

# Microsoft Head Says Rise Of Killer Robots Is ‘Unstoppable’

A new global arms race? Forget nukes, it's killer robots. Any nation or terrorist group with a screwdriver can join the melee to build killer robots. To the Technocrat mindset, it's a much more efficient way to destroy things and kill people. □ TN Editor

The rise of killer robots is [now unstoppable](#) and a new digital Geneva Convention is essential to protect the world from the growing threat they pose, according to the President of the world's biggest technology company.

In an interview with The Telegraph, Brad Smith, president of Microsoft, said the use of 'lethal autonomous weapon systems' poses a host of new ethical questions which need to be considered by governments as a matter of urgency.

He said the rapidly advancing technology, in which flying, swimming or walking drones can be equipped with lethal weapons systems - missiles,

bombs or guns - which could be programmed to operate entirely or partially autonomously, “ultimately will spread... to many countries”.

The US, China, Israel, South Korea, Russia and the UK are all developing weapon systems with a significant degree of autonomy in the critical functions of selecting and attacking targets.

The technology is a growing focus for many militaries because replacing troops with machines can make the decision to go to war easier.

But it remains unclear who is responsible for deaths or injuries caused by a machine - the developer, manufacturer, commander or the device itself.

Smith said killer robots must “not be allowed to decide on their own to engage in combat and who to kill” and argued that a new international convention needed to be drawn up to govern the use of the technology.

“The safety of civilians is at risk today. We need more urgent action, and we need it in the form of a digital Geneva Convention, rules that will protect civilians and soldiers.”

Speaking at the launch of his new book, *Tools and Weapons*, at the Microsoft store in London’s Oxford Circus, Smith said there was also a need for stricter international rules over the use of [facial recognition technology](#) and other emerging forms of artificial intelligence.

“There needs to be there needs to be a new law in this space, we need regulation in the world of facial recognition in order to protect against potential abuse.”

Read full story here...

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# 75 Nations Now Use AI Facial Recognition For Surveillance

Technocrats have run amok throughout the world while spreading dystopian technology for tracking citizens everywhere. Few have noticed their strategy, but now the shocking numbers are rolling in. □ TN Editor  
A growing number of countries are following China's lead in deploying artificial intelligence to track citizens, according to a research group's report published Tuesday.

The Carnegie Endowment for International Peace says at least 75 countries are actively using AI tools such as facial recognition for surveillance.

The index of countries where some form of AI surveillance is used includes liberal democracies such as the United States and France as well as more autocratic regimes.

Relying on a survey of public records and media reports, the report says Chinese tech companies led by Huawei and Hikvision are supplying

much of the AI surveillance technology to countries around the world. Other companies such as Japan's NEC and U.S.-based IBM, Palantir and Cisco are also major international providers of AI surveillance tools.

Hikvision declined comment Tuesday. The other companies mentioned in the report didn't immediately return requests for comment.

The report encompasses a broad range of AI tools that have some public safety component. The group's index doesn't distinguish between legitimate public safety tools and unlawful or harmful uses such as spying on political opponents.

"I hope citizens will ask tougher questions about how this type of technology is used and what type of impacts it will have," said the report's author, Steven Feldstein, a Carnegie Endowment fellow and associate professor at Boise State University.

Many of the projects cited in Feldstein's report are "smart city" systems in which a municipal government installs an array of sensors, cameras and other internet-connected devices to gather information and communicate with one another. Huawei is a lead provider of such platforms, which can be used to manage traffic or save energy, but which are increasingly also used for public surveillance and security, Feldstein said.

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# Big Brother Cometh: Massive License Plate Database Exceeds 150 Million

Throwing legality and the Constitution aside, Technocrats lust after data on society. Collecting data in real-time is the holy grail of AI that is used for instant analysis and reporting of actionable offenses. □ TN Editor

Our worst fears about automatic license plate readers (ALPR) are much worse than we could have imagined.

Two months ago, I warned everyone that police in Arizona were using ALPR's to [“grid” entire neighborhoods](#). But this story brings public surveillance to a whole new level.

Last month, [Rekor Systems](#) announced that they had launched the [Rekor Public Safety Network](#) (RPSN) which gives law enforcement real-time access to license plates.

*“Any state or local law enforcement agency participating in the RPSN will be able to access real-time data from any part of the network at no cost. The Company is initially launching the network by aggregating vehicle data from customers in over 30 states. With*

*thousands of automatic license plate reading cameras currently in service that capture approximately 150 million plate reads per month, the network is expected to be live by the first quarter of 2020."*

RPSN is a 30 state real-time law enforcement license plate database of more than 150 million people.

And the scary thing about it is; it is free.

"We don't think our participants should be charged for accessing information from a network they contribute to, especially when it provides information that has proven its value in solving crimes and closing cases quickly," said Robert A. Berman, President and CEO, Rekor.

Want to encourage law enforcement to spy on everyone? Give them free access to a massive license plate database.

RPSN's AI software uses machine learning to predict when and where a hotlisted person or a person of interest will be.

*"Rekor's software, powered by artificial intelligence ("AI") and machine learning, can also be added to existing law enforcement security camera networks to search for law enforcement related hotlists as well as Amber Alerts and registered sex offender motor vehicles."*

Rekor admits that police in thirty states are probably spying on more than 150 million license plates each month.

The Westchester County New York Police Department's Real Time Crime Center alone, collects "more than 25 million license plates each month."

An [article](#) in *Traffic Technology Today* revealed that Rekor will go to great lengths to convince police departments to track millions of motorists. "In 2020, the RPSN will be fully compliant with the federal 2019 NDAA law, which bans the use of certain foreign manufactured cameras used in critical infrastructure."

Rekor's 2019 NDAA sales pitch, is both disturbing and despicable. It reveals just where they and law enforcement stand when it comes to using ALPR's to spy on millions of motorists.

### **Police use license plate readers to track motorists in real-time**

An [article](#) in *The Newspaper* revealed how police in Louisiana use license plate readers to track motorists in real-time.

Eric J. Richard had been driving his white Buick LaCrosse on Interstate 10, when he was stopped by Louisiana State Police Trooper Luke Leger for allegedly following a truck too closely. During the roadside interrogation, the trooper asked where Richard was coming from.

"I was coming from my job right there in Vinton," Richard replied. The trooper had already looked up the travel records for Richard's car and already knew it had crossed into Louisiana from Texas earlier in the day. Based on this "apparent lie," the trooper extended the traffic stop by asking more questions and calling in a drug dog.

The article goes on to say that police had no reason to track Mr. Richard, but they did so because they could. And that should frighten everyone.

Rekor lets law enforcement know where your friends and family are, where your doctor's office is, where you worship and where you buy groceries.

How is that for Orwellian?

It is time to face the facts: ALPR's are not about public safety, they are a massive surveillance system designed to let Big Brother track our every movement.

[Read full story here...](#)

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## **Newspeak AI: Totally Fake News Could Destroy Internet**

OpenAI was founded in 2015 to promote and develop AI that would benefit humanity as a whole. Instead, they built the most dangerous AI conceivable that could destroy the Internet and manipulate the minds of every person on earth.

OpenAI was originally funded, in part, by Elon Musk, a consummate Technocrat whose grandfather was head of Technocracy, Inc., in Canada during the 1930s and 40s. □ TN Editor

An artificial intelligence system that generates realistic stories, poems and articles has been updated, with some claiming it is now almost as good as a human writer.

[The text generator](#), built by research firm OpenAI, was originally considered "too dangerous" to make public because of the potential for abuse.

But now a new, more powerful version of the system - that could be used



to create fake news or abusive spam on social media - has been released.

The BBC, along with some AI experts, decided to try it out.

The model, called GPT-2, was trained on a dataset of eight million web pages, and is able to adapt to the style and content of the initial text given to it.

It can finish a Shakespeare poem as well as write articles and epithets.

At the time, the firm said: "Due to our concerns about malicious applications of the technology, we are not releasing the trained model. As an experiment in responsible disclosure, we are instead releasing a much smaller model for researchers to experiment with."

As a result, the released version had far fewer parameters - phrases and sentences - than used during training.

This month, OpenAI decided to expand the parameters, offering a much broader database of training data.

[Tech news site The Next Web said of the update:](#) "This one works almost good enough to use as a general artificial intelligence for text generation - almost."

Article author Tristan Greene added: I'm terrified of GPT-2 because it represents the kind of technology that evil humans are going to use to manipulate the population - and in my opinion that makes it more dangerous than any gun."

The BBC decided to test the system by inputting the first few sentences of a recent story, appropriately one about AI.

We began with the first sentence of the real story:

**Chinese search engine Sogou is creating artificial intelligence lookalikes to read popular novels in authors' voices.**

Here's what the text generator came up with to complete it:

*According to the researchers, this method of reading is not just the brainchild of Amazon Kindle users. Users of Android devices are also a notable market for fake reading. There are several theories to explain this.*

*Firstly, the device in a user's hand is different from the tablet or computer they are reading on. Secondly, the device used to access the Internet might be tampered with in some way. A third reason is the user may just copy and paste content directly into their virtual characters.*

*However, another explanation is that the device does not have voice recognition capabilities at all. If this is the case then voice recognition is more advanced than Google's translation engine. As such, these users are tricked into thinking they are reading from a real author - the book is made to sound authentic as soon as they try and read.*

Now [click here to read the real story](#) for comparison.

Noel Sharkey, a professor of computer science at the University of Sheffield, conducted his own tests on the generator and was not too impressed.

## **Man walks into a bar**

“If the software worked as intended by Open AI, it would be a very useful tool for easily generating fake news and clickbait spam. Fortunately, in its present form, it generates incoherent and ridiculous text with little relation to the input ‘headlines’,” he said.

He added: “ I tested the software with numerous headlines and got laughable results. For example, for ‘Turkeys hate Christmas’, I got that ‘Turkey is the only nation in the world that doesn’t celebrate Christmas’ and a number of unrelated sentences.

“For ‘Boris Johnson loves the backstop’, it produced incoherent gibberish and some stuff about AI and sport. When I input the statement that ‘Boris Johnson hates the backstop’, I got a more coherent story that appears to have been pulled off a Google search.”

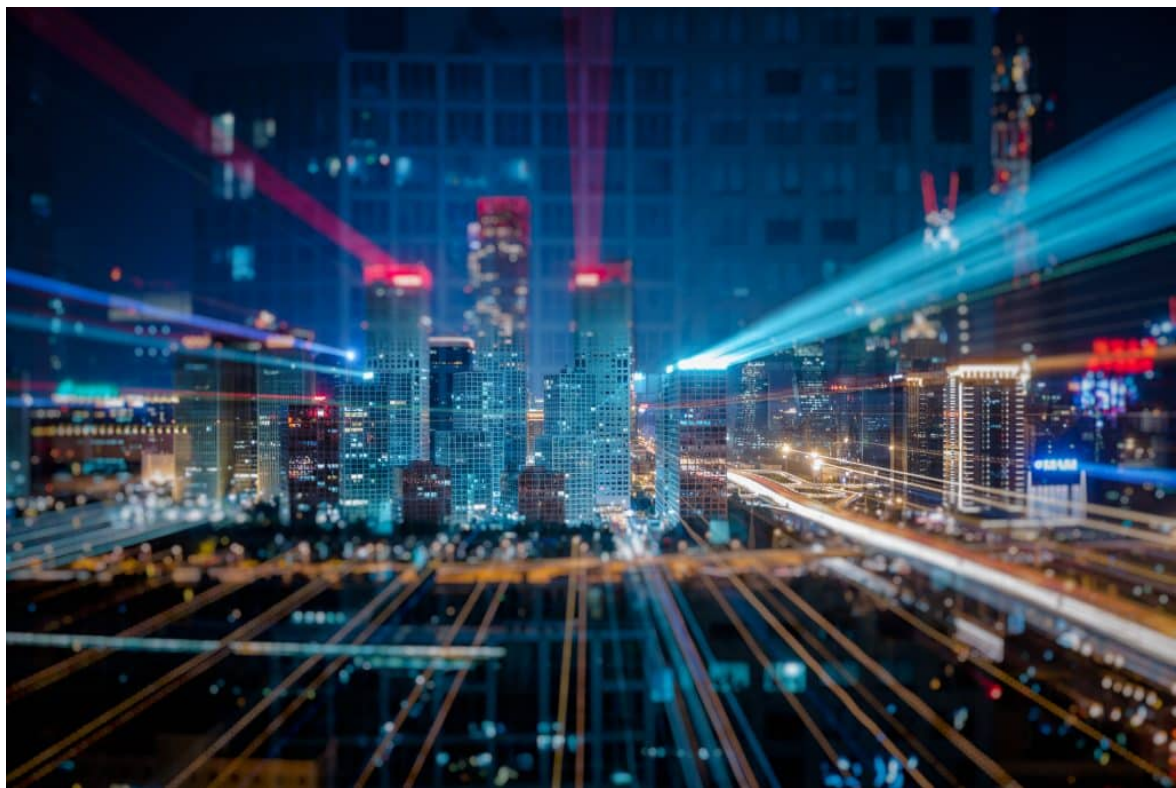
Dave Coplin, founder of AI consultancy the Envisioners, also had a play with the system, inputting the first line of a classic joke: *A man walks into a bar...*

The suggestion from the AI was not what he was expecting: "...And ordered two pints of beer and two scotches. When he tried to pay the bill, he was confronted by two men - one of whom shouted "This is for Syria". The man was then left bleeding and stabbed in the throat".

This "overwhelmingly dystopian reflection of our society" was a lesson in how any AI system will reflect the bias found in training data, he said.

"From my brief experiments with the model, it's pretty clear that a large portion of the data has been trained by internet news stories," he said.

[Read full story here...](#)



# Digital Slavery: 5G, Internet of Things and Artificial Intelligence

The Technocrat's lust for 5G and Internet of Things is so strong that they are perfectly willing to ignore all human concerns, protests and especially health concerns. However, the issue of Scientific Dictatorship, aka Technocracy, is much greater. □ TN Editor

Technocracy was originally defined as “the science of social engineering, the scientific operation of the entire social mechanism to produce and distribute goods and services to the entire population...” (*The Technocrat Magazine*, 1938)

Planted as a seed in 1932, Technocracy has grown into a tree so big that it literally covers the earth today: that is, through the rebranding and repurposing by the United Nations as Sustainable Development, Agenda 21, 2030 Agenda, New Urban Agenda, etc.

Furthermore, it is like a hydra-headed monster with many tentacles and expressions, but we must never lose sight of the common purpose of all: kill the world's economic system of Capitalism and Free Enterprise and replace it with the vacuous economic system, Sustainable Development.

Since Technocracy is a resource-based economic system, people like you and I are considered as mere resources on the same level as livestock on a ranch. If people are just animals who selfishly consume resources, then they must be monitored, managed and limited in their consumption.

To this end, Technocracy originally called for *total surveillance* of all people, all consumption, all production and all energy consumed in every activity. The outcome was to *control* all consumption and production. This level of technology didn't exist in 1932, but it does today!

When the surveillance network in America (and the world) is finally functional, the command and control system will become reality, resulting in a Scientific Dictatorship that exceeds even Orwell's

*Nineteen Eighty Four* or Huxley's *Brave New World*.

What is the last cog in the gearbox necessary to bring this about? **In short, 5G!**

Why? When you consider the massive amount of data that is waiting to be collected from the widespread Internet of Things, facial recognition cameras, Smart City sensors, self-driving vehicles, etc., they all lack one element: **real-time connectivity. 5G solves this!**

If you listen to any 2019 speech given by the CEO of Verizon, T-Mobile or AT&T, you will hear them rave over how 5G's real-time connectivity is going to light up the Internet of Things like a Macy's Christmas tree. You will hear the words "transformative" and "disruptive" over and over.

What's the big deal with "real-time" connectivity? **Artificial Intelligence** (AI).

It is said that AI without data is as inert and useless as a pile of rocks. AI needs data to "learn" and then to take action. Up until now, Technocrats who create AI programs have had to use historical data for learning and that's about all; forever learning but never doing.

The "holy grail" of Technocrats is to use their AI on REAL-TIME DATA. Real-time analysis can then close the **control loop by feeding back real-time adjustments**. This has never been done in the history of the world, but thanks to 5G, Technocrats everywhere are salivating to dive into the control business; that is, the "scientific operation of the entire social mechanism."

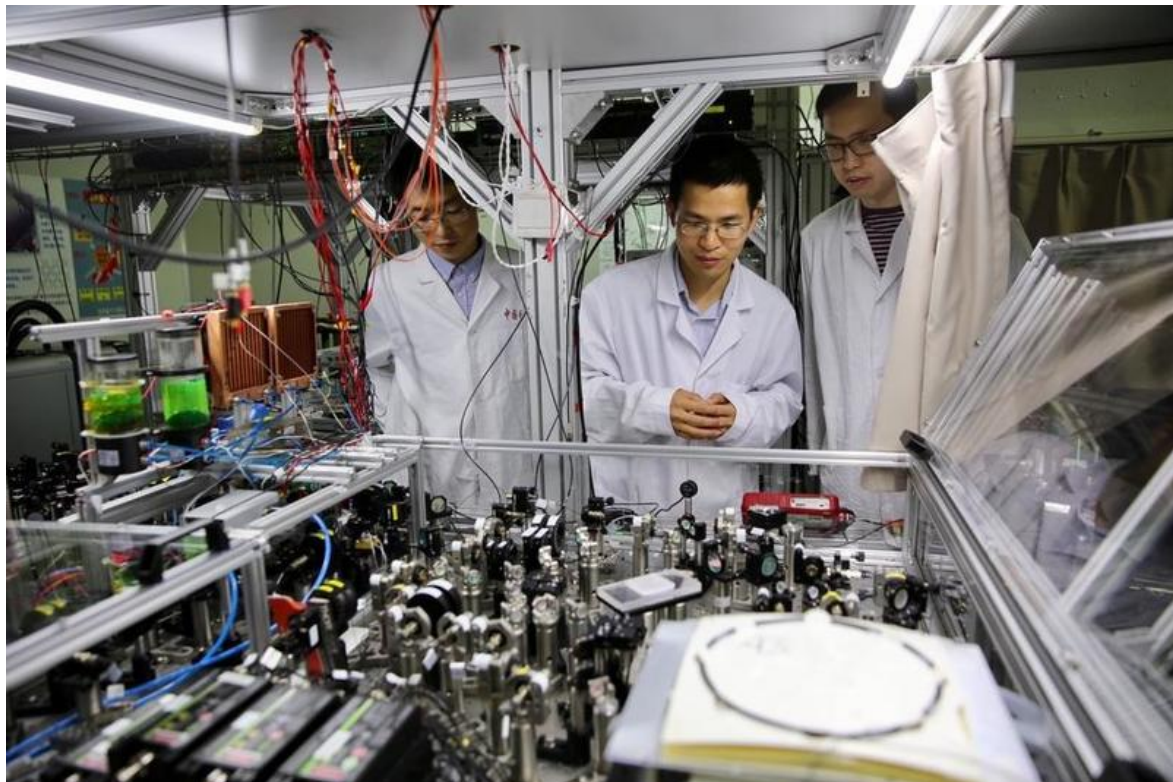
Let me give you an example. Say you are an engineer and you designed and built a state-of-the-art fire truck that will revolutionize firefighting. There it sits on display for everyone to see. You start the engine and everyone is duly impressed, but still, it just sits there. Without water (e.g., the data) to pump through the numerous hoses, everyone, including yourself, can only imagine of what it would be like. In fact, your engineering dream is quite useless until you take it to an actual, real-time fire and blast away with the water cannons to douse the flames. **Then** you will know if you were successful or not.

Technocrats understand this. They know that 5G will fully enable their AI inventions and dreams. Unfortunately for us, they also know that it will **enable the feedback loop to control the objects of surveillance**, namely, US!

The Technocrat's lust for 5G and Internet of Things is so strong that they are perfectly willing to ignore all human concerns, protests and especially health concerns.

Perhaps now you can understand how and why they are living out the old nautical phrase, "***Damn the torpedoes, full speed ahead!***" Risks don't matter. Danger doesn't matter. Collateral damage doesn't matter.

To the extent that we citizens can nullify the rollout and implementation of 5G, we will scuttle the Technocrat's ability to establish a Scientific Dictatorship. ***Truly, it is we who should be mounting the counter-attack with our own cry of "Damn the torpedoes, full speed ahead!"***



# China Is Leading The Quantum Computing Revolution

Quantum technology is important because it could potentially lead to total domination over Internet security, censorship and control. Chinese Technocrats are intent on leading this disruption. □ TN Editor

More than a decade ago, Chinese physicist Pan Jian-Wei returned home from Europe to help oversee research into some of the most important technology of the 21st century.

At a conference in Shanghai this summer, Pan and his team offered a rare peek at the work he described as a “revolution.”

They spoke of the hacking-resistant communications networks they are building across China, the sensors they are designing to see through smog and around corners, and the prototype computers that may someday smash the computational power of any existing machine.

All the gear is based on quantum technology - an emerging field that could transform information processing and confer big economic and national-security advantages to countries that dominate it. To the dismay of some scientists and officials in the United States, China’s formidable investment is helping it catch up with Western research in the field and, in a few areas, pull ahead.

Beijing is pouring billions into research and development and is offering Chinese scientists big perks to return home from Western labs. China’s drive has sparked calls for more R&D funding in the United States, and helped trigger concerns in the Trump administration that some types of scientific collaboration with China may be aiding the People’s Liberation Army and hurting U.S. interests.

“The United States must be prepared for a future in which its traditional technological predominance faces new, perhaps unprecedented challenges,” the Center for a New American Security wrote in a recent report about China’s quantum ambitions.

Quantum technology seeks to harness the distinct properties of atoms, photons and electrons to build more powerful tools for processing information.

Last year, China had nearly twice as many patent filings as the United States for quantum technology overall, a category that includes communications and cryptology devices, according to market research firm Patinformatics. The United States, though, leads the world in patents relating to the most prized segment of the field - quantum computers - thanks to heavy investment by IBM, Google, Microsoft and others.

Helping oversee China's program is Pan, whom Chinese media call the "father of quantum." From his labs at the University of Science and Technology of China (USTC), in Shanghai and Hefei, the 49-year-old leads a team of 130 researchers. In 2017, the journal Nature named him one of "ten people who mattered this year," saying he had "lit a fire under the country's efforts in quantum technology."

Pan occasionally gives lab tours to President Xi Jinping, who takes a keen interest in his work, according to Chinese media. Pan is also overseeing plans for a new national lab for quantum research in Anhui province, which he said had drawn about \$400 million in government funding.

At the Shanghai event, Pan illustrated his slide presentation with science-nerd jokes about Einstein and "Star Trek." In a nod to Schrödinger's cat - a 1930s thought experiment that helped define a quantum concept called superposition - Pan used images of a cartoon feline standing upright and lying flat on its back.

"As we all know, in our everyday life, a cat can only either be in an alive or dead state," Pan said, but "a cat in the quantum world can be in a coherent superposition of alive and dead states."

He was making the point that quantum particles, also known as quantum bits, differ fundamentally from the bits in today's technology. Existing computers and communications networks store, process and transmit information by breaking it down into long streams of bits, which are



typically electrical or optical pulses representing a zero or one.

Quantum bits, or qubits, which are often atoms, electrons or photons, can exist as zeros and ones at the same time, or in any position between, a flexibility that allows them to process information in new ways. Some physicists compare them to a spinning coin that is simultaneously in a heads and tails state.

In his talk, Pan detailed how China is harnessing qubits to safeguard its communications from hacking - one of the fields in which China appears to have a lead over the West.

[Read full story here...](#)

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## **Transhuman Quest: AI Chips Implanted In Brain**

Make no mistake about this, implantable tech is about Transhumanism, not science. Transhumans like Musk and Ray Kurzweil dream of

achieving immortality by uploading their brain to the cloud. □ TN Editor  
Last month, Elon Musk's [Neuralink](#), a neurotechnology company, revealed its plans to develop brain-reading technology over the next few years. One of the goals for Musk's firm is to eventually implant microchip-devices into the brains of paralyzed people, allowing them to control smartphones and computers.

Although this Black Mirror-esque technology could hold potentially life-changing powers for those living with disabilities, according to Cognitive Psychologist Susan Schneider, it's not such a great idea, and I can't help but feel relieved, I'm with Schneider on this.

Musk, who's also the Chief Executive of both Tesla and SpaceX, aims to make implanting AI in the brain as safe and commonplace as laser eye surgery. But, how would this work? In a video presented unveiled at the California Academy of Science, Musk said the [implant would record information emitted by neurons in the brain](#).

The tiny processors will connect to your brain via tiny threads significantly thinner than a human hair (about 4 to 6  $\mu\text{m}$  in width). These sensors will fit on the surface of your skull and then relay information to a wearable computer that sits behind your ear, called The Link. With this all in place, your brain can then connect to your iPhone via an app — we are truly living in the future and it's terrifying.

**Musk isn't the only person radicalizing the future of our brain's. For example, [Ray Kurzweil, the futurist and Director of Engineering at Google, said he expects that we'll be able to back our brains up to the cloud by 2045 — ultimately making us immortal.](#)**

But as Schneider points out, we shouldn't fully invest our trust in the suggestion that humans can merge with AI. Instead, more research should be done around the possibilities and consequences of merging technology with the human brain.

[Read full story here...](#)



# Amazon's Facial Recognition Software Now Identifies Fear

Amazon's Rekognition software that is widely sold to law enforcement agencies, adds 'Fear' to its emotional recognition of 'Happy', 'Sad', 'Angry', 'Surprised', 'Disgusted', 'Calm' and 'Confused'. □ TN Editor

[Amazon](#) said this week its facial recognition software can detect a person's fear.

Rekognition is one of many Amazon Web Services (AWS) cloud services available for developers. It can be used for facial analysis or sentiment analysis, which identifies different expressions and predicts emotions from images of people's faces. The service uses artificial intelligence to "learn" from the reams of data it processes.

The tech giant revealed updates to the controversial tool on Monday that include improving the accuracy and functionality of its face analysis features such as identifying gender, emotions and age range.

"With this release, we have further improved the accuracy of gender

identification,” Amazon [said in a blog post](#). “In addition, we have improved accuracy for emotion detection (for all 7 emotions: ‘Happy’, ‘Sad’, ‘Angry’, ‘Surprised’, ‘Disgusted’, ‘Calm’ and ‘Confused’) and added a new emotion: ‘Fear.’”

Artificial intelligence researchers have invested plenty of resources to try and read a person’s emotions by analyzing their facial features, movements, voice and more. Some tech companies involved in the space include [Microsoft](#), [Affectiva](#) and [Kairos](#).

[But some experts have pointed out](#) that, while there is scientific evidence suggesting there are correlations between facial expressions and emotions, the way people communicate major emotions varies across cultures and situations. Sometimes, similar types of facial movements can express more than one category of emotions, and so researchers have warned “it is not possible to confidently infer happiness from a smile, anger from a scowl, or sadness from a frown, as much of current technology tries to do when applying what are mistakenly believed to be scientific facts.”

The availability of facial recognition technology has also raised concerns about its potential use in surveillance and for the possibility that it could intrude on privacy.

[Read full story here...](#)

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## How Close Is Skynet AI? Too Close!

Mimicking Terminator's science fiction AI called Skynet, GEOINT's Sentient system learns on its own and autonomously points diverse sensor/surveillance systems to get what it wants and in real-time.

Deputy Director of the National Reconnaissance office says that "Sentient catalogs normal patterns, detects anomalies, and helps forecast and model adversaries' potential courses of action... Sentient is a thinking system."

While this is amazing technology for the battlefield, the military is currently turning it on American soil in conjunction with various law enforcement agencies, including the Department of Homeland Security. If not stopped, this will lead to a total Scientific Dictatorship, aka Technocracy. □ TN Editor

At the final session of the 2019 Space Symposium in Colorado Springs, attendees straggled into a giant ballroom to listen to an Air Force official and a National Geospatial-Intelligence Agency (NGA) executive discuss, as the panel title put it, "Enterprise Disruption." The presentation stayed

as vague as the title until a direct question from the audience seemed to make the panelists squirm.

Just how good, the person wondered, had the military and intelligence communities' algorithms gotten at interpreting data and taking action based on that analysis? They pointed out that the commercial satellite industry has software that can tally shipping containers on cargo ships and cars in parking lots soon after their pictures are snapped in space. "When will the Department of Defense have real-time, automated, global order of battle?" they asked.

"That's a great question," said Chirag Parikh, director of the NGA's Office of Sciences and Methodologies. "And there's a lot of really good classified answers."

He paused and shifted in his seat. "What's the next question?" he asked, smiling. But he continued talking, describing how "geospatial intelligence" no longer simply means pictures from satellites. It means anything with a timestamp and a location stamp, and the attempt to integrate all that sundry data.

Then, Parikh actually answered this question: When would that translate to near-instantaneous understanding and strategy development?

"If not now," he said, "very soon."

Parikh didn't mention any particular programs that might help enable this kind of autonomous, real-time interpretation. But an initiative called Sentient has relevant capabilities. A product of the National Reconnaissance Office (NRO), Sentient is (or at least aims to be) an [omnivorous analysis tool](#), capable of devouring data of all sorts, making sense of the past and present, anticipating the future, and pointing satellites toward what it determines will be the most *interesting* parts of that future. That, ideally, makes things simpler downstream for human analysts at other organizations, like the NGA, with which the satellite-centric NRO partners.

Until now, Sentient has been treated as a government secret, except for vague allusions in a few speeches and presentations. But [recently](#)

[released documents](#) — many formerly classified secret or top secret — reveal new details about the program’s goals, progress, and reach.

Research related to Sentient has been going on since at least October 2010, when the agency posted [a request](#) for Sentient Enterprise white papers. [A presentation](#) says the program achieved its first R&D milestone in 2013, but details about what that milestone actually was remain redacted. (Deputy director of NRO’s Office of Public Affairs Karen Furgerson declined to comment on this timing in an email to *The Verge*.) A 2016 House Armed Services Committee [hearing](#) on national security space included a quick summary of this data-driven brain, but public meetings haven’t mentioned it since. In 2018, a presentation [posted online](#) claimed Sentient would go live that year, although Furgerson told *The Verge* it was currently under development.

The NRO has not said much about Sentient publicly because it is a classified program,” says Furgerson in an email, “and NRO rarely appears before Congress in open hearings.”

The agency has been developing this artificial brain for years, but details available to the public remain scarce. “It ingests high volumes of data and processes it,” says Furgerson. “Sentient catalogs normal patterns, detects anomalies, and helps forecast and model adversaries’ potential courses of action.” The NRO did not provide examples of patterns or anomalies, but one could imagine that things like “not moving a missile” versus “moving a missile” might be on the list. Those forecasts in hand, Sentient could turn satellites’ sensors to the right place at the right time to catch ill will (or whatever else it wants to see) in action. “Sentient is a thinking system,” says Furgerson.

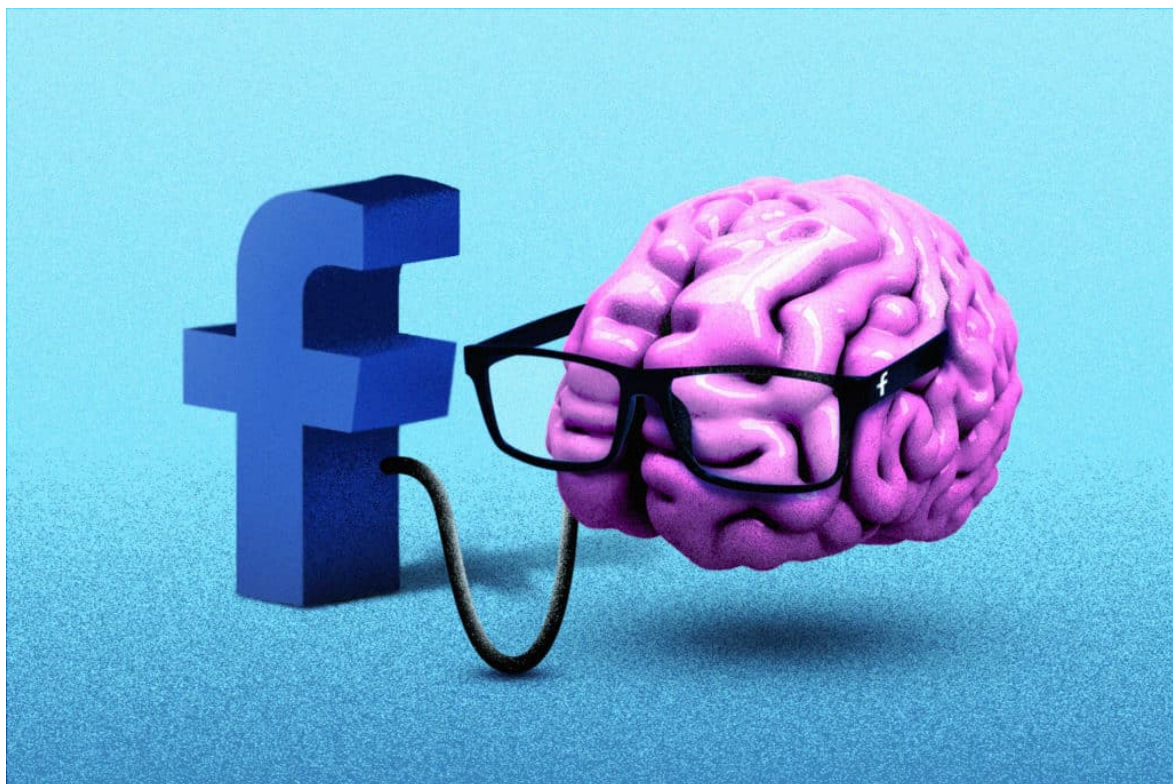
It’s not all dystopian: the documents released by the NRO also imply that Sentient can make satellites more efficient and productive. It could also [free up](#) humans to focus on deep analysis rather than tedious needle-finding. But it could also contain unquestioned biases, come to dubious conclusions, and raise civil liberties concerns. Because of its secretive nature, we don’t know much about those potential problems.

“The NRO’s and the Intelligence Community’s standard practice is to

NOT disclose sensitive sources and methods, as such disclosure introduces high risk of adversary nations' countering them," says Furgerson. "Such loss harms our nation and its allies; it decreases U.S. information advantage and national security. For those reasons, details about Sentient remain classified and what we can say about it is limited."

[Read full story here...](#)

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## **Cognitive Liberty: No, You Can't Read My Thoughts!**

As Obama's 2013 [Brain Initiative](#) to map the human brain pays off, technology can now read your thoughts and emotions to reveal your "inner voice". Technocrats envision total control over the "human animal". □ TN Editor

[Facebook has created devices that read all the words of your inner](#)



[voice](#) and Elon Musk's Neuralink is creating brain-computer interfaces (BCI) that will have thousands and later millions of nodes.

Temporarily mitigating remote mind-reading of your inner voice could involve headphones for music and distractions of your own thoughts to less sensitive topics. However, the world is clearly developing where your thoughts and brain activity will be readable by anyone with relatively inexpensive devices.

We have already lost privacy to our financial activity, internet activity, retail activity and smartphones.

[China, India, Iran, Russia, Japan, USA and European nations](#) are actively working to improve existing electroencephalography, magnetic resonance, functional infrared, and the magnetic encephalography spectrums to develop future military applications. The US Air Force believes BCI interfaces could provide faster reaction times for firing missiles, drones and guns.

[There are many dramatic advances in mind-reading which uses](#) BCI (Brain-Computer Interfaces) to decode brain states to reconstruct what a subject is experiencing. There is a growing market for computer game and devices that are controlled by brain states (<http://www.bcireview.com/>). Wireless technology has made it possible to record from mobile humans.

BCI have been used to replace lost sensory interfaces. Cochlear implants were developed in the 1970s and over 219,000 people worldwide have received cochlear implants. Progress has been made on retinal and cortical implants to restore sight in blind patients. Blind patients have reported substantial "sight" using a camera to activate an array of electrodes on the tongue, one of the most sensitive sensory surfaces of the body.

The Tech giants and militaries around the world will be deploying this rapidly advancing versions of technology from now through 2035. Military think tanks are assuming this will be a dominant interface and

highly impactful by 2030.

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