

# Commercial Drones: Numerous industries to be transformed by unmanned flight

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## Abstracts

Commercial Drones: Numerous industries to be transformed by unmanned flight

### SUMMARY

Once the preserve of massive military budgets, drones are now making significant strides in commercial industry, initiating substantial efficiency gains. Now drone technology has reached commercial relevance, and much more is predicted to follow.

A future as a vital part of infrastructure beckons, not just in maintenance but also in mobile infrastructure in isolated areas of the world. Regulations allowing, drones are entering a period of development during which many industries - most notably construction and agriculture - will very quickly look very different.

### KEY HIGHLIGHTS

Major computer companies are getting involved, realizing the lucrative opportunities about to become commonplace. Dubbed 'Mission Control Software', an Intel designed system claims the capacity to handle flight planning and management, beaming back data. Now future infrastructure is beginning to be influenced by drones.

Many industry insiders have theorized over the potential use of drones in modern society, especially those in advanced economies. Yet the ideas to have been imagined have so often been predicated upon a view of the world which includes full support from the authorities.

Despite being worth trillions of dollars, the global construction industry is beset by problems staying on budget and completing work on time. Modern drones offer the prospect of collecting information that would have taken a human team a prolonged period to gather, but also in much greater detail than is often possible using alternative means.

## **SCOPE**

Assesses the expanding role of drones in infrastructure

Examines the impact of advancing drone software

Looks at the regulatory environment for drones

Delves into the role drones could play in agriculture

Assesses the impact of drones on the construction industry

## **REASONS TO BUY**

How will infrastructure be affected by drones?

Will costs for industry come down?

How will industries be directly affected?

How are regulations impacting development?

Can software development keep up with demand for greater capability?

## Contents

Overview

Catalyst

Summary

Expanding infrastructure role of drones hints at lucrative future

Autonomous drones are nearing commercial reality, potentially transforming industry

Arrival of drones threatens to radically change how infrastructure is delivered

Advances in software are expanding drone capabilities, enhancing usage

Early dominance of DJI could be storing up problems for future software development

DJI dominance will be hard to overcome due to build-up of consumer confidence

Software improvements are propelling capability improvements

Regulatory environment is crucial for future use of drones

Regulations must enable companies and organizations to realize cost savings drones provide

Drones offer hefty savings on infrastructure maintenance

Rules governing drones must not restrict industrial application

Rules are restricting development of drone delivery services

Agriculture can gain handsomely from drones, but some doubts have surfaced

Tracking abilities of drones are set to make farming much more precise

Problems with current generation drones have emerged, setting back widespread acceptance

Hardware development is expanding the role of drones in agriculture

Construction industry making efficiency strides via drone investment

Real time aerial inspection presents significant cost and efficiency savings for an industry operating on slim margins

Stockpile observation performed by unmanned aerial vehicles will soon become commonplace

Better data gathering is speeding up communication on construction sites

Conclusions

Drones are advancing rapidly in commercial relevance as technology develops

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## About

Once the preserve of massive military budgets, drones are now making significant strides in commercial industry, initiating substantial efficiency gains. Now drone technology has reached commercial relevance, and much more is predicted to follow. A future as a vital part of infrastructure beckons, not just in maintenance but also in mobile infrastructure in isolated areas of the world. Regulations allowing, drones are entering a period of development during which many industries – most notably construction and agriculture – will very quickly look very different.

How drones fit into industry of tomorrow has been subject to debate for quite some time – now possible answers are becoming clear. Facebook and others are investing in using drones as a critical element of developing infrastructure. Drones capable of staying airborne for months, beaming down 5G signals, are being lifted from drawing boards to test programs. Autonomous drones are coming closer to becoming commercial reality – the days of such capability being limited to military use are declining in number. Drones could very soon enter the mainstream in a way seemingly unimaginable just a few years ago.

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