

# Eyes on the world: Drones change our point of view and our truths

September 7 2020, by Michael Richardson

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Credit: [Christopher Rusev/Unsplash](#), [CC BY](#)

Drones have changed how we see the world. Even more profoundly, drones have transformed how we witness the world: how we decide the events that matter and create our shared "truth" of what happened.

Remotely piloted and equipped with sensors, unmanned aerial vehicles are changing the way we witness war, climate change, political protest, and now the COVID-19 pandemic. In recent weeks, drone footage has

broadcast the [unrest in the US city of Kenosha](#) following the shooting of Jacob Blake and the devastation of the [Beirut chemical explosion](#) and [Tropical Storm Laura](#).

Drone technology can blur viewpoints, pull focus onto surveillance and allow people to witness everything from public protests to places pushed out of reach by the pandemic.

## **Drones do more than see**

It's true that drones are vision machines: they loiter in the air with a persistent eye on the ground, beaming back imagery to their control point. For most drones, the images they send are optical. For [military drones](#) and those used in policing, border surveillance and even animal conservation, thermographic imaging is also common.

But drones are also data machines, accumulating information about altitude, speed, location and more.

[My research](#) shows this combination of aerial vision, [remote control](#) and data creation is changing how we witness the world. Drone imagery dissolves distinctions between war and domesticity, human and machine.

Drones are [increasingly autonomous](#). Drone vision defines the contemporary esthetic of war, but it is also [increasingly present](#) in new modes of art, activism, and popular and promotional culture.

Images of conflict are now often seen through the eyes of Predator and Reaper drones, which can make witnessing war difficult if not impossible. Police drones can capture footage of protests and be used in the court room against activists.

Yet at the same time, drone vision can allow us to witness state violence

that might otherwise have gone undetected and even reveal the invisible data systems that police airspace.

Drone footage of open cut mines, Great Barrier Reef bleaching and the newly intense devastation of bushfires, floods and droughts make the effects of the climate emergency inescapable.

As Black Lives Matter protests continue across America and the world, drones bear witness to clashes between police and activists, democratizing the aerial view that once belonged to police and media helicopters.

## **A brief history of drones**

Before drones, the [view from above](#) was limited to helicopters, satellites, air planes and, further back still, the hot air balloon. Drones have made the aerial view commonplace, found everywhere from news reports to geographic surveys to wedding photos.

Military drones might not exist today without a weapons designer who also happened to be an amateur glider enthusiast. Back in the 1980s, [Israeli aeronautical engineer Abraham Karem](#) became obsessed with designing a remotely piloted aircraft, and he wanted to do it on his own terms.

Emigrating to California and launching his own company, Karem used his passion for his love of glider design to design a drone that could stay in the air for hours, using only a glorified lawn mower engine to stay aloft: the Predator.

Initially designed as an intelligence, surveillance and reconnaissance craft, the Predator struggled to gain traction at the Pentagon. But the growing revolution in military affairs and protracted violence in the

Balkans gave the Predator a chance, and [the hunt for Osama bin Laden](#) pushed it slowly to center stage.

On the civilian side, drone development has focused more on [quad-copter than fixed wing](#) designs, with the market dominated by the Chinese manufacturer DJI.

Just a few years ago, hobbyist drones were tricky to fly but [now there are selfie drones](#) that can be piloted by gesture, autonomously avoid obstacles, and track you as you move.

Now found everywhere from search and rescue to agriculture to policing, the social and political impact of drones is a serious issue. During the pandemic, the policing function of drones has spread alarmingly to social distancing enforcement and biometric surveillance.

## **Witnessing the pandemic**

This year, drones have allowed people around the world to [witness cities emptied of their usual crowds](#). These images testify to the scale of the upheaval of everyday life. For those sheltering in place, these images can provide a sense of the communal nature of a profoundly isolating time.

In contrast to the continual updating of testing, infection and death statistics and the ubiquitous logarithmic charts showing curves flattening or rising, drones allow us to witness the uncanny, melancholic and strangely beautiful disruption to everyday life.

This kind of witnessing provides context for the dislocations and anxieties of life under lockdown, even if it can't necessarily make the disruption easier to bear.

Last month, the skies over Seoul, South Korea were [lit up by around 300](#)

[drones](#) creating messages of public health safety and lockdown encouragement. Previously, [Lithuanian photographer Adas Vasiliauskas](#) used his drone to facilitate human connections with friends and neighbors, who relished the chance to dress up and pose for family portraits.

As our ability to encounter the world beyond our neighborhoods recedes, drones could open up the world in unexpected ways. Before the coronavirus, [travelers were already using drones](#) to capture stunning imagery—though it [landed one Australian couple in trouble](#) in Iran.

With millions stuck in lockdown and travel restrictions in place, drone footage [shared online](#) can help people experience distant places without leaving home.

While remote tourism of this kind could be abusive and intrusive, infrastructure is in place for a more ethical approach. For example, [WeRobotics](#) and other groups have seeded [drone](#) expertise across Africa, Asian and South America, helping train local operators to undertake mapping and photography.

Witnessing the world through the eyes of drones can be powerful for both good and ill. It can reveal beauty and injustice, but it can also subject people to unwelcome surveillance. As drones become more and more embedded in how we see the world, deeper understandings of the ethics of aerial vision will be essential.

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