> <li>Powerline</li> <li>Wind</li> <li>Gas and Oil</li> </ul> </li> <li>Survey</li> <li>Mapping</li> <li>Storm Assessment</li> </ul>
IR/LiDAR <ul> <li>Solar Inspections</li> <li>SAR</li> <li>Farming/Crops</li> <li>Mapping/Survey</li> <li>Modeling</li> </ul>	CUSTOM • Gas Detectors • RF Analyzers • Magnetometers



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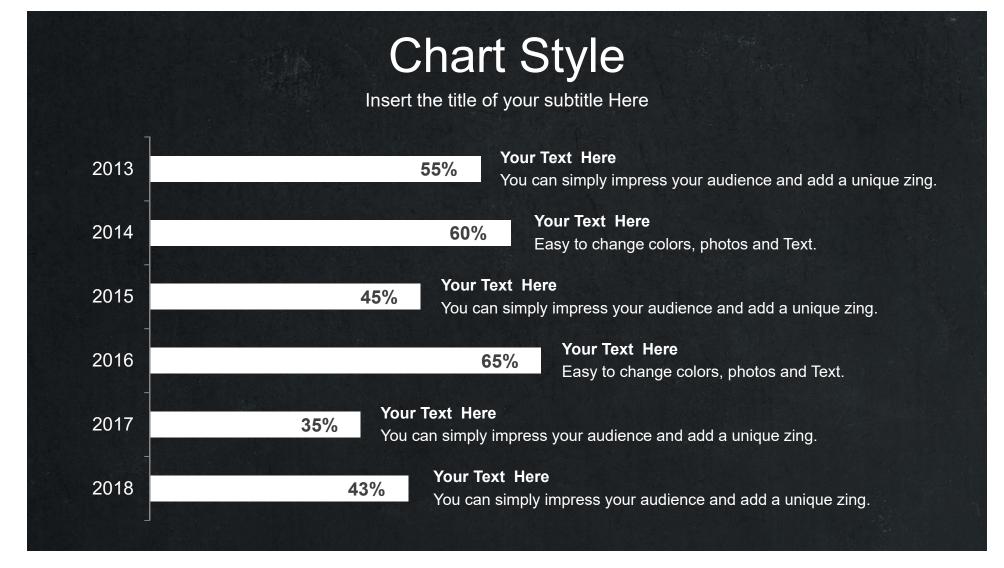
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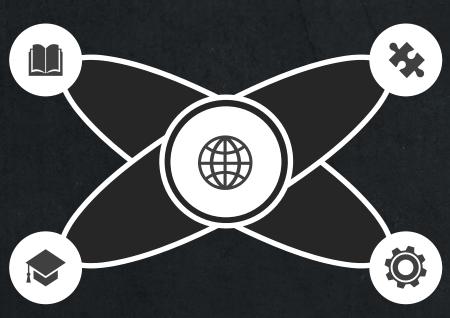
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# USE CASE EXAMPLES

Examples of common UAS use cases and deliverables

Solar Inspection

#### **UTILITY WORK**



- Substation Imaging/Modeling
- Corridor Mapping
- Tower/Line Patrols
- Line/Pole As-builts for rebuilds



- IR Inspections for faults
- Optical Inspections for Vegetation / Debris
- Ground/Erosion Mapping
- Site as-builts / CAD

#### Survey/Mapping



- Construction Planning
- Site Surveys
- Digital Surface Models
- Topography Maps
- Volume Calculations

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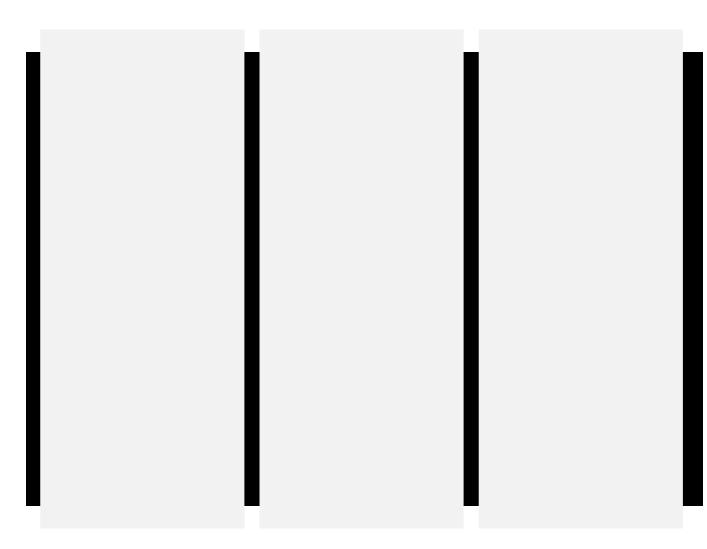
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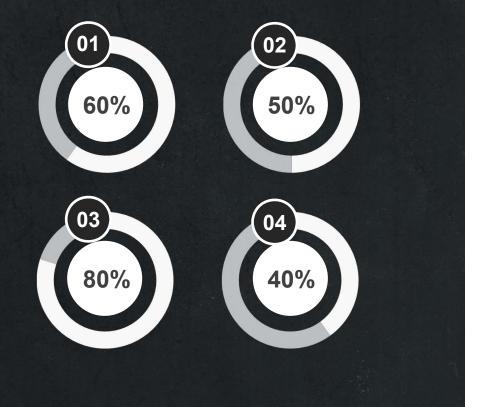
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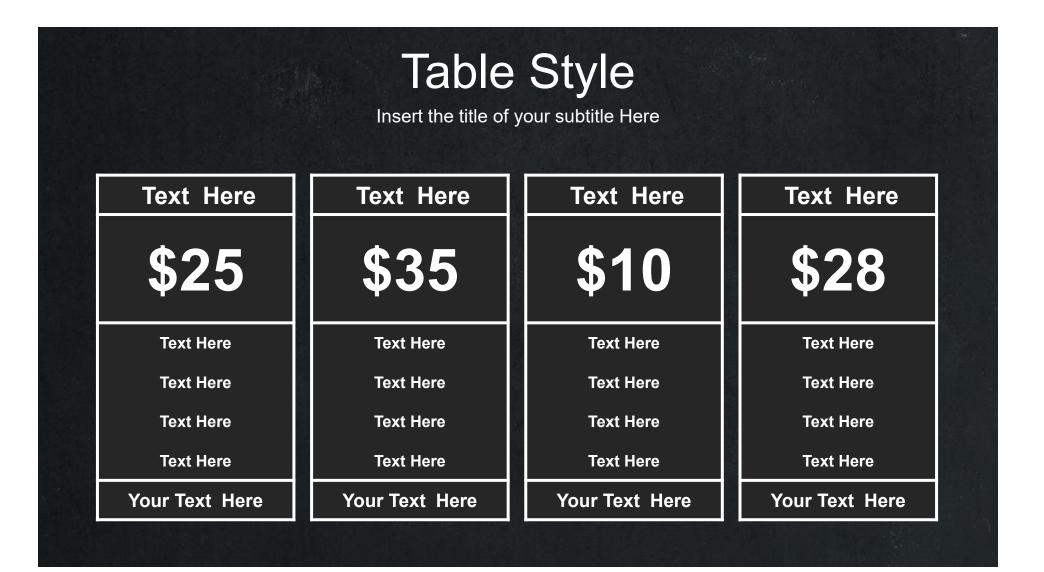
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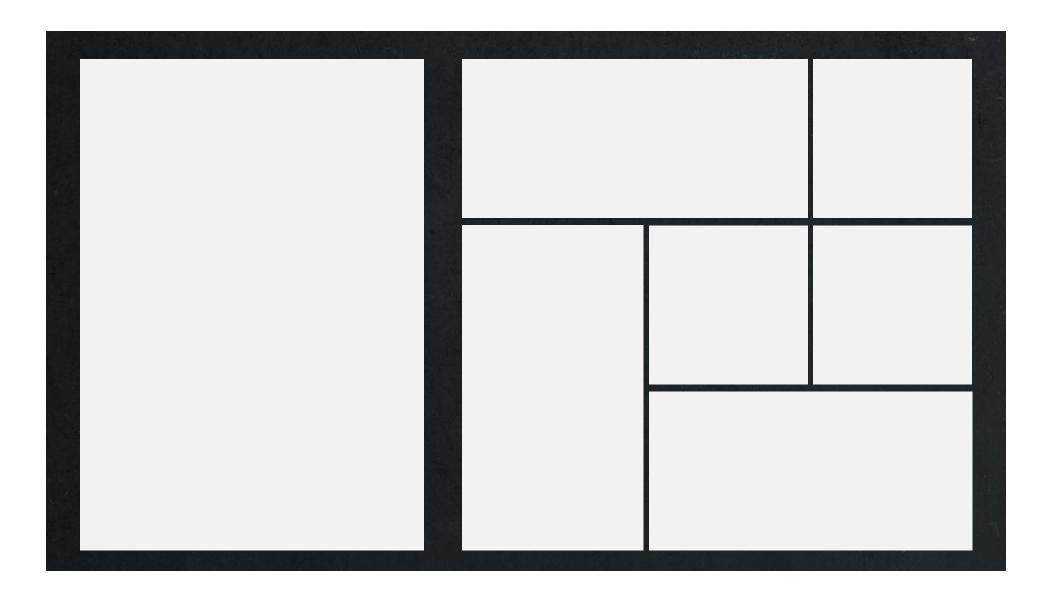
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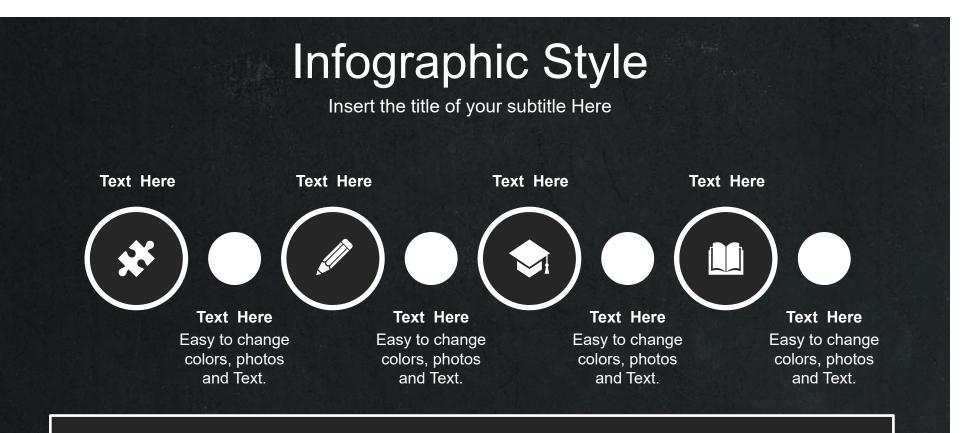


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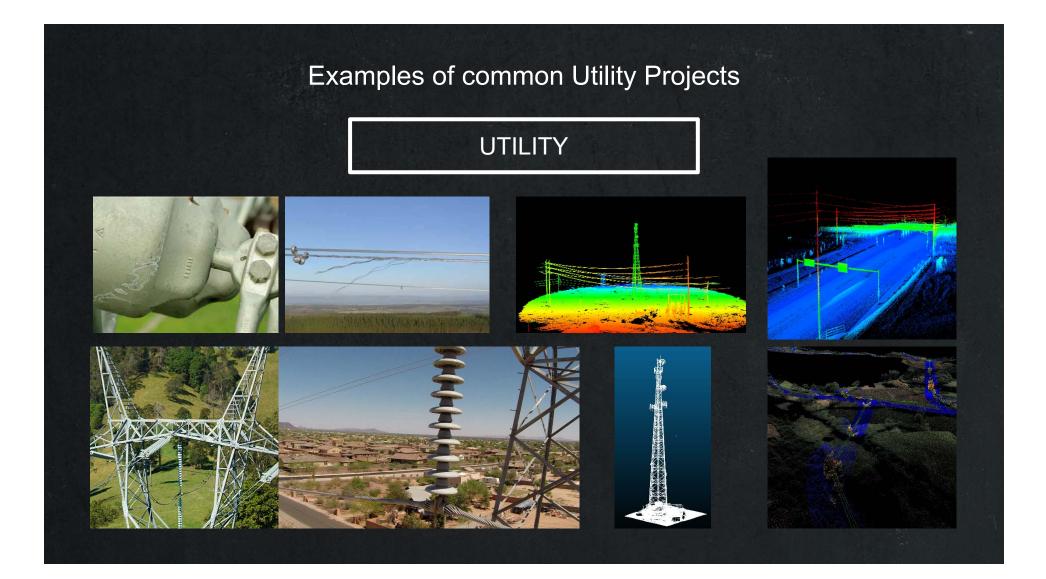
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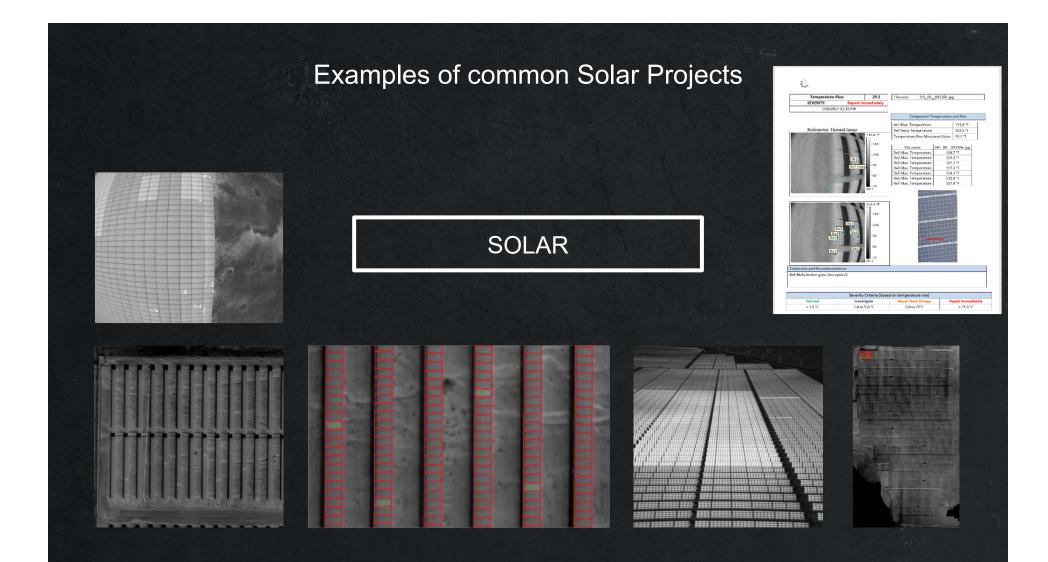
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# Examples of common Survey/Mapping Projects SURVEY/MAPPING

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## Wrap-up

Conclusion and State of the Industry



#### NOTHING NEW

In almost all cases, UAS do not allow for any new ways to complete work that was unable to be performed before. They merely allow that same work to be done, in most cases, faster, with higher quality, safer and at a lower cost.

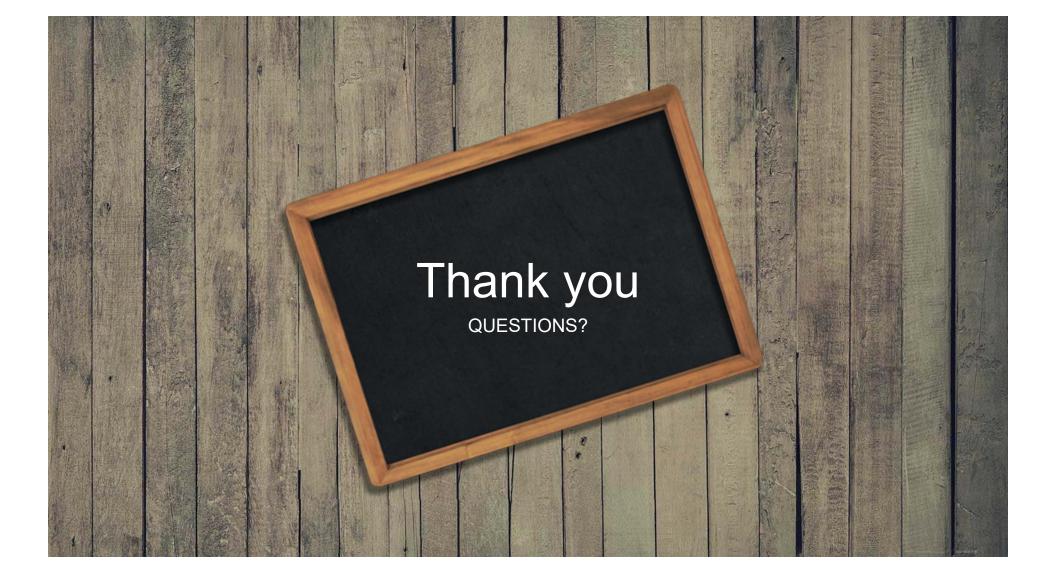


#### STILL VERY EARLY

Although for those in the industry, UAS seem to have been around forever and is near "topping out"; UAS is still in its infancy and has a lot of room to grow and expand. (03)

## TECHNOLOGY and REGULATION KEY

The keys to allowing the UAS industry to continue to grow and mature is mostly based on technology advances in capabilities and reliability; as well as more favorable regulations for flight operations.



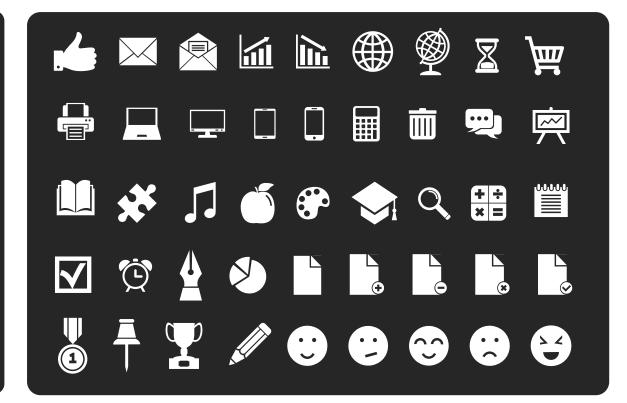
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