



NCSL Task Force on Artificial Intelligence, Cybersecurity and Privacy



HOW IT STARTED



HOW IT'S GOING



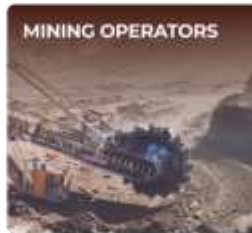
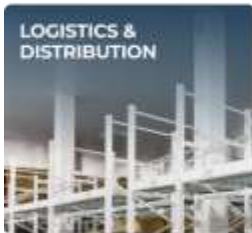
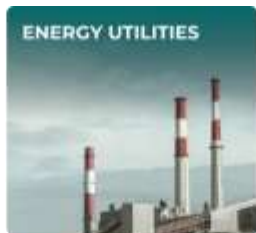
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**Our mission is to
make the world more
productive, creative,
and safe with
autonomous flight.**



Skydio drones put cameras and sensors in places that people can't or don't want to go

Customers rely on skydio across many industries and use cases

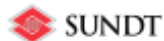




Skydio X10

More than 1500 organizations rely on Skydio

COMMERCIAL



SLED



FEDERAL





MANUFACTURING THE FUTURE IN THE UNITED STATES

Our enterprise products are designed and built in America

- We employ more than 100 people in our manufacturing facility, including Operators, Technicians and Engineers
- With our new 36,000 sqft state of the art facility in, we have grown our manufacturing capacity by 5x in two years



● **Artificial Intelligence**

● **Privacy**

● **Cybersecurity**

● Artificial Intelligence



ChatGPT

The rise of AI: Is it the most influential invention ever?

Technology | 9th May 2023

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IDEAS • TECHNOLOGY

How the AI Revolution Will Reshape the World

IDEAS

BY MUSTAFA SULEYMAN | SEPTEMBER 1, 2023 9:05 AM EDT

Suleyman is the co-founder and CEO of Inflection AI. In 2010 he co-founded DeepMind, which was acquired by Google, and is the author of the upcoming book *The Coming Wave*.

Companies scramble to incorporate generative AI in products



Joe Weisenthal, author of *AI in 100 Days*



The CEO of Kroger Mentioned 'AI' 8 Times on the Company's Earnings Call

By Joe Weisenthal

June 15, 2023 at 12:35 PM PDT



AI-DRIVEN AUTONOMY BOTTOM LINE:

- Improves existing use cases and enables new ones
- Drone adapts to the task rather than the user adapting to the drone

Manual Drones



Autonomous Drones



HARDWARE-CENTRIC

SOFTWARE-DRIVEN

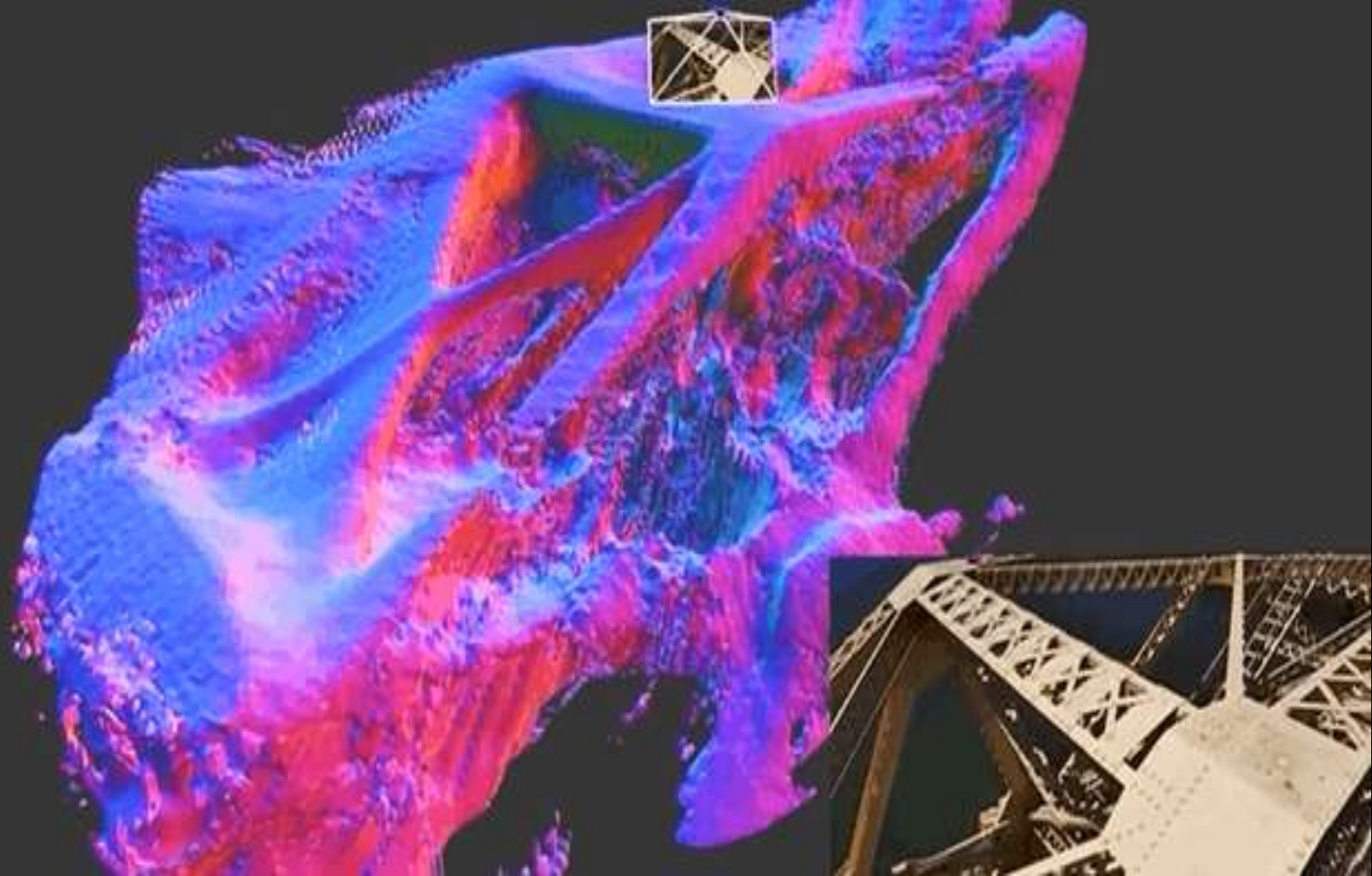


Flip phone



Smartphone





The Mike O'Callaghan-Tillman (OCT) Bridge





Thermal Subject Tacking

An aerial thermal image of an industrial facility. The image shows a large, complex structure with multiple levels and sections. A prominent feature is a long, horizontal structure in the foreground, possibly a conveyor belt or a large storage tank. The background shows various buildings and structures, some of which are brightly lit, indicating high temperatures. The overall scene is captured in a grayscale thermal palette.

Skydio 3D Scan™

Autonomous scene reconstructions



SUPPORTING CALTRANS' INFRASTRUCTURE RESILIENCE



● **Privacy**



DRONERESPONDERS



Skydio

The Five C's: Principles for the Responsible Use of Drones by Public Safety Agencies

1. Community Engagement and Transparency
2. Civil Liberties and Privacy Protection
3. Common Operating Procedures
4. Clear Oversight and Accountability
5. Cybersecurity



Flight Report

June 20th, 2021 12:00 AM - July 20th, 2021 11:59 PM

[List View](#)

Pilot	Vehicle ID	Duration	Launch Time	More Details
mike.ross@skydio.com	Skydio2-8462	2 minutes 51 seconds	7/16/21 8:17 PM	View Flight
shakes.sterne@skydio.com	Skydio2-8259	2 minutes 46 seconds	7/16/21 10:09 AM	View Flight
Colin Rombarger	Skydio2-8259	58 seconds	7/16/21 9:18 PM	View Flight
Colin Rombarger	Skydio2-8259	2 minutes 14 seconds	7/16/21 9:13 PM	View Flight
Danny Wolf	Skydio2-8259	2 minutes 42 seconds	7/16/21 11:28 AM	View Flight
aride.becker+dennis@skydio.com	Skydio2-8259	6 minutes 36 seconds	7/16/21 1:25 AM	View Flight
peter@stevanpeter.com	Skydio2-8259	1 minute	7/15/21 1:38 PM	View Flight
peter@stevanpeter.com	Skydio2-8259	1 minute 32 seconds	7/16/21 1:32 PM	View Flight
David Duhren	Skydio2-8259	6 minutes 14 seconds	7/15/21 10:02 AM	View Flight
Dennis	Skydio2-8259	2 minutes 24 seconds	7/16/21 12:30 AM	View Flight
David Duhren	Skydio2-8462	15 minutes 30 seconds	7/14/21 12:04 PM	View Flight
aride.becker+dennis@skydio.com	Skydio2-8462	3 minutes 30 seconds	7/14/21 4:50 AM	View Flight
aride.becker+dennis@skydio.com	Skydio2-8462	1 minute 35 seconds	7/14/21 1:01 AM	View Flight
james.fitch+dennis@skydio.com	Skydio2-8462	1 minute 30 seconds	7/13/21 10:06 PM	View Flight
james.fitch+dennis@skydio.com	Skydio2-8462	58 seconds	7/13/21 10:03 PM	View Flight
james.fitch+dennis@skydio.com	Skydio2-8462	1 minute 15 seconds	7/13/21 10:00 PM	View Flight
james.fitch+dennis@skydio.com	Skydio2-8462	2 minutes 58 seconds	7/13/21 9:51 PM	View Flight



Patrol-Led Deployment **success stories** from Oklahoma City Police Department



Report of wheelchair-bound victim dumped in wooded area. Rapid response, search and recovery of victim with drone deployment.



Burglary alarm call from security company. Subjects located on roof, with drone, and taken into custody without incident. Subject stated, "I didn't know the police used drones now!"



Las Vegas Police Responds to UNLV Shooting



● **Cybersecurity**

HOW IT STARTED



HOW IT'S GOING



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TIMELINE OF ACTIONS

2020

Congress bans DOD from using drones made by PRC companies

2020

DJI Added to the US Entity List for supporting China's human rights abuses

2021

Florida law bans DJI & FCC Commissioner proposes banning DJI from the US

2021

DOD publicly affirms risk of DJI & Dept. of Treasury adds DJI to investment ban list

2022

Congress bans Coast Guard from using PRC drones & DOD ban expanded to ALL contractors

2022

DOD officially lists DJI as a "Chinese Military Company"

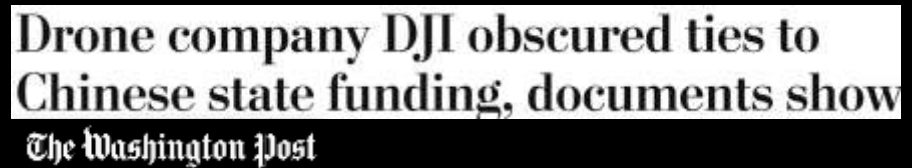
2023

Congress enacts American Security Drone Act

AR, FL, HI, MS, NV, TN, and Texas procurement bans take effect



“Autel is...a subsidiary of Chinese company Shenzhen Daotong Intelligent Aviation”



COUNTRY-OF-ORIGIN POLICY MAKING

By following this plan, lawmakers around the country can ensure that their state or city is advancing the use of trustworthy, secure systems made in the U.S. in a responsible, measured manner.

1.) Recognize that non-secure drones pose an undue risk to national security.

- Non-secure drones pose a serious threat to U.S. national security, potentially exposing sensitive data about critical infrastructure and key military sites.
- China's national security laws require PRC drone companies to provide the Chinese government with whatever information they gather.

The Federal Government has already recognized these national security risks:

- In 2019, the United States Congress prohibited the Department of Defense (DoD) from purchasing drones made by companies based in China in Section 848 of the Fiscal Year 2020 National Defense Authorization Act (NDAA).
- In 2022, in Section 817 of the Fiscal Year 2023 NDAA, Congress expanded Section 848 to prohibit private companies working with the DoD from using insecure drones in the performance of federal contracts.
- In 2023, Congress passed the American Security Drone Act in the Fiscal Year 2024 NDAA, prohibiting all federal agencies from purchasing or operating insecure drones, including those produced in China.
- A Homeland Security Intelligence Bulletin noted that DJI, the largest Chinese drone manufacturer, "has targeted a number of U.S. companies in the critical infrastructure and law enforcement sectors to market its UAS" and "the Chinese government is likely using information acquired from DJI systems as a way to target assets."

AUVSI
PARTNERSHIP
FOR DRONE
COMPETITIVENESS





State-level Restrictions



■ Considering bans
 ■ Banned for Gov't use

NATIONAL DEFENSE AUTHORIZATION ACT FOR FISCAL YEAR 2024

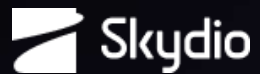
14 **SEC. 1821. SHORT TITLE.**

15 This subtitle may be cited as the “American Security
16 Drone Act of 2023”.

6 **SEC. 1823. PROHIBITION ON PROCUREMENT OF COVERED**
7 **UNMANNED AIRCRAFT SYSTEMS FROM COV-**
8 **ERED FOREIGN ENTITIES.**

12 **SEC. 1824. PROHIBITION ON OPERATION OF COVERED UN-**
13 **MANNED AIRCRAFT SYSTEMS FROM COV-**
14 **ERED FOREIGN ENTITIES.**

1 **SEC. 1825. PROHIBITION ON USE OF FEDERAL FUNDS FOR**
2 **PROCUREMENT AND OPERATION OF COV-**
3 **ERED UNMANNED AIRCRAFT SYSTEMS FROM**
4 **COVERED FOREIGN ENTITIES.**



Skydio For All

Inspire. Support. Empower



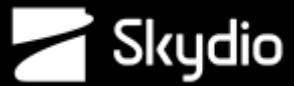
Education Overview 2023



Areas of Impact

- Youth STEM Education
- Cultural & Historical Preservation
- Wildlife Conservation
- Veteran Support
- Humanitarian Crises





Questions?



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