

Topical Feature: DRONES Discovery

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October 2016

INTRODUCTION

[Drones: What Are They, Exactly, and How Will They Affect Your Future?](#)



A quick overview of what drones are and how they are used. Detailed description various sections. Touching on being a hobbyist, where to buy a drone, and going on to commercial application and military utilization of this technology.

Source: [Informit](#) (January 2016)

ADDITIVE MANUFACTURING

[3D Printing in the Drone Industry](#)



Details on how additive manufacturing is being used to manufacture various kinds of drones and components. Also gain insight to the impact of 3D manufacturing on the Drone manufacturing industry and noted patents in drone technology.

Source: [Advanced Manufacturing Alert](#) (2016)

AGRICULTURAL ANALYSIS

[Global Commercial UAS Agricultural Services Market](#)



Drones are increasingly being used in Agriculture to monitor the progress of crops and also to collect many different types of information through the use of sensors and imaging equipment. Explore this detailed 58 page for more insight.

Source: [Aerospace & Defense](#) (September 2016)

AGRICULTURAL DRONES

[Agricultural Drones](#)

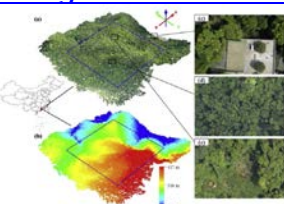


Learn how drones are becoming farming tools that help cut costs and boost crop yields. By using drones attached with imaging equipment, farmers are able to identify a whole range of issues that can determine a good harvest, such as identifying irrigation issues to soil conditions.

Source: [MIT Technology Review](#) (2016)

BIOLOGICAL CONSERVATION

[Seeing the forest from drones: Testing the potential of lightweight drones as a tool for long-term forest monitoring](#)



A study done to shows that an economical budget to observe forests over prolonged periods of time can be obtained with the use of drones. These drones were not only cost effective but also produced high quality data.

Source: [Biological Conservation](#) (June 2016)

COMMERCIAL APPLICATION

[Clarity From Above](#)



This report by PwC explains the value of drones commercially. Current application as well as future applications of drone technology is discussed across various sectors like healthcare, mining and more. Read the [Full Report](#).

Source: [PwC Global Report](#) (October 2016)

COMMERCIAL SERVICES

[Global Commercial UAS Inspection and Monitoring Services Market](#)



Corporations and governments all require checking their physical assets such as buildings and train tracks. Drones help to cut the cost of inspections and can reach hard to access and even dangerous locations. Get an overview of opportunities, challenges and trends.

Source: [Journal of Leadership Studies](#) (September 2016)

DEFENCE

[Aerospace and Defense Technology- Unmanned Aerial Vehicle Innovations](#)



Discover various kinds of drones invented to meet the needs of various situations during combat. Drones that deliver supplies to units engaging in battle, intercept armed drones and more. Four notable patents are also highlighted.

Source: [Aerospace & Defence](#) (February 2016)

DIY PROJECTS

[DIY Drone and Quadcopter Projects](#)

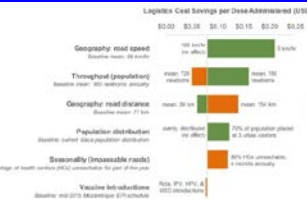


This book gives a brief introduction to the world of drones followed by a few chapters of drone building projects. Projects range over a number of different types such as multicopters, quadcopters, water proof drones and even delivery drones.

Source: [Safari Tech Books](#) (2016)

HEALTHCARE

[The economic and operational value of using drones to transport vaccines](#)



Many poor countries face issues with getting vaccines to many locations due to long travel times by land and high costs of delivery involved. A supply chain model using drones to deliver vaccines was developed to estimate costs and time and possibility of flying over restricted or conflict airspace.

Source: [Vaccine](#) (June 2016)

Imaging

[Imaging in Aerospace and Drones](#)



Gain insight into various imaging technologies, their potential applications and find out who is using them. This report gives insight to which imaging technologies have the potential to be developed such as low power and smaller sized sensor requirements.

Source: [Measurement & Instrumentation](#) (Apr 2016)

MARKET COMPETITION

[Drone Makers Battle to Deliver on Expectations](#)



Drone manufactures are constantly trying to outdo each other by making announcements on their amazing up and coming new models. Unfortunately many fail to meet expectations and are lacklustre when finally launched. Find out more about this ongoing competition.

Source: [Financial Times Drones](#) (September 2016)

MODULAR

[Airblock- The First Modular and Programmable Drone](#)



Check out this [drone](#) that can break apart and reconfigure itself into various other drones with multiple functions including a hovercraft. Made of materials to withstand impact from a crash. Also view their [kickstarter page](#)

Source: [Drone Life](#) (October 2016)

POWER

[Power Technologies for Drones and Autonomous Robots](#)

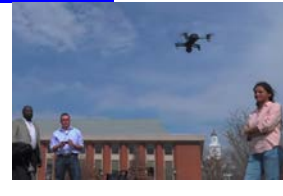


The application of drones and autonomous robots is growing across various sectors such as healthcare and military. Current and developing power technologies are reviewed with a feature of notable patents in this report.

Source: [Energy & Power Systems](#) (May 2016)

SECURITY

[How Can Drones Be Hacked? Let Us Count the Ways](#)



Researchers at John Hopkins University found out various methods to gain [control of drones](#) while in flight. This poses serious security issues that could result in rogue drones exhibiting undesirable behaviour. Also watch this [video](#) to find out more.

Source: [Live Science](#) (June 2016)

SENSORS

[Innovations in Sensor-based Drones](#)



Featuring uses of drones in various commercial purposes such as logistics, large scale analysing and more. Highlight on the latest sensor innovations, patents, drivers and challenges going forward.

Source: [Measurement & Instrumentation](#) (Sep 2016)

UAS GLOBAL MARKET OUTLOOK

[Global Civil Unmanned Aerial Systems \(UAS\) Market Outlook, Forecast to 2021](#)



Gain insight to the UAS market by region, find out trends, market sizes, challenges and what are the driving forces behind the expected growth. Drones are being utilized more as corporations become more aware of their potential to perform tasks of value such as photography and data collection.

Source: [Journal of Leadership & Organizational Studies](#) (November 2016)

UPDATE

[19 companies using drones right now: Royal Mail, Asda, the BBC and more - Here's how drones are being used in 2016](#)



If you want a quick concise overview on how drones are being used across various industries and which companies are using them, this is the article for you. Safety assessment, delivery, military are just a few areas they are being utilized.

Source: [Tech World](#) (October 2016)