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# Mapped: Drone Privacy Laws Around the World



Published 9 months ago on January 8, 2021

By **Iman Ghosh***View the full-resolution version of this infographic*



# Mapped: Drone Privacy Laws Around the World

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From Olympic opening ceremonies to public safety, drone applications have come a long way.

In fact, their modern applications are set to almost double the **total value** of the commercial drone market from \$22.5 billion to \$42.8 billion between 2020-2025, at a **13.8%** compound annual growth rate (CAGR).

Naturally, such diverse and complex uses can go quickly awry if not monitored and regulated correctly by governments—yet in some cases, it's *because* of governments that drones' uses border on sinister.

This in-depth map from **Surfshark** explores the murky guidelines surrounding drone privacy laws around the world, and some case studies of how they're used in every region.

## How Are Drone Privacy Laws Classified?

According to the map researchers, drone and unmanned aerial vehicle (UAV) regulations typically fall into one of the following buckets:

- 1. Outright ban**
- 2. Effective ban**

### 3. Visual line of sight required

Pilots need to be able to see the drones at all times, and must usually obtain a license or permit

### 4. Experimental visual line of sight

Pilots can let the drone fly outside their field of vision e.g. during a race

### 5. Restrictions apply

Drones need to be registered, and/or additional observers are required



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## 6. Unrestricted

When drones are flown around private property and airports, and under 500 feet (150 meters)

## 7. No drone-related legislation

*Categories are assigned based on legislation as of October 2020.*

Clearly, there is some overlap among these categories. They are highly dependent on judgment calls made by specific legal authorities, and change based on what a drone is being used for.

Explore the drone privacy laws in your specific country here:

Search:

Country/Territory	◆	Continent	◆	Drone Legal Status (Oct. 2020)	◆
Vanuatu		Oceania		Visual line of sight required	
Venezuela, RB		South America		Unrestricted	
Vietnam		Asia		Unrestricted	
Yemen, Rep.		Asia		No drone-related legislation	
Zambia		Africa		Visual line of sight required	
Zimbabwe		Africa		Experimental visual line of sight	

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## So How Are Drones Used Worldwide?

The myriad of drone uses are literally and metaphorically up in the air—while they originated in military needs, drone uses now range from hobbies such as aerial photography to supporting disaster relief.

The following regional maps show privacy laws in closer detail, while also highlighting interesting case studies on how drones are used.

## North America

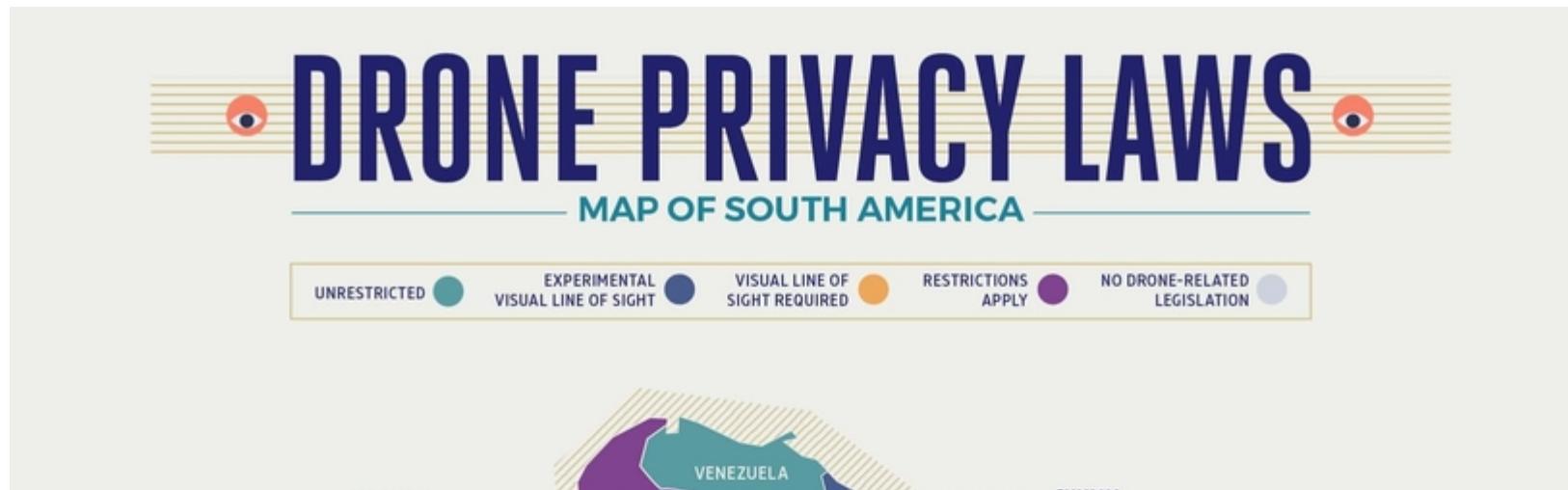


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According to the latest drone numbers, **70.5%** of registered U.S. drones are **recreational**, but these proportions may soon decline in favor of commercial uses. As of December 2020, civilian drones are allowed to fly over **populated areas**, a step towards fulfilling their potential in package delivery.

Meanwhile, countries like Mexico are beginning to rely on drones to combat crime, with good results. In the city of Ensenada, a single drone's surveillance patrol resulted in a **10%** drop in overall crime rates in 2018. Drones are increasingly being used to monitor illicit activity such as drug trafficking routes.

## South America



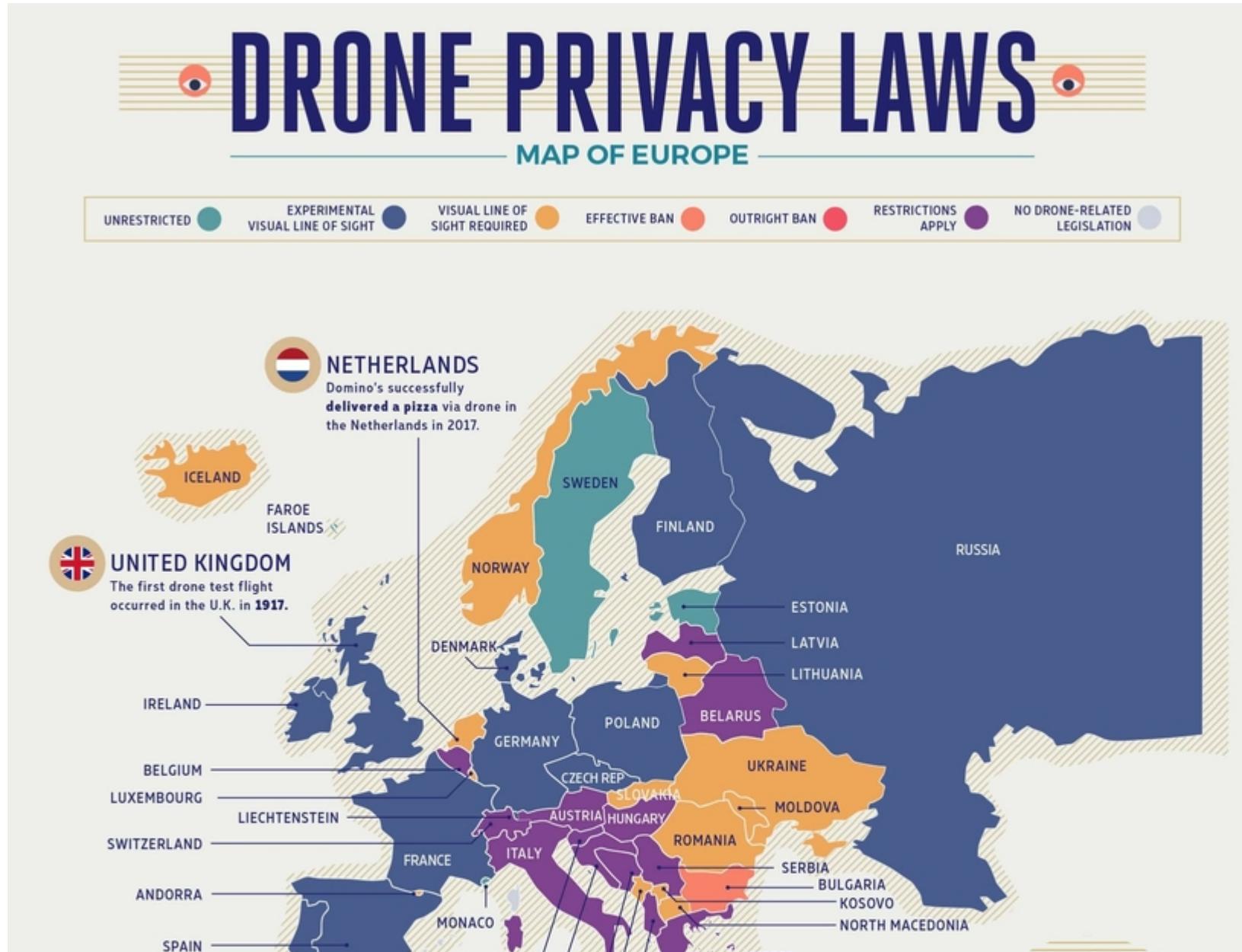


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Interestingly, the environmental applications of drones come into play in the Amazon rainforest. An indigenous tribe in Brazil is using drones to track levels of deforestation and forest fires—and presenting that data evidence to authorities to urge them to act.

Across the continent, drones are also in place to deliver everything from hospital supplies to life jackets in Chile and El Salvador.

## Europe





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The first unmanned, radio-controlled aircraft test flight occurred in the United Kingdom in 1917. The Kettering Aerial Target (or “The Bug”) carried 180 pounds of explosives and became the basis for modern missiles.

While Europe has some of the most liberal drone privacy laws today, that doesn’t mean they’re lenient. Even among countries that allow experimental visual lines of sight (such as Finland and Portugal), special permissions are required.

## Middle East and Central Asia

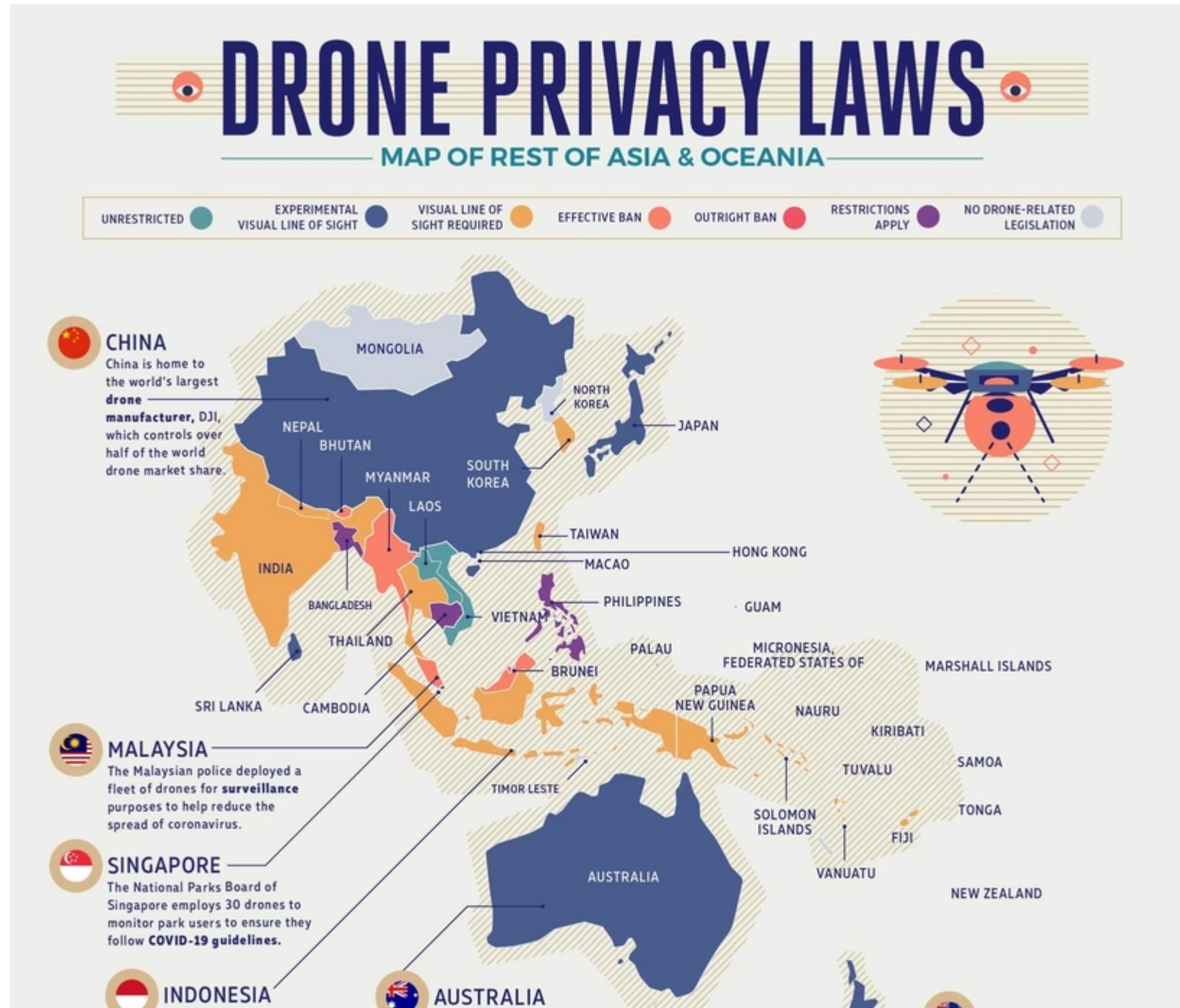


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The military applications of drones persist in this region. Iran was one of the first to use armed drones and continues to do so, while simultaneously banning their public use.

Neighboring Turkey also relies on kamikaze drones, augmented by AI and facial recognition, to strengthen border security.

## Rest of Asia and Oceania





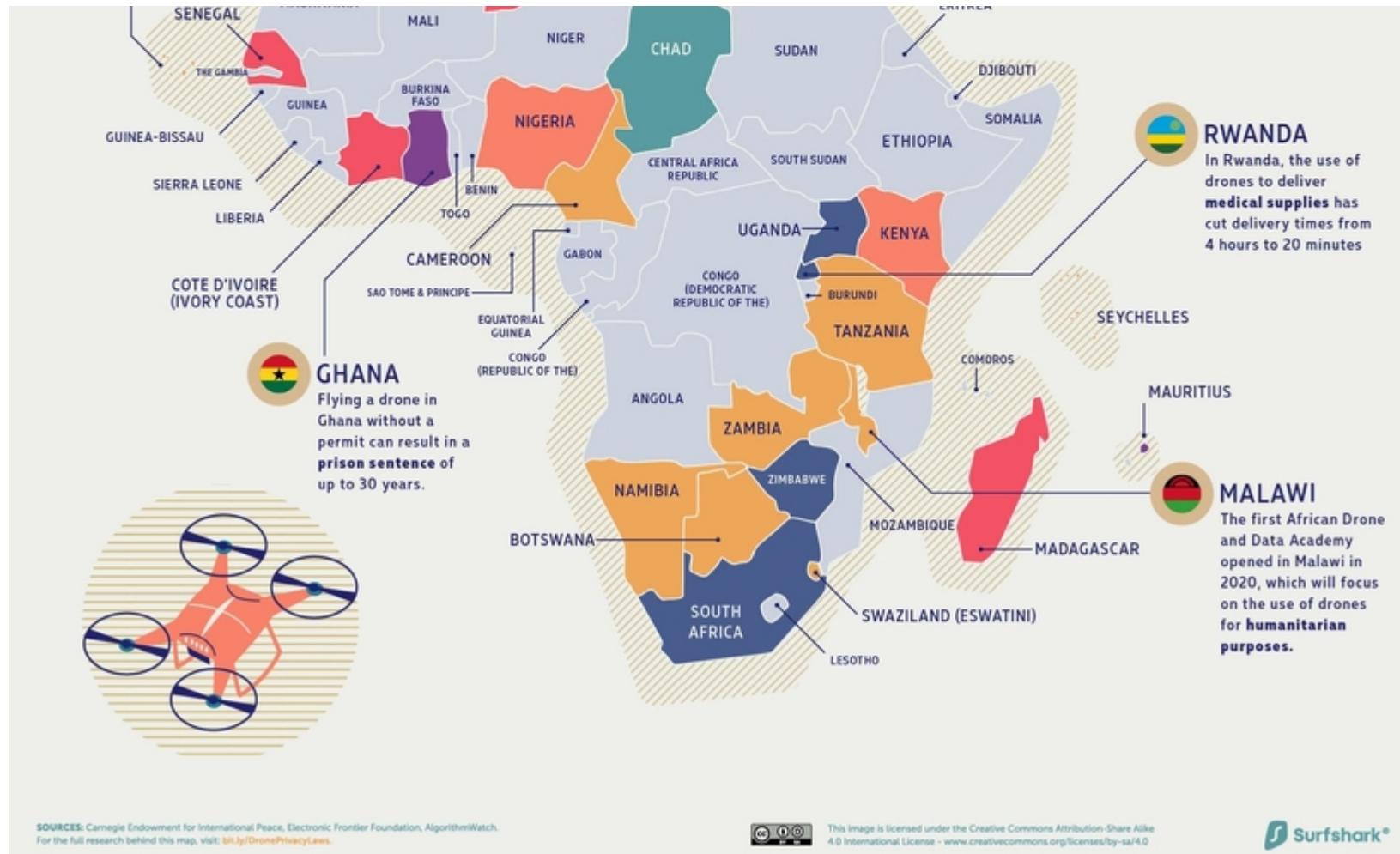
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China-based DJI is the world's largest drone manufacturer, dominating **70%** of the global market. Across Asia, drones have been in use for **mass surveillance**, particularly in China. In recent times, drones also track compliance with strict COVID-19 guidelines in Malaysia and Singapore.

Meanwhile, in Japan, Nokia is testing out a drone network to provide a more rapid response to future natural disasters. The **relief capabilities** include disseminating more real-time updates and monitoring evacuation progress.

## Africa





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While many parts of Africa haven't developed any drone-related laws yet, promising innovation is rearing its head. Medical drones are already saving lives in Rwanda, delivering supplies in as little as 15 minutes.

In the same vein, the pioneer African Drone and Data Academy ([ADDA](#)) opened in Malawi. The academy promotes drone usage for humanitarian and disaster preparedness, and aims to equip individuals with the relevant skills.

# Towards Greater Heights?

As the uses of drones evolve over time, so will their legal status and the privacy concerns surrounding them. However, the adoption of any technology is always accompanied by a certain level of skepticism.

With drones, it remains to be seen whether they'll mostly occupy the role of a friend or a foe for years to come—and that power lies only in the hands of those who remotely control them.

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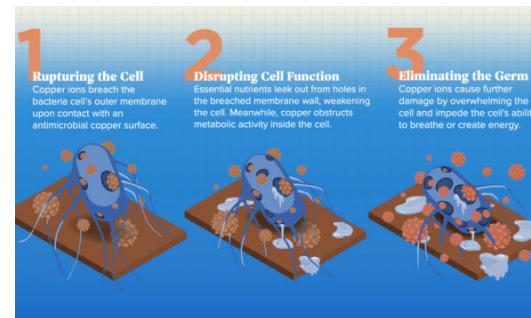
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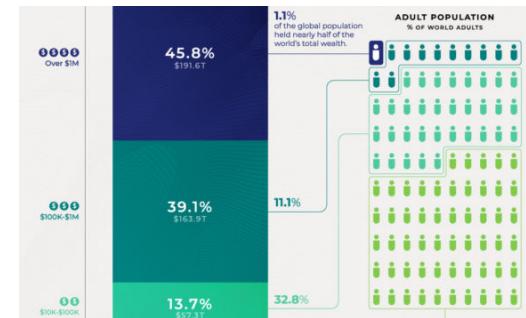
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## TECHNOLOGY

# Ranked: Big Tech CEO Insider Trading During the First Half of 2021

Big Tech is worth trillions, but what are insiders doing with their stock? We breakdown Big Tech CEO insider trading during the first half of 2021.



Published 6 days ago on September 22, 2021

By **Aran Ali**



## INSIDER SELLING

### Which Big Tech CEO Has Sold The Most Stock?



Shares Sold



Average Share Price



Total Proceeds

#### Rankings by Shares Sold



Apple



Tim Cook



N/A



N/A



N/A

Tim Cook has yet to sell any shares of Apple in 2021. His last insider transaction was in November 2020 when he sold **\$6.9M** worth of shares in Nike, where he sits on the board of directors.



Google



Sundar Pichai



27,000



~ \$2,314.6



Sundar Pichai sold Google shares in **3,000 unit allotments** nine times so far in 2021.

**\$62.5M**

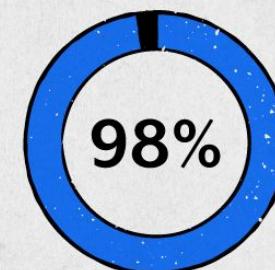


278,694

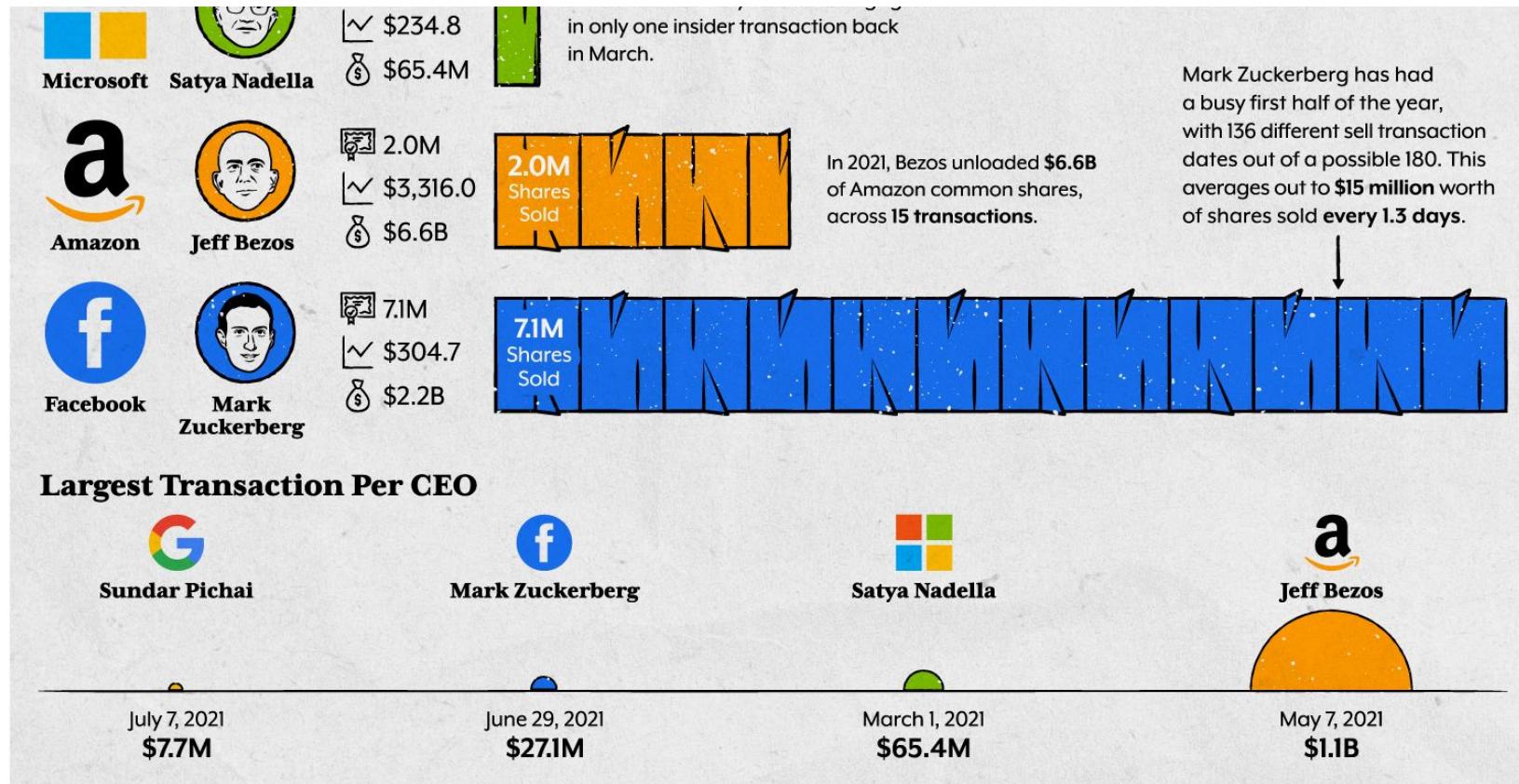


Microsoft CEO Satya Nadella engaged

A useful tool for investors is to monitor insider selling activity. With Big Tech stocks rallying past trillion dollar valuations, how do their CEOs rank by shares sold in the first half of 2021?



An estimated **98%** of Zuckerberg's estimated **\$127 billion** fortune still lies in his Facebook stock.  
Source: Forbes



## Big Tech CEO Insider Trading During The First Half of 2021

When CEOs of major companies are selling their shares, investors can't help but notice.

After all, these decisions have a direct effect on the personal wealth of these insiders, which can say plenty about their convictions with respect to the future direction of the companies they run.

Considering that **Big Tech** stocks are some of the most popular holdings in today's portfolios, and are backed by a collective \$5.3 trillion in **institutional investment**, how do the CEOs of these organizations rank by their insider selling?

CEO	Stock	Shares Sold H1 2021	Value of Shares (\$M)
Elon Musk	Tesla	1.5B shares	\$1.5T
Jeff Bezos	Amazon	1.2B shares	\$1.2T
Mark Zuckerberg	Facebook	1.1B shares	\$1.1T
Steve Jobs	Apple	1.0B shares	\$1.0T
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**TECHNOLOGY**

# The World's Most Used Apps, by Downstream Traffic

Of the millions of apps available around the world, just a small handful of the most used apps dominate global internet traffic.



Published 1 week ago on September 20, 2021

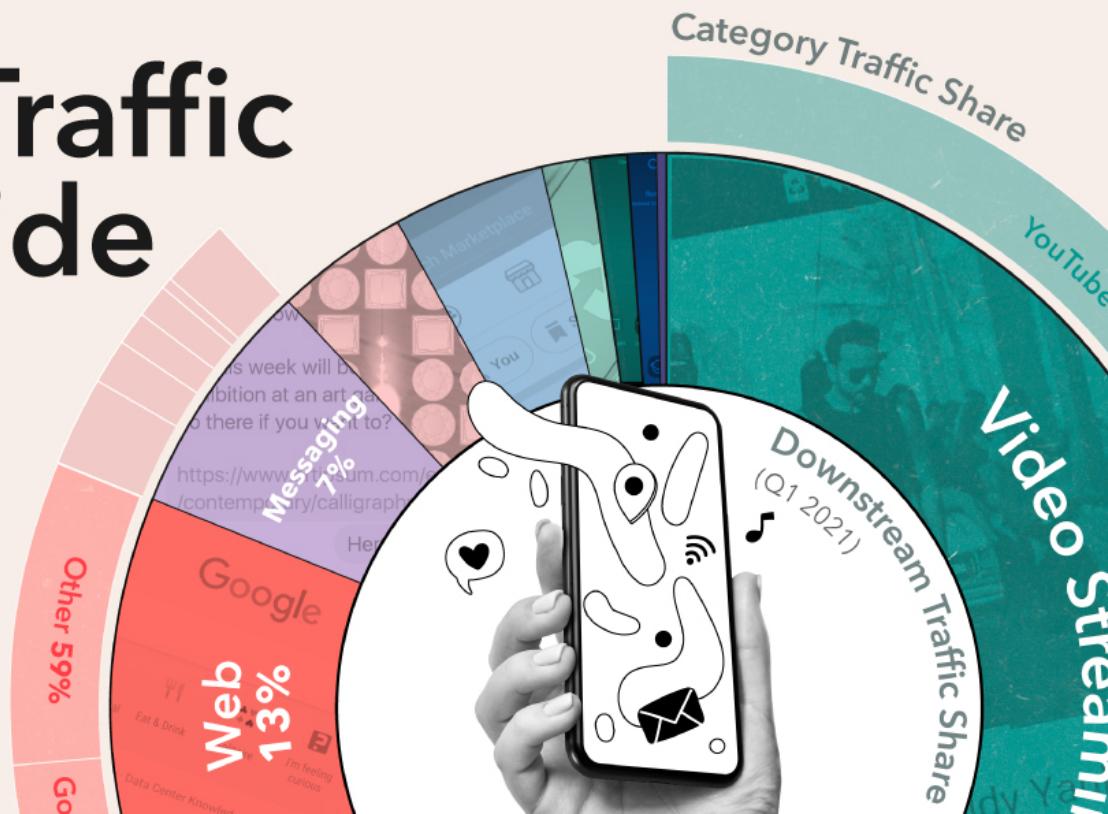
By **Omri Wallach**



# VISUALIZING **Mobile Traffic Worldwide**



**Downstream traffic measures** the amount of data downloaded from the internet to a device, like a message or video clip.



## The World's Most Used Apps, by Downstream Traffic

Of the millions of apps available around the world, just a small handful of the most used apps dominate global internet traffic.

Everything connected to the internet takes bandwidth to view. When you look at something on your smartphone—whether it's a new message on Instagram or the next few seconds of a YouTube video—your device is downloading the data in the background.

And the bigger the files, the more bandwidth is utilized. In this chart, we break down of the most used apps by category, using Sandvine's global mobile traffic report for 2021

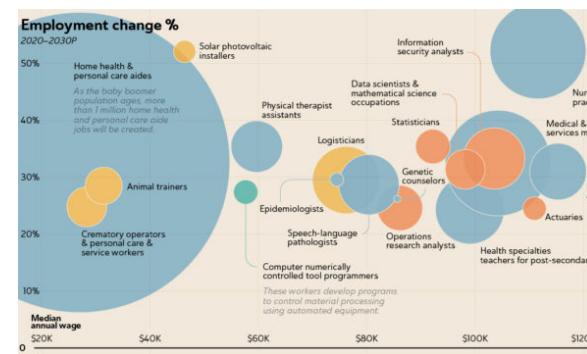
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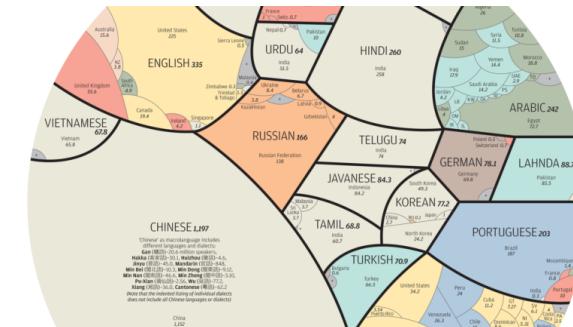
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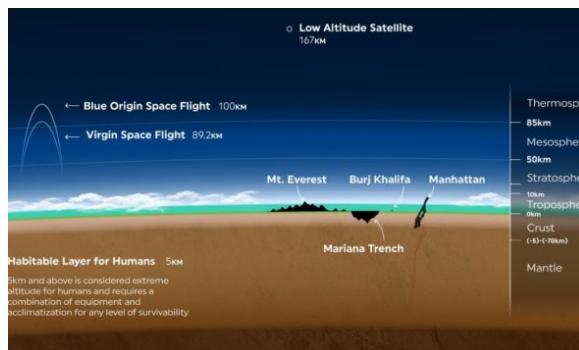
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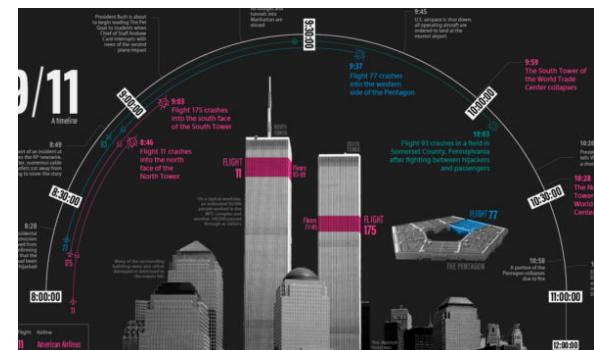
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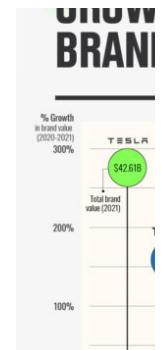
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