

TikTok, ByteDance, and their ties to the Chinese Communist Party

Submission to the Senate Select Committee
on Foreign Interference through Social Media

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Rachel Lee
Prudence Luttrell
Matthew Johnson
John Garnaut

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About this Submission

This submission is addressed to:

Committee Secretary
Select Committee on Foreign Interference through Social Media
Department of the Senate
PO Box 6100
Canberra ACT 2600

The authors of this report* express thanks to the Australian Senate Select Committee on Foreign Interference through Social Media for the opportunity to make this submission.

Our submission is motivated by concerns that TikTok (and potentially other platforms subject to authoritarian political leverage) pose risks not only to the data privacy of individual users, but to social cohesion, democratic functioning, and the national security interests of democratic nations including Australia and its partners and allies.

The analysis in this report is anchored in open-source material, as can be examined in the hundreds of endnotes. Many of our references point to Chinese-language sources that have been overlooked by the public debate to date. Some of our most important sources have been excavated from digital archives after being taken offline by TikTok's parent company, ByteDance, or authorities in the People's Republic of China (PRC).

Our research confirms beyond any plausible doubt that TikTok is owned by ByteDance, ByteDance is a PRC company, and ByteDance is subject to all the influence, guidance and de facto control to which the Chinese Communist Party (CCP, the Party) now subjects all PRC technology companies. We show how the CCP and PRC state agencies (together, the Party-state) have extended their ties into ByteDance to the point that **the company can no longer be accurately described as a private enterprise.**

These findings draw on previously unexamined sources and contradict many of TikTok's public statements. The most significant findings, in our view, relate to how TikTok's capabilities may be integrated with what China's leader Xi Jinping describes as the Party's "external discourse mechanisms".

TikTok has recently generated attention among politicians and policymakers for its potential use as a data access and surveillance tool, leading to multiple national and state governments banning the app's use on government-issued devices.¹ Mostly missing, however, has been discussion of how TikTok provides Beijing with the **latent capability to**

* Rachel Lee is a pseudonym as requested by the author and agreed by the Committee.

“weaponise” the platform by suppressing, amplifying and otherwise calibrating narratives in ways that micro-target political constituencies abroad.

TikTok undoubtably possesses the requisite capabilities, and a close examination of Chinese-language sources reveals the Chinese leadership’s intent. Our research shows how **ByteDance’s 10-year development journey tracks with Xi Jinping’s efforts to “meticulously build an external discourse mechanism [and] utilise the role of emerging media”**, as Xi told a “Study Session” of China’s top leaders in December 2013.²

In 2017, ByteDance launched TikTok and acquired the U.S. company Musical.ly. At the same time, Beijing launched a six-year regulatory campaign to build Party control systems inside ByteDance and accelerated the integration of senior corporate leaders into its “public opinion guidance” regime. Over this same period, Beijing has blocked the TikTok app inside China while enabling it to flourish outside China – to the point that it is now one of the most sophisticated and powerful social media platforms in the world.

In May 2021, Xi returned to another Politburo “Study Session” and instructed his colleagues to use the “external discourse mechanisms” that they had built in order to **“target different regions, different countries, and different groups of audiences”** with **“precise communication methods”** in order to **“make friends, unite and win the majority, and constantly expand our circle of friends who know China and are China-friendly.”**³

Xi did not name TikTok in the official meeting readout, published by Xinhua. Subsequently, however, the People’s Daily (Overseas Edition) elaborated on Xi’s message in an article (republished by Xinhua) that called for China to **“allow short video platforms to become ‘megaphones’ for telling Chinese stories well and spreading Chinese voices well”**.⁴ The article mentioned TikTok specifically as the representative example of short video platforms.

In Washington, in the pre-TikTok era, Russian intelligence actors “interfered in the 2016 presidential election in sweeping and systematic fashion”, according to the Mueller report.⁵ They did this by waging “a social media campaign that favoured presidential candidate Donald J. Trump and disparaged presidential candidate Hillary Clinton”, while seeking to “provoke and amplify political and social discord in the United States”.⁶

Mueller found no evidence that Russia caused the election of Trump or that Trump had colluded with Russia. Nevertheless, Russia’s interference fed perceptions that bitterly divided Americans and wounded the faith of many that the election had been free and fair.

In Canberra, the spectacle of Russian interference in the U.S. presidential election provided impetus to an Australian Government investigation into authoritarian interference in the Australian political system. According to media reports, the classified inter-agency report delivered in 2017 found that “the CCP’s operations are aimed at all levels of government and designed to gain access and influence over policy making.”⁷

According to the then-Prime Minister, Malcolm Turnbull, this analytical work “galvanised” the Australian Government to deliver a comprehensive counter foreign interference strategy, with bipartisan support.⁸ It also generated conversations in other Five Eyes nations, catalysed Australia’s strategic recalibration with respect to China,⁹ and contributed to decisions such as blocking Huawei from 5G networks (2018), elevating the Quadrilateral Security Dialogue to leadership level (2021), and forging the three-nation AUKUS agreement to jointly develop emerging technologies and deliver nuclear-powered submarines to Australia (2021 and 2023).

In Ottawa, intelligence agencies reportedly found in 2017 that the CCP was interfering at “all levels of government”.¹⁰ In contrast with Australia, however, Canada’s political leaders did not act, and the problem of CCP interference continued to grow.¹¹

Last week, while battling allegations of turning a blind eye,¹² Prime Minister Justin Trudeau announced two probes into foreign interference and a special rapporteur who will have “a wide mandate to make expert recommendations on protecting and enhancing Canadians’ faith in our democracy”.¹³ Whatever is revealed, the damage already caused to Canadian democracy is real.

In the absence of policy action, TikTok could be the next challenge to democracies’ resilience against authoritarian interference. As ever, the challenge is to deal with the potential for foreign interference before ‘elite capture’ becomes ‘state capture’.

It is possible that TikTok has already become so entrenched in some jurisdictions that politicians fear that banning TikTok might amount to political self-sabotage. As U.S. Secretary of Commerce Gina Raimondo told Bloomberg earlier this month: *“The politician in me thinks you’re gonna literally lose every voter under 35, forever.”*¹⁴

If the risks remain unaddressed, **the integrity of future elections could be vulnerable to allegations from both analysts and opportunists that elections have been “rigged” by a condominium of politicians and China’s super-app TikTok.** Much of it might be overstated, but – in the absence of effective policy action – there will be enough truth to make the allegations stick, leaving the credibility of democratic processes in doubt.

Our purpose in submitting this report is not to prescribe legislative or administrative actions, but to contribute constructively to public conversations and regulatory deliberations by identifying relevant empirical source material and filling analytical gaps.

In recent years, Australia has been a pioneer among democratic countries in building a bipartisan foundation for analysing and building resilience against authoritarian foreign interference. We submit this work to the Australian Senate because we believe Australia could play a similarly constructive role again.

Disclaimer

Our report relies on a wide range of online and other publicly available sources on TikTok, ByteDance, their relationship to China's Party-state, and risks they may pose to data privacy, national security, and the integrity of democratic systems globally.

To our knowledge, many of the most significant Chinese-language sources cited in this report have been overlooked in the public debate surrounding these companies. We consider our analysis to be sound and factual, and present it in the good faith belief that it is, but we are not in a position to independently verify the accuracy of the information contained in any public records.

Executive Summary

1. **A Powerful Public Platform – Not Just Dance Videos:** TikTok’s claims that it is about entertainment, not politics, are untenable. Last year, a third of adult users got their news from it, while one in six American teens say they are on the platform “almost constantly”. The platform has significance far beyond playful short videos.
2. **The True Origin Story:** A formative experience absent from founder Zhang Yiming’s official biographies is Beijing’s 2009 decision to shut down a Twitter clone he founded, Fanfou. The lesson, as later told by a ByteDance censor: *“Failing to delete politically sensitive content . . . is a life-and-death matter.”*
3. **Airbrushing the Parent:** The website of TikTok parent ByteDance today is bare bones, lacking detail about the company founder, corporate structure or partners. Excavating four years of archived snapshots reveals layers of disappearing information – including proof that TikTok is the wholly owned corporate child of ByteDance.
4. **TikTok’s Chinese Twin:** While TikTok is a household name, its analogue in China, Douyin, is not. TikTok claims to be its own insulated entity, but our research indicates that TikTok and Douyin share personnel and technological resources, have parallel management structures, and permit data sharing with each other.
5. **Not a Private Entity:** If ByteDance was once a private enterprise controlled by its founder, then it is no longer. The company’s status began to change in 2017, when it launched TikTok and acquired Musical.ly. The Chinese Communist Party commenced a program of co-option, infiltration, and legal and extra-legal coercion. In our view, ByteDance should now be understood as a “hybrid” state-private entity.
6. **The Chief Editor is also the Communist Party Boss:** ByteDance does not publicise that its editor-in-chief, Zhang Fuping (no relation to Zhang Yiming), is also its Communist Party Secretary. His guidance is clear: *“Transmit the correct political direction, public opinion guidance and value orientation into every business and product line.”*
7. **“Positive Energy” for China’s Military Police:** Chief-Editor-and-Party-Secretary Zhang Fuping was pictured at a 2017 signing ceremony with the director of the Political Work Department of the People’s Armed Police, the CCP’s domestic paramilitary force. According to a 2019 announcement, Douyin would help to *“spread the positive energy of the People’s Armed Police”*.
8. **Military-Security-Propaganda Collaboration:** ByteDance says it *“does not produce, operate or disseminate any products or services related to surveillance”*. But we found Douyin, TikTok’s analogue in China, directly aids Party propaganda and repression and its top leaders are ‘double-hatted’ in official propaganda organisations.

9. **Founder Stripped of His Shares?** Our review of Chinese-language sources indicates that ByteDance founder Zhang Yiming hasn't just relinquished his role as CEO, but has also given up all his shares in Douyin, after years of Party pressure. This recalls Jack Ma, who gave up his role at Alibaba before giving away his Ant Group shares.
10. **Two Key Risk Categories:** We assess six key threats, divided into two categories: data security concerns (privacy violations, data harvesting, espionage/surveillance) and political influence concerns (censorship, narrative control, political interference).
11. **Technical Evidence of Data Vulnerabilities:** Our preliminary technical analysis of the TikTok Android app identifies privacy and security risks stemming from sensitive user data vulnerable to Party-state requests for access.
12. **Intelligence Profiling:** There is significant risk the CCP could harness TikTok data to profile and target individuals around the world. Such activity could involve compromising material, device fingerprints, location-tracking or other data.
13. **Mass Narrative Control Power:** The biggest risks involve TikTok's unprecedented potential for shaping narratives and curating overseas political landscapes. ByteDance has a demonstrated capacity to develop automated content filters, calibrate content distribution, and adopt norms in service of Party propaganda.
14. **Xi's External Propaganda Intent:** TikTok's capabilities appear to neatly match Xi's edicts to build new media "external discourse mechanisms" and target differentiated foreign audiences with "precise communication methods".
15. **Propaganda and Election Misinformation:** Our original content analysis reveals higher proportions of pro-CCP content and political misinformation on TikTok than on some other platforms. There is evidence that Beijing's Party-state is interested in using social media to produce targeted propaganda for purposes including political interference.
16. **Political Interference:** The CCP's leverage over TikTok gives it vast potential to sway elections and undermine the will of open societies to compete against China's authoritarian model globally. Beijing could use these platforms' data on overseas public opinion to generate highly effective targeted disinformation, aided by AI.
17. **The "Project Texas" Gambit:** We show how TikTok's plan for "Project Texas" (the Oracle deal) fails to address the fundamental risks to data security posed by CCP infiltration of a parent company and China's national intelligence laws.
18. **The Meaning of Beijing's Overseas Veto:** The CCP signaled in 2020 that it would counter a U.S. attempt to force ByteDance to divest TikTok. Clearly Beijing wants to retain control over the app. So long as it does, TikTok poses risks to democracies.

1. Why TikTok Matters

This section sets out national security risks posed by TikTok to democratic nations, and the essential context for understanding those risks.

- a. **TikTok Is a News Platform:** TikTok’s claim that it is only an entertainment platform is untenable. Last year a third of adult users got their news from it, while one in six U.S. teens say they are on the platform “almost constantly”.
- b. **Opacity and Obfuscation:** TikTok is one of the world’s most important media platforms and yet remarkably little is known about it – thanks in part to parent company ByteDance’s efforts to airbrush basic information about the company’s founder, corporate structure, partners, and activities.
- c. **Narrative Control:** Concerns about Beijing using TikTok for data harvesting and surveillance are well-founded. In our view, however, bigger risks involve TikTok’s unique potential for shaping global narratives and curating a CCP-friendly political landscape.

1.1. The Rise of TikTok, the App that “Gazes Back”

It is news to no one that TikTok – as an app and a business – has exploded since its inception. The scale of the platform’s deep insights into users’ tastes and preferences has revolutionised the way societies (and young people in particular) access information. It has ushered in what could be described as the latest epochal shift in broadcast media. As TikTok proclaimed, “*relevance is the new reach*”.¹⁵

With this shift, social media is moving away from reliance on the user to actively decide what kind of content they want to see (by curating their own feed), toward personalised content recommendations through algorithms that respond to cues such as watch time, with only passive participation required of the user.

It is these algorithms, and the artificial intelligence that powers them, that led one tech blogger in 2020 to write, “*When you gaze into TikTok, TikTok gazes into you.*”¹⁶ Paired with the short video format that delivers both instant gratification for the viewer and exponential volumes of data about user interests to the app, the algorithm can deliver content recommendations with uncanny accuracy. It is no wonder then that other companies have sought to learn from and compete with the TikTok model (see Meta’s Instagram Reels and Alphabet’s YouTube Shorts).

TikTok By The Numbers

The most downloaded app in history



1 in 3
Americans uses TikTok



A staggering 20.8% of the world's 4.8 billion internet users use TikTok.



1 billion

monthly active users globally in September 2021

Addictive algorithms make for constant consumption



40 times

TikTok users open the app on average around 40 times per day. (By comparison, the average Twitter user opens the Twitter app roughly 15 times each day.)



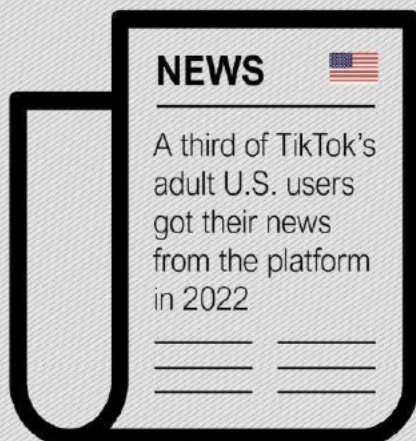
2 in 3

American teenagers aged 13 to 17 have used TikTok before. One in six say that they use the app "almost constantly".

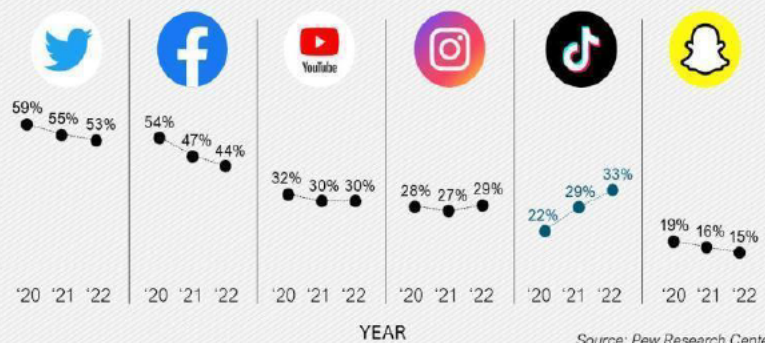
Last year, TikTok was second only to YouTube as the most used social media platform by American teenagers.



Young people use TikTok as a source of news



Social media sites by portion of users who regularly get news there



Comprehensive statistics for the Australian user base are hard to come by, but there is ample data on TikTok consumers both globally and in the U.S.

*"The latest [global] data suggest that TikTok has been adding an average of more than 650,000 new users every day over the past 3 months, which equates to almost **8 new users every second**."*¹⁸

TikTok has become the crucial medium for political actors to reach younger demographics, especially Gen Z. "There's no way that we can be a youth organisation trying to reach young people and not be on TikTok," said Cristina Tzintzún Ramirez, president of U.S. progressive political action committee NextGen America.¹⁹

Politicians, of course, face the same dilemma. U.S. Secretary of Commerce Gina Raimondo recently told Bloomberg of her own concerns:

*Passing a law to ban a single company [TikTok] is not the way to deal with this issue. **The politician in me thinks you're gonna literally lose every voter under 35, forever**. However much I hate TikTok – and I do, because I see the addiction in the bad s*** that it serves kids – you know, this is America.*²⁰

TikTok has revolutionised the attention economy. And yet TikTok describes itself only as an "entertainment platform" on a mission to "inspire creativity and bring joy".²¹ According to TikTok's VP and Head of Public Policy for the Americas, Michael Beckerman:

*We are not the go-to place for politics. . . . The primary thing that people are coming and using TikTok for is entertainment and joyful and fun content.*²²

But the claim that TikTok is about entertainment rather than politics is untenable in light of the facts. (See figure on previous page.) Increasing volumes of social media users are getting their news from the platform and using it as a search engine to navigate key issues. The numbers tell a story of an unimaginably successful algorithm, and an app that has gained unmatched sway over society and politics seemingly overnight.

To understand how this was possible, we must delve into the creation stories of TikTok, its China analogue and precursor, Douyin, and their USD 400 billion parent company, ByteDance, which is the most valuable startup in the world.²³ Understanding ByteDance, Douyin and TikTok requires understanding China's ruling Communist Party and its guiding ideology, organisational structures, and legal and extra-legal mechanisms for influencing, coercing and controlling China's nominally privately-owned technology companies.

1.2. Opacity and Obfuscation

Answering basic questions about how the app works, how it is controlled, and who controls it is not straightforward. ByteDance's company website contains just the bare bones, shorn of details about the company's founder, corporate structure, partners, and sizeable investment into AI.

Media reporting has emphasised the opacity of TikTok's algorithm in producing virality, even to some of TikTok's own employees. Chris Stokel-Walker, author of *TikTok Boom*, said:

*One person at TikTok in charge of trying to track what goes viral and why told me in my book that 'There's no recipe for it, there's no magic formula.' The employee even admitted that 'It's a question I don't think even the algo team have the answer to. It's just so sophisticated.'*²⁴

Leaked internal advice from TikTok on public relations talking points encapsulates the company's evasive self-presentation. The document instructs TikTok spokespersons to *"downplay the parent company ByteDance, downplay the China association, downplay AI"*.²⁵ The memo directs spokespersons to say, *"There's a lot of misinformation about TikTok right now. The reality is that the TikTok app isn't even available in China."*²⁶

This opacity and obfuscation is now compounded by what appears to be a concerted campaign to airbrush what little material was available online. Excavating four years of archived snapshots of ByteDance's company website reveals layers of disappearing information.²⁷ Pages that once recounted Communist Party activities inside ByteDance have been deleted from the website of Beijing Internet Association (an industry association charged with guiding the Party-building work of internet companies in Beijing).²⁸

1.3. Demystifying the TikTok-Douyin-ByteDance Relationship

While TikTok is a household name across much of the world, its China analogue, Douyin, is not. Our research points to a functional fusion of TikTok and Douyin under the control of a single corporate entity – ByteDance, a conglomerate registered in the Cayman Islands but headquartered in Beijing until November 2020.

Douyin's tagline exhorts users to *"record a good life"*. Its earlier establishment in China offers a roadmap for TikTok's global development (see [Section 3](#)). In [Sections 4](#) and [5](#), we set out how TikTok and Douyin share personnel and technological resources and have parallel management structures, all of which link back to ByteDance. TikTok admits in its latest Privacy Policy for Australia: *"We also share [user] information with [...] other companies in the same [corporate] group as TikTok."*²⁹

In [Sections 5 and 6](#), we show how the CCP exerts control over ByteDance (and TikTok) through a 'golden share' arrangement, export restrictions and cybersecurity review mechanisms. These sections outline key collaborations between ByteDance and Party-state propaganda and security organs, and the presence of Party members in key executive positions at ByteDance. We examine sources that show ByteDance striving to serve Party interests through censorship, public opinion-shaping and surveillance.

1.4. The Propaganda-Security Nexus

It is well-known that the Party's security apparatus absorbs and repurposes technology and data for surveillance, social control and repression. The logic of Beijing's interlocking data security laws applied to ubiquitous surveillance means that all customer data held by China-controlled companies will be accessible to the Party's security services.

Clearly the potential for Beijing to exploit TikTok for global surveillance is vast. In our view, however, the most significant risk posed by TikTok is its unprecedented potential for censoring and proactively shaping public opinion overseas – in the United States, Australia, and other countries around the world.

1.5. How the Chinese Communist Party Could Wield TikTok

Intelligence agencies in jurisdictions including the U.S.,³⁰ U.K.,³¹ Australia,³² European Union,³³ Canada,³⁴ New Zealand,³⁵ the Netherlands,³⁶ Estonia,³⁷ and the Czech Republic³⁸ have signaled clear concerns regarding China's data cultivation, influence, and political interference activities. The U.S. National Intelligence Council, a formal panel of intelligence officers and independent scholars, assesses that:

*Beijing will be able to exploit Chinese companies' expansion of telecommunications infrastructures and digital services, these enterprises' growing presence in the daily lives of populations worldwide, and Beijing's rising and global economic and political influence. Beijing has demonstrated its willingness to enlist the aid of Chinese commercial enterprises to help surveil and censor regime enemies abroad.*³⁹

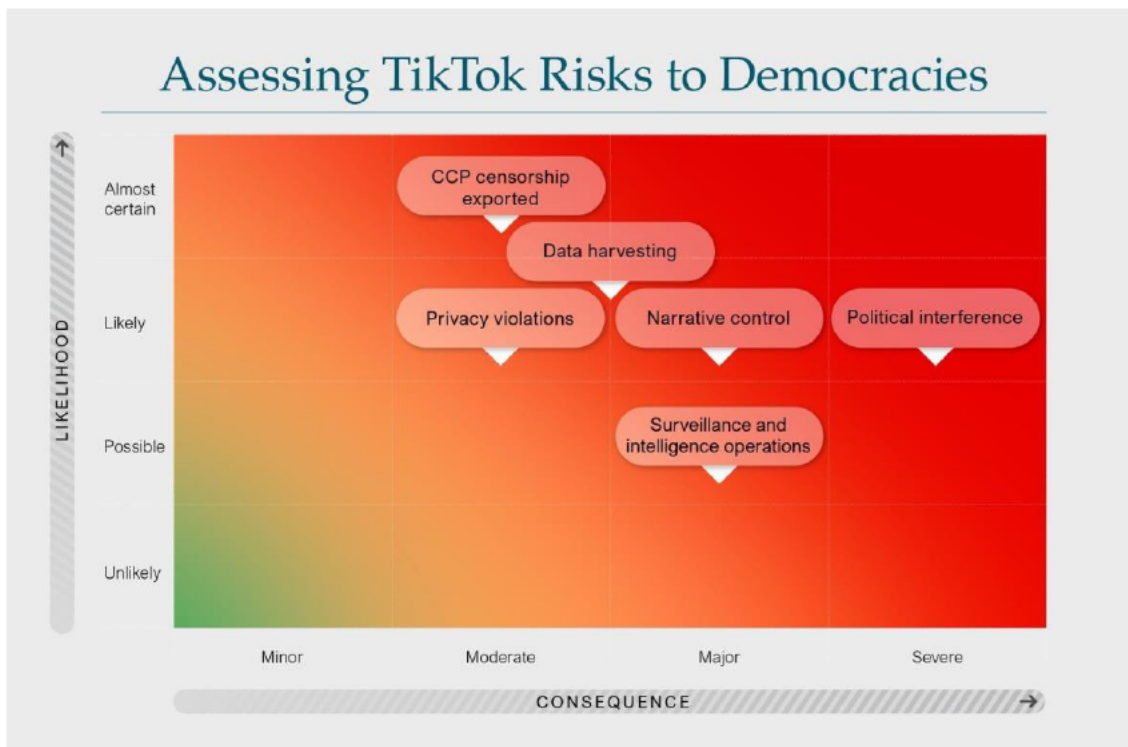
In [Section 2](#), we set out evidence of Beijing's capabilities and intent relating to influence, interference and intelligence activities. This includes not only data harvesting and surveillance activities, but also the deployment of targeted propaganda designed to shape global discourses and influence overseas policymaking on issues related to China, with short video platforms identified as a key arena for exploitation.

In [Sections 6 and 7](#), we show how the Party's global propaganda and surveillance activities inform our risk assessment of TikTok.

1.6. Taxonomy of TikTok Risks

We have identified six key risks posed by the app, divided into two categories:

Data security concerns	Political influence concerns
Privacy violations	CCP censorship exported
Data harvesting	Narrative control
Surveillance and intelligence operations	Political interference



Taxonomy of TikTok Risks to Democracies

- Privacy Violations:** TikTok could be used for unauthorised access to or theft of sensitive user data. Access could be gained through security breaches, including via backdoors or China-based staff's retrieval of data, whether of their own volition, at the behest of intelligence agencies or simply in compliance with Beijing's data laws.⁴⁰ ByteDance admitted in December that some China-based staff had surveilled U.S. journalists and TikTok employees through the app's geolocation function, intending to discover who was speaking with the journalists from inside the company.⁴¹

- **Data Harvesting:** Beijing could harness large datasets like those offered by TikTok to support the Party-state in its competition with liberal democracies and its development of critical capabilities in big data, AI, supercomputing, and predictive modelling.⁴² These technologies have important military and intelligence applications, including in profiling, analysing and targeting individuals or population segments.
- **Surveillance and Intelligence Operations:** Data collected by TikTok could be used to target individuals (or population segments) for intelligence purposes such as surveillance, recruitment, manipulation, and repression.⁴³ Targets could include key officeholders or critics of Beijing. Activity could involve the collection of compromising material about individuals, device fingerprints, or location data.⁴⁴
- **CCP Censorship Exported:** Elements of the CCP’s censorship preferences could be implemented at TikTok, infringing on individuals’ rights to expression and impacting the quality of free and open debate in democracies globally.
- **Narrative Control:** TikTok could be used to disrupt social cohesion and democratic processes through censorship, misinformation or propaganda. The TikTok-curated information environment – with its fast-growing significance for social and political discourse – could be manipulated through the selective promotion or demotion of certain topics, narratives or creators, including political figures.⁴⁵ Measures could range from blunt “content moderation” to hard-to-detect manipulation of recommendation and search algorithms (or ad hoc interventions by certain staff). It remains to be seen whether and how the rollout of TikTok’s “state-affiliated media” policy will ameliorate these effects.⁴⁶
- **Political Interference:** Information operations may be conducted in a more deft and disruptive manner. For instance, big data analysis of public opinion based on platform activity could be used to generate highly effective propaganda, using AI to automate the production and dissemination of targeted materials designed for specific purposes.⁴⁷ Moreover, bad actors could use the app for large-scale, coordinated campaigns for harassment or disinformation, in particular those that employ inauthentic, seemingly grass-roots accounts – a tactic known as “astroturfing”.⁴⁸ The Party could apply “agitprop” mobilisation campaigns to shape and manipulate geopolitical discussions, political debates and elections.

2. TikTok and Xi's External Propaganda Plan

This section details the deep drivers of the Party's efforts to control the media environment and the online "propaganda and ideology battlefield".

- a. **Propaganda Goes Digital:** Xi Jinping has intensified the Party's long-running efforts to adapt the Party's propaganda and ideological systems to the digital age, deploying media companies as instruments of an "external discourse mechanism" to shape global information and ideas.
- b. **Military-Surveillance Complex:** China's intelligence agencies are bringing data storage and processing capabilities under their control. The People's Liberation Army (PLA) – the armed wing of the Communist Party – studies the use of AI/ML to manage public opinion on social networks.
- c. **Political Interference:** TikTok – an app that now pervades the waking lives of many Australian and American teenagers – has latent potential to sway elections, corrode people's faith in democracy, and undermine the will of open societies to compete against China's authoritarian model globally.

Party writings and speeches by Xi Jinping stress the importance of "cultural security" for China's national unity and the survival of its socialist political system – which it defines as a single-party dictatorship.⁴⁹ Cultural security is an element of political security – Xi calls it a "guarantee" – and refers to ideological power (including propaganda, media, opinion, education, and law) and control over information networks.⁵⁰

The Party assumes that all external flows of information, thought, and values represent potential risk to China's socialist system, and that conflict with Western democracy requires submitting more of the world's data systems to Party norms of "internet governance" and "data security". Propaganda, ideological-political "thought work", and "international public opinion struggle" are the civilian tools of waging this conflict in peacetime.

Moreover, China's military and security apparatuses seek global advantage in key technologies to support the Party's ability to confront the West and wage 'grey zone warfare' (or 'political warfare'), including through information manipulation. The technologies given emphasis include those that enable mass surveillance and information operations.

We have observed the Party using social media tools to wage this "peacetime conflict". Based on our evaluation of the Party-state's access to and control over ByteDance and TikTok, we assess as high the risk that the Party will seek to leverage the company's innovative algorithms and access to key data to develop its own big data harvesting and analysis capabilities for targeted propaganda and political interference.

2.1. Leveraging New Media to Target Global Audiences

The Party has paid close attention to new media's influence on public opinion since the internet first started gaining traction in China in the mid-to-late 1990s. By September 2004, during the Fourth Plenary Session of the 16th Central Committee of the Communist Party of China, the Party passed its Decision on 'Enhancing the Party's Governance Capability', which formally designated the internet as a domain for Party control and influence:

*Attach great importance to the influence of new types of media channels, such as the internet, on public opinion. . . .Strengthen the construction of internet propaganda teams and form a strong online positive public opinion.*⁵¹

During his decade in power, Xi has intensified the Party's long-running efforts to refine its propaganda and ideological systems and adapt them to the digital age.⁵² He has frequently instructed the Party to utilise "new media" – a term that encompasses short video platforms – to "strengthen the promotion of the Chinese Communist Party" and "strive to create an image of China that is credible, lovable and respectable".⁵³

In November 2013, the Third Plenary Session of the 18th Central Committee of the Communist Party of China introduced its Decision on 'Some Major Issues Concerning Comprehensively Deepening Reform'.⁵⁴ It stipulated:

*We will straighten out the mechanism for both domestic and overseas propaganda, and support key media groups to develop both at home and abroad. We will foster external-facing cultural enterprises and support cultural enterprises to go abroad and expand markets there.*⁵⁵

In order to effectively carry out this international propaganda effort, Xi has called for the creation of "flagship" propaganda outlets for transmitting Party messages and enhancing "international discourse power".⁵⁶

In December 2013, at a Politburo Collective Study Session, Xi told cadres:

*We should meticulously build an external discourse mechanism, utilise the role of emerging media, enhance the creativity, appeal, and credibility of our external discourse, tell the China story well, spread Chinese voices, and explain Chinese characteristics effectively.*⁵⁷

Then, in 2016, at a Symposium on the Party's News and Public Opinion Work, Xi reiterated:

*We should strengthen the development of international communication capacity, enhance our international discourse power, focus on telling the China story well, and ... **strive to build flagship external propaganda media outlets with strong international influence.***⁵⁸

In December 2020, Xi convened a Politburo Collective Study Session to deliberate on plans to strengthen and enlarge China's national security system.⁵⁹ Yuan Peng, head of the China Institutes of Contemporary International Relations (CICIR), a Ministry of State Security think tank, also attended the session.⁶⁰ While the content of Yuan's lecture was not revealed, in a subsequent publication he argued that **the Party should leverage a 'post-truth' information environment in its struggle for ideological security:**

What is truth and what is a lie is already unimportant, what is important is who controls discourse power, this is nothing other than the twisted nature of the 'post-truth era'. In the face of this strange phenomenon without precedent in the past century, it is only by maintaining resolve, 'not fearing the floating clouds', and refusing impulsivity, that we will ultimately be able to emerge victorious from amidst this strategic game.⁶¹

(In February 2023, Hong Kong newspaper Ming Bao reported on Yuan Peng's emergence as vice minister of the Ministry of State Security, under what is apparently his real name, Yuan Yikun.⁶²)

In May 2021, at another Politburo Study Session, Xi referred specifically to his ambitions for promoting pro-China policymaking abroad through the deployment of targeted propaganda for overseas audiences:

*We should build an external discourse mechanism and improve the art of communication. **We should adopt precise communication methods that target different regions, different countries, and different groups of audiences, promote the globalised, regionalised, and differentiated expression of Chinese stories and Chinese voices, and enhance the affinity and effectiveness of international communication. We should [strive to] make friends, unite and win the majority, and constantly expand our circle of friends who know China and are China-friendly.***⁶³

Xi's language of making friends, winning the majority and expanding China's circle of friends is rooted in the Party's history of "united front" work.⁶⁴

In August 2021, the People's Daily published an article that elaborated on Xi's comments and identified short video platforms as a key arena for deploying propaganda to enhance

China's "international discourse power" overseas.⁶⁵ An excerpt from the article, which was republished by Xinhua, reads:

*As one of the windows of China's foreign exchanges, short video platforms also have a large audience abroad. **Various short video apps represented by TikTok** have emerged one after another, and many cultural short videos with rich content and well-made are loved by foreign internet users. ... In promoting the transformation and upgrading of China's international communication and building a strategic communication system with distinctive Chinese characteristics, **we should make good use of short video platforms that are open, inclusive, interactive and their advanced technological advantages, innovate communication methods, empower cultural communication, and allow short video platforms to become "megaphones" for "telling the China story well and spreading Chinese voices well."***⁶⁶

2.1.2. Propaganda and Power in Party Ideology

The sophistication, magnitude and force of Xi's efforts to dominate the "propaganda and ideology battlefield" are rooted in a classical tradition of Chinese statecraft in which *wu* (weapons, violence) and *wen* (words, culture) go hand-in-hand. This classical Chinese emphasis on discursive power has been strengthened, institutionalised and re-purposed by Marxism-Leninism, **an ideology that posits "systematic, all-around propaganda and agitation" as the "chief and permanent task"**.⁶⁷

The Party's obsession with controlling communication platforms stems from a belief that what people talk about and how they choose their words shape the way they think and ultimately act. Authors are seen as "weapons"⁶⁸ and words described as "bullets"⁶⁹ that can shape perceptions, define choices, subvert governments and sharpen battle lines between enemies and friends.⁷⁰

Once Xi completed his leadership accession in 2013, he directed his General Office to issue a communique on "The Current State of the Ideological Sphere". This April 2013 directive, known as Document No. 9, directs cadres to prioritise an "intense struggle" against seven key vectors of ideological threat.⁷¹ **The first five vectors of ideological threat that must be "struggled" against are foundational institutions for liberal democracies and the rules-based system which gave rise to the global internet.**

**“Communique on the Current State of the Ideological Sphere”
(Internal CCP Memo known as “Document No.9”, published 2013)**

The seven ideological threat vectors that must be “struggled against” are rule of law, individual rights, civil society, market (“neoliberal”) economics, independent media, “historical nihilism” and “questioning ‘reform and opening’”.

Threat Vector No.3: Promoting civil society in an attempt to dismantle the ruling party’s social foundation . . . The idea of civil society has been adopted by Western anti-China forces and used as a political tool.

Threat Vector No.4: Promoting the West’s idea of journalism, challenging China’s principle that the media and publishing system should be subject to Party discipline. The ultimate goal of advocating the West’s view of the media is to hawk the principle of abstract and absolute freedom of press, oppose the Party’s leadership in the media, and gouge an opening through which to infiltrate our ideology.

2.1.3. “Struggling” against Western “Infiltration”

Xi’s agenda of “struggling” against the institutional foundations of open societies was converted into an action plan at the Party’s National Propaganda Work Conference in August 2013.⁷² According to a leaked outline of Xi’s speech to the conference, Xi remarked that the West was carrying out “cultural infiltration” against China and that the “*struggle and contest we face in the ideological domain is long-term*”. He identified the internet as the “**main battlefield**”, calling for a “strong internet army” to resist the “Western anti-China forces” who were using the internet to subvert China and destroy it from within.⁷³

Since then, China’s quasi-commercial media has been comprehensively “disciplined”,⁷⁴ foreign news platforms have been locked out, and Chinese social media platforms that have taken the place of foreign platforms are grafted into the state propaganda system.⁷⁵ They are required to host “cybersecurity police stations” inside their organisations.⁷⁶

Outside China, propaganda is reinforced by the United Front Work Department, the International Liaison Department, diplomatic missions, intelligence agencies and even “triad” organised crime networks.⁷⁷ Together they provide inducements and threats that motivate people to talk, think and act in ways that serve the interests of the Party. It is a system of political-psychological conditioning, on a global scale.⁷⁸

The internet – which once threatened the Party’s grip on power – has become its most important tool of social and political control. In 2022, Reporters Without Borders ranked

China 175 out of 180 countries in its press freedom index.⁷⁹ All of this is important because China's media and internet controls do not stop at the physical border.

Ostensibly private companies play a key role in this vision. As media technology has continued to evolve, Xi has articulated plans to develop more refined and targeted methods of harnessing media for international propaganda in order to influence audiences to adopt more pro-China, pro-Party stances.⁸⁰ Viewed through Xi's paradigm of "international discourse power", new media companies – with their vast reach, data-harvesting abilities, and optimisation for targeting discrete segments of foreign societies – represent among the most important weapons in the Party's media arsenal.

2.2. Codifying a Propaganda-Security Nexus

In parallel with externally facing media and national security policy, **Xi and his leadership team have engineered a new legal regime mandating that individuals and corporations support the ideological security interests of the Party-state.** The Party's regulatory regime has made it the legal responsibility of companies to advance socialist thought, tighten control in cyberspace, and propagate the right information and values.⁸¹

The rapid development of the new media sector's responsibilities now dovetails with more specific policy prescriptions for the management of external propaganda, the collection of user data, and security-focused innovation.

2.2.1. Beijing Dreams of Data Riches

In 2013, in the early months of his reign, Xi began to speak of data in the way Mao had spoken of domestic oil production in the 1950s, when seeking to break reliance on the Soviet Union. Xi told the state-run Chinese Academy of Sciences:

*The vast ocean of data, just like the oil resources during industrialisation, contains immense productive power and opportunities. **Whoever controls big data technologies will control the resources for development and have the upper hand.***⁸²

Beginning in 2014, Xi Jinping created new institutions (such as the Central National Security Commission and the Cyber Administration of China) to manage internal and external risk across multiple overlapping domains.

The Party's 13th Five-Year Plan, published in 2016, and its "big data industry development" sub-plan, outlined national goals of applying big data across domains including: government supervision and efficiency; social control; data integration and centralisation; first-mover advantage in big data and emerging industries; cross-sector transfer, including Military-Civil Fusion; and cyber defence and risk prevention.⁸³

2.2.2. Intelligence Agencies Building Big Data Capabilities

These priorities are the direct outgrowth of Xi's leadership and the Party's decision to harness data for strategic purposes. They are also the inspiration for recent and ongoing attempts by the Ministry of State Security (China's lead external intelligence agency) and the Ministry of Public Security (the lead internal security agency) to bring the entirety of China's data storage and processing capabilities under the control of the security services – a move that heralds the agencies' intrusion into the operations of both domestic companies and foreign multinationals.

China's laws mandate that individuals and entities cooperate with intelligence agencies:

- **The National Security Law (2015)** requires citizens and organisations to report acts harming national security and to support national security bodies, public security bodies, and military bodies in their work.⁸⁴
- **The National Intelligence Law (2017)** compels PRC entities and individuals to support China's intelligence services by secretly turning over data collected in China or overseas.⁸⁵
- **The National Cybersecurity Law (2017)** compels companies and individuals to make networks, data, and communications available to the police and security services.⁸⁶
- **The Data Security Law (2021)** asserts state powers to access and control private data, including China's "national" data processed overseas.⁸⁷
- **The Personal Information Protection Law (2021)** requires companies handling Chinese citizens' personal data to minimise collection, disclose uses of personal data, and obtain prior consent in certain cases (involving the use of biometric data, for example), while forbidding the unapproved transfer and storage of personal information overseas.⁸⁸

2.2.3. "Seizing the Strategic Advantage"

The Party-state's ability to target individuals for intelligence operations and develop world-leading surveillance technologies has been fuelled by its access to huge amounts of data and expertise in deciphering it efficiently. The data is collected both legitimately and through breaches and spying operations, on both foreign and domestic targets.

Tech firms such as Baidu, Alibaba and Tencent are reportedly instrumental in assisting China's spy agencies to process "pilfered and otherwise obtained data".⁸⁹ U.S. National Counterintelligence and Security Center ex-chief William Evanina has said that this data:

. . .gives [China] vast opportunities to target people in foreign governments, private industries, and other sectors around the world – in order to collect additional information they want, such as research, technology, trade secrets, or classified information.⁹⁰

Beijing has recognised data harvesting as a critical capability in the Party-state’s race with the West to seize the “strategic commanding heights” of emerging technologies.⁹¹ The evidence points strongly to Beijing’s interest in leveraging private sector data – including foreign data and that of firms like ByteDance – to grow its stores and become the world’s most data-rich power. The U.S. National Intelligence Council assessed in April 2020:

*Beijing's commercial access to personal data of other countries' citizens, along with AI-driven analytics, will enable it to **automate the identification of individuals and groups beyond China's borders to target with propaganda or censorship**. Such access and analytics also will enable Beijing to tailor its use of a range of online and offline carrots and sticks to its targets outside China – potentially on a large scale.⁹²*

2.2.4. Social Media and Information Warfare

Xi’s China has gained a reputation for leveraging technology for influence and intelligence work, whether through AI for online censorship and “smart city”-style surveillance or through mass hacks of foreign data. What is less immediately obvious is how the Party may be thinking about leveraging AI to shape narratives online and carry out social media-based psychological operations and political interference far from China’s shores.

The emergence of China’s contemporary political warfare strategy begins with the People’s Liberation Army Political Work Regulations in 2003, which describe ‘public opinion warfare’, ‘psychological warfare’, and ‘legal warfare’ as elements of national defence and military combat effectiveness.⁹³ According to the most recent revision of the Regulations, issued in 2010, the purpose of peacetime political warfare (‘liaison work’) is to:

*Carry out the work of disintegrating enemy militaries and liaising with friendly militaries. Launch work related to Taiwan. Investigate and research conditions [related to] foreign militaries and ethnic separatist forces. **Launch psychological warfare work.**⁹⁴*

More recent sources confirm the PLA is reinvigorating its practice of political warfare. The *Science of Military Strategy*, a primary PLA doctrinal publication, states that the boundaries between peacetime and wartime have been permanently blurred, increasing the necessity of deeper military-civilian integration.⁹⁵ The *Strategy* describes **media, information,**

psychological deterrence and propaganda as elements of military activity, particularly in the early stages of a confrontation, such as that over the sovereignty of Taiwan.⁹⁶

Indeed, political warfare was one of the focuses of the significant military reforms undertaken during Xi's leadership. In his first term (2012-2017), Xi created a 'Strategic Support Force', which incorporated five core functions: intelligence, technological reconnaissance, electronic countermeasures, network attack and defence ('information warfare'), and psychological warfare functions.⁹⁷ **The PLA General Political Department's 311 Base, a specialised unit for psychological warfare operations, was placed under the Strategic Support Force, a move that appears designed to streamline the integration of cyber and psychological warfare.**⁹⁸

The PLA has spoken more explicitly about the opportunities posed by social media in recent years. A 2019 paper in a Chinese military journal, *National Defence Technology*, argues that AI can be leveraged to achieve "intelligentised online public opinion guidance".⁹⁹ Elsa Kania, an expert on the Chinese military's AI capabilities, predicts that:

*The PLA will likely leverage big data analytics, machine learning, and automation to support information warfare, including cyber warfare and electronic warfare. Potentially, these techniques will also enable precision psychological warfare that leverages big data to profile targets and customise attacks to shape individuals' emotions and behaviour.*¹⁰⁰

With this in mind, the concern is not just that an app with TikTok's data harvesting and targeted recommendation capabilities could be used as a platform for disseminating propaganda, disinformation, and other messages designed to influence democratic societies. Rather, it is that TikTok has the potential to sway elections, corrode people's faith in democracy, and undermine the will of open societies to compete against China's authoritarian model globally.

3. The ByteDance Origin Story

This section collates fragments of publicly available information to trace the source of ByteDance’s most important asset: political reliability.

- a. **A Founder’s Lesson in Red Lines:** A near-existential encounter with the propaganda system over the Xinjiang riots of 2009 taught Zhang Yiming to pre-emptively comply with Beijing’s censorship in order to survive.
- b. **Patronage Ties:** Frequently overlooked in ByteDance’s success is the founder’s relationships with Silicon Valley venture capitalist Neil Shen and (now-fallen) CCP internet czar Lu Wei.
- c. **Made By... Musical.ly:** Before ByteDance acquired its biggest competitor in November 2017, Musical.ly co-founder Louis Yang said that Douyin was almost a pixel-level replica of Musical.ly.

3.1. Invisible Red Lines

The official ByteDance origin story begins in 2012, when the company launched in an apartment near the Zhongguancun tech hub, China’s version of Silicon Valley. Zhang Yiming, following stints at less-successful startups and a short turn at Microsoft, had won investor backing for his idea to commercialise big-data and machine-learning in response to the tectonic shifts brought on by the proliferation of smartphones.¹⁰¹ The founding team included Zhang’s former colleagues from travel site Kuxun and real estate platform 99Fang.com.¹⁰²

Arguably, however, Zhang’s formative moment was a few years earlier. He had co-founded Fanfou, a Twitter clone, in 2008.¹⁰³ On 7 July 2009, Beijing destroyed Fanfou as it sought to control coverage of anti-government riots and a deadly police crackdown in Xinjiang.¹⁰⁴ Just after 10pm that night, Zhang’s business partner (future Meituan founder) Wang Xing posted: *“Harmonised by Fanfou, or Fanfou is harmonised.’ This is an uncomfortable choice, but one that has to be made.”*¹⁰⁵

By 11pm, Fanfou had become inaccessible and stayed that way for more than 500 days.¹⁰⁶

This was Zhang Yiming’s first collision with the invisible but existential red lines of the Propaganda Department. The lesson he learned – arguably just as important as his insights into artificial technology, big data and mobile apps – was that, to survive, social media providers needed to pre-emptively comply with the invisible red lines of the propaganda system. He learned that what might seem innocuous in the eyes of users could be viewed as subversive in Beijing. He would need to learn this lesson again with ByteDance.

Timeline of Zhang Yiming's Biography

- **1983** – Born in Longyan, Fujian province.
- **2001** – Began undergraduate studies in Nankai University, Tianjin.¹⁰⁷
- **2005** – Graduated with a software engineering degree and started a collaborative software company with two schoolmates. The business failed within six months due to flawed market positioning.¹⁰⁸
- **2006** – Joined online travel search engine Kuxun as the first engineer and the fifth employee. Kuxun asked users to input their travel plans and returned ticket options in real-time. Zhang's innovation was to code a program that repeated the same search at regular intervals and, when a ticket became available, send the user an SMS alert.¹⁰⁹
- **2008** – Left to work briefly for Microsoft Beijing. PRC tech media reported that Zhang wanted to learn how large organisations were managed but left because he found the work boring.¹¹⁰
- **2008** – Partnered with Wang Xing to start Twitter clone Fanfou, which was shut down for more than 500 days following protests in Xinjiang.¹¹¹ This was Zhang's first collision with the invisible but existential red lines of the Party.
- **2009** – Became CEO of online real estate portal, 99Fang.com, when Susquehanna International Group's China-based partner Joan Wang (Wang Qiong) approached him to take over Kuxun's side business in real estate search.¹¹² Joan Wang later became ByteDance's angel investor.¹¹³
- **2012** – Left 99Fang.com to start ByteDance.¹¹⁴



ByteDance founder Zhang Yiming, who stepped down as chairman in 2021.¹¹⁵

3.2. How ByteDance Became an “App Factory”

ByteDance soon developed a reputation as an “app factory”. Until November 2021, the company was structured around a large “central platform” that facilitated **resource-sharing** of the technology stack, the recommendation algorithm, and the user database **across the company’s different apps**.¹¹⁶ The first ByteDance app to take off was Today’s Headlines (in Chinese, *Jinri Toutiao*, or simply *Toutiao*), a news aggregator that used big data to drive its personalised recommendation engine. **The AI that powered this engine was the precursor to TikTok’s “For You” algorithm**.¹¹⁷



*Liang Rubo (left, circled) and Zhang Yiming (right) with ByteDance colleagues in 2013.*¹¹⁸

The ByteDance Crew



Liang Rubo and Zhang Yiming shared a room at Nankai University. They co-founded 99Fang.com and later also ByteDance.¹¹⁹ Liang became ByteDance CEO and Chairperson in 2021.



Zhang Lidong joined ByteDance as Senior VP and Partner in 2013, contributing to early successes with Today’s Headlines. He was previously VP at Beijing Times and Director of its advertising centre.¹²⁰ Zhang Lidong is now Chairperson of Douyin Group.



Kelly Zhang (Zhang Nan) joined ByteDance in 2013 to oversee user-generated content. She previously helped found two tech companies and started a photo-sharing app, Picture Bar, which ByteDance later acquired. Kelly Zhang is now CEO of Douyin Group.¹²¹



ByteDance was struggling to lure investors until the company was introduced in 2013 to Digital Sky Technologies (DST). When then-DST partner **Shouzi Chew** heard Zhang Yiming’s pitch, he signed off on USD 10 million in Series B funding for ByteDance.¹²² Shouzi Chew is now CEO at TikTok.

3.3. From Musical.ly to TikTok

For all of ByteDance's ingenuity in building consumer apps, Douyin and TikTok's success hinged in part on a rival app called Musical.ly.¹²³ ByteDance launched TikTok in May 2017 as an overseas analogue of Douyin, before acquiring TikTok's North America and Europe competitor Musical.ly in November 2017.

TikTok and ByteDance said in a 2020 petition to U.S. regulators that the recommendation algorithm came from TikTok, not Musical.ly.¹²⁴ Prior to the acquisition, however, Musical.ly co-founder Louis Yang reportedly complained that Douyin had copied Musical.ly. Yang told Chinese media that whether in market positioning, functions, or user interface, Douyin was almost a pixel-level replica of Musical.ly.¹²⁵

TikTok's Origins in Musical.ly

- **2014** – Alex Zhu and Louis Yang, former directors of a Shanghai platform for the insurance industry, released the first version of Musical.ly.¹²⁶
- **2016** – The Musical.ly app – launched in China, the U.S., Europe, and Japan – failed in China but grew popular among American teens through viral challenges and lip-sync videos.¹²⁷ Musical.ly attracted attention for its young user base. Its three most popular content creators in late 2016 were between the ages of 13 to 15, while the platform's audience was even younger.¹²⁸
- **Sep 2016** – At a conference, Zhang Yiming called short videos the next frontier of content innovation and emphasised the value of personalised recommendation algorithms for short videos. He also announced the allocation of RMB 1 billion to short video creators on Today's Headlines.¹²⁹ The same month, ByteDance launched Douyin as a clone of Musical.ly, according to early Douyin employees.¹³⁰
- **May 2017** – ByteDance launched TikTok overseas as an analogue of Douyin.¹³¹
- **Nov 2017** – Struggling to commercialise the platform and break into the China market, Musical.ly's growth plateaued.¹³² ByteDance acquired Musical.ly, its market share and user data, for around USD 800 million to 1 billion.¹³³
- **Aug 2018** – ByteDance merged TikTok and Musical.ly, making the new TikTok available in the United States for the first time.¹³⁴ In 2018 alone, ByteDance spent over USD 1 billion on advertising on major social media competitors such as YouTube, Instagram and Snapchat to attract new users to TikTok.¹³⁵

3.4. Party-Enabled Global Expansion

While media have cast ByteDance's expansion abroad as a tale of Zhang Yiming's daring and ambition, he also had evidently close relations with Beijing's internet regulator Lu Wei and leading venture capitalist Neil Shen (Shen Nanpeng). Both Lu and Shen served as gatekeepers for the expansion of tech companies, calibrating access to capital, social ties, and, crucially, Party support. Lu's ties to Zhang Yiming have become clearer in hindsight.

Zhang Yiming's Early Encounters with Party Gatekeepers Lu Wei and Neil Shen

- **Pre-Mar 2012** – Sequoia Capital China's Neil Shen rejected an offer from Zhang Yiming to invest in ByteDance first round financing. (In May 2021, when on the ByteDance board, Shen said he regretted that decision.¹³⁶)
- **Oct 2013** – Lu Wei and Zhang Yiming attended the 2nd China-South Korea Internet roundtable conference, one of their earliest public meetings.¹³⁷
- **Nov 2014** – Lu Wei, Neil Shen, and Zhang Yiming attended the first Wuzhen World Internet Conference.¹³⁸ Zhang Yiming spoke about machines liberating people in media.¹³⁹
- **Dec 2014** – Lu Wei attended the 7th U.S.-China Internet Industry Forum in Washington, D.C.¹⁴⁰ He then visited Tim Cook, Mark Zuckerberg, and Jeff Bezos at their company headquarters.¹⁴¹



Lu Wei with Jeff Bezos, Tim Cook, and Mark Zuckerberg at their respective offices in 2014.

- **Sep 2015** – Xi Jinping, Lu Wei, Neil Shen, Zhang Yiming, and the titans of the tech world attended the 8th U.S.-China Internet Industry Forum at Microsoft HQ near Seattle.¹⁴² Zhang did not make it to the group picture but joined a panel (with the CEOs of LinkedIn, Sina, and Expedia) about the differences between U.S. and Chinese internet users.¹⁴³ In an interview with Global Times after the forum, he proclaimed that the model of “copying to China” had given way to PRC enterprises expanding abroad.¹⁴⁴



Left to right, circled: Xi Jinping, Lu Wei, and Neil Shen at the 8th U.S.-China Internet Industry Forum. Zhang Yiming attended the forum but did not appear in the group photo.¹⁴⁵

- Dec 2015 – Xi Jinping, Lu Wei, Neil Shen, and Zhang Yiming attended the second Wuzhen World Internet Conference.¹⁴⁶



Left to right, circled: Zhang Yiming, Neil Shen, Xi Jinping, and Lu Wei at the 2015 Wuzhen World Internet Conference.¹⁴⁷

3.4.1. The Downfall of the Internet Czar

Lu Wei was dismissed from his position as director of the Cyberspace Administration of China in June 2016. He remained as Deputy Director of the Central Propaganda Department until November 2017, when the Communist Party's Central Commission for Discipline Inspection (CCDI) announced that he was suspected of serious violations of discipline.¹⁴⁸ In December 2018, the CCDI expelled Lu Wei from the Party for a laundry list of crimes, before the court sentenced him to 14 years in prison in March 2019.¹⁴⁹

In April 2018, the State Administration of Press, Publication, Radio, Film and Television (SAPPRFT) shut down Implied Jokes (one of ByteDance's community apps – Chinese name *Neihan Duanzi*) for hosting off-colour humour.¹⁵⁰ A U.S.-based watchdog group, China Digital Times, alleged that, on the night of SAPPRFT's decision, a chat screenshot circulated on WeChat, claiming there had been a transfer of benefits between Zhang Yiming and Lu Wei, and that this transfer of benefits had propelled ByteDance to the top tier of tech companies within four years.¹⁵¹

Two years later, in 2020, Chinese media outlet Caixin reported that Today's Headlines' suspected involvement in Lu Wei's downfall had generated concern on the market.¹⁵²

4. The Party-State Transforms ByteDance

This section examines the Party's campaign to subordinate ByteDance.

- a. **Opaque Party Control:** The past five years of ByteDance history is a story of increasing Party control, amid an industry-wide campaign of state regulation and Party pressure.
- b. **Zhang Yiming's Fall from Grace:** After ByteDance acquired Musical.ly in 2017, the Party intensified pressure to transform the company into a vehicle for Party interests, reaching its denouement with Zhang Yiming's high-profile public apology and resignation as CEO in 2021.
- c. **Zhang's Confession (2020):** *"I have deeply reflected on the roots of the problem that the company faces . . . a lack of education on socialist core values, and deviation from guiding public opinion."*

When TikTok Inc. and ByteDance Ltd. sued the Trump administration in August 2020 for banning the TikTok app, they stressed in court papers that the company is and has always been a wholly private entity:

*The TikTok application began as a product of private-sector entrepreneurship. . . .No foreign government, or person controlled by or acting on behalf of a foreign government, owns any significant interest or any other affirmative or negative rights or powers in ByteDance.*¹⁵³

This claim is misleading. A longer-term, **centrally directed shift toward imposing hidden but powerful structures of Communist Party control inside private enterprise** has developed at the expense of more transparent structures of corporate control. The power of the Party's internal systems of committees and cells used to wield control over companies is reinforced by external levers, both legal (through mechanisms of the state) and extra-legal (through the Party's own mechanisms, which sit outside the legal system).

4.1. Party Control in Private Companies

The divide between private and public companies in China has narrowed in recent years through the Party's aggressive expansion of Party organisations within private firms and its use of extra-legal measures to purge prominent leaders within those firms. The Party's multiple channels of control operate alongside legal channels in relation to strategic

decision-making and management of risks. **Party structures are not designed to be visible or accountable to international regulators, partners, investors, or consumers.**

Party members in Chinese private companies are required to establish Party cells in all organisations with three or more full Party members, according to the CCP Constitution.¹⁵⁴ The CCP Constitution stipulates that Party members are required to privilege Party interests and protect its secrets in all circumstances. All Party members take an oath to this effect.

In practice, this means the activities of Party cells, committees and individual members are visible and accountable only to those in the Party organisation. An understanding of the Party's operations inside ByteDance can only be gleaned by analysis of fragmentary open-source information, interpreted in the context of the Party's history, doctrine and practices.

4.2. State Media Scrutiny

ByteDance's transformation into a Party-state-controlled entity was systematic and protracted. The signs of misalignment with Party-state directives began in 2014, two years after the founding of the company. Zhang Yiming was vocal about his vision for Today's Headlines as a tech company, not a media company. This attracted criticism from competitors and some in the Party that Today's Headlines was a "news porter" stealing material from other producers and feeding users "vulgar content".¹⁵⁵

Company officials told critics the app was a search engine that recommended content from other outlets.¹⁵⁶ But in June 2014, China's National Copyright Administration (NCA) launched an investigation into the platform.¹⁵⁷ By September 2014, the NCA found Today's Headlines guilty of copyright infringement, though it acknowledged the platform had removed infringing media and developed cooperation agreements with content producers.¹⁵⁸

Internet czar Lu Wei's relationship with Zhang Yiming may have shielded the company for some time from the heat. The New York Times reported:

*[When] other internet companies complained that [Today's Headlines] was stealing their content, **one of Mr. Lu's top lieutenants told them that he was a fan and that they should stop complaining and work with the company.***¹⁵⁹

In a landmark 2016 interview with Caijing, Zhang Yiming insisted that ByteDance was not a media company and was therefore free from any obligation to "educate users":

*The difference between [Today's Headlines] and the media is this: The media must have values and it must educate people. . . . **We will bear corporate social***

*responsibility, but we do not want to educate users. . . I may have my opinions, but I don't want to impose my judgment on Today's Headlines.*¹⁶⁰

Zhang Yiming did not want ByteDance to operate like a newspaper with an editor-in-chief curating content. His approach was similar to the way Silicon Valley tech firms operate, where digital platforms are treated differently under U.S. law than traditional publishers, and are not liable for the content that human users or algorithms post and promote.

But his vision didn't sit well with Communist Party leadership.

4.2.1. Party Crackdown Prompts Greater Alignment

The scrutiny ByteDance faced over copyright infringement and its hosting of “vulgar content” was a prelude for a frontal encounter with the Party which left ByteDance a permanently changed company.

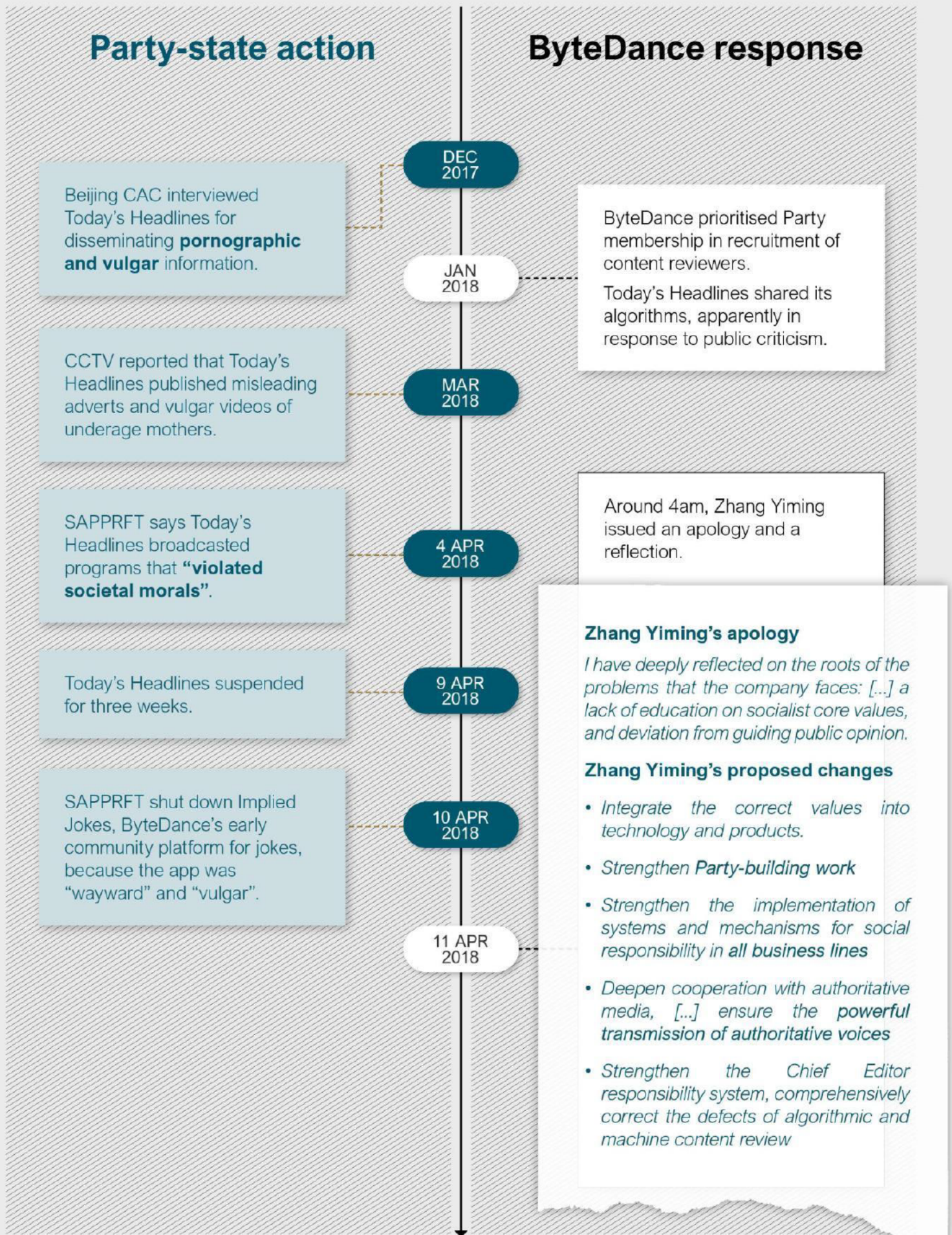
Beginning around 2017, a series of actions from the Party elicited reactions from the company to align itself more with the Party.¹⁶¹ In 2017 Party regulators scrutinised Today's Headlines for disseminating “vulgar” information. In 2018, the platform was criticised by state media and suspended for three weeks.¹⁶²

4.2.2. Pressure Leads to Zhang Yiming's Resignation

In 2021, like the founder-CEOs of Alibaba and Pinduoduo, Zhang relinquished his seat.¹⁶³

The graphics on the following two pages detail how, over time, the Party has forced ByteDance into greater political alignment.

The Transformation of ByteDance (Part 1)



The Transformation of ByteDance (Part 2)

Party-state action

ByteDance response

The National Anti-Pornography and Anti-Illegal Publications Office fined Douyin for its pornographic and vulgar content.

JAN
2021

SAMR fined ByteDance for failing to report a previous merger.

ByteDance and peers ordered to conduct a security review of deepfake technology.

MAR
2021

MAR
2021

Zhang Yiming shelved IPO plans after meeting cyberspace and securities regulators, according to Wall Street Journal.

Zhang Yiming began floating the idea of Liang Rubo taking over as CEO.

SAMR, the CAC, and the State Taxation Administration summoned ByteDance and its peers, warned them to heed Alibaba's example, and required public pledges to comply with anti-monopoly laws.

APR
2021

Financial regulators imposed tighter data and lending regulations on ByteDance and other internet companies.

MAY
2021

Zhang Yiming announced his resignation as ByteDance CEO, and appointed Liang Rubo as his successor.

Zhang Yiming's letter to the company

I've decided to resign as CEO and place aside the day-to-day responsibilities of management. As founder of the company, I will focus on important things for the long-term such as strategic vision, corporate culture, and social responsibility.

5. Tracing Communist Party Control Through ByteDance and TikTok

This section shows how, contrary to official talking points, ByteDance and TikTok are part of the same corporate group, with ByteDance executives directly controlling and shaping key TikTok functions.

- a. **Distinction without a Difference:** TikTok is a 100% owned subsidiary of ByteDance, bound by ownership ties, management structure, personnel overlap, and shared technological resources.
- b. **The CCP's Golden Share:** It is misleading to discuss corporate leadership without Party leadership. The Party-state's 1% 'golden share' gives legal form to the extra-legal access and influence which it already enjoyed.
- c. **ByteDance's 'Red Leaders':** We identify the leaders at ByteDance who integrate company management with Party organisation, particularly the propaganda and 'united front' systems.

5.1. Obfuscating Relations between TikTok and ByteDance, TikTok and Douyin

As TikTok continues to be scrutinised overseas for its links to the CCP – which it flatly denies – the company has also downplayed its ties to parent company ByteDance and emphasised the separateness of Douyin from TikTok:

- **Asserting TikTok's distinction from Douyin:** To magnify the apparent differences between TikTok and Douyin, ByteDance and TikTok spokespersons emphasise that TikTok is operated separately from Douyin and that TikTok is not available in mainland China.¹⁶⁶
- **Hiring 'global' leadership:** Since 2020, TikTok has had three CEOs from outside China. Kevin Mayer, a former Disney executive, was brought on as TikTok CEO in May 2020, reporting to Zhang Yiming, before resigning after just four months.¹⁶⁷ Vanessa Pappas then became interim CEO, until Shouzi Chew's appointment in April 2021.¹⁶⁸
- **TikTok sans headquarters:** TikTok engages in what has been called "Singapore-washing" to deflect the increased scrutiny facing companies from China.¹⁶⁹ Leaders have asserted that TikTok is not headquartered in China but is a "distributed" company with offices all around the world and a significant

presence in Singapore.¹⁷⁰ In addition to native Singaporean TikTok CEO Shouzi Chew, multiple ByteDance executives are now at least partially based there: founder and former CEO Zhang Yiming, CEO Liang Rubo, CFO Julie Gao, and TikTok’s global R&D head Zhu Wenjia.¹⁷¹

- **Changes to company name:** ByteDance renamed several subsidiaries from “ByteDance” to “Douyin” in May 2022.¹⁷² TikTok CEO Shouzi Chew explained in a 30 June 2022 letter to the U.S. Congress that *“multiple corporate entities share the ‘ByteDance’ name, [therefore] several China-based ByteDance entities were renamed earlier this year to keep the names of businesses and entities more consistent. Beijing ByteDance Technology Co. Ltd is now called Beijing Douyin Information Service Limited.”*¹⁷³ Observers have read this as another move to distance TikTok from its China operations.¹⁷⁴

5.2. TikTok Belongs to ByteDance

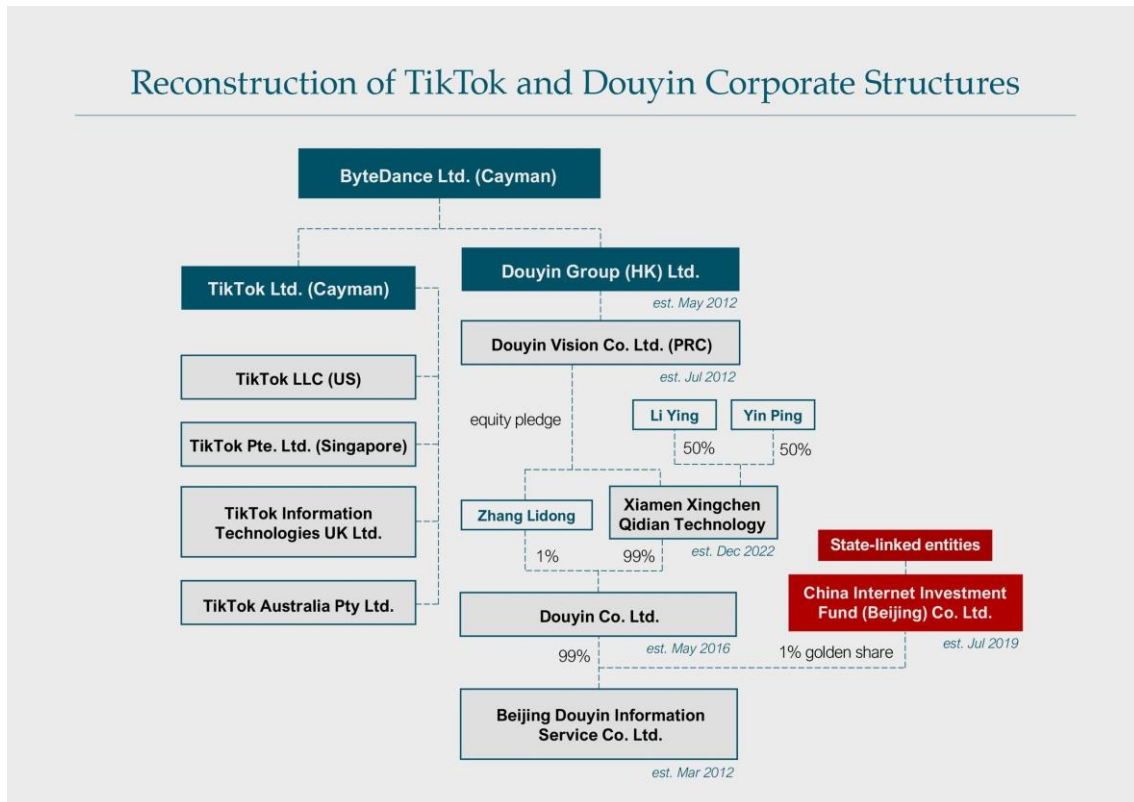
Legal documents and archived versions of the companies’ websites offer some insight into the corporate group’s opaque structure.

5.2.1. ByteDance is the Parent Company of TikTok and Douyin

According to a legal petition that TikTok Inc. and ByteDance Ltd. filed on 10 November 2020, ByteDance Ltd. (Cayman), owns TikTok Ltd. (Cayman), which wholly owns TikTok LLC, a Delaware limited liability company.¹⁷⁵ TikTok LLC holds “all of the outstanding shares of capital stock of TikTok Inc.”¹⁷⁶ An archived version of ByteDance’s website that shows a corporate structure last updated on 30 June 2020 confirms this chain of ownership.¹⁷⁷

Douyin and other PRC operations are likely held through a Hong Kong subsidiary, Douyin Group (Hong Kong) Ltd.¹⁷⁸ In January 2023, Hong Kong Economic Journal reported that Douyin Co. Ltd is an entity that ByteDance established in Mainland China under the variable interest entity (VIE) structure for business operations.¹⁷⁹

Reconstruction of TikTok and Douyin Corporate Structures



Sources: Evidence submitted to court by TikTok, ByteDance's website, PRC (including Hong Kong) online corporate databases¹⁸⁰

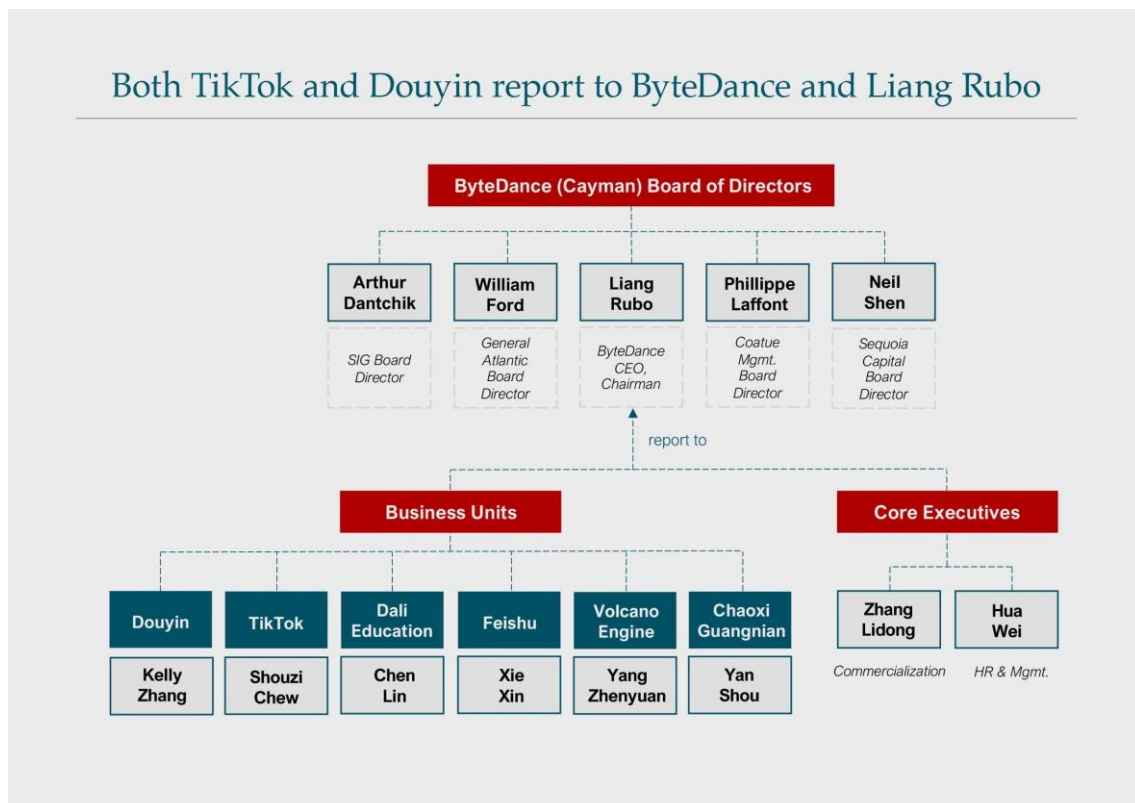
5.2.2. Headquartered in China

While the parent company that owns TikTok is incorporated in the Cayman Islands, ByteDance declared in November 2020 that its headquarters were in China. ByteDance referred to itself as a “Chinese-headquartered company” multiple times in its appeal against the U.S. official Divestment Order and CFIUS action:

*[TikTok Inc. and ByteDance Ltd.] did not submit the Musical.ly transaction to CFIUS for review in 2017 because **ByteDance was a Chinese-headquartered company and Musical.ly was also a Chinese-headquartered company.** . . . It is necessarily the case that whatever national security risks posed by the **Musical.ly app and its Chinese ownership** at the time of the acquisition were not enlarged or changed by the acquisition of the Musical.ly company by another **China-headquartered company, ByteDance.**¹⁸¹*

5.2.3. ByteDance Co-Founder Liang Rubo Leads Both TikTok and Douyin

Liang Rubo is CEO and Chairperson of the global ByteDance corporate group. ByteDance Ltd. (Cayman) currently lists Liang as one of its five directors on the Cayman Islands company registry.¹⁸² Both TikTok CEO Shouzi Chew and Douyin Group CEO Kelly Zhang report to Liang, at least nominally. On 2 November 2021, Liang announced the company’s organisational restructuring (in a letter published on Sina).¹⁸³ Liang stated that the individuals in charge of each of the six business units would report to him, including TikTok CEO Shouzi Chew and Douyin Group CEO Kelly Zhang.¹⁸⁴



Sources: Cayman Islands Registry, Shouzi Chew letter to U.S. senators, Liang Rubo letter to the company¹⁸⁵

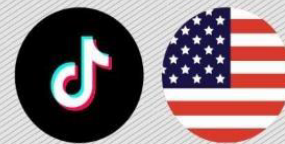
Liang Rubo is a visible link between the Cayman company’s board and ByteDance’s China operations. He occupies various management positions in the company’s China-based subsidiaries, despite claims that the Cayman board is divorced from China operations.¹⁸⁶

Overlapping Leadership At TikTok And Douyin

Douyin



TikTok



Head of Operations at Douyin in 2017.



Ren Lifeng

Oversaw the launch of TikTok in 2017.

Douyin CEO in China.



Kelly Zhang

Put in charge of TikTok in October 2018.

Managed Douyin in March 2018, reported to Douyin CEO Kelly Zhang Nan.



Alex Zhu

Musical.ly founder; made "interim" CEO in October 2018, reporting to Zhang Yiming.

Current Douyin Group CEO.



Zhang Lidong

Leads TikTok's commercialisation; 'dotted line' manager to TikTok President of Global Business Solutions Blake Chandlee.

Responsible for the success of the Douyin algorithm.



Zhu Wenjia

Leads PRC-, Singapore-, and US-based teams working on product R&D, data infrastructure, and innovation.

Douyin President of E-Commerce Business.



Bob Kang

Oversees TikTok's e-commerce expansion.

5.3. Zhang Yiming's Retreat from ByteDance Appears Complete

On 19 January 2023, according to PRC corporate databases, Zhang Yiming transferred his 99% stake in Douyin Co. Ltd. to Xiamen Xingchen Qidian Technology Co. Ltd. (which was established just a month before).¹⁸⁸ Soon after the transfer, Xiamen Xingchen Qidian Technology Co. Ltd. pledged its equity in Douyin Co. Ltd. to Douyin Vision Co. Ltd., a wholly foreign-owned entity of Douyin Group (Hong Kong) Ltd.¹⁸⁹ (This transfer of shares has reignited rumours of an impending IPO.¹⁹⁰)

5.4. TikTok's Management Structure

Our reconstruction of the company's management structure indicates that TikTok leadership report up to their department leads in ByteDance (in addition to or instead of reporting to local TikTok managers), sometimes through 'dotted' reporting lines.¹⁹¹ Through department-specific reporting lines, it appears that ByteDance may be able to exercise significant and granular control over TikTok operations.

A ByteDance insider reportedly told China tech outlet LatePost last year that TikTok is not developed enough to be a self-contained business unit.¹⁹² Therefore, per the source, TikTok draws on personnel, experience, and methods of ByteDance's Douyin app, software, and commercial model to achieve "technology accumulation and business breakthroughs".¹⁹³

Whistleblower accounts from former and current TikTok employees attest to the closeness of the two companies. These accounts portray the ByteDance office in Beijing making decisions both large and small about TikTok's content moderation, product development, engineering, commercialisation, strategy and human resources.¹⁹⁴ Forbes reported in September 2022 that senior TikTok executives had left the company because of the degree of ByteDance control.¹⁹⁵

5.5. Shared Resources

In our assessment, it is not possible for TikTok to operate independently of ByteDance in Beijing for reasons including the sharing of technical and human resources across the global corporate groups. This has profound implications not just for TikTok's current relations with ByteDance, but for any *future possibility* of isolating TikTok operations – and foreign users' personal data – from ByteDance.

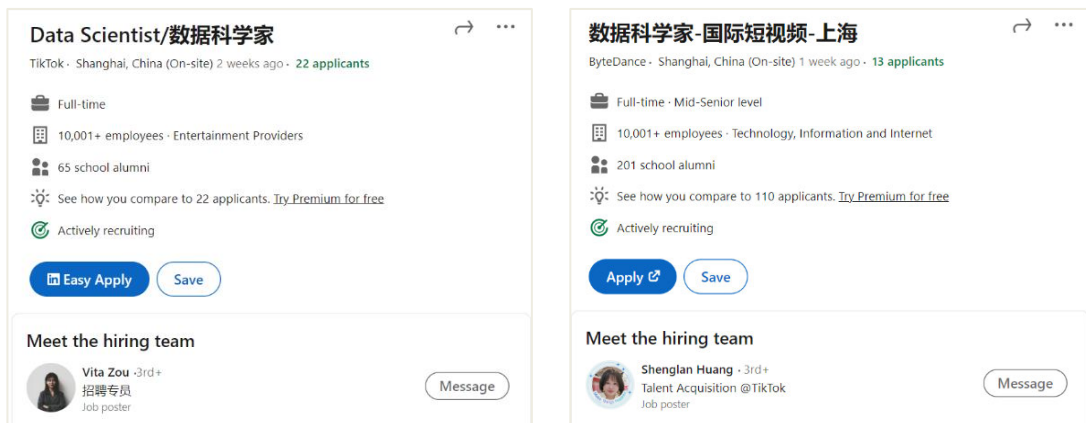
5.5.1. Personnel

The application of China's regulations to TikTok operations within its borders is unambiguous: ByteDance employees who are citizens must disclose information from TikTok relevant to national security and intelligence work.

Under Article 77 of the National Security Law, citizens and organisations have a duty to report acts harming national security, and to support national security, public security, and relevant military bodies.¹⁹⁶ Under Article 7 of the National Intelligence Law, citizens and organisations must support, assist, and coordinate with national intelligence work.¹⁹⁷ In our assessment, these laws codify what was previously extra-legal common practice.

Our research corroborates media reporting that [ByteDance continues to depend on employees in China to work on TikTok](#) and to recruit employees from China for roles at TikTok.¹⁹⁸

In November 2022, for example, TikTok posted a job ad for a “Data Scientist” based in Shanghai. A week later, an ad with the same description posted by ByteDance for a “Data Scientist – International Short Videos – Shanghai” showed that the hiring team belonged to “Talent Acquisition @ TikTok”.



*Cross-posting of job ads for TikTok/ByteDance roles.*¹⁹⁹

We found similar examples, not just for data scientists and analysts, but also for account directors (commercialisation), R&D engineers, and algorithm engineers.²⁰⁰ Both TikTok and ByteDance regularly cross-post job advertisements with the same position IDs.²⁰¹

5.5.2. Management and Employees See TikTok and ByteDance as Interchangeable

A simple search on LinkedIn shows at least 4400 people who list “ByteDance” and “TikTok” in a single profile.²⁰² A significant number of profiles list ByteDance and TikTok interchangeably, including prominent TikTok leaders such as Blake Chandlee, “President, Global Business Solutions at ByteDance/TikTok”.²⁰³

This echoes reporting by Forbes that TikTok employees had ByteDance listed on their pay checks and tax returns, and by CNBC as well as Forbes reporter Emily Baker-White that TikTok email aliases are simultaneously ByteDance email aliases.²⁰⁴ It points to the fungibility of ByteDance and TikTok as employer.

5.5.3. Shared Cloud Infrastructure Team

The cloud infrastructures for both TikTok and other ByteDance products appear to be administered by the same team. A role titled “Tech Lead (Database Administrator), Cloud Infrastructure” manages database services within ByteDance, providing “online storage service support for all types of products in ByteDance (TikTok, Douyin, [Today’s Headlines], etc)”.²⁰⁵ This role may be akin to a China-based “Master Admin” that BuzzFeed reporting refers to, who reportedly has access to U.S. user data.²⁰⁶

The ties that bind TikTok to ByteDance, coupled with the presence of robust Party control, raise the likelihood of Communist Party influence over TikTok.

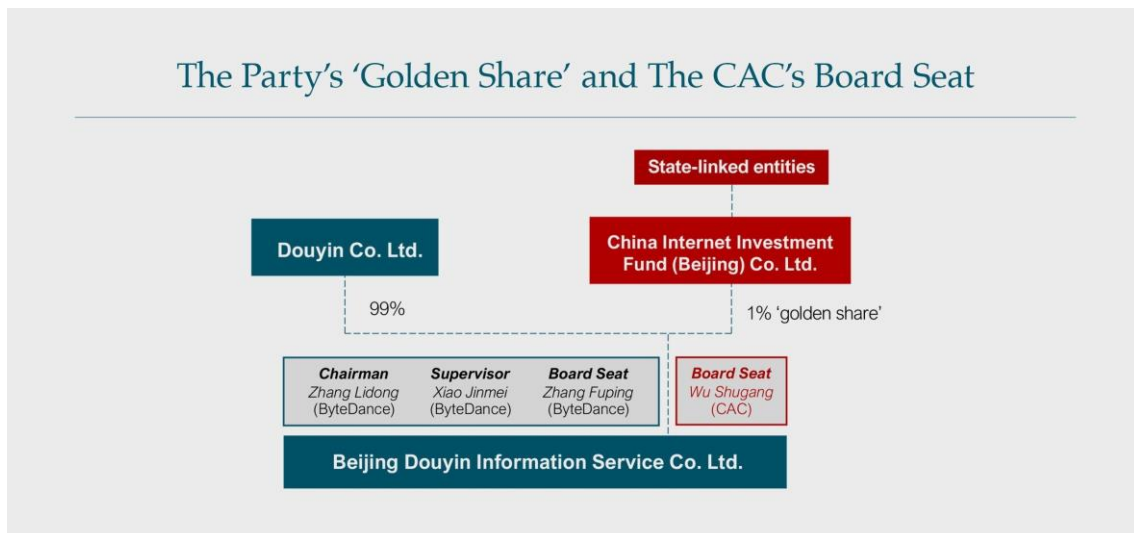
5.6. The Party-State’s Stake in Beijing Douyin

Beijing Douyin Information Service Limited, renamed from Beijing ByteDance Technology Co., Ltd. was established in March 2012 at the company’s founding.²⁰⁷ The Party-state formally registered a 1% stake in Beijing Douyin Information Service Limited in April 2021.²⁰⁸ The largest beneficial owners of this 1% stake are the State-owned Assets Supervision and Administration Commission (SASAC, which oversees state enterprises), China Media Group, and the Cyberspace Administration of China.²⁰⁹

The company’s own statements imply that the government stake was required by regulators. Responding to direct questioning in a letter to U.S. senators about whether the Chinese government owns a stake in TikTok, CEO Shouzi Chew clarified:

Beijing Douyin Information Service Limited is a separately held subsidiary of ByteDance Ltd. Beijing Douyin Information Service Limited does not have any direct or indirect ownership interest in or control over any TikTok entity. The Chinese state-owned enterprise’s acquisition of 1% of Beijing Douyin Information Service Limited was necessary for the purpose of obtaining a news license in China for several China-based content applications, such as Douyin and [Today’s Headlines].²¹⁰

The Party-state’s acquisition of “golden shares” in private tech companies gives it direct and open insider access to corporate decision-making, and influence through board seats and veto rights. This institutionalisation of Party alignment can limit or eliminate the need for subsequent state intervention.



Source: PRC online corporate databases²¹¹

In the case of ByteDance, the Cyberspace Administration of China (CAC) – China’s internet regulator and the external ‘nameplate’ and office of the CCP Central Cybersecurity and Informatisation Commission – appointed an official, Wu Shugang, to the board of Beijing Douyin Information Service Limited at the time of the ‘golden share’ acquisition.²¹²

A Financial Times review of the company charter provides details about Wu’s powers within the company: Wu reportedly gets a say over business strategy and investment plans, M&A, profit allocation, and a vote on the group’s top three executives and remuneration packages.²¹³ Wu can control the content on ByteDance’s media platforms in China, such as Douyin and Today’s Headlines, through his right to appoint the group’s editor-in-chief and the chair of a “content safety committee”.²¹⁴

Wu gained notoriety a decade ago from his June 2012 Weibo post:

I only have one wish – that one day I can cut off the dog head of traitors [i.e. liberal voices in China]. Let the Chinese traitors preaching so-called ‘human rights and freedom’ go to hell!!²¹⁵

Later, Wu became Party secretary of the Communist Youth League for organs directly under the Ministry of Education.²¹⁶



The notorious 2012 Weibo post of cyber regulator and now Douyin board member Wu Shugang.²¹⁷

Before joining ByteDance, Wu Shugang worked in the Local Guidance Office of the CAC's Online Commentary Work Bureau. He visited internet companies to give lectures to Party members about instructions from Xi Jinping and events such as the 19th Party Congress, particularly in relation to online public opinion and discourse power on the main “battlefield” of the internet.²¹⁸



Wu Shugang, who helps ensure Party alignment within ByteDance through his ‘golden share’ board seat.

5.7. Communist Party Organisation Members within ByteDance

In a 2022 hearing, U.S. Senator Josh Hawley questioned TikTok COO Vanessa Pappas about whether employees were affiliated with the CCP. Pappas responded that she “wouldn’t be able to tell [Hawley] the political affiliation of any individual”, but that among TikTok’s “U.S. and Singapore leadership, there are no CCP members. . . . **Everyone who makes a strategic decision at this platform is not a member of the CCP.**”²¹⁹

According to a Party newspaper, Study Times, ByteDance established its first Party branch in October 2014, followed by a Party committee in April 2017 with branches within Review and Operations, Public Affairs, and Technical Support.²²⁰

The Epoch Times reported that it obtained a list of ByteDance Party members.²²¹ Out of 138 Party committee members at the Beijing headquarters, most were born in the 1990s and many held management or technical positions.²²² We were not able to verify this list, but we note that the report has informed U.S. and Australian government approaches to questioning TikTok.²²³

The CAC has been pushing internet companies such as Alibaba and ByteDance to build up Party organisations.

The Cyberspace Administration of Beijing Municipality (Beijing CAC) mobilised ByteDance to establish a “public opinion research and evaluation small group” as well as an “internet content security committee”, with Party members serving as content “gatekeepers” and overseeing editing, auditing, technology, products, marketing, commercialisation, and other operational areas across the company.²²⁴

Beijing CAC also prescribed integrating the Party organisation with company management by creating a *“triple-hatted position incorporating the roles of Party Secretary, Editor-in-Chief, and Vice President.”*²²⁵

5.7.1. Red Leadership

TikTok executives refer to ByteDance Ltd.’s incorporation outside of China and the international composition of the board as evidence of their parent company’s independence from the CCP. This argument obscures the fact that key executives of parent company ByteDance – which we argue exerts continued influence on TikTok despite structural corporate boundaries – have close ties to the Party.

5.7.2. Party Secrecy Requirements

The Party’s systems for concealing its own control mechanisms begins with its rules and systems for governing itself. New Party members are required to pledge that they will “protect Party secrets”.²²⁶ The Party Constitution requires Party members to prioritise “the interests of the Party . . . before all else” (Article 16).²²⁷

These obligations of secrecy and primacy could conflict with legal obligations to disclose information to investors and regulators in rule-of-law jurisdictions.

Red Leaders at ByteDance

Bytedance Role

Party Role

Bytedance Role:
Founder and former CEO



Zhang Yiming

Party Role:
United front system

Zhang Yiming has links to provincial united front organisations in Fujian, including the Fujian People's Political Consultative Conference, the Fujian Province Overseas Friendship Association, and the Fujian Association for Members of Emerging Social Strata.

Bytedance Role:
Vice President, Chief Editor
of Douyin Group



Zhang Fuping

Party Role:
ByteDance Party secretary;
propaganda system

Before joining ByteDance, Zhang Fuping was Vice President and Deputy Chief Editor of state media Beijing Times.

Bytedance Role:
Vice President of Public
Affairs, Deputy Chief Editor



Feng Kaixu

Party Role:
ByteDance Deputy Party
secretary, united front system

Feng is a well-known calligrapher with links to the All-China Federation of Trade Unions (ACFTU), a united front organisation.

Bytedance Role:
VP of Government Relations



Chen Zhifeng

Party Role:
United front system

Like Feng Kaixu, Chen Zhifeng has been connected to the united front organisation ACFTU. Chen has discussed collaborating with CCP propaganda and united front figures in Fujian

5.7.3. Founder Zhang Yiming

ByteDance founder and former CEO Zhang Yiming told a reporter from The Atlantic in 2020 that he “isn’t a Party member”.²²⁹ However, our research has identified his links to several Fujian Province united front bodies.²³⁰ The purpose of the united front system is to increase Party influence outside the Party.

Zhang Yiming was present when the Central United Front Department began a new campaign engaging media professionals.²³¹ He attended the first ever training for new media professionals in 2015 that focused on how to conduct united front work online. While reflecting on the course, Zhang Yiming shared that the training course allowed him to “develop stronger self-confidence in rejuvenating the country through science and technology and strengthening the country through the internet.”²³²

5.7.4. Chief-Editor-and-Party-Secretary Zhang Fuping

Zhang Fuping joined ByteDance as Deputy Chief Editor of Today’s Headlines in 2016 and rose to Chief Editor the following year.²³³ Following the content crackdown on the company in March 2018, he started making public appearances not just as ByteDance Chief Editor but also as Party Secretary.²³⁴ He was appointed a board member of the Beijing Douyin Information Service Co. Ltd. in April 2021 alongside the CAC’s Wu Shugang.²³⁵

Zhang Fuping is not listed as the company’s Party Secretary on either the Chinese or English versions of ByteDance’s website. Nor does the company identify him as the business’s top-ranked official for political matters.

5.7.5. Board Member Neil Shen of Sequoia Capital

Notable also is Neil Shen, Global Steward of Sequoia Capital and Founder and Managing Partner of Sequoia Capital China, who serves on the board of ByteDance.²³⁶ Shen was a member of the 13th National Committee of the Chinese People’s Political Consultative Conference (CPPCC), a peak united front forum chaired by a member of the Politburo Standing Committee that brings together Party officials and Chinese elites.²³⁷ He was the CPPCC’s only representative from the venture capital sector.²³⁸

Shen is vice president of the Venture Capital Funds Committee of the Asset Management Association of China, which appears to exercise industry leadership in the venture capital field, and director of the Yabuli China Entrepreneurs Forum, which comes under the guidance of the All-China Federation of Industry and Commerce.²³⁹

Notably, Shen was absent from the line-up of the 14th National Committee of the CPPCC revealed in January 2023 (and he left the board of Chinese e-commerce giant Pinduoduo in late 2022).²⁴⁰ This may raise questions about his standing with the Party as it appears to shift its favour from tech firms toward state-owned enterprises.

Sequoia Capital China previously hired Wang Xisha, daughter of former Politburo Standing Committee member Wang Yang, as an investment partner.²⁴¹

6. ByteDance Serves Party Propaganda

This section examines the functional and personnel links between ByteDance and the Party's propaganda apparatus.

- a. **Coming to the Party:** ByteDance cooperates with Beijing's security services and organs of repression to guide public opinion and generate support for repressive activity.
- b. **Influence Through Personnel:** That ByteDance has a Party Secretary who is also "Chief Editor" is just one strand of a web of personnel connections designed to integrate ByteDance into the state propaganda system.
- c. **Narrative shaping:** The biggest risks involve TikTok's unprecedented potential for shaping narratives and curating overseas political landscapes. ByteDance has a demonstrated record of adopting norms in service of Party propaganda.

6.1. Whitewashing the Party-State's Security and Repression Apparatus

ByteDance claims that the company "*does not produce, operate or disseminate any products or services related to surveillance*".²⁴² However, our research shows that ByteDance platform Douyin, TikTok's analogue in China, serves Beijing's security and repression systems in direct and explicit ways.

Through its network of subsidiaries, ByteDance cooperates with military organs on propaganda work. In November 2017, the People's Armed Police, a paramilitary organisation that reports to the Xi-led Central Military Commission, signed a cooperation agreement with Today's Headlines.²⁴³ Chief Editor Zhang Fuping was pictured at a signing ceremony with the director of the Political Work Department in the People's Armed Police, Yan Xiaodong.²⁴⁴ A year and a half later, the People's Armed Police announced their forces would be joining Douyin to "*spread the positive energy of the People's Armed Police*".²⁴⁵

ByteDance also engages in formal cooperation with the Ministry of Public Security (MPS), supporting the MPS to influence and guide public opinion and to provide propaganda that portrays the MPS as being in service to citizens.

Built from the CCP's analogues of Stalin's secret police, the MPS combines traditional police roles with the prosecution of political dissent.²⁴⁶ It is tasked with investigating ideological crimes (including elastic interpretations of inciting the subversion of state power) alongside ordinary crimes recognised and prosecuted in liberal democracies.



*ByteDance Party Secretary and Chief Editor Zhang Fuping (right)
with People's Armed Police Political Work Department Director Yan Xiaodong.²⁴⁷*

ByteDance is not merely a passive host for public security accounts on its Today's Headlines and Douyin platforms. The company offers expert guidance and big data analysis to assist the MPS in its dissemination of propaganda.

In April 2019, the MPS Information and Propaganda Bureau signed a strategic cooperation framework agreement with ByteDance, as the Australian Strategic Policy Institute first reported.²⁴⁸ According to a social media account run by the Public Security Bureau of Yangshan County, Guangdong:

[T]he strategic cooperation agreement aims to maximise [Today's Headlines'] and Douyin's specialised technology and platform advantages in big data analysis, accuracy of push notifications, and creative strategy. The cooperation agreement would . . . elevate public security propaganda in its capacity to influence, guide, and gain public trust . . . creating positive public opinion as an environment for the development and progress of public security work in the new era.²⁴⁹

ByteDance's collaboration with the MPS extends to Xinjiang, where it plays a role in disseminating Party propaganda. According to a report by the Australian Strategic Policy Institute, Xinjiang local authorities received guidance to use Douyin to broadcast a sanitised depiction of state poverty alleviation policies in Hotan, a region of Xinjiang with roughly a dozen suspected detention centres for Uyghur Muslims and other minorities.²⁵⁰ This points to ByteDance's involvement in the Party-state's efforts to whitewash the internment of Uyghurs in Xinjiang.

The United Nations has found that the CCP's repression of non-Chinese ethnic groups may amount to "crimes against humanity" – the most serious allegation the body is able to make, absent an International Criminal Court investigation.²⁵¹

6.2. ByteDance Ties to the Propaganda System

ByteDance and key company executives are members of media associations established to ensure compliance with Party norms. Institutional ties include:

- Kelly Zhang, CEO of Douyin Group, is vice president of the **China Netcasting Services Association**, of which Beijing ByteDance Network Technology is a member.²⁵² Nie Chenxi, former deputy chief of the Central Propaganda Department and a member of the 19th CCP Central Committee, is president of the association.²⁵³ The CCP Central Committee's Propaganda Department controls the National Radio and Television Administration (NRTA), which supervises the China Netcasting Services Association.²⁵⁴ As the largest professional association in the industry, China Netcasting Services Association publishes mandatory standards for online short video platforms.²⁵⁵
- Party Secretary and Chief Editor Zhang Fuping serves as executive vice president at the **Beijing Communication Industry Association**, of which Beijing Douyin Information Service is a member.²⁵⁶ The association "*uses Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era as an operational guide*".²⁵⁷
- ByteDance is a member of the **People's Daily Smart Media Research Institute**.²⁵⁸ One key purpose of the institute is to explore how to use AI in media operations, including "*using mainstream values to control the algorithm, so as to comprehensively improve capacity to guide public opinion*".²⁵⁹
- Beijing Douyin Information Service is an executive corporate member of the **Internet Society of China (ISC)**.²⁶⁰ One of ISC's goals is to "*participate in the formulation of global Internet policies, norms and standards, improve the global internet governance system, and maintain cyberspace order*".²⁶¹

Outside of institutional ties, a notable number of employees have worked for Party propaganda outfits before joining TikTok and ByteDance. In August 2022, Forbes reported that its analysis of public LinkedIn profiles showed "*300 current employees at TikTok and its parent company ByteDance previously worked for Chinese state media*".²⁶² ByteDance and TikTok did not challenge the report's findings.

We independently verified that 10 senior leaders (directors, VPs and managers) at ByteDance and its subsidiaries in China have come from traditional state media, particularly the Beijing Times. Senior leaders with a history in traditional state media include Zhang Lidong, current Chairperson of Douyin Group; Zhang Fuping, Party Secretary, Vice President, and Chief Editor of Douyin; and ByteDance managers in Marketing, PR, Content Moderation, Operations, and Overseas Markets. We identified another three TikTok managers with prior experience in China's state media.

6.3. Party Instruction and Supervision

Beijing's cyber authorities mobilise and monitor internet companies such as ByteDance in times of crisis, such as during Covid-19 and the protests against the government's Zero Covid restrictions. Examples:

- In February 2020, as the Party mobilised against Covid-19, the CAC placed ByteDance (among other internet companies) under "special supervision" to ensure support for "*a good internet environment for winning the battle of Covid prevention and control*".²⁶³
- ByteDance was responsive to Party calls from the Wuhan Internet Industry Party Committee – and from Xi Jinping himself – to crack down on Covid-19 misinformation, anti-government sentiment, foreign reporting and other "*harmful information*", as defined by the Party.²⁶⁴ By late February 2020, ByteDance had set up channels on Douyin, Today's Headlines and its other apps for "*broadcasting positive energy*" and information about the government's epidemic control efforts.²⁶⁵
- More recently, on 1 December 2022, after anti-lockdown protests across major cities in China, the CAC instructed tech companies such as ByteDance to "*expand censorship of protests*", pay attention to content about anti-government protests, and restrict information about how to use VPNs to circumvent state internet controls.²⁶⁶ At an internal meeting, the CAC instructed ByteDance to increase staffing of censorship teams, according to insiders who spoke to the Wall Street Journal.²⁶⁷

6.4. Party-State Control of ByteDance Intellectual Property

The Party-state has emphasised the importance of algorithms and their injection with "mainstream values" for the purposes of propaganda work.

In March 2019, Xi Jinping published an article in Qiushi on "*Accelerating the development of media integration and constructing an omni-media broadcast pattern*". He emphasised the importance of "*exploring the use of AI in news acquisition, production, distribution,*

*reception, and feedback, [while] using **mainstream values to guide and harness ‘algorithms’, and comprehensively improving public opinion-shaping capabilities’**.”²⁶⁸*

By the end of the year, Xi’s words had been enshrined in official guidelines. The instructions came from the CAC and directed internet companies using personalised recommendation algorithms to promote propaganda and refrain from republishing illegal or harmful content.²⁶⁹

Since March 2022, ByteDance has been subject to Article 6 of the CAC’s Internet Information Service Algorithmic Recommendation Management Provisions, which reads:

*Algorithmic recommendation service providers shall uphold the **mainstream value orientation, optimise the algorithmic recommendation service mechanism, actively disseminate positive energy, and promote the use of algorithms for good.***²⁷⁰

The Party-state has developed additional levers of control over ByteDance’s intellectual property, such as export restrictions on recommendation algorithms and requirements for algorithms to be submitted for review to cyber regulators.

6.4.1. Export Controls

On 28 August 2020, while discussions were underway with the U.S. government about ByteDance’s potential forced sale of TikTok, China’s Ministry of Commerce and Ministry of Science and Technology added new items to their list of sensitive technologies requiring export controls.²⁷¹ This list included AI interactive interface technology and data analysis-based personalised information push-service technology, both of which TikTok uses.²⁷²

Two days later, on 30 August 2020, state media Xinhua published an article titled “*Planned TikTok deal entails China’s approval under revised catalogue*”.²⁷³ Professor Cui Fan of the University of International Business and Economics advised ByteDance to:

*. . . carefully study the revised catalogue, seriously and carefully consider whether it is necessary to suspend substantive negotiations on relevant transactions, comply with statutory application and reporting procedures, and then take further actions as appropriate”.*²⁷⁴

ByteDance responded the same day that it had seen the Ministries’ announcement and would strictly abide by the regulations.²⁷⁵

On 13 September 2020, ByteDance reportedly informed the U.S. government that its algorithm would not be for sale. A source who spoke to the South China Morning Post said, *“The car can be sold, but not the engine.”*²⁷⁶

6.4.2. Transfer of Personalised Recommendation Algorithm to Cyber Regulators

In March 2022, the CAC, the State Administration for Market Regulation (SAMR), the Ministry of Public Security, and the Ministry of Industry and Information Technology issued new regulations on recommendation algorithms.²⁷⁷ In August 2022, ByteDance submitted its personalised recommendation algorithm to cyber regulators.²⁷⁸ The company professes to use this same algorithm for Douyin, Today’s Headlines, Xigua Videos and other products that recommend content.²⁷⁹

ByteDance likely uses a similar algorithm for TikTok. In 2017, Li Lei, then the head of ByteDance’s AI Lab, said: *“Many of the lessons we have learned can be shared for our international products. . . . We have built the largest machine-learning platform for content. That’s our weapon.”*²⁸⁰

6.5. Censoring Content, Promoting Propaganda

Leaked TikTok documents from 2019 and 2020 established that content moderators were instructed to suppress content about politically sensitive events, figures, and speech, while limiting the viewership of posts from users deemed “ugly”, “fat”, “poor”, “LGBT” or “disabled”.²⁸¹ These leaked documents show the discretionary power of the platform in its selective and opaque restrictions on content and users. Interviews with former or current ByteDance staff, plus whistleblower accounts from former internet censors, have provided glimpses of a content-moderation process combining machine and human review.²⁸²

The body of evidence about censorship on TikTok is credible and substantial. Without disputing the veracity of these accounts, ByteDance and TikTok spokespeople have insisted that offending content moderation guidelines have since been retired.²⁸³

The company has developed a formulaic response to public criticism of censorship on the platform: **Explain there was a technical or policy error (instead of an attempt at censorship), apologise for the error, and declare that the error is now fixed.**²⁸⁴ This applied to media reporting about TikTok’s promotion of racist and anti-LGBTQ+ content, censorship of posts about #BlackLivesMatter, and removal of teenager Feroza Aziz’s account from the platform when she called attention to China’s treatment of Uyghurs in a makeup tutorial.²⁸⁵

ByteDance and TikTok assert that censorship is not a threat, but a close examination of content moderation on Douyin (and other ByteDance platforms in China) suggests otherwise. Content moderation is an existential issue for internet platforms in China, as we have witnessed with Zhang Yiming’s formative experience with Fanfou, one of China’s early Twitter equivalents. Li An, former ByteDance censor, explains:

*What Chinese user-generated content platforms most fear is **failing to delete politically-sensitive content that later puts the company under heavy government scrutiny**. It's a **life-and-death** matter. . . .Content moderation policymakers, plus the army of about 20,000 content moderators, have helped **shield ByteDance from major political repercussions and achieve commercial success**.²⁸⁶*

We have demonstrated how key individuals in ByteDance's company structure ensure Party alignment. In the sections that follow, we map the levers of control over the actual content in Douyin and other ByteDance platforms in China – and their implications for TikTok.

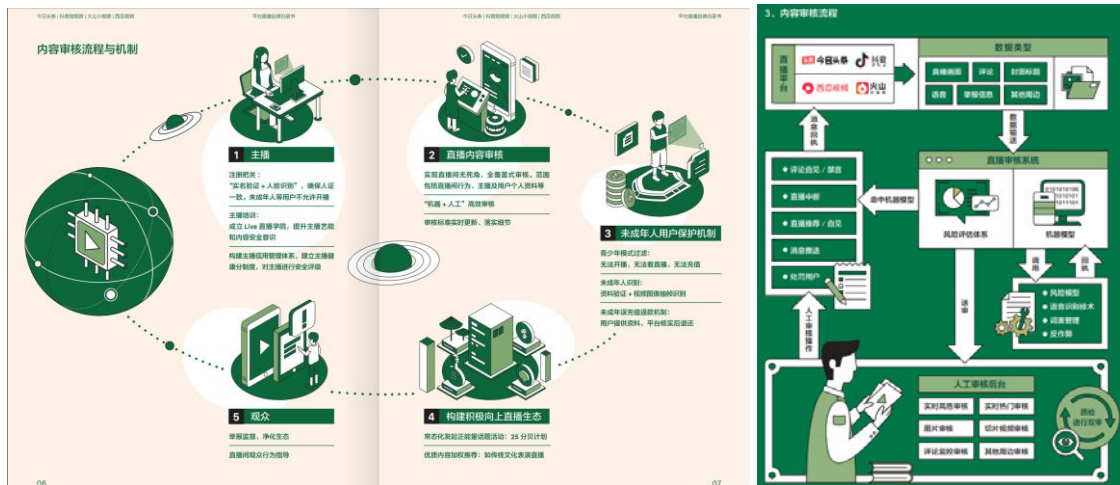
6.5.1. Automated Content Filters

Beijing uses the term “rumour” to label ideas and discourse critical of the Party-state.²⁸⁷ ByteDance notes in its 2018 Corporate Social Responsibility (CSR) report the measures it took to combat “rumours”:

- **Created large datasets:** *“Created a ‘rumour database’ of more than 300,000 articles, to filter old rumours. Agreed to cooperate with the CAC’s Illegal and Harmful Information Reporting Centre to work with authorities to share information on rumour databases.”²⁸⁸*
- **Developed targeted content distribution:** *“Launched an accurate rumour-dispelling function to accurately deliver rumour-dispelling articles to people affected by rumours.”²⁸⁹*
- **Harnessed technology:** *“Collaborated with the University of Michigan to establish an anti-rumour research alliance and develop anti-rumour technology.”²⁹⁰*

As recently as September 2022, the CAC led 12 internet platforms – including Douyin – in the tagging of online rumours as part of a dedicated campaign.²⁹¹ In September 2020, ByteDance attended a meeting with the National Anti-Pornography and Anti-Illegal Publications Office on its shared database for harmful information on the internet.²⁹²

A 2019 company White Paper on the “*Self-regulatory Mechanism of Live Video Streaming Platforms*” shows the breadth of ByteDance’s content-review models.²⁹³ ByteDance combines machine learning models (visual, audio, and textual models) with a risk model to vet livestreams in real time.²⁹⁴ It bans illegal and political content, inappropriate dressing, pornographic and vulgar content, abusive and provocative content, and superstitious content, among other categories of prohibited content.²⁹⁵ The rules further prohibit content involving deepfakes, slime, and all-you-can-eat contests.²⁹⁶



ByteDance’s content review process for livestreams includes a combination of machine and human review, as depicted in this diagram from ByteDance’s 2019 White Paper (which has since been taken down).²⁹⁷

The use of technology in content moderation extends to facilitating the work of state censors. Li An, former ByteDance censor, described the job as creating “*technology to make the low-level content moderators’ work more efficient*”.²⁹⁸ Li said:

. . . [the team] received multiple requests from [moderators] to develop an algorithm that could *automatically detect when a Douyin user spoke Uyghur, and then cut off the livestream session . . . because they didn’t understand the language*.²⁹⁹

The tech team decided not to pursue the solution because they “*didn’t have enough Uyghur language data points in [their] system, and the most popular livestream rooms were already closely monitored*”.³⁰⁰

6.5.2. Calibrating Content Distribution

In 2018, ByteDance Party Secretary and Chief Editor Zhang Fuping held a special Party class to study a National Work Conference on Cybersecurity and Informatisation. He declared then that ByteDance should “*transmit the correct political direction, public opinion guidance and value orientation into every business and product line, use values to guide algorithms, [and] create a Today’s Headlines that is more valuable to users and society*”.³⁰¹

ByteDance noted in its 2018 Corporate Social Responsibility (CSR) report that it identified users who received “rumours”, then pushed articles to them that dispelled such rumours.³⁰² This shows the control ByteDance retains over the targeting of content distribution and propaganda.

In November 2021, two employees at ByteDance subsidiaries were jailed by public security organs for accepting bribes to push specific content to Douyin’s trending list.³⁰³ A Douyin spokesperson responded that Douyin’s trending lists are generated by collating real-time trending content and applying content review mechanisms. The feature allows content editors to intervene in trending topics that violate laws and regulations, or public order and customs, or that are overly sensational.³⁰⁴ These charges foreshadowed Forbes reporting in January 2023 about TikTok’s “secret ‘heating’ button” that would help a video reach wider viewership and achieve virality.³⁰⁵

We found a September 2022 ByteDance investor report on a Chinese file-hosting site and assessed it to be authentic based on its visuals and substance.³⁰⁶ It reported that ByteDance *“adjusted its algorithm systems away from a purely commercial logic, strengthened the social value orientation of platform content, and ultimately strengthened control over content”*.³⁰⁷ According to the investor report, measures to control content included *“comprehensively analysing user behaviour and comment sentiment to crackdown on low-quality content such as clickbait and rumours”*; *“using machine learning to create risk identification and filtering models for pornography, vulgarity, and abuse, among others”*; and *“training the ‘positive energy model’ to strengthen the recommendation of content with mainstream values”*.³⁰⁸

6.5.3. Content Moderator Guidelines

In our assessment, the public-facing user service agreement for Douyin shows close alignment with norms promulgated by the China Netcasting Services Association (a state-backed professional association) and the National Radio and Television Administration.

The Association forbids *“content harming the socialist system with Chinese characteristics”*, *“separatist content”*, and *“content damaging the image of revolutionary leaders and heroes”*.³⁰⁹ Per the latest Douyin user service agreement, all *“created, commented, published and disseminated information”* on the platform *“must consciously abide by the law, socialist system, national interests, legal rights of citizens, social public order, morality and customs, and informational veracity”*.³¹⁰ Users must agree not to create or share content that *“threatens national security”*, *“incites separatism”*, *“breaks national unity”*, *“undermines the socialist system”*, or *“promotes evil cults and feudal superstitions”*.³¹¹

The Association further stipulates that, as internet platforms launch their short video services, they should build a content reviewer team of *“high political quality and strong professional capability”*.³¹² The team should undergo training by the National Radio and Television Administration, and there should be a ratio of at least one content reviewer per every thousand new short videos created each day.³¹³

Today’s Headlines prioritised Party members when hiring 2000 content reviewers in January 2018.³¹⁴ ByteDance noted in its 2018 CSR report that it ramped up the size of its content-

auditing team, with a focus on Party membership.³¹⁵ According to former censors, content moderation teams at ByteDance must apply directives received from authorities to new and existing content, often self- and over-censoring to avoid offending the Party.³¹⁶

6.5.4. Peddling Party Propaganda Abroad

Reuters reported that ByteDance censored content it perceived as critical of the Chinese government on its Indonesia news aggregator app, Baca Berita (BaBe), from 2018-2020.³¹⁷ Beijing headquarters reportedly instructed local moderators to delete articles critical of CCP authorities.³¹⁸ In July 2022, BuzzFeed reported claims from former employees that ByteDance pushed “soft” pro-China messaging on its news app TopBuzz, the international version of Today's Headlines.³¹⁹ According to these employees, TopBuzz staff needed to provide evidence to ByteDance that they had placed the content on the app.³²⁰

The company tried to do the same on TikTok, too: In June 2022, Bloomberg reported that a Chinese government entity responsible for public relations attempted to open a stealth account on TikTok targeting Western audiences with propaganda”.³²¹

6.5.5. Implications for TikTok

ByteDance has demonstrated its capacity to develop automated content filters and calibrate content distribution in service of Party propaganda, apply Party-aligned content norms, and hire Party members as content moderators. Its capabilities to serve Party propaganda are manifold, including a public-opinion early-warning system, AI that automatically generates content, and “automatic targeting” that draws on signals outside its own app.³²²

ByteDance portrays TikTok and Douyin as distinct platforms with no relation to each other. Yet, as mentioned in [Section 6.5.2](#), content-related charges emerged against Douyin employees more than a year before Forbes’s explosive reporting on TikTok’s “secret ‘heating’ button”.³²³ Douyin offers fertile grounds for understanding TikTok, especially due to the current overlap in Douyin and TikTok personnel.

The lack of transparency around algorithm decisions creates additional vulnerabilities. ByteDance retains oversight over TikTok’s algorithms and their development through TikTok Global R&D Lead Zhu Wenjia’s reporting up to ByteDance VP Yang Zhenyuan.³²⁴

In our view, ByteDance has demonstrated sufficient capability, intent, and precedent in promoting Party propaganda on its Chinese platforms to generate material risk that they could do the same on TikTok.

7. ByteDance in China’s Military-Industrial-Surveillance Complex

In this chapter, we shift focus to the Party’s security apparatus, which intersects with ByteDance in significant ways that have to date gone uncharted.

- a. **An Academy for “Military-Civilian Fusion”:** ByteDance is a founding member of the Beijing Academy of Artificial Intelligence, which developed from a state-endorsed plan to harness civilian scientific research for AI-related national defence endeavours.
- b. **Defence Collaborations:** ByteDance researchers have collaborated with defence-linked universities on dual-use technologies such as person re-identification, deepfakes, quantum computing, and deep neural networks.

7.1. The Party-State Nurtures, Guides, and Benefits from ByteDance Tech

ByteDance’s technological advancements have benefited from the Party-state’s incubation of priority science and technology programs. Zhongguancun National Innovation Demonstration Dongcheng Park is one such program – a science and technology park in Beijing established as a government-backed incubation zone for startups. In 2017, ByteDance founder Zhang Yiming won the Zhongguancun Innovation and Entrepreneurship Youth Hero Award, acknowledging the science hub’s contribution to his success:

*Today’s Headlines is representative of enterprises that grew up in Zhongguancun. . . .The growth of Today’s Headlines has benefited from Zhongguancun’s talent and policy advantages.*³²⁵



Then-Science and Technology Minister Xu Guanhua (left) congratulates Zhang Yiming (right) on winning the Zhongguancun Innovation and Entrepreneurship Youth Hero Award in 2017.

Zhang Yiming acknowledged the symbiotic relationship he and his company enjoyed with the Party-state. His award acceptance speech, entitled “*Innovation and Responsibility of Technology Enterprises*”, described the special responsibilities companies like his were required to shoulder as they became more successful.³²⁶ He said:

*In the past, a company might be a node, but after becoming a platform, you are the infrastructure of the society, and the impact on the economy and society is bigger and you need to take on more responsibilities.*³²⁷

At the time, Today’s Headlines had begun cooperation with the Gansu Province Cyberspace Affairs Office to provide a sales platform to merchants in poor counties and assist in tracking down lost people.³²⁸

Party-state support and guidance is ongoing. The current 14th Five-Year Plan for Zhongguancun seeks to “*promote capacity for innovation*” by:

*Encouraging high-tech enterprises to strengthen technological R&D [...]. Through strategic cooperation with companies such as Xiaomi, **ByteDance**, and Tencent, advance the establishment of an innovation platform with **leading innovative internet tech companies as the main body, in-depth cooperation among industry, university, and research institutions**, and with high-tech industries that **connect the upstream and downstream.***³²⁹

ByteDance is pursuing technological advancement in areas the Party has prioritised. After the Party’s crackdown on the tech sector in 2021, ByteDance set out a plan for achieving “hard technological breakthroughs” in Extended Reality (XR), chips, life sciences, and enterprise intelligence tech. The language of ByteDance’s 2021 CSR report aligns closely with Party policy-speak.³³⁰ For example:

1. “*Based on accumulated advantages, extend upstream of the technological chain to AI chips, server CPU chips, and **strive to achieve the greatest degree of autonomy and controllability of the technological chain.***”
2. “*Continue to explore and apply the company’s accumulated AI tech to more fields and fields with **greater social value**, such as smart devices, medical care, and enterprise services.*”
3. “***Carry out basic research** and explore the frontiers at the intersections of AI+.”*³³¹

7.2. Beijing Academy of Artificial Intelligence

ByteDance was a founding member of the Beijing Academy of Artificial Intelligence, established by China’s Ministry of Science and Technology and the Beijing Municipal People’s Government in 2018.³³² Peking University, Tsinghua University, the Chinese Academy of Sciences, and AI giant Megvii are also members. The U.S. government placed Megvii on its export-control Entity List for enabling repression in Xinjiang in 2019, then blacklisted U.S. public investment into the firm in 2021.³³³

The Beijing Academy of Artificial Intelligence originated out of China’s 2017 Development Plan for New-Generation Artificial Intelligence, which aimed to “*build a first-mover advantage in the development of AI in China*”.³³⁴ The Plan stipulates that China will “*promote the formation of an all-element, multi-field, high-efficiency AI military-civilian fusion pattern*”.³³⁵ The Plan also includes instructions to:

*. . .encourage prominent civilian scientific research forces to participate in national defence for major scientific and technological innovation tasks in AI, to promote AI technologies to become quickly embedded in the field of national defence innovation.*³³⁶



7.3. Working with Defence Universities

Heeding guidance to serve national defence, ByteDance researchers have collaborated with defence-linked universities powering China's military. The Australian Strategic Policy Institute has rated Chinese universities' risk of ties to the People's Liberation Army,³³⁷ which we review below:

- **Huazhong University of Science and Technology:** Rated "very high risk" for its large number of defence laboratories and close links to the defence industry.³³⁸ A ByteDance researcher collaborated with scientists from this university's State Key Lab of Multi-spectral Image Information Processing Technology, a major defence lab, on person re-identification.³³⁹
- **People's Public Security University of China:** Rated "very high risk" for its affiliation with the Ministry of Public Security.³⁴⁰ ByteDance researchers collaborated with this university on deepfakes.³⁴¹
- **Tsinghua University:** Rated "very high risk" for its substantial involvement in defence research and alleged involvement in cyberattacks.³⁴² ByteDance researchers collaborated with Tsinghua on quantum computing and deep neural networks.³⁴³
- **Peking University:** Rated "high risk" for its involvement in defence research.³⁴⁴ ByteDance worked with Peking University researchers on intelligent text generation.³⁴⁵

State organisations that funded ByteDance's research would likely have access to their findings. Funders include the Beijing Academy of Artificial Intelligence, the Ministry of Public Security Technology Research Program, and the Natural Science Foundation of China.³⁴⁶

7.4. Surveillance Tech Partners

As detailed in [Section 6.1](#), ByteDance whitewashes Ministry of Public Security work in Xinjiang and broadcasts sanitised depictions of the region. In business operations and research, ByteDance has cooperated with companies identified as part of the military-industrial-surveillance complex enabling repression in Xinjiang:

- **Lion Technology:** On the U.S. Entity List since 2019 for ties to repression in Xinjiang.³⁴⁷ ByteDance cooperates with Lion Tech in data centers.³⁴⁸
- **SenseTime:** On the U.S. Entity List since 2019 for alleged ties to repression in Xinjiang.³⁴⁹ Sanctioned by Washington again in 2021 for ties to Beijing's

military-industrial complex. ByteDance used facial recognition technology developed by SenseTime.³⁵⁰

- **Dawning Information Industry, a.k.a. Sugon:** A subsidiary of the Chinese Academy of Sciences sanctioned for ties to Beijing’s military-industrial complex and enabling repression in Xinjiang.³⁵¹ ByteDance was a major client of Sugon cloud services. Sugon also makes data centers for ByteDance.³⁵²
- **iFlytek:** On the U.S. Entity List since 2019 for enabling repression in Xinjiang.³⁵³ ByteDance uses iFlytek for voice synthesis technology and music on Douyin and for office collaboration products on Feishu.³⁵⁴
- **Megvii:** Sanctioned by Washington in 2019 and 2021, as noted above.³⁵⁵ ByteDance collaborated with Megvii on computer vision research.³⁵⁶

7.5. Serving the Ministry of Public Security

ByteDance’s flagship China products – Douyin and Today’s Headlines – serve as resources for surveillance, particularly for China’s Ministry of Public Security (MPS).

In 2015, the MPS announced a raft of internet measures, including cybersecurity bureaus for major websites and major internet enterprises. The cybersecurity bureaus target cybercrime, including the Party-defined offence of spreading rumours.³⁵⁷

In September 2018, ByteDance Party Secretary Zhang Fuping announced Douyin’s integration with the MPS Network Security and Protection Bureau. The cybersecurity bureaus, together with Douyin and Douyin users, would collaborate to clean up cyberspace and promote the constructive environment of platform governance.³⁵⁸



*Douyin’s official ceremony marking its cooperation with the Ministry of Public Security.*³⁵⁹

The strategic cooperation agreement between ByteDance and the MPS signed in April 2019 includes a clause for *Douyin to cooperate with public security organs and jointly plan “offline activities”*.³⁶⁰ The agreement is vague on the meaning of cooperation and joint planning. But ByteDance’s 2019 CSR report documented the company’s efforts in establishing an *“integrated linkage mechanism [linking] behaviour recognition, online confrontation, and cooperation with public security agencies to crack down on behaviour offline”*.³⁶¹

There is evidence of arrests made as a result of ByteDance cooperation with the security services. ByteDance claims that it has aided in solving police cases, some involving hundreds of arrests, facilitated by an in-house official police cybersecurity team.³⁶² According to ByteDance’s 2022 Anti-Fraud Report, on which state media reported, between January 2021 and March 2022, Douyin helped public security organs apprehend 140 fraud-related criminal gangs, arrest 576 suspects, and solve more than 800 cases.³⁶³

8. Analysing the App: Content Quality and Access to Sensitive User Data

This section presents preliminary analysis of the TikTok app to assess its potential involvement in controlling narratives, and capacity to harvest user data.

- a. **TikTok as an Information Ecosphere:** Our original content analysis reveals higher proportions of misinformation and content favourable to the CCP on TikTok than on some other major social media platforms.
- b. **Data Harvesting Concerns:** Our analysis of TikTok's code shows that the app can access data beyond what is required for it to function, including sensitive data. This poses a risk to individual user data privacy, and lends itself to potential mass surveillance and intelligence applications.

8.1. Analysing Content on TikTok

In recent years there have been numerous examples of social media-based influence operations originating in China.

The Party and an army of state-backed cyber actors have led coordinated campaigns to harass journalists and human rights activists.³⁶⁴ They have also sought to shape global opinion on China's human rights record in Xinjiang and to interfere in multiple elections, including in the United States.³⁶⁵ U.S. officials warned before the 2022 midterm elections that Chinese agents of foreign interference were likely to "hinder candidates perceived to be particularly adversarial to Beijing".³⁶⁶

In late 2021, media reports identified a Shanghai Public Security Bureau soliciting bids for public opinion management services and seeking to register fake accounts on Western social media platforms, disguise and maintain them, and create original content.³⁶⁷

8.1.1. Prior Analyses of Content on TikTok

Media reporting and research by non-profit organisations present evidence that TikTok appears to censor content sensitive to the CCP, and hosts political misinformation. TikTok's coverage of issues considered sensitive by the CCP (such as Hong Kong's pro-democracy movement and China's human rights record in Xinjiang) appears to depart from that of Western-owned social media platforms, in ways that align with CCP interests.

In September 2019, the Washington Post reported that searches for *#hongkong* on Twitter and TikTok revealed starkly different results.³⁶⁸ On Twitter, the hashtag surfaced “*the city’s unavoidable protests, including pro-China agitprop, sympathetic memes and imagery from the hundreds of thousands of pro-democracy marchers who have braved police crackdowns*”.³⁶⁹ By contrast, TikTok surfaced “*playful selfies, food photos and singalongs, with barely a hint of unrest in sight*”.³⁷⁰

In November 2019, a Vice Germany journalist found that most of the videos he uploaded to TikTok with the hashtag *#Xinjiang* disappeared from search results.³⁷¹

The Australian Strategic Policy Institute (ASPI) followed up in August 2020 and found that the top 100 videos listed under *#Xinjiang* were 15% pro-CCP (denying the persecution of Uyghurs), 33% propaganda (“*[depicting] Xinjiang in an exclusively idyllic way*”), 12% critical of the CCP, and 40% entertainment.³⁷² ASPI noted that TikTok’s depiction of Xinjiang with “*smiling and dancing Uyghurs*” is a more “*politically convenient version for the CCP*”.³⁷³ The ASPI researchers wrote:

*While it’s unlikely that ByteDance would manipulate TikTok’s algorithm as blatantly as it does on its PRC-based equivalent, Douyin, there’s ample room for it to **covertly tweak users’ feeds, subtly nudging them towards content favoured by governments and their ruling parties** – including the CCP. . . . Even if ByteDance successfully ringfences TikTok from its China operations, censorship and information control can still be achieved via the **app’s opaque algorithm**, which is developed by ByteDance’s China-based engineering teams.*³⁷⁴

TikTok also faces allegations of propagating election misinformation.

TikTok says it does not allow political advertising on its platform.³⁷⁵ However, in October 2022, an independent investigation by rights group Global Witness and New York University’s Cybersecurity for Democracy (C4D) team found that TikTok failed to detect and remove advertisements containing election misinformation ahead of the 2022 U.S. midterms.³⁷⁶ TikTok approved 90% of the ads containing election misinformation that the researchers sought to upload:

*TikTok performed the worst out of all of the platforms tested in this experiment, with only one ad in English and one ad in Spanish – both relating to covid vaccinations being required for voting – being rejected. Ads containing the wrong election day, encouraging people to vote twice, dissuading people from voting, and undermining the electoral process were all approved. The account we used to post the election disinformation ads was still live until we informed TikTok.*³⁷⁷

8.1.2. Content Analysis

To test some of these claims, we designed and iterated over time a preliminary content analysis experiment that sought to identify the levels of pro-CCP content and misinformation present in top search results across TikTok, Twitter, Instagram and YouTube.

Given that TikTok functions uniquely (in that it generates recommended content without ever requiring the user to search for a topic or follow a creator), we focused our analysis on the content returned by each app's search function, thereby ensuring our experiment could be reliably repeated across platforms. This minimised the extent to which each app's content recommendation functions affected the content encountered. We also assessed that an analysis of the top search results returned for each term would provide valuable insight into the kinds of content users would likely encounter when seeking out information on certain topics via each app's search function.

The experiment tested two hypotheses:

1. TikTok hosts a higher proportion of content favourable to the CCP than competing social media platforms; and
2. TikTok hosts a higher proportion of misinformation than other platforms.

Based on our expertise in identifying PRC propaganda talking points, as well as a review of the existing literature on censorship, propaganda and misinformation on social media, we developed a list of 25 search terms across the two target issues and analysed the top 20 search results returned for each term. In total we analysed 2000 search results across the four platforms combined.

In the table below, we list the search terms examined, provide examples of the claims and representations we encountered, and note how we coded content. In order to reduce bias, we used fact-checking services such as Snopes and PolitiFact to assess the truthfulness of particular claims and coded content as 'disinformation' only if it presented untruths as fact.

We emphasise that this analysis is limited and preliminary in nature. It investigates the quality of content present in top search results for a limited set of terms, across a limited time period. Presence of pro-CCP content is not evidence that the app promotes propaganda or censors anti-CCP views. Similarly, presence of misinformation is not evidence that the app promotes this kind of content. Any assessment of the extent of propaganda, censorship or disinformation occurring on the platforms would require investigation into the origins of and intentions behind content appearing in top search results (on the content creator side) and evidence of the functions of TikTok's recommendation algorithm and content moderation processes (on the platform side).

Content Analysis Methodology

Assessing depictions of the CCP

Search terms

- "CCP"
- "China"
- "Mao Zedong"
- "China military"
- "PLA "
- "China human rights"
- "Tiananmen"
- "Tibet"
- "Hong Kong protest"
- "Uyghur"
- "Taiwan is a country"
- "Xi Jinping"
- "Xinjiang"
- "Wuhan lab"
- "Taiwan invasion"

Notes on how content was coded

Favourable depictions of the CCP

Content coded as such included refutations of so-called 'Western lies' about genocide in Xinjiang, rosy pictures of 'happy Uyghurs', criticism of Hong Kong's pro-democracy protest movement, PRC military propaganda, praise for the Chinese Communist Party, etc.

Unfavourable depictions of the CCP

Content coded as such included criticisms of Xi Jinping's leadership and China's human rights record, expressions of support for Tibetan and Taiwanese independence, content deriding CCP censorship practices, etc.

N/A

Content was coded as such if it was either unrelated to the target topic, or did not present either a favourable or unfavourable depiction of the CCP.

Assessing the presence of misinformation

Search terms

- "Mail ballot"
- "MAGA"
- "Uvalde TX conspiracy"
- "January 6 FBI"
- "Covid vaccine debunked"
- "Red wave"
- "Hunter Biden laptop"
- "Crisis actors"
- "mRNA vaccine"
- "Bucha fake"

Notes on how content was coded

Content containing misinformation

Content coded as such included misleading claims related to 'crisis actors' and the Uvalde, Texas school shooting, vaccine misinformation (including the claim that mRNA vaccines alter human DNA), false claims regarding the January 6 Capitol riots, etc.

Content absent misinformation

Content coded as such included factual reporting on election outcomes, expressions of personal political views (including personal opinion on the presence or absence of a "red wave" during the U.S. 2022 midterms), press reporting on investigations into the laptop that allegedly belonged to Hunter Biden, etc.

Content coded as N/A

Content was coded as such if it was unrelated to the target topic, or did not make any discernible claim.

8.1.3. Control Variables

We conducted this content analysis over a 48-hour period (20-22 November 2022). We performed the searches on newly created sock puppet accounts on an Apple device using a VPN to spoof the device IP's location, deleting accounts made for one app before making those for the next. This was done to reduce the potential for targeted recommendations generated by third-party user data sharing that may occur across apps.

8.1.3. Findings

Our experiment revealed that top search results on TikTok (and Twitter) featured higher proportions of content favourable to the CCP, compared to Instagram and YouTube.

In the absence of direct evidence of policies, practices, and human or technical mechanisms for managing content on the platform, we cannot determine the specific causes of the elevated proportion of pro-CCP content and disinformation on TikTok vis-à-vis other apps. That is, our experiment does not enable us to determine whether this result stems from internal TikTok content moderation, algorithm manipulation, or a higher volume of pro-CCP content creators active on the platform.

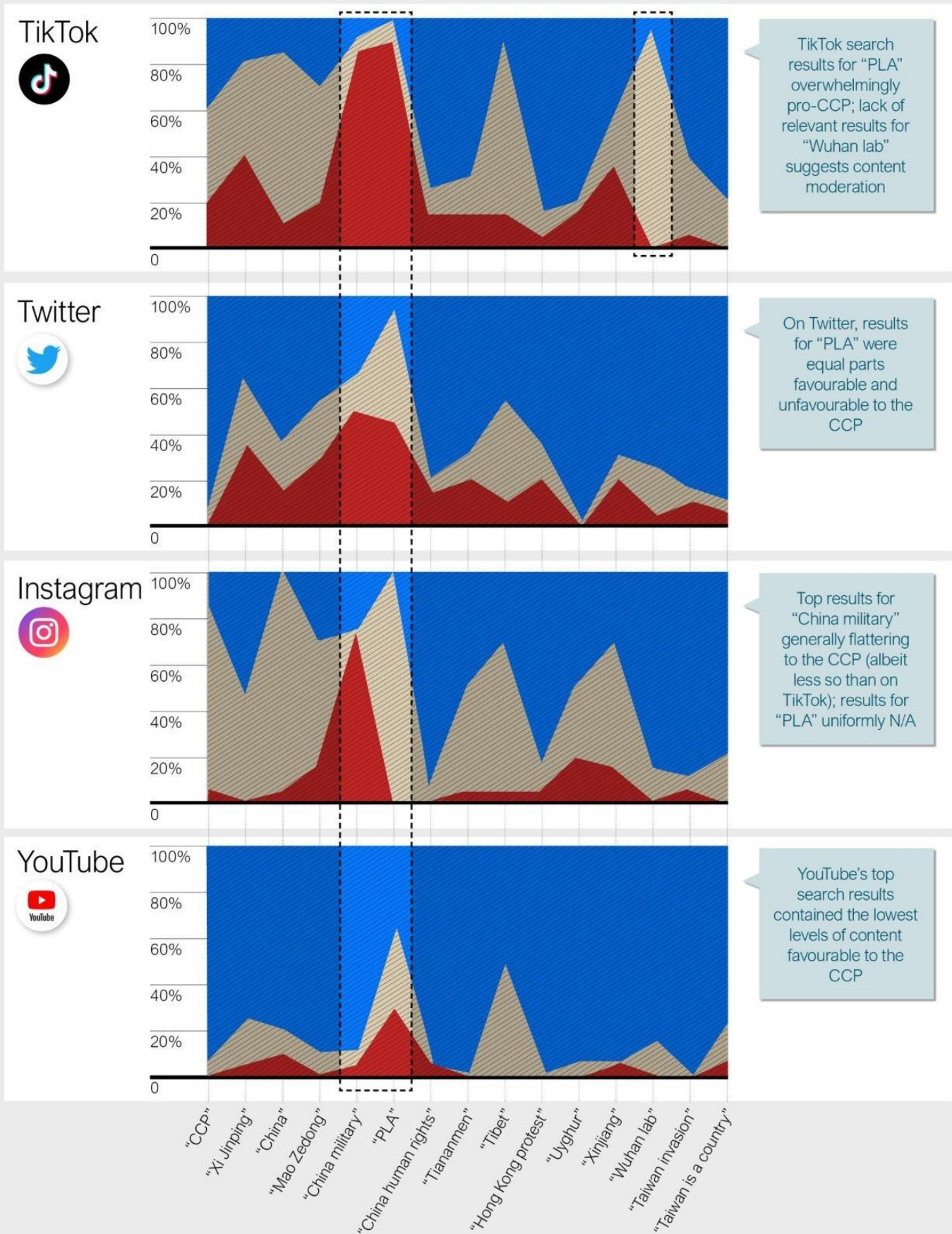
Our findings do support a conclusion that, when searching for information on contentious topics related to China and, separately, to U.S. political issues, **the average TikTok (and Twitter) user is more likely to be exposed to content favourable to the CCP and misinformation in search results** than the average Instagram and YouTube user. These findings have significant implications for Gen Z users who increasingly use TikTok as a search engine to learn about political issues.³⁷⁸

We emphasise the limited and preliminary nature of this investigation, which focused on results returned for a limited set of search terms within a limited time period.

Preliminary Comparative Analysis of Content Across Major Platforms (Part 1)

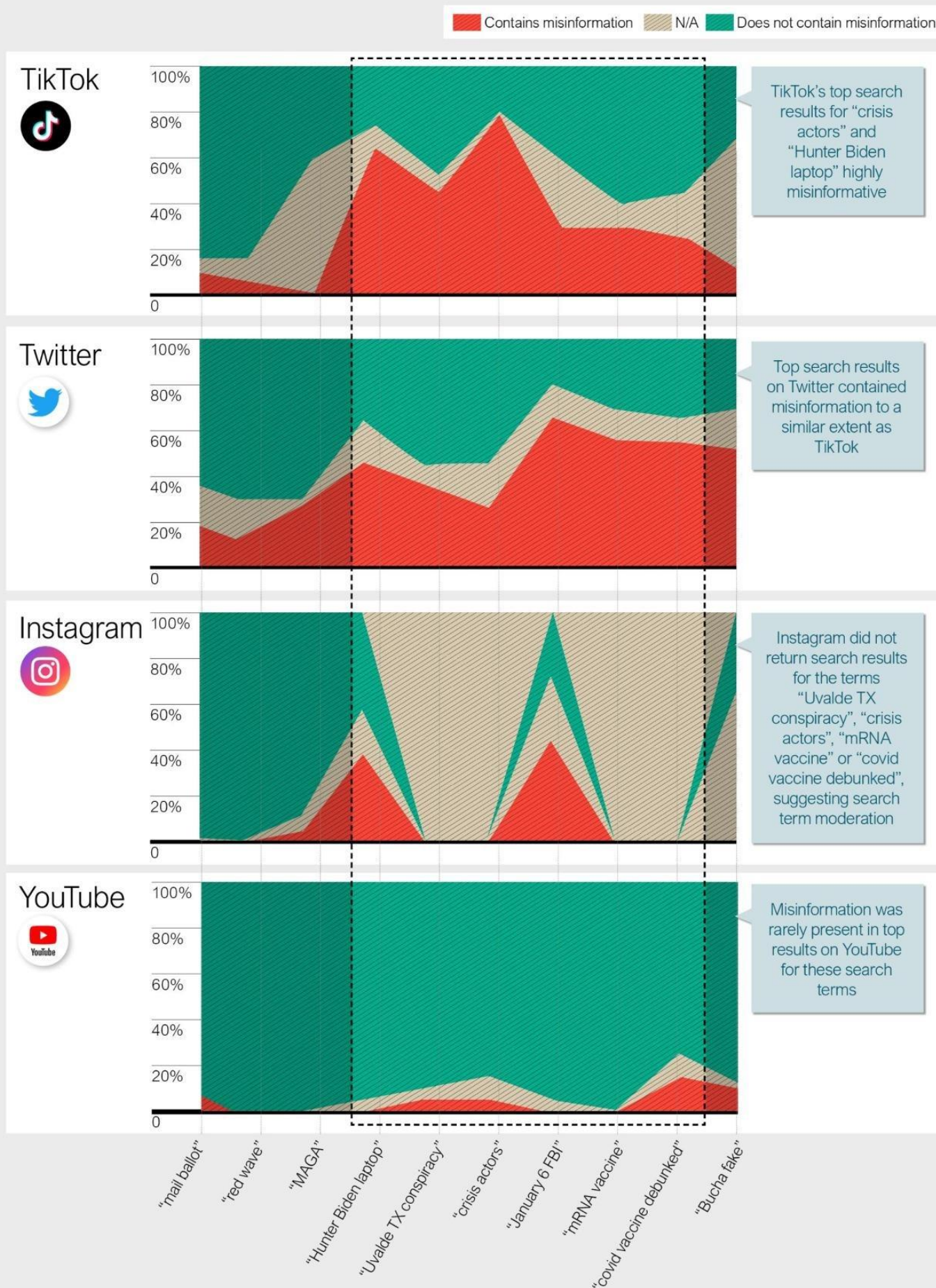
We assessed depictions of the CCP present in the top 20 search results on TikTok, Twitter, Instagram and YouTube over a 48-hour period (20-22 November 2022):

Favourable to the CCP N/A Unfavourable to the CCP



Preliminary Comparative Analysis of Content Across Major Platforms (Part 2)

We assessed the presence of misinformation in the top 20 search results on TikTok, Twitter, Instagram and YouTube over a 48-hour period (20-22 November 2022):



8.1.4. Possible Intervening Variables: Twitter Takeover

This content analysis was conducted after Elon Musk completed his takeover of Twitter but prior to reports of substantial changes to content algorithms and moderation functions. In December, Twitter reportedly dismissed a number of key executives and, by some estimates, half of the workforce, including some of those working on content moderation.³⁷⁹

8.1.5. Suggestions for Future Analyses

These results capture only a snapshot of content on TikTok for a limited 48-hour period. Follow-up experiments could repeat the experiment multiple times, or over a longer period, examining a broader range of search terms, for more reliable results. This would allow stronger conclusions about the app's treatment of particular topics. For instance, in our experiment, almost all top search results for the terms "PLA" and "China military" contained favourable depictions of the CCP. However, we would require more robust evidence to draw firm conclusions about the reasons for and implications of this.

8.2. Technical Analysis: Data Accessed by the App

A July 2022 investigation by cybersecurity firm Internet 2.0 alleges abuses of data privacy and security by the TikTok app, including the claim that *"Permissions and device information collection are overly intrusive and not necessary for the application to function"*.³⁸⁰

The report cites a number of examples of data TikTok collects which the authors argue should be considered excessive, including information on other applications installed and running, hourly location data, persistent calendar access, contacts, and unique device identifiers such as the International Mobile Equipment Identifier (IMEI).³⁸¹

To independently verify some of these findings, we performed a limited technical analysis of the TikTok app designed to be verifiable and repeatable by others. Our technical analysis was conducted on the Android v25.1.3 app (the same version analysed by the Internet 2.0 investigation).³⁸² In summary, we found that the app requests permission to access a vast array of data, including sensitive data, and it also requests permission for data seemingly unnecessary for the functioning of the app (based on its current features).

Based on our understanding of the app's personalised recommendation algorithm, we assess that TikTok may be able to build user profiles that reflect personal proclivities relating to engagement with 'compromising' material. These user profiles could conceivably be used to publicly discredit or blackmail individuals for the purposes of political interference or transnational repression. Agents of the CCP regularly participate in campaigns of harassment and repression via social media.³⁸³

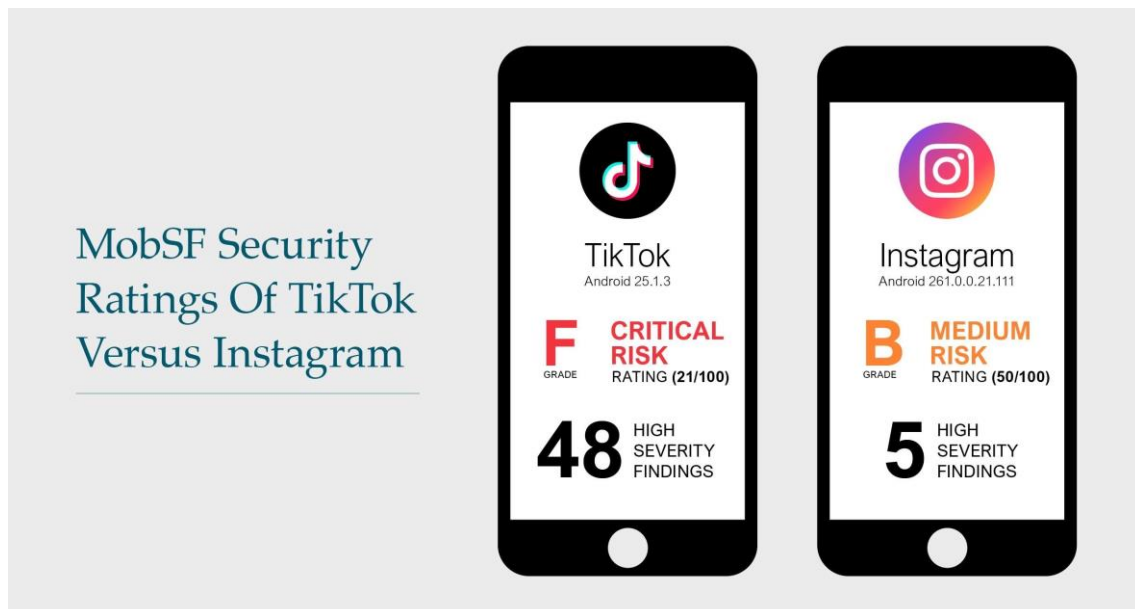
8.2.1. Static Analysis of the Android App

Our researchers performed a static analysis of the TikTok app (Android v25.1.3) in order to independently verify some of the findings of the Internet 2.0 report.³⁸⁴ (For our methodology for the purposes of replication, see Appendix 1.)

Our findings are based on an initial analysis of the decompiled code of the app. It is important to note that a significant proportion of the code is obfuscated, so we were unable to determine the functions of much of the code.

Moreover, static analysis is limited in its ability to inform definitive conclusions about whether data is being sent outside of the device. The TikTok Android app is a large, well-protected and complex program. Outside reference points would be required to determine whether TikTok’s collection and handling of data varies significantly from that of other popular social media applications. However, **third-party security evaluation services rate TikTok poorly compared with other social media platforms.**

We used the security analysis tool Mobile Security Framework (MobSF) to run two separate static analyses of the Android Package Kits (APKs) for TikTok (v25.1.3) and Instagram (v261.0.0.21.111). The MobSF reports scored TikTok’s security risks as “critical” (21/100) and gave the app an “F” grade with 5/428 trackers detected. Comparatively, Instagram scored as “medium” risk (50/100) and received a “B” grade with 2/428 trackers detected. MobSF flagged 48 “high severity findings” for TikTok and 5 for Instagram.



Risk ratings provided by Mobile Security Framework, based on an automated security evaluation.

8.2.2. Data Access

Our limited investigation of this particular version of the TikTok Android app found that it requests permission to collect a large number of datapoints about the user and their device.

We were unable to confirm whether the data is indeed collected, what it might be used for, or where it is sent. However, the data the app requests permission to collect contains numerous unique identifiers and would facilitate device “fingerprinting” – the practice of profiling a machine based on its unique software and hardware configuration.³⁸⁵ (For a list of device data the TikTok app is able to read, see Appendix 2.)

The app can perform checks for a user’s contacts, location and calendar information. (For the full list of ‘android.permission’ strings and the number of times each is observed in the decompiled code, see Appendix 3.) From this list, we can see that the app can collect users’ precise location, and collect location data even while the app is not in use.³⁸⁶

Given recent revelations regarding TikTok’s surveillance of American journalists using the app to monitor their locations, these findings present individual privacy and security risks that warrant further examination.³⁸⁷

9. Taking Stock of the Evidence

In this section, we show how TikTok’s attempts to defuse controversy and allay policymakers’ concerns have failed to address the fundamental risks facing democratic governments.

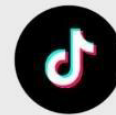
- a. **Recent Events Confirm the Risks Are Real:** Late-2022 revelations of data privacy violations by ByteDance, including the tracking of journalists reporting on TikTok, show the emptiness of supposed safeguards.
- b. **“Project Texas” Problems:** TikTok’s promises to house data in the United States cannot negate how Beijing’s comprehensive national security and intelligence laws weave ByteDance and TikTok into its global data goals and can obligate them to share any data the Party may demand, in secret.
- c. **Beijing’s Regulatory Veto:** Some U.S. regulators may want to stop short of a ban by instead forcing ByteDance to divest TikTok, but Beijing has repeatedly signaled that it would oppose such a solution, including by imposing export controls on algorithms.

9.1. TikTok’s Late-2022 Troubles

TikTok has faced increasing scrutiny in democratic capitals for several years, dating most significantly to the Trump administration’s August 2020 attempt to ban the app altogether. However, the month of December 2022 was especially eventful. The highlights:

9.1.1. Tracking U.S. Journalists

ByteDance admitted on 22 December that an internal-audit team – including employees in China – had inappropriately tracked journalists from the Financial Times and Forbes by accessing their location data in an attempt to identify their sources inside TikTok.³⁸⁸ While the Christmas-week timing of the news probably limited its immediate splash, this revelation hurt TikTok’s standing in Washington. Critics have long warned that ByteDance could access user data for abusive purposes, including to track and intimidate, whether on ByteDance’s initiative or on behalf of the Chinese government. This appeared to prove it.



Reporting On TikTok Reached Fever Pitch In Late 2022

JUN
2022

BuzzFeed News

Leaked Audio From 80 Internal TikTok Meetings Shows That US User Data Has Been Repeatedly Accessed From China

17 June

The leaks reveal that PRC-based engineers were able to access US TikTok users' app data, even while U.S. employees were not.

JUL
2022

FINANCIAL REVIEW

TikTok's 'alarming', 'excessive' data collection revealed

18 July

Technical analysis of the TikTok app by Australian cybersecurity firm Internet 2.0 judged the app's data access requirements excessive.

AUG
2022

Forbes

LinkedIn Profiles Indicate 500 Current TikTok And ByteDance Employees Used To Work For Chinese State Media—And Some Still Do

11 August

At least 500 TikTok and ByteDance employees—including those working in strategy and content—have previously worked for PRC state media.

OCT
2022

Forbes

TikTok Parent ByteDance Planned To Use TikTok To Monitor The Physical Location Of Specific American Citizens

20 October

An Internal Audit team at ByteDance intended to surveil specific U.S. citizens through the TikTok app's location tracking function, including some who had no employment relationship with either company.

NOV
2022

Forbes

TikTok May Be Suppressing Videos About The Midterms And Voting, New Research Suggests

7 November

TikTok is accused of censoring videos about the U.S. midterm elections, including politically-neutral content containing how-to-vote information.

DEC
2022

Forbes

EXCLUSIVE: TikTok Spied On Forbes Journalists

22 December

ByteDance confirms it used TikTok to track the locations of U.S. journalists reporting on the company, in an attempt to identify the sources of recent leaks.



U.S. Federal Communications Commissioner Brendan Carr highlights how TikTok parent ByteDance's pre-Christmas admission of snooping backs up allegations that have long dogged the company.

Democrat Mark Warner, chair of the U.S. Senate Intelligence Committee, said:

This new development reinforces serious concerns that the social media platform has permitted TikTok engineers and executives in the People's Republic of China to repeatedly access private data of U.S. users despite repeated claims to lawmakers and users that this data was protected.³⁸⁹

9.1.2. Intelligence Officials Sound the Alarm

Also toward the end of last year, key U.S. national security officials intensified their warnings about TikTok. In November, FBI chief Chris Wray stated that the FBI has “a number of concerns” regarding TikTok as a “national security threat”:

They include the possibility that the Chinese government could use it to control data collection on millions of users or control the recommendation algorithm which could be used for influence operations if they so chose, or to control software on millions of devices which gives it the opportunity to potentially technically compromise personal devices.³⁹⁰

On 3 December, Director of National Intelligence Avril Haines addressed TikTok at the Reagan National Defense Forum:

It is extraordinary the degree to which China, in particular . . . are developing just frameworks for collecting foreign data and pulling it in and their capacity to then turn that around and use it to target audiences for information campaigns or for other things, but also to have it for the future so that they can use it for a variety of means that they're interested in.³⁹¹

On 16 December, CIA Director William Burns echoed such concerns:

I think it's a genuine concern, I think, for the U.S. government, in the sense that, because the parent company of TikTok is a Chinese company, the Chinese government is able to insist upon extracting the private data of a lot of TikTok users in this country, and also to shape the content of what goes on to TikTok as well to suit the interests of the Chinese leadership. . . . What I would underscore, though, is that it's genuinely troubling to see what the Chinese government could do to manipulate TikTok.³⁹²

9.2. "Project Texas" Doesn't Measure Up

TikTok has gone to great efforts to allay Western policymakers' data security concerns, and convince governments against a ban, forced divestment or other major action. In the U.S., the company has proposed and begun to implement a number of measures relating to data security, the most notable set of which is known as "Project Texas".³⁹³ However, these measures fail to address fundamental issues, as detailed below.

9.2.1. Oracle's Role Doesn't Address the Underlying Problem: While Oracle is responsible for the provision and maintenance of the data storage architecture under "Project Texas", the cloud servers themselves are administered by TikTok and, according to an Oracle official, TikTok maintains "*full control of everything they're doing*".³⁹⁴

Regardless of where data is stored, according to company spokesman Ken Glueck, Oracle would have "*absolutely no insight one way or the other*" into whether entities or individuals in China had access to TikTok data stored on the Oracle cloud, nor where it was being sent from there.³⁹⁵ As TikTok's Head of Data Defense said in leaked recordings:

It's almost incorrect to call it Oracle Cloud, because they're just giving us bare metal, and then we're building our [virtual machines] on top of it.³⁹⁶

9.2.2. Oracle's Financial Conflict: As TikTok's business partner, Oracle may not be in a position to serve as independent auditor of TikTok's algorithms as part of "Project Texas". Insiders told The Washington Post in late 2022 that "*audits have not been started or closely planned*" and that Oracle merely serves as TikTok's server provider "*with no authority to police operations*".³⁹⁷

9.2.3. ByteDance Policy Remains Clear on China Data Access: TikTok leadership have claimed that the company would not agree to government requests for data if asked.³⁹⁸ However, TikTok's privacy policy enshrines ByteDance access to U.S. (and European) user data.³⁹⁹ According to U.S. Senator Josh Hawley, when questioning TikTok executive Vanessa Pappas:

*You have hundreds of employees with access to U.S. user data that may very well be members of the Chinese Communist Party. **You have no way to assure me that they have no access to our citizens' data.** And you won't answer my question in a straightforward way about **whether a CCP member has ever gained access or not.** From my own point of view, that's a huge security problem.*⁴⁰⁰

TikTok shared an update to its Europe privacy policy in November 2022 that confirmed China-based employees have access to European user data:

*Based on a demonstrated need to do their job, subject to a series of robust security controls and approval protocols, and by way of methods that are recognised under the GDPR, we allow certain employees within our corporate group located in Brazil, Canada, **China**, Israel, Japan, Malaysia, Philippines, Singapore, South Korea, and the United States **remote access to TikTok European user data.***⁴⁰¹

TikTok's Pappas did not commit to stopping data flows to China.⁴⁰² Instead, TikTok has said that it will "*[minimise] employee access to US user data and [minimise] data transfers across regions*".⁴⁰³ TikTok describes these ostensible data flow-minimisation measures on its website:

*We have policies and procedures that limit internal access to user data by our employees, wherever they're based, based on need. Like many global companies, TikTok has **engineering teams around the world—including in Mountain View, London, Dublin, Singapore, and China** – and those teams might need access to data for engineering functions that are specifically tied to their roles. That access is subject to a series of robust controls, safeguards*

*like encryption for certain data, and authorisation approval protocols **overseen by our U.S.-based security team**. To facilitate those approvals, we also have an **internal data classification system**; the level of approval required for access is based on the sensitivity of the data according to the classification system.⁴⁰⁴*

These policies and procedures are internal, with oversight by a “US-based security team”. TikTok’s U.S. privacy policy says, **“We may share all of the information we collect with a parent, subsidiary, or other affiliate of our corporate group.”**⁴⁰⁵

TikTok’s refusal to implement an effective quarantine of U.S. user data from China-based staff, and from other entities in its global corporate group, means that this data will continue to be vulnerable to potential requests for access coming from Beijing made possible by the PRC’s National Intelligence Law (see [Section 2.2.2](#) and [Section 5.5.1](#)).

9.3. Biden’s CFIUS Decision – and Beijing’s Potential Countermove

TikTok may claim it is not controlled by the Chinese government but, if we revisit a series of key events in 2020, it is clear **the Chinese government cares about controlling TikTok**.

Amid the failure of “Project Texas” to address fundamental concerns, U.S. policymakers continue to consider stronger measures that Beijing would, based on the evidence, likely seek to thwart.

The most immediate policy landmark for TikTok globally was long expected to be the verdict of the Committee on Foreign Investment in the United States (CFIUS) review, led by the U.S. Treasury Department since 2019. Since late last year, CFIUS has reportedly been considering two approaches:

First, CFIUS could allow ByteDance to maintain ownership of TikTok as long as it moves TikTok’s U.S. operations (including its data) into a new subsidiary with a separate board composed of U.S. national security veterans. This approach, avoiding a ban, has reportedly been Treasury’s preference.⁴⁰⁶ (This would trigger criticism from Congress).

Alternatively, CFIUS could force ByteDance to sell TikTok’s U.S. operations altogether, **requiring it to relinquish ownership and control of this significant portion of the company, along with its algorithms and its data**. This is reported to be the preferred approach of the Defense Department, the Justice Department and the Intelligence Community. (TikTok critics in Congress have signalled that a forced sale could be satisfactory.⁴⁰⁷)

Beijing could balk at a forced sale. Back in 2020, as the Trump administration considered forcing a sale to U.S. buyers such as Microsoft, Beijing rolled out a series of countermeasures, including warnings and new export controls on algorithms (as outlined in [Section 6.4.1](#)). Official organs referred to a would-be forced sale as “bullying”, “robbery” and “contemporary piracy”:

- **24 August 2020:** TikTok and ByteDance sued the Trump administration for banning the app.⁴⁰⁸ China's Ministry of Foreign Affairs spokesperson said at a press conference: *"China supports relevant companies in taking up legal weapons to protect their legitimate rights and interests, and will continue taking all necessary measures to resolutely safeguard the legitimate rights and interests of PRC companies."*⁴⁰⁹ State outlet Xinhua published a commentary titled, "Say 'no' to economic bullying using legal weapons".⁴¹⁰
- **28 August 2020:** The PRC's Ministry of Commerce and the Ministry of Science and Technology announced new export controls pertaining to AI technologies relevant to TikTok.⁴¹¹ (See [Section 6.4.1.](#)) Xinhua spelled out the implications of the export controls for ByteDance's algorithms.⁴¹² ByteDance promised to strictly follow Beijing's rules.⁴¹³
- **12 September 2020:** Reuters reported that, according to sources, Chinese authorities would rather see TikTok shut down than forcibly sold.⁴¹⁴
- **20-26 September 2020:** Global Times and China Daily published at least seven editorials on TikTok.⁴¹⁵ One announced: *"China is prepared to prevent Chinese firm TikTok and its advanced technologies from falling into US hands at all cost, even if that means the vastly popular video sharing app risks being shut down in the US. . . . The case goes way beyond just a mafia-style robbery of a lucrative Chinese business and cutting-edge technologies, but a threat to its national security, because the US could find loopholes in those technologies to launch cyber and other attacks on China and other countries to preserve its hegemony."*⁴¹⁶

A similar crop of commentaries from Chinese state media emerged in response to late-2022 news of the Biden CFIUS review possibly pointing toward forced divestment.⁴¹⁷ There is no reason to think Beijing would be any warmer to the notion of a forced sale today than in 2020, even though blocking a sale would probably require TikTok to withdraw from the U.S. market at great commercial cost to ByteDance.

The attempts to regulate or restrict TikTok in 2020 revealed the CCP's interest in retaining control over the app. So long as that is the case, [TikTok poses risks to democracies](#).

Australia has a duty to consider these risks. In our view, Australian policymakers are well-placed to address this issue in a bipartisan way, as was the case when Australia developed and delivered a counter foreign interference strategy in 2017-18.⁴¹⁸ ■

Appendix 1: Static Analysis Methodology

To reconstruct our technical analysis and verify findings, follow the steps below:

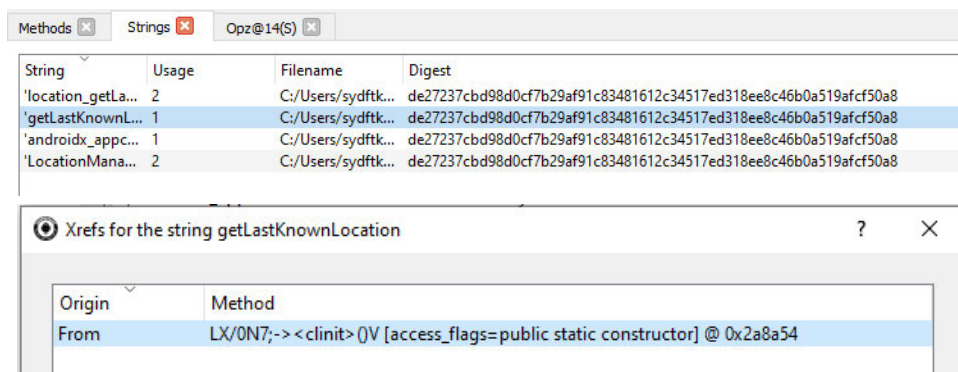
Download the TikTok Android v25.1.3 (ARM64) Android Package Kit (APK) from <https://www.apkmirror.com/apk/tiktok-pte-ltd/tik-tok-including-musical-ly/tik-tok-including-musical-ly-25-1-3-release/#downloads>.

Decompiling the APK

- Install Python at <https://www.python.org/downloads/>.
- Install Androguard (a tool and Python library for interacting with Android files) in Windows Command Prompt (CMD) (“*pip install androguard*”).
- Ensure that the Python scripts directory (C:\Users\[username]\AppData\Local\Packages\PythonSoftwareFoundation.Python.3.8\LocalCache\local-packages\Python38\Scripts) is located within the system environmental variables.

OR

- Navigate to “*entry_points.py*” in the Androguard install directory (*Androguard/CLI*) and run “*python entry_points.py gui*” in the CMD.
- Select “File” > “Open” > “.APK file”.
- Select “View” > “String”.
- Filter by desired string variable.
- Select the entry.
- Select the method.



Appendix 2: Device Data Accessible to TikTok App

The following table shows the device data that the TikTok app is able to read:

Type	Issue
Telephony Identifier	This application reads the ISO country code equivalent for the SIM provider's country code
Telephony Identifier	This application reads the ISO country code equivalent of the current registered operator's Mobile Country Code (MCC)
Telephony Identifier	This application reads the MCC and Mobile Network Code (MNC) of the provider of the SIM
Telephony Identifier	This application reads the Service Provider Name (SPN)
Telephony Identifier	This application reads the constant indicating the state of the device SIM card
Telephony Identifier	This application reads the device phone type value
Telephony Identifier	This application reads the numeric name (MCC and MNC) of current registered operator
Telephony Identifier	This application reads the operator name
Telephony Identifier	This application reads the radio technology (network type) currently in use on the device for data transmission
Location	This application reads location information from all available providers (WIFI, GPS etc.)
Connection Interfaces	This application reads details about the currently active data network
Connection Interfaces	This application tries to find out if the currently active data network is metered
Telephony Services	This application can make phone calls
PIM Data	This application accesses the calendar
PIM Data	This application accesses the downloads folder

Appendix 3: 'android.permission' Strings in TikTok Code

Below is the list of 'android.permission' strings and the number of times each is observed in the decompiled code (usage number). Usage number is not necessarily representative of the significance of the data to which access is requested. The usage numbers may also be underestimations, given the proportion of TikTok's code that is obfuscated (and therefore unreadable). For a string to be used in a command, it must first be defined. Therefore, '1' is the minimum number of times a used string can appear in code.

String	Usage
'android.permission.WRITE_CONTACTS'	1
'android.permission.WRITE_CALL_LOG'	1
'android.permission.WRITE_CALENDAR'	9
'android.permission.WAKE_LOCK'	3
'android.permission.VIBRATE'	1
'android.permission.USE_CREDENTIALS'	1
'android.permission.UPDATE_DEVICE_STATS'	3
'android.permission.SYSTEM_ALERT_WINDOW'	2
'android.permission.SEND_SMS'	1
'android.permission.REQUEST_INSTALL_PACKAGES'	2
'android.permission.RECORD_AUDIO'	38
'android.permission.RECEIVE_SMS'	1
'android.permission.RECEIVE_MMS'	1
'android.permission.READ_SMS'	2
'android.permission.READ_PHONE_STATE'	8
'android.permission.READ_PHONE_NUMBERS'	5
'android.permission.READ_EXTERNAL_STORAGE'	25
'android.permission.READ_CONTACTS'	18
'android.permission.READ_CALL_LOG'	1
'android.permission.READ_CALENDAR'	9
'android.permission.PROCESS_OUTGOING_CALLS'	2
'android.permission.MANAGE_EXTERNAL_STORAGE'	2
'android.permission.MANAGE_ACCOUNTS'	1

'android.permission.INTERNET'	5
'android.permission.GET_ACCOUNTS'	4
'android.permission.CHANGE_WIFI_STATE'	1
'android.permission.CHANGE_WIFI_MULTICAST_STATE'	2
'android.permission.CAMERA'	52
'android.permission.BROADCAST_SMS'	1
'android.permission.BODY_SENSORS_BACKGROUND'	1
'android.permission.BODY_SENSORS'	3
'android.permission.BLUETOOTH_ADMIN'	2
'android.permission.BLUETOOTH'	6
'android.permission.BIND_JOB_SERVICE'	2
'android.permission.ANSWER_PHONE_CALLS'	3
'android.permission.ACTIVITY_RECOGNITION'	3
'android.permission.ACCESS_WIFI_STATE'	4
'android.permission.ACCESS_NOTIFICATION_POLICY'	2
'android.permission.ACCESS_NETWORK_STATE'	10
'android.permission.ACCESS_MEDIA_LOCATION'	3
'android.permission.ACCESS_FINE_LOCATION'	10
'android.permission.ACCESS_COARSE_LOCATION'	21
'android.permission.ACCESS_BACKGROUND_LOCATION'	3
'android.permission.ACCEPT_HANDOVER'	2

References

- 1 Zen Soo, 'These Are the Countries That Have Bans on TikTok', Time, 2-Mar-2023, <https://time.com/6259718/countries-tiktok-banned/>
'Statement by Minister Fortier announcing a ban on the use of TikTok on government mobile devices', Treasury Board of Canada Secretariat, 27-Feb-2023, <https://www.canada.ca/en/treasury-board-secretariat/news/2023/02/statement-by-minister-fortier-announcing-a-ban-on-the-use-of-tiktok-on-government-mobile-devices.html>
'These 30 states have banned TikTok on government-issued devices, networks', The Daily Signal, 19-Jan-2023, <https://www.dailysignal.com/2023/01/19/these-30-states-banned-tiktok-government-issued-devices-networks/>
Max Mason, 'TikTok banned by 25 government departments and agencies', Australian Financial Review, 6-Mar-2023, <https://www.afr.com/technology/tiktok-banned-by-25-government-departments-and-agencies-20230303-p5cp4o>
Laura Dobberstein, 'Taiwan bans state-owned devices from running Chinese platform TikTok', The Register, 7-Dec-2022, https://www.theregister.com/2022/12/07/taiwan_bans_chinese_platform_tiktok/
Foo Yun Chee, 'EU Commission to ban TikTok on staff phones, citing security', Reuters, <https://web.archive.org/web/20230223120728/https://www.reuters.com/technology/eu-commission-staff-told-remove-tiktok-phones-eu-industry-chief-says-2023-02-23/>
Pieter Haeck, 'Don't use TikTok, Dutch officials are told', Politico, 25-Jan-2023, <https://web.archive.org/web/20230126222501/https://www.politico.eu/article/netherlands-dutch-government-work-tiktok-data-protection/>
'Danish defense ministry bans TikTok on employee work phones', AP News, 7-Mar-2023, <https://apnews.com/article/denmark-tiktok-ban-defense-ministry-c3f434fa46401ea93329e1f5cb132432>
'Belgium bans TikTok from government phones after US, EU', AP News, 11-Mar-2023, <https://apnews.com/article/tiktok-belgium-china-cybersecurity-b976fe2a56c58996e84c1040ddd7f1ad>
Todd Richmond, 'EXPLAINER: University of Wisconsin latest to ban TikTok', AP News, 25-Jan-2023, <https://apnews.com/article/technology-politics-united-states-government-china-privacy-26b0ee0d4c8421fa7f58b06f76651dc1>
- 2 '习近平：讲好中国故事，传播好中国声音', Qiushi, 2-Jun-2021, <http://archive.today/II79B>
- 3 '习近平：讲好中国故事，传播好中国声音', Qiushi, 2-Jun-2021, <http://archive.today/II79B>
- 4 '让短视频平台展示好中国形象传播好中国声音', Xinhua, 6-Aug-2021, <http://archive.today/qk00A>
- 5 Robert Mueller, 'Report on the investigation into Russian interference in the 2016 Presidential election', Mar-2019, <https://www.justice.gov/archives/sco/file/1373816/download>
- 6 Robert Mueller, 'Report on the investigation into Russian interference in the 2016 Presidential election', Mar-2019, <https://www.justice.gov/archives/sco/file/1373816/download>
- 7 Chris Uhlmann, 'Top-secret report uncovers high-level Chinese interference in Australian politics', Nine News, 28-May-2018, <https://www.9news.com.au/national/chinese-communist-party-interference-australian-politics/a6e8e4e0-28f6-4b7a-a94c-ba4b98ea8aa1>
- 8 'Speech introducing the National Security Legislation Amendment (Espionage and Foreign Interference) Bill 2017', Malcolm Turnbull, 7-Dec-2017, <https://www.malcolmturnbull.com.au/media/speech-introducing-the-national-security-legislation-amendment-espionage-an>
- 9 'Speech introducing the National Security Legislation Amendment (Espionage and Foreign Interference) Bill 2017', Malcolm Turnbull, 7-Dec-2017, <https://www.malcolmturnbull.com.au/media/speech-introducing-the-national-security-legislation-amendment-espionage-an>
- 10 '2017 memo prepared for PM warns of Beijing election interference', Global News, 8-Feb-2023, <https://globalnews.ca/news/9464937/security-memo-trudeau-china-election-interference/>
'Cyber Threats to Canada's Democratic Process', Communications Security Establishment, 2017, https://publications.gc.ca/collections/collection_2017/cstc-csec/D96-2-2017-eng.pdf
- 11 'CSIS Public Report 2021', Canadian Security Intelligence Service, Mar-2022, <https://www.canada.ca/en/security-intelligence-service/corporate/publications/csis-2021-public-report.html>
- 12 Robert Fife and Steven Chase, 'CSIS documents reveal Chinese strategy to influence Canada's 2021 election', The Globe and Mail, 17-Feb-2023, <https://www.theglobeandmail.com/politics/article-china-influence-2021-federal-election-csis-documents/>
- 13 Robert Fife and Steven Chase, 'Trudeau orders two probes into Chinese election interference', The Globe and Mail, 6-Mar-2023, <https://www.theglobeandmail.com/canada/article-trudeau-calls-for-two-probes-into-chinese-election-interference/>
- 14 'Gina Raimondo becomes China player in a job where her predecessor used to nap', Bloomberg, 1-Mar-2023, <https://www.bloomberg.com/news/articles/2023-03-01/chips-tiktok-make-gina-raimondo-vital-to-biden-china-policy>

- 15 'Relevance is the new Reach', TikTok for Business, 6-Sep-2021,
<https://www.tiktok.com/business/en/blog/relevance-is-the-new-reach>
- 16 'TikTok isn't silly. It's serious', The Economist, 15-Jan-2022,
<https://www.economist.com/business/2022/01/15/tiktok-isnt-silly-its-serious>
- 17 'Teens, Social Media and Technology 2022', Pew Research, 10-Aug-2022,
<https://web.archive.org/web/20221206040910/https://www.pewresearch.org/internet/2022/08/10/teens-social-media-and-technology-2022/>
- 'More Americans are getting news on TikTok, bucking the trend on other social media sites', Pew Research Center, 21-Oct-2022, <https://web.archive.org/web/20221206145508/https://www.pewresearch.org/fact-tank/2022/10/21/more-americans-are-getting-news-on-tiktok-bucking-the-trend-on-other-social-media-sites/>
- 'Thanks a billion!', TikTok, 27-Sep-2021,
<https://web.archive.org/web/20221204042730/https://newsroom.tiktok.com/en-us/1-billion-people-on-tiktok>
- David Curry, 'TikTok App Report 2023', Business of Apps, 21-Feb-2023,
<https://www.businessofapps.com/data/tiktok-report/>
- Brian Dean, 'TikTok User Statistics (2022)', Backlinko, 05-Jan-2022, <https://backlinko.com/tiktok-users>
- 'Complaint for injunctive and declaratory relief, TikTok Inc. and ByteDance Ltd.', United States District Court, Central District of California Western Division, 24-Aug-2020,
<https://web.archive.org/web/20220416021500/https://s3.documentcloud.org/documents/7043165/TikTok-Trump-Complaint.pdf>
- 'Average daily activation count : 43 times a day ! Teenagers are addicted to "TikTok" !', App Ape Lab, 26-Jul-2018, <https://en.lab.appa.pe/2018-07/addicted-to-tiktok.html>
- 18 'Digital 2022', We Are Social, Feb-2023, <https://wearesocial.com/au/blog/2022/01/digital-2022-another-year-of-bumper-growth/>
- 19 'As midterms loom, TikTok faces its next political test', Washington Post, 31-Oct-2022,
<https://web.archive.org/web/20221101010758/https://www.washingtonpost.com/technology/2022/10/31/tiktok-faces-2022-midterm-elections/>
- 20 'Gina Raimondo becomes China player in a job where her predecessor used to nap', Bloomberg, 1-Mar-2023,
<https://www.bloomberg.com/news/articles/2023-03-01/chips-tiktok-make-gina-raimondo-vital-to-biden-china-policy>
- 21 'TikTok exec: We're not a social network like Facebook, we're an entertainment platform', CNBC, 16-Jun-2022,
<https://web.archive.org/web/20221127025649/https://www.cnbc.com/2022/06/16/tiktok-were-an-entertainment-app-not-a-social-network-like-facebook.html>
- 22 'Our Mission', TikTok, <https://web.archive.org/web/20221121044107/https://www.tiktok.com/about?lang=en>
- 23 'TikTok's Power Prompts Serious Questions About Security', CNN, 3-Jul-2022,
<https://web.archive.org/web/20220815120817/https://transcripts.cnn.com/show/rs/date/2022-07-03/segment/01>
- Salman Aslam, 'TikTok by the Numbers: Stats, Demographics & Fun Facts', Omnicore, 6-Jan-2023,
<https://www.omnicoreagency.com/tiktok-statistics/#:~:text=TikTok%20stats%20indicate%20that%20the%20platform%20cloaked%20its,a%20total%20of%20over%203%20billion%20downloads%20globally>
- 24 Alex Hern, 'How TikTok's algorithm made it a success: "It pushes the boundaries"', The Guardian, 24-Oct-2022,
<https://web.archive.org/web/20221209092204/https://www.theguardian.com/technology/2022/oct/23/tiktok-rise-algorithm-popularity>
- 25 'Inside TikTok's Attempts to 'Downplay the China Association'', Gizmodo, 27-Jul-2022,
<https://web.archive.org/web/20221109195455/https://gizmodo.com/tiktok-master-messaging-pr-playbook-china-music-1849334736>
- 26 'Inside TikTok's Attempts to 'Downplay the China Association'', Gizmodo, 27-Jul-2022,
<https://web.archive.org/web/20221109195455/https://gizmodo.com/tiktok-master-messaging-pr-playbook-china-music-1849334736>
- 27 ByteDance, <https://web.archive.org/web/20201130234613/https://www.bytedance.com/en/>
- 28 '党建新闻', Beijing Internet Association, <https://archive.ph/1CsgL>
- '协会介绍', Beijing Internet Association, <https://archive.ph/txvAr>
- 29 'Privacy Policy', TikTok, 2-Apr-2022, <https://archive.md/T2aL7>
- 30 'China cyber threat overview and advisories', CISA, <https://www.cisa.gov/china>
- 'The China Threat', FBI, <https://www.fbi.gov/investigate/counterintelligence/the-china-threat>
- 31 'National Cyber Strategy 2022', HM Government, 15-Dec-2022,
https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/1053023/national-cyber-strategy-amend.pdf
- 'UK condemns Chinese cyber attacks against governments and businesses', National Cyber Security Centre, 16-Sept-2020, <https://www.ncsc.gov.uk/news/uk-condemns-chinese-cyber-attacks-against-businesses-governments>

- 32 'ACSC Annual Cyber Threat Report 202-2021', Australian Cyber Security Centre, 15-Sep-2021, <https://www.cyber.gov.au/sites/default/files/2021-09/ACSC%20Annual%20Cyber%20Threat%20Report%20-%202020-2021.pdf>
'Australia joins international partners in attribution of malicious cyber activity to China', Senator the Hon Marise Payne, the Hon Karen Andrews MP, the Hon Peter Dutton MP, 19-Jul-2021, <https://www.foreignminister.gov.au/minister/marise-payne/media-release/australia-joins-international-partners-attribution-malicious-cyber-activity-china>
- 33 'Commission strengthens cybersecurity and suspends the use of TikTok on its corporate devices', European Commission, 23-Feb-2023, https://ec.europa.eu/commission/presscorner/detail/en/ip_23_1161
'JP-23-01 - Sustained activity by specific threat actors', ENISA and CERT-EU, 15-Feb-2023, <https://cert.europa.eu/files/data/TLP-CLEAR-JointPublication-23-01.pdf>
- 34 'National Cyber Threat Assessment 2023/2024', Canadian Centre for Cyber Security, 2022, <https://www.cyber.gc.ca/sites/default/files/ncta-2023-24-web.pdf>
'Statement by Minister Fortier announcing a ban on the use of TikTok on government mobile devices', Treasury Board of Canada Secretariat, 27-Feb-2023, <https://www.canada.ca/en/treasury-board-secretariat/news/2023/02/statement-by-minister-fortier-announcing-a-ban-on-the-use-of-tiktok-on-government-mobile-devices.html>
Robert Fife and Steven Chase, 'CSIS documents reveal Chinese strategy to influence Canada's 2021 election', The Globe and Mail, 17-Feb-2023, <https://www.theglobeandmail.com/politics/article-china-influence-2021-federal-election-csis-documents/>
- 35 'New Zealand condemns malicious cyber activity by Chinese state-sponsored actors', Government Communications Security Bureau, 19-Jul-2021, <https://www.beehive.govt.nz/release/new-zealand-condemns-malicious-cyber-activity-chinese-state-sponsored-actors>
- 36 'Cyber Security Assessment Netherlands 2022', National Coordinator for Counterterrorism and Security, 4-Jul-2022, <https://english.nctv.nl/documents/publications/2022/07/04/cyber-security-assessment-netherlands-2022>
- 37 'Kaitsepolitsei Aastaraamat 2021-2022, KAPO, 12-Apr-2022, https://kapo.ee/sites/default/files/content_page_attachments/Aastaraamat_2021-22.pdf
'International Security and Estonia 2022', Estonian Foreign Intelligence Service, 31-Jan-2022, <https://www.valisluureamet.ee/doc/raport/2022-en.pdf>
- 38 'WARNING', National Cyber and Information Security Agency, 8-Mar-2023, https://www.nukib.cz/download/publications_en/2023-03-08_Warning-TikTok-App.pdf
- 39 'Cyber Operations Enabling Expansive Digital Authoritarianism', 7-Apr-2020, National Intelligence Council, <http://web.archive.org/web/20230217033234/https://www.dni.gov/files/ODNI/documents/assessments/NICM-Declassified-Cyber-Operations-Enabling-Expansive-Digital-Authoritarianism-20200407--2022.pdf>
- 40 See our technical analysis of the TikTok Android app in Section 8 for details of potential data collection overreach and user data security concerns. See also:
'Leaked Audio From 80 Internal TikTok Meetings Shows That US User Data Has Been Repeatedly Accessed From China', BuzzFeed, 17-Jun-2022, <https://www.buzzfeednews.com/article/emilybakerwhite/tiktok-tapes-us-user-data-china-bytedance-access>
'Privacy Analysis of TikTok's App and Website', Rufposten, 5-Dec-2019, <https://rufposten.de/blog/2019/12/05/privacy-analysis-of-tiktoks-app-and-website/>
- 41 'EXCLUSIVE: TikTok Spied on Forbes Journalists', Forbes, 22-Dec-2022, <https://www.forbes.com/sites/emilybaker-white/2022/12/22/tiktok-tracks-forbes-journalists-bytedance/?sh=5aebf8af7da5>
'TikTok Parent ByteDance Planned to Use TikTok to Monitor The Physical Location Of Specific American Citizens', Forbes, 20-Oct-2022, <https://www.forbes.com/sites/emilybaker-white/2022/10/20/tiktok-bytedance-surveillance-american-user-data/?sh=436b90e36c2d>
'Leaked Audio From 80 Internal TikTok Meetings Shows That US User Data Has Been Repeatedly Accessed From China', BuzzFeed News, 18-Jun-2022, <https://www.buzzfeednews.com/article/emilybakerwhite/tiktok-tapes-us-user-data-china-bytedance-access>
- 42 'Data brokers and national security', Lawfare, 29-Apr-2021, <https://www.lawfareblog.com/data-brokers-and-national-security>
'China harvest masses of data on Western targets, documents show,' The Washington Post, 31-Dec-2021, https://www.washingtonpost.com/national-security/china-harvests-masses-of-data-on-western-targets-documents-show/2021/12/31/3981ce9c-538e-11ec-8927-c396fa861a71_story.html
'How China harnesses data fusion to make sense of surveillance data,' Brookings, 23-Sep-2021, <https://www.brookings.edu/techstream/how-china-harnesses-data-fusion-to-make-sense-of-surveillance-data/>
'Baby Biocode: China's gene giant harvests data from millions of women,' Reuters, 7-Jul-2021, <https://www.reuters.com/investigates/special-report/health-china-bgi-dna/>
Lotus Ruan, 'When the winner takes it all: Big data in China and the battle for privacy,' ASPI Report No. 5/2018, https://ad-aspi.s3.ap-southeast-2.amazonaws.com/2018-06/Winner%20takes%20it%20all_0.pdf?VersionId=r0DDh71qxQgqWtX8z8tmScoz55JQVyc

- Samantha Hoffman and Nathan Attrill, 'Mapping China's technology giants: Supply chains and the global data collection ecosystem,' ASPI Report No. 45/2021, https://ad-aspi.s3.ap-southeast-2.amazonaws.com/2021-06/Supply%20chains.pdf?VersionId=56J_tt8xYXYvsMuhriQt5dSsr92ADaZH
- Emile Dirks and James Leibold, 'Genomic surveillance: Inside China's DNA dragnet,' ASPI Report No. 34/2020, https://ad-aspi.s3.ap-southeast-2.amazonaws.com/2020-06/Genomic%20surveillance_1.pdf?VersionId=QhPFyrNVaSjvblmFT24HRXSuHyRfhpmI
- 'Why TikTok is the latest security threat,' Center for Internet Security, <https://www.cisecurity.org/insights/blog/why-tiktok-is-the-latest-security-threat>
- 43 'Five Individuals Charged Variously with Stalking, Harassing and Spying on U.S. Residents on Behalf of the PRC Secret Police', US Department of Justice, 16-Mar-2022, <https://web.archive.org/web/20221231145316/https://www.justice.gov/opa/pr/five-individuals-charged-variously-stalking-harassing-and-spying-us-residents-behalf-prc-0#:~:text=United%20States%20v.%20Qiming%20Lin>
- 44 'TikTok Parent ByteDance Planned To Use TikTok To Monitor The Physical Location Of Specific American Citizens', Forbes, 20-Oct-2022, <https://www.forbes.com/sites/emilybaker-white/2022/10/20/tiktok-bytedance-surveillance-american-user-data/?sh=746cf0266c2d>
- 'Why TikTok is the latest security threat', Center for Internet Security, <https://www.cisecurity.org/insights/blog/why-tiktok-is-the-latest-security-threat>
- 45 'Social Media and News Fact Sheet,' Pew Research, 20-Sep-2022, <https://www.pewresearch.org/journalism/fact-sheet/social-media-and-news-fact-sheet/>
- 46 'TikTok's state-affiliated media policy', TikTok, 18-Jan-2023, <https://web.archive.org/web/20230203101952/https://newsroom.tiktok.com/en-us/tiktoks-state-affiliated-media-policy>
- 47 '大数据下的网络舆情应对', Cyberspace Administration of China, 29-Dec-2016, https://web.archive.org/web/20220520173515/http://www.cac.gov.cn/2016-12/29/c_1120214456.htm
- '人工智能、大数据与对外传播的创新发展', International Communications via People's Daily, 18-Apr-2019, <https://web.archive.org/web/20220523174958/http://media.people.com.cn/n1/2019/0418/c40628-31037065-2.html>
- 'Evaluating the Utility of Global Data Collection by Chinese Firms for Targeted Propaganda', Jamestown, 30-Oct-2020, <https://web.archive.org/web/20220929152445/https://jamestown.org/program/evaluating-the-utility-of-global-data-collection-by-chinese-firms-for-targeted-propaganda/>
- 48 Lili Turner and Nirit Hinkis, 'Chinese state media's global influencer operation', Miburo, 31-1-2022, <https://miburo.substack.com/p/csm-influencer-ops-1>
- Nirit Hinkis and Lili Turner, 'Chinese state media's global influencer operation: Why it matters', Miburo, 10-Feb-2021, <https://miburo.substack.com/p/chinese-state-medias-global-influencer>
- Fergus Ryan, Audrey Fritz and Daria Impiombato, 'TikTok and WeChat: Curating and controlling global information flows', ASPI Policy Brief No. 37/2020, <https://ad-aspi.s3.ap-southeast-2.amazonaws.com/2020-09/TikTok%20and%20WeChat.pdf?VersionId=7BNJWaoHImPVE.6KKcBP1JRD5fRnAVTZ>
- Fergus Ryan, Daniella Cave and Vicky Xiuzhong Xu, 'Mapping more of China's technology giants: AI and surveillance,' ASPI Issues Paper No. 24/2019, <https://archive.md/wip/wP051>
- Albert Zhang, Jacob Wallis and Zoe Meers, 'Strange bedfellows on Xinjiang: The CCP, fringe media and US social media platforms,' ASPI, March 2021, http://web.archive.org/web/20221001172836/https://ad-aspi.s3.ap-southeast2.amazonaws.com/202103/Strange%20bedfellows.pdf?VersionId=mOh5mC5B_a08J6ntNwTC2q6GdjtWz4di
- Fergus Ryan, Ariel Bogle, Nathan Ruser, Albert Zhang and Daria Impiombato, 'Borrowing mouths to speak on Xinjiang,' ASPI Policy Brief No. 55/2021, <https://archive.md/yMRjM>
- Fergus Ryan, Daria Impiombato and Hsi-Ting Pai, 'Frontier influencers: The new face of China's propaganda,' ASPI Policy Brief No. 65/2022, <https://archive.md/MWUBv>
- Samantha Bradshaw, 'Influence operations and disinformation on social media,' Centre for International Governance Innovation, 23-Nov-2020, <https://archive.md/jMHuK>
- 49 Matthew Johnson, 'Safeguarding socialism: The origins, evolution, and expansion of China's total national security paradigm,' Sinopsis, 11-Jun-2020, <https://sinopsis.cz/en/johnson-safeguarding-socialism/>
- 50 Matthew Johnson, 'Safeguarding socialism: The origins, evolution, and expansion of China's total national security paradigm,' Sinopsis, 11-Jun-2020, <https://sinopsis.cz/en/johnson-safeguarding-socialism/>
- 51 John Fitzgerald, 'Beijing's Guoqing versus Australia's Way of Life', Inside Story, 27-Sept-2015, <https://insidestory.org.au/beijings-guoqing-versus-australias-way-of-life/>
- '中共中央关于加强党的执政能力建设的决定', Xinhua Net via 中央政府门户网站, 20-Aug-2008, <http://archive.today/zxuz6>
- 52 Matthew Johnson, 'Safeguarding socialism: The origins, evolution, and expansion of China's total national security paradigm,' Sinopsis, 11-Jun-2020, <https://sinopsis.cz/en/johnson-safeguarding-socialism/>
- 53 '习近平在中共中央政治局第三十次集体学习时强调: 加强和改进国际传播工作 展示真实立体全面的中国', People's Daily, 2-Jun-2021, <http://archive.today/E8T2y>

- 54 '中共中央关于全面深化改革若干重大问题的决定', Xinhua Net via 中央政府门户网站, 15-Nov-2013, <https://archive.ph/hs5gH>
- 55 '中共中央关于全面深化改革若干重大问题的决定', Xinhua Net via 中央政府门户网站, 15-Nov-2013, <https://archive.ph/hs5gH>
- 56 '习近平引领国际传播能力建设', CCTV via People's Daily, 14-Jun-2022, <http://archive.today/RYZkr>
- 57 '习近平: 讲好中国故事, 传播好中国声音', Qiushi, 2-Jun-2021, <http://archive.today/II79B>
- 58 '习近平: 讲好中国故事, 传播好中国声音', Qiushi, 2-Jun-2021, <http://archive.today/II79B>
- 59 '习近平在中央政治局第二十六次集体学习时强调 坚持系统思维构建大安全格局 为建设社会主义现代化国家提供坚强保障', Xinhua, 12-Dec-2020, <https://archive.vn/gQpAO>
- 60 'Profile (English-language): "Yuan Peng"', CICIR, <https://archive.vn/wip/qYiDo>
- 61 《国际战略与安全形势评估 2020/2021》卷首语, CICIR, 31-Dec-2020, <https://archive.vn/Xsnnq>
- 62 '港媒: 美国问题专家袁鹏 改名袁亦鲲出任国安部副部长', Lianhe Zaobao, 22-Feb-2023, <https://archive.md/CECOq>
- 63 '习近平: 讲好中国故事, 传播好中国声音', Qiushi, 2-Jun-2021, <http://archive.today/II79B>
- 64 'The party speaks for you: Foreign interference and the Chinese Communist Party's united front system', Australian Strategic Policy Institute, 9-Jun-2020, <https://www.aspi.org.au/report/party-speaks-you>
- 65 '让短视频平台展示好中国形象传播好中国声音', Xinhua, 6-Aug-2021, <http://archive.today/qk00A>
- 66 '让短视频平台展示好中国形象传播好中国声音', Xinhua, 6-Aug-2021, <http://archive.today/qk00A>
- 67 Paul Saba, 'On the Role of Agitation and Propaganda (Transcription)', Encyclopedia of Anti-Revisionism On-Line, originally published Dec-1978, <https://www.marxists.org/history/erol/ncm-8/rcp-agit-prop.htm>
- 'Talks at the Yen'an Forum on Literature and Art', Selected Works of Mao Tse-tung, 2-May-1942, https://www.marxists.org/reference/archive/mao/selected-works/volume-3/mswv3_08.htm
- '24. Correcting Mistaken Ideas', Quotations from Mao Tse Tung, 5-Mar-1949, <https://www.marxists.org/reference/archive/mao/works/red-book/ch24.htm>
- 70 'Analysis of the Classes in Chinese Society', Selected Works of Mao Tse-Tung, Mar-1926, https://web.archive.org/web/20230217043746/https://www.marxists.org/reference/archive/mao/selected-works/volume-1/mswv1_1.htm
- 71 'Document 9: A ChinaFile Translation', ChinaFile, 8-Nov-2013, <https://web.archive.org/web/20230217043230/https://www.chinafile.com/document-9-chinafile-translation>
- 72 Rogier Creemers, 'Xi Jinping's 19 August speech revealed? (Translation)', China Copyright and Media, 12-Nov-2013, <https://chinacopyrightandmedia.wordpress.com/2013/11/12/xi-jinpings-19-august-speech-revealed-translation/>
- 73 '网传习近平 8•19 讲话全文: 言论方面要敢抓敢管敢于亮剑', 中国数字时代 China Digital Times, 4-Nov-2013, <https://archive.vn/mtvA1>
- 74 Lily Kuo, 'Chinese journalists to be tested on loyalty to Xi Jinping', The Guardian, 20-Sep-2019, <https://www.theguardian.com/world/2019/sep/20/chinese-journalists-to-be-tested-on-loyalty-to-xi-jinping>
- 75 Willy Lam, 'Beijing Harnesses Big Data & AI to Perfect the Police State', The Jamestown Foundation, 21-Jul-2017, <https://jamestown.org/program/beijing-harnesses-big-data-ai-to-perfect-the-police-state/>
- 76 Liat Clark, 'China wants police installed in every internet company', Wired, 05-Aug-2015, <https://www.wired.co.uk/article/china-cyber-security-police-in-internet-headquarters>
- Liza Lin and Josh Chin, 'China's Tech Giants Have a Second Job: Helping Beijing Spy on Its People', The Wall Street Journal, 30-Nov-2017, <https://www.wsj.com/articles/chinas-tech-giants-have-a-second-job-helping-the-government-see-everything-1512056284>
- 77 John Garnaut, 'Hong Kong's outspoken media chiefs are facing growing intimidation', The Sydney Morning Herald, 30-May-2014, <https://www.smh.com.au/world/hong-kongs-outspoken-media-chiefs-are-facing-growing-intimidation-20140530-399ol.html>
- John Garnaut, 'Australia's China reset', The Monthly, Aug-2018, <https://www.themonthly.com.au/issue/2018/august/1533045600/john-garnaut/australia-s-china-reset#mtr>
- 79 'Asia-Pacific Absolute and autocratic control of information', Reporters Without Borders, <https://rsf.org/en/classement/2022/asia-pacific>
- 80 学而时习, '习近平: 讲好中国故事, 传播好中国声音', Qiushi, 2-Jun-2021, <http://archive.today/II79B>
- '习近平在中央政治局第三十次集体学习时强调: 加强和改进国际传播工作 展示真实立体全面的中国', People's Daily, 2-Jun-2021, <http://archive.today/E8T2y>
- 81 '中华人民共和国网络安全法', Xinhua, 7-Nov-2016, <https://archive.ph/lwrOs>
- 82 '科学大数据——国家大数据战略的基石', China Development Gateway, 7-Sep-2017, <https://archive.md/PkLNF>
- 83 '中华人民共和国国民经济和社会发展第十四个五年规划和 2035 年远景目标纲要' (transmitted March 12, 2021), Xinhua, March 13, 2022, <https://archive.ph/ZTF2U>

- ‘工业和信息化部关于印发大数据产业发展规划（2016 – 2020 年）的通知’, MIIT, December 18, 2016, <https://archive.ph/qa4Zx>
- 84 “十四五”大数据产业发展规划’, MIIT, November 2021, <https://archive.ph/hhRHt>
- 85 ‘中华人民共和国国家安全法（主席令第二十九号）’, 中央政府门户网站, 1-Jul-2015, <https://archive.md/xhfrx>
- 86 ‘中华人民共和国国家情报法’, 中国人大网, 12-Jun-2018, <https://archive.md/EvpjJ>
- 87 ‘中华人民共和国网络安全法’, CAC, 7-Nov-2016, <https://archive.ph/lwrOs>
- 88 ‘中华人民共和国数据安全法’, 中国人大网, 10-Jun-2021, <https://archive.md/IMQL0>
- 89 ‘中华人民共和国个人信息保护法’, 中国人大网, 20-Aug-2021, <https://archive.md/2cifD>
- Zach Dorfman, ‘Tech giants are giving China a vital edge in espionage,’ *Foreign Policy*, 23-Dec-2020, <https://foreignpolicy.com/2020/12/23/china-tech-giants-process-stolen-data-spy-agencies/>
- 90 Zach Dorfman, ‘Tech giants are giving China a vital edge in espionage,’ *Foreign Policy*, 23-Dec-2020, <https://foreignpolicy.com/2020/12/23/china-tech-giants-process-stolen-data-spy-agencies/>
- 91 ‘人工智能新赛场 – 中美对比’, CCID, May-2017, and 朱启超, 王婧凌, 李大光, ‘工智能叩开智能化战争大门’, *PLA Daily*, 23-Jan-2017, in Elsa B. Kania, ‘Battlefield Singularity: Artificial Intelligence, Military Revolution, and China’s Future Military Power,’ *Center for New American Security*, Nov-2017, <https://s3.us-east-1.amazonaws.com/files.cnas.org/hero/documents/Battlefield-Singularity-November-2017.pdf?mtime=20171129235805&focal=none>, p. 11
- 92 ‘Cyber Operations Enabling Expansive Digital Authoritarianism’, *National Intelligence Council*, 7-Apr-2020, <https://archive.md/lk3GK>
- 93 ‘中国人民解放军政治工作条例（节选）’, 十六大以来重要文献选编上 via *China Reform Data*, 5-Dec-2003, <https://archive.vn/xbKE6>
- 94 ‘中国人民解放军政治工作条例’, 《中央党内法规和规范性文件汇编》（1949 年 10 月—2016 年 12 月） via CCP Central Propaganda Department website, 9-Aug-2010, <https://archive.vn/zrmmu>
- 95 中国人民解放军军事科学院军事战略研究部, 《战略学》（2013 年版）, 军事科学出版社, 2013, p. 116. An English-language translation of the text is available from the China Aerospace Studies Institute, see Academy of Military Science Military Strategy Studies Department, *The Science of Military Strategy* (2013 Edition), Beijing: Military Science Press, 2013, <https://www.airuniversity.af.edu/CASI/Display/Article/2485204/plas-science-of-military-strategy-2013/>
- 96 中国人民解放军军事科学院军事战略研究部, 《战略学》（2013 年版）, 军事科学出版社, 2013, p. 116. See Academy of Military Science Military Strategy Studies Department, *The Science of Military Strategy* (2013 Edition), Beijing: Military Science Press, 2013, <https://www.airuniversity.af.edu/CASI/Display/Article/2485204/plas-science-of-military-strategy-2013/>
- 97 ‘习近平首次军队训词意义重大’, *Study China* via *People’s Daily*, 3-Jan-2016, <https://archive.vn/gNgJK>
- 98 陳津萍 和 張貽智, ‘軍改後中共「中央軍委政治工作部」組織與職能之研究’, *軍事社會科學專刊*, Aug-2019: pp. 27-50
- 99 ‘李弼程, 胡华平, 熊尧, ‘网络舆情引导智能代理模型’, *国防科技*, 2019, <https://archive.md/QdOcx>
- 100 Elsa B. Kania, ‘Battlefield Singularity: Artificial Intelligence, Military Revolution, and China’s Future Military Power,’ *Center for New American Security*, Nov-2017, <https://s3.us-east-1.amazonaws.com/files.cnas.org/hero/documents/Battlefield-Singularity-November-2017.pdf?mtime=20171129235805&focal=none>
- c.f. 刘全展, 李波, ‘大数据：信息化作战的制胜法宝’, *PLA Daily*, 15-Nov- 2015, in Elsa B. Kania, ‘Battlefield Singularity: Artificial Intelligence, Military Revolution, and China’s Future Military Power,’ *Center for New American Security*, Nov-2017, <https://s3.us-east-1.amazonaws.com/files.cnas.org/hero/documents/Battlefield-Singularity-November-2017.pdf?mtime=20171129235805&focal=none>, p. 27
- 101 ‘About ByteDance’, *ByteDance*, <https://web.archive.org/web/20191003163728/https://bytedance.com/en/about#leadership>
- Sam Byford, ‘How China’s ByteDance became the world’s most valuable startup’, *The Verge*, 30-Nov-2018, <https://archive.ph/EcHxq>
- 102 ‘海纳亚洲基金王琼：张一鸣在一张餐巾纸上画出了头条的产品原型’, *ZTHC*, 12-Jun-2022, <https://web.archive.org/web/20221117091553/https://m.zhongtoutu.com/h-nd-2913.html>
- 103 ‘风暴中的张一鸣：“创富神兽”让身家充满变数’, *21st Century Business Herald*, 6-Aug-2020, <https://archive.ph/bsulN>
- 104 “饭否”归来 尚能饭否’, *CYOL*, 2-Dec-2010, <https://archive.ph/n0pvW>
- ‘作者介绍’, *Chongzou*, <https://archive.ph/NnQYB>
- 105 “饭否”归来 尚能饭否’, *CYOL*, 2-Dec-2010, <https://archive.ph/n0pvW>
- 106 ‘微博网站“饭否”关闭一年多后重新开放’, *BBC*, 30-Nov-2010, https://web.archive.org/web/20221209070202/https://www.bbc.com/zhongwen/simp/china/2010/11/101130_chi_na_fanfou_internet

- 107 '南开校友、今日头条创始人张一鸣在 2016 级新生开学典礼上的讲话', Nankai University, 19-Sep-2016, <https://web.archive.org/web/20221209053808/https://cs.nankai.edu.cn/info/1039/2356.htm>
- 108 '网络空间，年轻创业者在这里逐梦', People's Daily, 18-Apr-2013, <https://archive.ph/llPyf>
- 109 '这个龙岩 80 后要怒砸 10 亿抢占下一个风口', Sina Fujian, <https://archive.ph/tbnsq>
- 110 '这个龙岩 80 后要怒砸 10 亿抢占下一个风口', Sina Fujian, <https://archive.ph/tbnsq>
- 111 "'饭否"归来 尚能饭否', CYOL, 2-Dec-2010, <https://archive.ph/n0pvW>
- '微博网站"饭否"关闭一年多后重新开放', BBC, 30-Nov-2010, https://web.archive.org/web/20221209070202/https://www.bbc.com/zhongwen/simp/china/2010/11/101130_china_fanfou_internet
- 112 '解码酷讯创业帮：张一鸣这些 80 后老板们的"黄埔军校"', Economic Observer Network, 3-Sep-2016, <https://archive.ph/lqxue>
- 113 '海纳亚洲王琼自述：为何投资今日头条？', Huxiu, 5-Apr-2016, <https://archive.ph/x1SMJ>
- 114 '这个龙岩 80 后要怒砸 10 亿抢占下一个风口', Sina Fujian, <https://archive.ph/tbnsq>
- 115 Yue Wang, 'Billionaire Zhang Yiming Steps Down As ByteDance Chairman', Forbes, 3-Nov-2021, <https://www.forbes.com/sites/ywang/2021/11/03/billionaire-zhang-yiming-steps-down-as-bytedance-chairman/?sh=57548d2e7016>
- 116 '36 氪独家 | 字节跳动搭建"直播大中台"，张一鸣想在广告之外寻觅第二台"赚钱机器"', 36kr, 19-Mar-2019, <https://archive.ph/iL3OU>
- '从字节跳动"拆中台"寻找巨头中台演进的草蛇灰线', Jiemian, 11-Nov-2021, <https://archive.ph/ftPv6>
- 117 '张一鸣首谈字节跳动创业 7 年：我们不是 APP 工厂，是一个浪漫的公司', National Business Daily, 14-Mar-2019, <https://archive.ph/FMpPh>
- 118 'ByteDance CEO returns to the apartment where he first started the company', YouTube (ByteDance channel), 30-Jul-2020, https://www.youtube.com/watch?v=TIYPXpfA7_Q
- 119 '张一鸣的"上帝视角"', Pingwest, 15-Jun-2015, <https://web.archive.org/web/20221118014848/https://www.pingwest.com/a/51495>
- 120 '字节跳动二号人物登场', Jiemian via Sohu, 14-Mar-2020, <https://archive.ph/yWrXs>
- '张一鸣首谈字节跳动创业 7 年：我们不是 APP 工厂，是一个浪漫的公司', National Business Daily, 14-Mar-2019, <https://archive.ph/FMpPh>
- 121 '张一鸣退出字节跳动全球董事会，梁汝波与八名核心高管走向前台', LatePost via WeChat, 2-Nov-2021, <https://web.archive.org/web/20211127192008/https://mp.weixin.qq.com/s/TkpV2ux3ibqj372c39cApg>
- '新加入视频功能的读图应用"图吧"，想借读图构建用户的兴趣图谱', 36kr, 28-Jun-2013, <https://archive.ph/ckyUU>
- 122 '海纳亚洲王琼自述：为何投资今日头条？', Huxiu, 6-Apr-2016, <https://archive.ph/x1SMJ>
- Ryan Mac and Chang Che, 'TikTok's C.E.O. Navigates the Limits of His Power', New York Times, 16-Sep-2022, <https://web.archive.org/web/20221114134158/https://www.nytimes.com/2022/09/16/technology/tiktok-ceo-shou-zi-chew.html>
- Yunan Zhang and Juro Osawa, 'Tencent, Xiaomi Invested in TikTok's Parent, ByteDance', The Information, 20-Aug-2020, <https://www.theinformation.com/articles/tencent-xiaomi-invested-in-tiktoks-parent-bytedance?rc=zcbseh>
- 123 Murray Newlands, 'The Origin and Future Of America's Hottest New App: musical.ly', Forbes, 10-Jun-2016, <https://archive.ph/zTHL4>
- 124 'Petition for review, TikTok Inc. and ByteDance Ltd., Petitioners', The United States Court Of Appeals For The District Of Columbia Circuit, 10-Nov-2020, <https://web.archive.org/web/20210928143950/https://www.courthousenews.com/wp-content/uploads/2020/11/tiktok-cadc-petition.pdf>
- 125 '今日头条收购 Mus cal.ly：海外野心与引信型公司宿命', Jiemian, 13-Nov-2017, <https://archive.ph/YZL3C>
- 'Mus cal.ly CEO 阳陆育：C 轮前投资方全部退出', Yicai, 13-Nov-2017, <https://archive.ph/Ma6QW>
- '微视努力撕掉抄袭标签 能否复制抖音增长轨迹？', Sina Tech via WeChat, 23-May-2018, <https://archive.ph/ELz6k>
- 'Petition for review, TikTok Inc. and ByteDance Ltd., Petitioners', The United States Court Of Appeals For The District Of Columbia Circuit, 10-Nov-2020, <https://web.archive.org/web/20210928143950/https://www.courthousenews.com/wp-content/uploads/2020/11/tiktok-cadc-petition.pdf>
- 126 '机会面前，拼的是速度 | 21 读书', 21st Century Business Herald via China Fund, 23-Oct-2021, <https://archive.ph/GSj2X>
- 127 'Can pop music connect teens in China with the world? Musical.ly co-founder Louis Yang wants to find out', The China Project, 13-Sep-2017, <https://archive.ph/wQ9kU>

- 128 John Herrman, 'Who's Too Young for an App? Musical.ly Tests the Limits', New York Times, 16-Sep-2016, <https://web.archive.org/web/20221102192402/https://www.nytimes.com/2016/09/17/business/media/a-social-network-frequented-by-children-tests-the-limits-of-online-regulation.html>
- 129 'The most popular users on musical.ly', DW, 19-Oct-2016, <https://archive.ph/z4XFm>
- 129 '今日头条张一鸣: 短视频是内容创业的下一个风口', Sina, 20-Sep-2016, <https://web.archive.org/web/20221118040558/http://tech.sina.com.cn/i/2016-09-20/doc-ifxyqvy6859414.shtml>
- 130 Benita Zhang, '抖音内幕: 时间熔炉的诞生', Tencent News via Huxiu, 26-Oct-2020, <https://archive.ph/pgGxT>
- 131 '大事记', ByteDance, <https://web.archive.org/web/20230308045944/https://www.bytedance.com/zh/>
- '谁在管理 TikTok: 没有中心的网状组织、字节的全球化构想', LatePost via Laohu8, 7-Apr-2022, <https://archive.ph/yLV9W>
- 132 'TikTok 内幕: 张一鸣的巨浪征途', Jiemiao via Sina, 25-Apr-2022, <https://archive.ph/geqqt>
- '【爆料】Mus cal.ly 为何卖给了头条而不是出价更高的快手', iFeng, 10-Nov-2017, https://web.archive.org/web/20230308174817/https://tech.ifeng.com/a/20171110/44755384_0.shtml
- 'Musical.ly has lots of users, not much ad traction', Digiday, 5-Sep-2017, <https://archive.ph/giB5r>
- 'From Musers To Money: Inside Video App Musical.ly's Coming Of Age', Forbes, 11-May-2017, <https://archive.ph/NxiD0>
- 133 '大事记', ByteDance, <https://web.archive.org/web/20230308045944/https://www.bytedance.com/zh/>
- 'China's ByteDance buying lip-sync app Musical.ly for up to \$1 billion', Reuters, 10-Nov-2017, <https://www.reuters.com/article/us-musical-ly-m-a-bytedance-idUSKBN1DA0BN>
- '字节跳动收购的 musical.ly 正式并入 Tik Tok', Sina Tech, 2-Aug-2018, <https://archive.ph/Cmh5A>
- 134 'TikTok 内幕: 张一鸣的巨浪征途', Jiemiao via Sina, 25-Apr-2022, <https://archive.ph/geqqt>
- 135 '大事记', ByteDance, <https://web.archive.org/web/20230308045944/https://www.bytedance.com/zh/>
- Georgia Wells and Yang Jie, 'TikTok's Videos Are Goofy. Its Strategy to Dominate Social Media Is Serious.' The Wall Street Journal, 29-Jun-2019, <https://web.archive.org/web/20220930033958/https://www.wsj.com/articles/tiktoks-videos-are-goofy-its-strategy-to-dominate-social-media-is-serious-11561780861>
- 136 '沈南鹏: 王兴、张一鸣给我的启发和感受', China Businessman via FX361, 7-May-2021, <https://archive.ph/Th5E5>
- 137 '第二届中韩互联网圆桌会议', Xinhua, 2013, <https://archive.ph/hYgD0>
- 138 '首届世界互联网大会开幕 业界大佬齐聚乌镇', Yicai, 19-Nov-2014, <https://web.archive.org/web/20230101171859/https://www.yicai.com/news/4042409.html>
- 139 '鲁炜: 世界互联网大会实现了 3 个 C to C', Caixin, 19-Nov-2014, <https://archive.ph/dg7jL>
- '今日头条 CEO 张一鸣: 机器解放媒体人', Caixin, 19-Nov-2014, <https://archive.ph/q8rw8>
- 140 'China-US Internet Industry Forum opens in Washington DC', China Daily via gov.cn, 14-Dec-2014, <https://archive.ph/3lyph>
- 141 '互联网信息办公室主任鲁炜在美把库克贝索斯小扎见了个遍 #硅谷史上最美图片集不服来辩#, Huxiu, 7-Dec-2014, <https://archive.ph/0sr65>
- 142 'Chinese Internet regulator welcomed at Facebook campus', Reuters, 8-Dec-2014, <https://archive.ph/6Ku2C>
- '除了大合照, 中美论坛上大佬们还聊了什么?', China.org.cn, 24-Sep-2015, <https://archive.ph/vOM6j>
- '随习主席访美互联网公司除 BAT 还有哪些', Sina Finance, 22-Sep-2015, <https://archive.ph/fzghw>
- 143 '除了大合照, 中美论坛上大佬们还聊了什么?', China.org.cn, 24-Sep-2015, <https://archive.ph/vOM6j>
- 144 '专访张一鸣: 中国企业完全有能力在海外拓展', Global Times, 30-Sep-2015, <https://archive.ph/ruVnu>
- 145 'What's in a picture? The unspoken messages in Xi Jinping's group portrait with CEOs and senior executives during his first state visit to the US', SCMP, https://www.scmp.com/tech/leaders-founders/article/1861033/whats-picture-unspoken-messages-xi-jinpings-group-portrait?module=perpetual_scroll_0&pgtype=article&campaign=1861033
- 146 '第二届世界互联网大会', Huanqiu, <https://archive.ph/nxPHP>
- 147 '第二届世界互联网大会', Huanqiu, <https://archive.ph/nxPHP>
- 148 '中共中央宣传部原副部长鲁炜 涉嫌严重违纪接受组织审查', CCDI via gov.cn, 22-Nov-2017, <https://archive.ph/dmnzt>
- 149 '中央宣传部原副部长、中央网信办原主任鲁炜, 山东省政府原党组成员、副省长季缙绮严重违纪被开除党籍和公职', CCDI, 13-Dec-2018, https://web.archive.org/web/20221124050712/https://www.ccdi.gov.cn/toutiao/201802/t20180213_164223.html
- '中宣部原副部长鲁炜受贿 3200 万 判 14 年罚金 300 万', Xinhua via Sina, 26-Mar-2019, <https://archive.ph/7L1ZS>
- 'China's Former Top Internet Regulator Gets 14 Years for Corruption', WSJ, 26-Mar-2019, <https://archive.ph/2NM91>

- 150 “内涵段子”被永久关停, Xinhua, 10-Apr-2018,
https://web.archive.org/web/20220625025726/http://www.xinhuanet.com/politics/2018-04/10/c_129847557.htm
- 151 ‘端传媒 | 两千万日活的手机应用为何被突然斩杀?’, China Digital Times, 21-Apr-2018, <https://archive.md/tjF8b>
- 152 ‘争雄 BAT “头条帝国”何以崛起’, Caixin via Zhihu, 8-Feb-2020, <https://archive.ph/CFRLk>
- 153 ‘Complaint for injunctive and declaratory relief, TikTok Inc. and ByteDance Ltd.’, United States District Court, Central District of California Western Division, 24-Aug-2020,
<https://web.archive.org/web/20220416021500/https://s3.documentcloud.org/documents/7043165/TikTok-Trump-Complaint.pdf>
- 154 ‘中国共产党章程’, 12371.cn [Organisation Department], 22-Oct-2022,
<https://web.archive.org/web/20221126151852/http://www.12371.cn/2022/10/26/ART11666788342244946.shtml>
- 155 ‘小丫专访张一鸣: 我不是“新闻搬运工”’, CCTV, 27-Aug-2014,
<https://web.archive.org/web/20221115070825/http://jingji.cntv.cn/2014/08/27/ART11409120412396179.shtml>
- 156 ‘今日头条创始人回应低俗质疑: 从不主动 push 低俗内容’, Caijing via Sina, 14-Dec-2016,
<https://web.archive.org/web/20220708100249/http://tech.sina.com.cn/i/2016-12-14/doc-ifxyipt1331463.shtml>
- 157 ‘国家版权局对“今日头条”立案调查’, People’s Daily, 24-Jun-2014, <https://archive.ph/rR4mn>
- 158 ‘小丫专访张一鸣: 我不是“新闻搬运工”’, CCTV, 27-Aug-2014,
<https://web.archive.org/web/20221115070825/http://jingji.cntv.cn/2014/08/27/ART11409120412396179.shtml>
- 159 ‘国家版权局对“今日头条”立案调查’, People’s Daily, 24-Jun-2014, <https://archive.ph/rR4mn>
- 160 ‘国家版权局确认“今日头条”侵权: 积极整改是好现象’, People’s Daily, 16-Sep-2014, <https://archive.ph/1StWt>
- 161 Li Yuan, ‘China’s TikTok Blazes New Ground. That Could Doom It.’, New York Times, 5-Nov-2019,
<https://web.archive.org/web/20220930033958/https://www.nytimes.com/2019/11/05/business/tiktok-china-bytedance.html>
- 162 ‘今日头条创始人回应低俗质疑: 从不主动 push 低俗内容’, Caijing via Sina, 14-Dec-2016,
<https://web.archive.org/web/20220708100249/http://tech.sina.com.cn/i/2016-12-14/doc-ifxyipt1331463.shtml>
- 163 ‘北京网信办约谈今日头条、凤凰新闻手机客户端负责人 两家企业将暂停部分频道内容更新’, People’s Daily, 29-Dec-2017, <https://archive.ph/awbil>
- 164 ‘互联网不良内容的监管升级 微信微博今日头条纷纷自查’, Beijing News via China News, 12-Apr-2018,
<https://archive.ph/7DUhu>
- 165 ‘未成年怀孕成“网红”? 被央视点名的快手、火山小视频下架整改!’, National Business Daily, 6-Apr-2018,
<https://archive.ph/iuwhD>
- 166 ‘4 款 APP 被下架 今日头条暂停下载 3 周’, The Beijing News, 10-Apr-2018, <https://archive.ph/73Ddc>
- 167 ‘张一鸣宣布卸任字节跳动 CEO, 联合创始人梁汝波将接任’, The Paper, 20-May-2021, <https://archive.ph/fSp5h>
- 168 ‘字节跳动创始人张一鸣已卸任董事长 退出董事会--消息人士 (更新版)’, Reuters, 3-Nov-2021,
<https://www.reuters.com/article/bytedance-reshuffling-1103-wedn-idCNKBS2HO06L>
- 169 ‘北京网信办约谈今日头条、凤凰新闻手机客户端负责人 两家企业将暂停部分频道内容更新’, People’s Daily, 29-Dec-2017, <https://archive.ph/awbil>
- 170 ‘今日头条启动招聘 2000 名内容审核编辑: 党员优先’, The Paper, 3-Jan-2018,
https://web.archive.org/web/20221116013004/https://www.thepaper.cn/newsDetail_forward_1932733
- 171 ‘今日头条公布算法原理 称并非一切交给机器’, Leiphone, 12-Jan-2018,
<http://web.archive.org/web/20221122152458/https://www.leiphone.com/category/industrynews/cEc03ORUAeiwytnC.html>
- 172 ‘互联网不良内容的监管升级 微信微博今日头条纷纷自查’, Beijing News via China News, 12-Apr-2018,
<https://archive.ph/7DUhu>
- 173 ‘未成年怀孕成“网红”? 被央视点名的快手、火山小视频下架整改!’, National Business Daily, 6-Apr-2018,
<https://archive.ph/iuwhD>
- 174 ‘国家广播电视总局严肃处理“今日头条”“快手”传播有违社会道德节目等问题’, State Administration of Press, Publication, Radio, Film and Television of the PRC, 4-Apr-2018,
<https://web.archive.org/web/20200124192251/http://www.sapprft.gov.cn/sapprft/contents/6582/363639.shtml>
- 175 “内涵段子”被永久关停 张一鸣发文致歉反思’, People’s Daily, 11-Apr-2018, <https://archive.ph/utuBC>
- 176 ‘致歉和反思’, Zhang Yiming via Toutiao, 11-Apr-2018, <https://archive.ph/wbVSM>
- 177 ‘全国“扫黄打非”办通报: “抖音”平台被行政处罚’, China News, 8-Jan-2021,
<https://web.archive.org/web/20220418033453/https://www.chinanews.com.cn/gn/2021/01-08/9381634.shtml>
- 178 ‘国家市场监督管理总局 行政处罚决定书’, SAMR, 12-Mar-2021, <https://archive.ph/7f0lo>
- 179 ‘市场监管总局、中央网信办、税务总局 联合召开互联网平台企业行政指导会’, SAMR, 13-Apr-2021,
<https://archive.ph/1VTwx>
- 180 ‘市场监管总局、中央网信办、税务总局 联合召开互联网平台企业行政指导会’, SAMR, 13-Apr-2021,
<https://archive.ph/1VTwx>

- '互联网平台企业向社会公开《依法合规经营承诺》(第一批)', SAMR, 14-Apr-2021, https://web.archive.org/web/20220413082741/https://www.samr.gov.cn/xw/zj/202104/t20210413_327811.html
- 'China Warns 34 Tech Firms to Curb Excess in Antitrust Review', Bloomberg, 13-Apr-2021, <https://web.archive.org/web/20220220232838/https://www.bloomberg.com/news/articles/2021-04-13/china-orders-34-tech-firms-to-curb-excesses-in-antitrust-review>
- '金融管理部门联合约谈部分从事金融业务的网络平台企业', State Administration of Foreign Exchange, 29-Apr-2021, <https://web.archive.org/web/20210515205240/https://www.safe.gov.cn/safe/2021/0429/18865.html>
- 'China Reins In Tech Giants' Finance Arms After Hobbling Ant', Bloomberg, 29-Apr-2021, <https://web.archive.org/web/20220407174002/https://www.bloomberg.com/news/articles/2021-04-29/china-orders-tencent-ByteDance-to-rectify-financial-operations>
- 'ByteDance Shelved IPO Intentions After Chinese Regulators Warned About Data Security', WSJ, 12-Jul-2021, <https://web.archive.org/web/20221206013550/https://www.wsj.com/articles/bytedance-shelvedipo-intentions-after-chinese-regulators-warned-about-data-security-11626078000>
- 'A Letter From Yiming', ByteDance, 19-May-2021, <https://web.archive.org/web/20220909193935/https://www.bytedance.com/en/news/60a526af053cc102d640c061>
- '张一鸣宣布卸任字节跳动 CEO, 联合创始人梁汝波将接任', The Paper, 20-May-2021, <https://archive.ph/fSp5h>
- '国家互联网信息办公室、公安部加强对语音社交软件和涉深度伪造技术的互联网新技术新应用安全评估', CAC via Xinhua, 18-Mar-2021, <https://archive.ph/C5VRZ>
- 166 United States Court of Appeals for the District of Columbia Circuit, USCA CASE #20-1444 <https://web.archive.org/web/202208131115154/https://www.courthousenews.com/wp-content/uploads/2020/11/tiktok-cadc-petition.pdf>
- Vanessa Pappas, "Senate Hearing on Social Media and National Security", C-SPAN, 14-Sep-2022, <https://web.archive.org/web/20221109011249/https://www.c-span.org/video/?522807-1/senate-hearing-social-media-national-security&playEvent=>
- Parliament of Australia 'Select Committee on Foreign Interference through Social Media – 25/09/2020', Australian Parliament House Hansard, 25-Sep-2020, https://web.archive.org/web/20221125030444/https://www.aph.gov.au/Parliamentary_Business/Hansard/Hansard_Display?bid=committees%2Fcommsen%2F1a5e6393-fec4-4222-945b-859e3f8ebd17%2F&sid=0002
- 167 '迪士尼前高管加入字节跳动, TT 原总裁朱俊向其汇报', Beijing News via Sina, 19-May-2020, https://web.archive.org/web/20221210093341/https://k.sina.com.cn/article_1644114654_61ff32de02000zbnu.html
- 'ByteDance Names Kevin Mayer Chief Operating Officer', TikTok, 19-May-2020, <https://newsroom.tiktok.com/en-us/bytedance-names-kevin-mayer-chief-operating-officer>
- 168 '谁在管理 TikTok: 没有中心的网状组织、字节的全球化构想', LatePost via Laohu8, 7-Apr-2022, <https://archive.ph/yLV9W>
- 'TikTok Names CEO and COO', TikTok, 30-Apr-2021, <https://newsroom.tiktok.com/en-us/tiktok-names-ceo-and-coo>
- 169 'Chinese companies set up in Singapore to hedge against geopolitical risk', Financial Times, 30-Nov-2022, <https://www.ft.com/content/a0c11e3e-ab72-4b4b-a55c-557191e53938>
- 170 'Senate Hearing on Social Media and National Security', C-Span, 14-Sep-2022, <https://web.archive.org/web/20221109011249/https://www.c-span.org/video/?522807-1/senate-hearing-social-media-national-security&playEvent=>
- 171 'Billionaire ByteDance Founder Zhang Yiming Now Living Far From Home', The Information, 29-Sep-2022, <https://www.theinformation.com/articles/billionaire-bytedance-founder-zhang-yiming-now-living-far-from-home?rc=zcbseh>
- 172 '知名律所合伙人高准担任字节跳动 CFO, 或将操盘上市重任', Yicai, 25-Apr-2022, <https://archive.ph/PjSoB>
- 173 "'字节跳动"改名"抖音"了? 官方回应来了!', Nanfang Daily via Sohu, 9-May-2022, <https://archive.ph/1VhUy>
- Letter from Shouzi Chew to U.S. Senators, Marsha Blackburn, U.S. Senator for Tennessee, 30-Jun-2022, <https://web.archive.org/web/20220702045206/https://www.blackburn.senate.gov/services/files/A5027CD8-73DE-4571-95B0-AA7064F707C1>
- 174 'TikTok's Owner ByteDance Quietly Changed Its China Unit's Name After U.S. Political Fears', The Information, 10-Aug-2022, <https://www.theinformation.com/articles/tiktoks-owner-bytedance-quietly-changed-its-china-units-name-after-u-s-political-fears?rc=zcbseh>
- 175 'Petition for review 2', Courthouse News Service, 10-Nov-2020, <https://web.archive.org/web/20210928143950/https://www.courthousenews.com/wp-content/uploads/2020/11/tiktok-cadc-petition.pdf>
- 176 'Petition for review 2', Courthouse News Service, 10-Nov-2020, <https://web.archive.org/web/20210928143950/https://www.courthousenews.com/wp-content/uploads/2020/11/tiktok-cadc-petition.pdf>

- 177 'Corporate Structure', ByteDance,
<https://web.archive.org/web/20210501000449/https://www.ByteDance.com/en/>
- 178 Written evidence submitted by TikTok (FL0022), UK House of Commons, Oct-2020,
<https://web.archive.org/web/20221101032109/http://committees.parliament.uk/writtenevidence/13247/pdf/>
'Corporate Structure', ByteDance,
<https://web.archive.org/web/20210501000449/https://www.ByteDance.com/en/>
- '張一鳴退任抖音名義股東', Hong Kong Economic Journal via Yahoo, 25-Jan-2023, <https://archive.ph/RYL0h>
- 179 '字节跳动香港公司更名为抖音集团, 概念股集体沸腾', Yicai, 9-May-2022, <https://archive.ph/NxFmn>
- 180 '張一鳴退任抖音名義股東', Hong Kong Economic Journal via Yahoo, 25-Jan-2023, <https://archive.ph/RYL0h>
- 'Petition for review, TikTok Inc. and ByteDance Ltd., Petitioners', The United States Court Of Appeals For The District Of Columbia Circuit, 10-Nov-2020,
<https://web.archive.org/web/20210928143950/https://www.courthousenews.com/wp-content/uploads/2020/11/tiktok-cadc-petition.pdf>
- 'Corporate Structure', ByteDance,
<https://web.archive.org/web/20210501000449/https://www.ByteDance.com/en/>
- Written evidence submitted by TikTok (FL0022), UK House of Commons,
<https://web.archive.org/web/20221101032109/http://committees.parliament.uk/writtenevidence/13247/pdf/>
'Corporate Structure', ByteDance,
<https://web.archive.org/web/20210501000449/https://www.ByteDance.com/en/>
- '張一鳴退任抖音名義股東', Hong Kong Economic Journal via Yahoo, 25-Jan-2023, <https://archive.ph/RYL0h>
- '字节跳动香港公司更名为抖音集团, 概念股集体沸腾', Yicai, 9-May-2022, <https://archive.ph/NxFmn>
- '抖音视界有限公司', Aiqicha Baidu, <https://archive.ph/E8QkD>
- '抖音有限公司', Aiqicha Baidu, <https://archive.ph/3xuZt>
- 181 'Petition for review, TikTok Inc. and ByteDance Ltd., Petitioners' 12, 26, The United States Court Of Appeals For The District Of Columbia Circuit, 10-Nov-2020,
<https://web.archive.org/web/20210928143950/https://www.courthousenews.com/wp-content/uploads/2020/11/tiktok-cadc-petition.pdf>
- 182 Cayman Islands General Registry, retrieved 4-Nov-2022, https://online.ciregistry.gov.ky/cos/faces/home?_adf.new-window-redirect=true
- 183 '字节跳动 CEO 梁汝波发内部信: 头条、西瓜等业务并入抖音', Sina, 2-Nov-2021, <https://archive.ph/AW4Yd>
- 184 '字节跳动 CEO 梁汝波发内部信: 头条、西瓜等业务并入抖音', Sina, 2-Nov-2021, <https://archive.ph/AW4Yd>
- 185 Letter from Shouzi Chew to U.S. Senators, Marsha Blackburn, U.S. Senator for Tennessee, 30-Jun-2022,
<https://web.archive.org/web/20220702045206/https://www.blackburn.senate.gov/services/files/A5027CD8-73DE-4571-95B0-AA7064F707C1>
- '字节跳动 CEO 梁汝波发内部信: 头条、西瓜等业务并入抖音', Sina, 2-Nov-2021, <https://archive.ph/AW4Yd>
- Cayman Islands General Registry, retrieved 4-Nov-2022, https://online.ciregistry.gov.ky/cos/faces/home?_adf.new-window-redirect=true
- 186 '北京甲艺丙科技有限公司', Aiqicha Baidu, <https://archive.ph/dyzQV>
- '或赴港上市? 字节跳动成立抖音集团! 三位董事公布: 梁汝波领衔', NBD, 8-May-2022,
<https://web.archive.org/web/20221129141240/https://www.nbd.com.cn/articles/2022-05-08/2269021.html>
- '梁汝波退出多家置业公司法定代表人', jrj.com, 30-Mar-2022, <https://archive.ph/p9sQG>
- '北京微播视界科技有限公司', Baidu Aiqicha,
https://web.archive.org/web/20221018151516/https://aiqicha.baidu.com/company_detail_81699330266992
- 187 '梁汝波卸任杭州字节跳动科技公司职务', QCC via OfWeek, 17-Oct-2022, <https://archive.ph/koeAH>
- '谁在管理 TikTok: 没有中心的网状组织、字节的全球化构想', LatePost via Laohu8, 7-Apr-2022,
<https://archive.ph/yLV9W>
- 'TikTok 内幕: 张一鸣的巨浪征途', Jiemian via Sina, 25-Apr-2022, <https://archive.ph/geqqt>
- '抖音换帅: 张楠管国内、朱俊管国际, 分头迎战快手与 Facebook', LatePost via Tencent, 31-Oct-2019,
<http://web.archive.org/web/20221210092254/https://new.qq.com/omn/20191031/20191031A0KPLQ00.html>
- 188 '抖音有限公司', Tianyancha, <https://archive.ph/egkYD>
- '抖音有限公司', Aiqicha Baidu, <https://archive.ph/3xuZt>
- '厦门星辰启点科技有限公司', Baidu Aiqicha, <https://archive.ph/L2WJl>
- '上海字跳网络技术有限公司', Tianyancha, <https://archive.ph/HMjBw>
- '字节跳动组织调整: 集团 CFO、TikTok CEO 周受资将管理更多团队', LatePost via Laohu, 16-Jun-2021,
<https://archive.ph/5JKYN>
- '字节跳动入股教育硬件品牌北京孔明科技', Huanqiu via Sohu, 27-Oct-2020, <https://archive.ph/uLDfr>
- 189 '抖音视界有限公司', Tianyancha, <https://archive.md/iQjpl>
- '抖音视界有限公司', Aiqicha Baidu, <https://archive.ph/E8QkD>

- 190 張一鳴退任抖音名義股東', Hong Kong Economic Journal via Yahoo, 25-Jan-2023, <https://archive.ph/RYL0h>
- 191 '如何看待张一鸣退出抖音有限公司股东?', Zhihu, 22-Jan-2023, <https://archive.ph/B9dbJ>
- 192 TikTok 内幕: 张一鸣的巨浪征途', Jiemiao via Sina, 25-Apr-2022, <https://archive.ph/geqqt>
- '抖音视界有限公司', Tianyancha, <https://archive.md/iOjpl>
- '抖音视界有限公司', Aiqicha Baidu, <https://archive.ph/E8QkD>
- 193 張一鳴退任抖音名義股東', Hong Kong Economic Journal via Yahoo, 25-Jan-2023, <https://archive.ph/RYL0h>
- '如何看待张一鸣退出抖音有限公司股东?', Zhihu, 22-Jan-2023, <https://archive.ph/B9dbJ>
- 194 '谁在管理 TikTok: 没有中心的网状组织、字节的全球化构想', LatePost via Laohu8, 7-Apr-2022, <https://archive.ph/yLV9W>
- Sam Biddle, Paulo Victor Ribeiro, Tatiana Dias, 'INVISIBLE CENSORSHIP: TikTok Told Moderators to Suppress Posts by "Ugly" People and the Poor to Attract New Users', The Intercept, 16-Mar-2020, <https://archive.ph/1n45R>
- Salvador Rodriguez, 'TikTok insiders say social media company is tightly controlled by Chinese parent ByteDance', CNBC, 25-Jun-2021, <https://web.archive.org/web/20221104203859/https://www.cnbc.com/2021/06/25/tiktok-insiders-say-chinese-parent-bytedance-in-control.html>
- Sylvia Varnham O'Regan, 'TikTok's \$4 Billion Advertising Machine Is Messy Behind the Scenes', The Information, 11-Aug-2022, <https://web.archive.org/web/20221114090438/https://www.theinformation.com/articles/tiktoks-4-billion-advertising-machine-is-messy-behind-the-scenes?rc=zcbseh>
- Emily Baker-White, 'TikTok Is Bleeding U.S. Execs Because China Is Still Calling The Shots, Ex-Employees Say', Forbes, 21-Sep-2022, <https://archive.ph/YQVm7>
- Emily Baker-White, 'TikTok Parent ByteDance Planned To Use TikTok To Monitor The Physical Location Of Specific American Citizens,' Forbes, 20-Oct-2022, <https://web.archive.org/web/https://www.forbes.com/sites/emilybaker-white/2022/10/20/tiktok-bytedance-surveillance-american-user-data/>
- Drew Harwell and Elizabeth Dwoskin, 'As Washington wavers on TikTok, Beijing exerts control', The Washington Post, 28-Oct-2022, <https://web.archive.org/web/20221101005158/https://www.washingtonpost.com/technology/interactive/2022/bytedance-tiktok-privacy-china/>
- Ryan Mac and Chang Che, 'TikTok's C.E.O. Navigates the Limits of His Power', New York Times, 16-Sep-2022, <https://web.archive.org/web/20221102210817/https://www.nytimes.com/2022/09/16/technology/tiktok-ceo-shou-zi-chew.html>
- 195 'TikTok Is Bleeding U.S. Execs Because China Is Still Calling The Shots, Ex-Employees Say', Forbes, 21-Sep-2022, <https://archive.ph/YQVm7>
- 196 '中华人民共和国国家安全法', gov.cn, 1-Jul-2015, https://web.archive.org/web/20221216184050/http://www.gov.cn/zhengce/2015-07/01/content_2893902.htm
- 197 '中华人民共和国国家情报法', National People's Congress of the PRC, 12-Jun-2018, <https://archive.ph/EvpjJ>
- 198 Raffaele Huang, 'TikTok's Efforts to Distance Itself From Chinese Parent Stumble Over Talent', WSJ, 16-Dec-2022, <https://archive.ph/RVsCa>
- Juro Osawa, Amir Efrati and Shai Oster, 'TikTok Still Has Key Software Developers in China Despite Effort to Move Offshore', The Information, 26-Aug-2021, <https://www.theinformation.com/articles/tiktok-still-has-key-software-developers-in-china-despite-effort-to-move-offshore?rc=zcbseh>
- Juro Osawa, Yunan Zhang and Amir Efrati, 'Breaking Off TikTok Will Be Hard to Do', The Information, 29-Jul-2020, <https://www.theinformation.com/articles/breaking-off-tiktok-will-be-hard-to-do?rc=zcbseh>
- Yingzhi Yang, Echo Wang and Alexandra Alper, 'Exclusive: TikTok owner ByteDance moves to shift power out of China – sources', Reuters, 28-May-2020, <https://web.archive.org/web/20221201022956/https://www.reuters.com/article/us-bytedance-tiktok-exclusive/exclusive-tiktok-owner-bytedance-moves-to-shift-power-out-of-china-sources-idUSKBN2341VJ>
- 199 '数据科学家-国际短视频-上海', ByteDance via LinkedIn, <https://web.archive.org/web/20230227050201/https://cn.linkedin.com/jobs/view/%E6%95%B0%E6%8D%AE%E7%A7%91%E5%AD%A6%E5%AE%B6-%E5%9B%BD%E9%99%85%E7%9F%AD%E8%A7%86%E9%A2%91-%E4%B8%8A%E6%B5%B7-at-%E5%AD%97%E8%8A%82%E8%B7%B3%E5%8A%A8-3362902087>
- 'Data Scientist/数据科学家', TikTok via LinkedIn, <https://web.archive.org/web/20230227050531/https://cn.linkedin.com/jobs/view/data-scientist-%E6%95%B0%E6%8D%AE%E7%A7%91%E5%AD%A6%E5%AE%B6-at-tiktok-3345866583>
- 200 '数据分析师-国际化短视频(用户体验方向)', ByteDance, <https://archive.ph/njPBh>
- '出海大客户总监--北上广', ByteDance, <https://web.archive.org/web/20221031203410/https://jobs.bytedance.com/experienced/position/7020292300300863757/detail?recomId=0550f0ef-0f81-11ed-83ce-6c92bfa0d82e&sourceJobId=6777279603208620301>
- '服务端核心研发工程师-抖音服务架构-基础工程方向', ByteDance, <https://archive.ph/OUicS>

- 201 '推荐算法高级工程师 - 电商', ByteDance, <https://archive.ph/oXTbj>
'Tech Lead (Streaming Computing), Cloud Infrastructure', ByteDance, https://web.archive.org/web/20221114085637/https://jobs.bytedance.com/experienced/position/7035825062201100581/detail?use_ssr=1
'Tech Lead(Streaming Computing), Cloud Infrastructure', TikTok, <https://perma.cc/9NTN-53ED>
'Backend Software Engineer - TikTok (Livestreaming) – Singapore', ByteDance, <https://archive.ph/oHFHK>
'Backend Software Engineer - TikTok (Livestreaming) – Singapore', TikTok, <https://careers.tiktok.com/position/7094943341029280031/detail>
'Site Reliability Engineer, Recommendation Architecture', ByteDance, <https://archive.ph/Zvyan>
'Site Reliability Engineer, Recommendation Architecture', TikTok, <https://careers.tiktok.com/position/7057825736279623950/detail>
'Software Engineer - Recommendation Architecture', ByteDance, <https://archive.ph/L5qOZ>
- 202 We input "ByteDance" "TikTok" into the search field on LinkedIn, then selected *Filter by People*. The results included former employees of ByteDance or TikTok.
- 203 'Blake Chandlee', LinkedIn, <https://www.linkedin.com/in/blakechandlee/>
"ByteDance" "TikTok", LinkedIn, https://www.linkedin.com/search/results/people/?keywords=%22ByteDance%22%20%22TikTok%22&origin=GLOBAL_SEARCH_HEADER&sid=XJ~
- 204 Emily Baker-White, 'TikTok Is Bleeding U.S. Execs Because China Is Still Calling The Shots, Ex-Employees Say', Forbes, 21-Sep-2022, <https://web.archive.org/web/20221114090501/https://www.forbes.com/sites/emilybaker-white/2022/09/21/tiktok-bleeding-us-execs-china-control-bytedance/?sh=7332d8d89707>
'TikTok insiders say social media company is tightly controlled by Chinese parent ByteDance', CNBC, 25-Jun-2021, <https://web.archive.org/web/20230210063010/https://www.cnbc.com/2021/06/25/tiktok-insiders-say-chinese-parent-bytedance-in-control.html>
'TikTok's Spying Scandal and ChatGPT's Challenge to Google', New York Times, 6-Jan-2023, <https://archive.ph/1T57f>
- 205 'Tech Lead (DBA) , Cloud Infrastructure', ByteDance, <https://perma.cc/7W5G-VSVC>
- 206 'Tech Lead(DBA), Cloud Infrastructure', TikTok, <https://perma.cc/NNX8-YGLH>
Emily Baker-White, 'Leaked Audio From 80 Internal TikTok Meetings Shows That US User Data Has Been Repeatedly Accessed From China', BuzzFeed, 17-Jun-2022, <https://web.archive.org/web/20221113152059/https://www.buzzfeednews.com/article/emilybakerwhite/tiktok-tapes-us-user-data-china-bytedance-access>
- 207 '北京抖音信息服务有限公司', Baidu Aiqicha, <https://archive.ph/EXVxv>
- 208 '北京抖音信息服务有限公司', Baidu Aiqicha, <https://archive.ph/EXVxv>
- 209 '北京抖音信息服务有限公司', Baidu Aiqicha, <https://archive.ph/EXVxv>
'网投中文(北京)科技有限公司', Baidu Aiqicha, <https://archive.ph/q6Bj8>
'中网投(北京)科技有限公司', Baidu Aiqicha, <https://archive.ph/H5UzA>
'中国互联网投资基金管理有限公司', Baidu Aiqicha, <https://archive.ph/EFcs9>
'北京市文化投资发展集团资产管理有限公司', Baidu Aiqicha, <https://archive.ph/l8zAh>
'央视视频融媒体发展有限公司', Baidu Aiqicha, <https://archive.ph/KbeAY>
'公司简介', China Internet Investment Fund, <https://archive.ph/UxtPm>
- 210 Shou Zi Chew, Letter from TikTok CEO to US Senators, United States Senate, 30-Jun-2022, <https://web.archive.org/web/20220702045206/https://www.blackburn.senate.gov/services/files/A5027CD8-73DE-4571-95B0-AA7064F707C1>
- 211 '北京抖音信息服务有限公司', Baidu Aiqicha, <https://archive.ph/EXVxv>
'北京抖音信息服务有限公司', Baidu Aiqicha, <https://archive.ph/EXVxv>
'网投中文(北京)科技有限公司', Baidu Aiqicha, <https://archive.ph/q6Bj8>
'中网投(北京)科技有限公司', Baidu Aiqicha, <https://archive.ph/H5UzA>
'中国互联网投资基金管理有限公司', Baidu Aiqicha, <https://archive.ph/EFcs9>
'北京市文化投资发展集团资产管理有限公司', Baidu Aiqicha, <https://archive.ph/l8zAh>
'央视视频融媒体发展有限公司', Baidu Aiqicha, <https://archive.ph/KbeAY>
'公司简介', China Internet Investment Fund, <https://archive.ph/UxtPm>
- 212 Ryan McMorro, Qianer Liu and Cheng Leng, 'China moves to take 'golden shares' in Alibaba and Tencent units', Financial Times, 12-Jan-2023, <https://archive.md/PmxYE>
- 213 Ryan McMorro, Qianer Liu and Cheng Leng, 'China moves to take 'golden shares' in Alibaba and Tencent units', Financial Times, 12-Jan-2023, <https://archive.md/PmxYE>
- 214 Ryan McMorro, Qianer Liu and Cheng Leng, 'China moves to take 'golden shares' in Alibaba and Tencent units', Financial Times, 12-Jan-2023, <https://archive.md/PmxYE>

- 215 '爱党书记狂言砍网友的头 一张办公照把他出卖了', Aboluowang, 17-Jul-2012, <https://archive.md/yGthO>
"某官员 @爱我中华_情满神州 实名认证信息为...", @zuola via Twitter, 29-Jun-2012, <https://archive.md/zl8iv>
- 216 '人教社向河北省平山县小学生捐赠 2000 套《新编小学生字典》和 1000 套《中华传统美德格言》', Chinese Education Publishing & Media Group Ltd, 6-Jun-2012, <https://archive.md/1zi0F>
- 217 "某官员 @爱我中华_情满神州 实名认证信息为...", @zuola via Twitter, 29-Jun-2012, <https://archive.md/zl8iv>
- 218 '守好网络舆论阵地 助力美好淮南发展', Huainan Vanguard Network, 24-May-2019, <https://archive.ph/Lq0ja>
'全国网信系统十九大精神宣讲团吉林省报告会综述', China Jilin via CAC, 20-Nov-2017, <https://archive.md/KS8Pz>
'中央网信办党的十九大精神宣讲团走进中原网和郑州网信企业', Zhengzhou Evening News via Toutiao, 8-Nov-2017, <https://archive.md/uMfj5>
'全国网信系统在豫首场宣讲报告会走进河南日报报业集团', Henan Mobile News, 9-Nov-2017, <https://archive.md/SCYmp>
- 219 "'Are There TikTok Employees... Who Are Members Of The Chinese Communist Party?'" Hawley Grills Exec', Forbes Breaking News via YouTube, 15-Sep-2022, <https://www.youtube.com/watch?v=meWM8d4Uz7Q>
- 220 '不忘初心 重温入党誓词', Study Times via People's Daily, <https://archive.ph/4AjRJ>
- 221 '【独家】党支部名单曝光 抖音何去何从', Epoch Times, 5-Aug-2020, <https://archive.ph/RVz3Z>
- 222 '【独家】党支部名单曝光 抖音何去何从', Epoch Times, 5-Aug-2020, <https://archive.ph/RVz3Z>
- 223 'New DOJ Filing: TikTok's Owner Is 'A Mouthpiece' Of Chinese Communist Party', NPR, 26-Sep-2020, <https://web.archive.org/web/20230114040919/https://www.npr.org/2020/09/26/917134452/new-doj-filing-tiktoks-owner-is-a-mouthpiece-of-chinese-communist-party>
'TikTok Downplays Chinese Communist Party Links in Australia Hearing', Bloomberg, 25-Sep-2020, <https://archive.ph/tVKA0>
- 224 '以党建为统领推动网络空间清朗', CAC, 16-Apr-2020, <https://archive.ph/S1SLL>
- 225 '以党建为统领推动网络空间清朗', CAC, 16-Apr-2020, <https://archive.ph/S1SLL>
- 226 'Constitution of the Communist Party of China', Xinhua, 24-Oct-2017, http://www.xinhuanet.com/english/download/Constitution_of_the_Communist_Party_of_China.pdf
- 227 'Constitution of the Communist Party of China', Xinhua, 24-Oct-2017, http://www.xinhuanet.com/english/download/Constitution_of_the_Communist_Party_of_China.pdf
- 228 '你是优秀健康记者吗？看看你是否符合这四个条件', Health Times, 29-Dec-2015, <https://web.archive.org/web/20221105041818/http://www.jksb.com.cn/index.php?m=special&c=index&a=show&d=388>
'京华时报副总编辑张辅评：将群众路线进行到底', People's Daily via CCTV, 05-Sep-2011, <https://archive.ph/NA3Xo>
'重磅 | 中国书协 第八届理事会 主席团名单', China Calligraphers Association, 4-Feb-2021, <https://archive.ph/vH6eq>
'表彰 | 2022 年元旦春节两节期间“送万福进万家下基层公益活动”先进单位及个人', China Calligraphers Association via WeChat, 8-Apr-2022, <https://archive.ph/yWNA2>
'（全国）教育书画协会少年分会第二次全国会员代表大会在京召开', CCTV via WeChat, 3-Jun-2021, <https://archive.ph/SQFdv>
'送温暖发布会', All-China Federation of Trade Unions, 27-Dec-2018, <https://archive.ph/kyEMT>
'送万福、进万家书法公益活动走进首都消防部队', NetEase, 2-Feb-2018, <https://archive.ph/Z0Ouj>
'预祝上洋陈氏大宗祠 2 月 1 日庆典活动圆满举办', Hakka Anecdotes via WeChat, 31-Jan-2018, <https://archive.ph/197RJ>
'市领导邓菊芳会见北京字节跳动科技有限公司副总裁陈志锋一行', Longyan UFWD via WeChat, 9-Oct-2019, <https://archive.ph/hvjXM>
'集团领导到北京字节跳动科技有限公司洽谈合作', Fujian Media Group, 16-Mar-2019, <https://web.archive.org/web/20221116024217/http://www.fjrtv.net/folder2841/ly/report/2019-03-16/1879371.html>
'中央统战部首度轮训新媒体从业人员，陈彤张一鸣邓飞等在列', The Paper, 19-May-2015, <https://archive.ph/3csmt>
'政协第十一届福建省委员会增补委员名单', Fujian Daily via Southeastern Network, 16-Jan-2017, <https://archive.ph/p17S9>
'政协第十二届福建省委员会委员名单', Southeastern Network, 21-Jan-2018, <https://archive.ph/xhd10>
'今日头条将在福建龙岩建分公司？张一鸣说要支持家乡发展', Global Times, 19-Dec-2017, <https://archive.ph/F1BYo>
'福建省海外联谊会第五届理事大会', Sina Fujian, <https://archive.ph/kZ8tN>
'福建省新的社会阶层人士联谊会福州召开', Central United Front Work Department via Unity Network, 11-Oct-2017, <https://archive.ph/ZOplt>

- 229 Michael Schuman, 'Why America Is Afraid Of TikTok', The Atlantic, 31-Jul-2020, <https://web.archive.org/web/20221102130912/https://www.theatlantic.com/international/archive/2020/07/tiktok-ban-china-america/614725/>
- 230 '政协第十一届福建省委员会增补委员名单', Fujian Daily via Southeastern Network, 16-Jan-2017, <https://archive.ph/p17S9>
'政协第十二届福建省委员会委员名单', Southeastern Network, 21-Jan-2018, <https://archive.ph/xhd1O>
'今日头条将在福建龙岩建分公司? 张一鸣说要支持家乡发展', Global Times, 19-Dec-2017, <https://archive.ph/F1BYo>
'福建省海外联谊会第五届理事大会', Sina Fujian, <https://archive.ph/kZ8tN>
'福建省新的社会阶层人士联谊会会在福州召开', Central United Front Work Department via Unity Network, 11-Oct-2017, <https://archive.ph/ZOplt>
'新闻聚焦 | 龙岩市首届文化旅游产业发展大会新闻发布会召开, 龙岩长汀向世界发出邀请, 欢迎您来做客……', Minxi Daily and Changting County Radio and Television Station via WeChat, 2-Apr-2019, <https://archive.md/gvQZv>
'新加坡华源会代表受邀出席第五届世界闽商大会', Hua Yuan Association via WeChat, 20-Jun-2016, <https://archive.md/42zRS>
- 231 '中央统战部首度轮训新媒体从业人员, 陈彤张一鸣邓飞等在列', The Paper, 19-May-2015, <https://archive.ph/3csmt>
- 232 '中央统战部首度轮训新媒体从业人员, 陈彤张一鸣邓飞等在列', The Paper, 19-May-2015, <https://archive.ph/3csmt>
- 233 '张辅评升任今日头条总编辑, 夏勇去职', Media Observer via Read01, 20-Feb-2017, <https://archive.ph/P6JTq>
'《红色气质》: 时虽短“气质”不减', China Press and Publishing via Xinhua, 14-Jul-2016, <https://archive.ph/zX4UQ>
- 234 '字节跳动党委: 要把讲导向守责任放首位', The Paper via Sina, 29-Apr-2018, <https://archive.ph/EJNyo>
- 235 '北京抖音信息服务有限公司', Baidu Aiqicha, <https://archive.ph/EXVxv>
- 236 'The next chapter in our leadership', Sequoia Capital via Twitter, 5-Apr-2022, <https://archive.md/PVXV1>
- 237 '沈南鹏委员: 协同推进减碳和东西部协调发展', CPPCC, 8-Mar-2022, <https://web.archive.org/web/20221125161521/http://www.cppcc.gov.cn/zxww/2022/03/08/ART11646670339234351.shtml>
'Neil Shen', Center for China & Globalization, <https://archive.ph/394I5>
Alex Joske, 'The party speaks for you', Australian Strategic Policy Institute, 09-Jun-2020, <https://www.aspi.org.au/report/party-speaks-you>
- 238 '沈南鹏委员: 协同推进减碳和东西部协调发展', CPPCC, 8-Mar-2022, <https://web.archive.org/web/20221125161521/http://www.cppcc.gov.cn/zxww/2022/03/08/ART11646670339234351.shtml>
'Neil Shen', Center for China & Globalization, <https://archive.ph/394I5>
- 239 '创业投资基金专业委员会', AMAC, <https://archive.ph/wYufz>
'Forum Introduction', China Entrepreneurs Forum, <https://archive.ph/laNLW>
- 240 '中国人民政治协商会议第十四届全国委员会委员名单', CPPCC, 18-Jan-2023, <https://archive.md/RTB56>
Shai Oster and Juro Osawa, 'Sequoia Capital China Chief Leaves Beijing's Top Political Advisory Body', The Information, 20-Jan-2023, <https://www.theinformation.com/articles/sequoia-china-chief-leaves-beijings-top-political-advisory-body?rc=zcbseh>
'Form 6-K Report of Foreign Private Issuer Pursuant to Rule 13-a-16 or 15d-16 Under the Securities Exchange Act of 1934', Pinduoduo Inc. via US SEC, 29-Nov-2022, <https://archive.ph/vq6zj>
- 241 Juro Osawa and Shai Oster, 'Sequoia Capital's China Arm Employed Daughter of Politburo Member', The Information, 9-Sep-2022, <https://www.theinformation.com/articles/sequoia-capitals-china-arm-employed-daughter-of-politburo-member?rc=zcbseh>
- 242 'Report claims TikTok parent company ByteDance is working with China's Communist Party to spread propaganda on Xinjiang', Business Insider, Nov-2019, <https://web.archive.org/web/20191129091747/https://www.businessinsider.com/tiktok-parent-company-ByteDance-spreads-chinese-propaganda-report-2019-11>
- 243 '武警部队携手今日头条, 强强联合打造政务新媒体', Geek Park, 1-Dec-2017, <https://archive.ph/FfQt6>
'中华人民共和国人民武装警察法', Ministry of National Defence, 20-June-2020, https://web.archive.org/web/20220723031732/http://www.mod.gov.cn/regulatory/2020-06/20/content_4867004.htm
- 244 '武警部队携手今日头条, 强强联合打造政务新媒体', Geek Park, 1-Dec-2017, <https://archive.ph/FfQt6>
'中华人民共和国人民武装警察法', Ministry of National Defence, 20-June-2020, https://web.archive.org/web/20220723031732/http://www.mod.gov.cn/regulatory/2020-06/20/content_4867004.htm

- 245 '武警部队新媒体账号，集体入驻抖音啦！'，Affiliated Hospital of Logistics University of People's Armed Police Force via Sohu, 11-Apr-2019, <https://archive.ph/9Mulh>
- 246 Jichang Lulu and Filip Jirouš, 'Back to the Cheka: The Ministry of Public Security's political protection work', Sinopsis, 21-Feb-2022, <https://sinopsis.cz/wp-content/uploads/2022/02/mps1.pdf>
- 247 '武警部队携手今日头条，强强联合打造政务新媒体'，Geek Park, 1-Dec-2017, <https://archive.ph/FfQt6>
- 248 'Mapping more of China's tech giants: AI and surveillance', ASPI, Nov-2019, <https://www.aspi.org.au/report/mapping-more-chinas-tech-giants>
- 249 '重磅！公安部与抖音正式合作'，Southern Network, 26-Apr-2019, <https://archive.ph/TM7E5>
- 250 Mapping more of China's tech giants: AI and surveillance 18-20, ASPI, Nov-2019, <https://www.aspi.org.au/report/mapping-more-chinas-tech-giants>
- 251 '北京局开展广播电视和网络视听对口援疆工作'，National Radio and Television Administration, 4-Nov-2019, https://web.archive.org/web/20191126030214/http://www.nrta.gov.cn/art/2019/11/4/art_114_48597.html
- 'OHCHR Assessment of human rights concerns in the Xinjiang Uyghur Autonomous Region, People's Republic of China,' United Nations Office of the High Commission for Human Rights, 31-Aug-2022, <https://www.ohchr.org/sites/default/files/documents/countries/2022-08-31/22-08-31-final-assesment.pdf>
- Vicky Xiuzhong Xu, Daria Impiombato and Nathan Ruser, 'UN Uyghur report leaves no room for denial and no excuse for inaction,' The Strategist, 3-Sep-2022, https://www.aspistrategist.org.au/un-uyghur-report-leaves-no-room-for-denial-and-no-excuse-for-inaction/?utm_medium=email&utm_campaign=Daily%20The%20Strategist&utm_content=Daily%20The%20Strategist+CID_863221cf1139c8446269d7362ce45936&utm_source=CampaignMonitor&utm_term=UN%20Uyghur%20report%20leaves%20no%20room%20for%20denial%20and%20no%20excuse%20for%20inaction
- 252 '协会领导'，China Netcasting Services Association, <https://archive.ph/JWnJK>
- '中国网络视听节目服务协会第二届理事会常务理事名单'，China Netcasting Services Association, 17-Nov-2020, <https://archive.ph/RtNmF>
- '副会长单位'，China Netcasting Services Association, 1-Dec-2021, <https://archive.md/tHP6x>
- 253 '聂辰席'，China Netcasting Services Association, 27-Jun-2022, <https://archive.ph/42ovG>
- 254 '协会章程'，China Netcasting Services Association, <http://archive.today/bBS6W>
- '总局领导'，NRTA, <http://archive.today/Bbk2f>
- '协会简介'，China Netcasting Services Association, <https://archive.ph/tpDfh>
- '中宣部接管新闻出版电影 三大台合并'，Caixin, 21-Mar-2018, <https://archive.ph/enCea>
- 255 '《网络短视频平台管理规范》《网络短视频内容审核标准细则》发布'，People's Network, 10-Jan-2019, <https://archive.ph/UWgWc>
- '网络短视频内容审核标准细则（2021）'，China Netcasting Services Association, 16-Dec-2021, <https://archive.ph/C6jpS>
- 256 '领导成员'，Beijing Communication Industry Association, <https://archive.ph/vkXWt>
- 257 '协会章程'，Beijing Communication Industry Association, <https://archive.md/zD5MS>
- 258 '今天，人民日报成立的这个研究院不一般！'，People's Daily via WeChat, 19-Sep-2019, <https://archive.ph/nXtBv>
- 259 '今天，人民日报成立的这个研究院不一般！'，People's Daily via WeChat, 19-Sep-2019, <https://archive.ph/nXtBv>
- 260 '会员单位'，Internet Society of China, <https://web.archive.org/web/20230309001535/https://home.isc.org.cn/member-unit/index?kw=&level=3&p=4>
- 261 '中国互联网协会章程'，ISC, 25-Apr-2022, <https://perma.cc/U4E5-NWWH>
- 262 Emily Baker-White, 'LinkedIn Profiles Indicate 300 Current TikTok and ByteDance Employees Used To Work For Chinese State Media', Forbes, 11-Aug-2022, <https://www.forbes.com/sites/emilybaker-white/2022/08/10/bytedance-tiktok-china-state-media-propaganda/?sh=425dc8f4322f>
- 263 '国家网信办指导有关地方网信办依法查处违法违规网站平台及账号'，Xinhua, 5-Feb-2020, https://web.archive.org/web/20200806014435/http://www.xinhuanet.com/politics/2020-02/05/c_1125536088.htm
- 264 '字节跳动公司打造武汉疫情防控网络传播服务矩阵'，Wuhan CAC via WeChat, 24-Feb-2020, <https://web.archive.org/web/20221208164239/https://mp.weixin.qq.com/s?src=11×tamp=1670517314&ver=4214&signature=5ircLSQ5LGxcsX05pEvOJfgWiSVnzPKpsi7D8KGbteZluPEwxs%2ASQvWimYS1bTSDAmQ1ZA S%2AyHAVAm5vz8-aolt6FOGsnTS3PVvHIC1H0-M2NyyuTZdXJZvml2J3B03t&new=1>
- 265 '字节跳动公司打造武汉疫情防控网络传播服务矩阵'，Wuhan CAC via WeChat, 24-Feb-2020, <https://web.archive.org/web/20221208164239/https://mp.weixin.qq.com/s?src=11×tamp=1670517314&ver=4214&signature=5ircLSQ5LGxcsX05pEvOJfgWiSVnzPKpsi7D8KGbteZluPEwxs%2ASQvWimYS1bTSDAmQ1ZA S%2AyHAVAm5vz8-aolt6FOGsnTS3PVvHIC1H0-M2NyyuTZdXJZvml2J3B03t&new=1>
- 266 Liza Lin, 'China Clamps Down on Internet as It Seeks to Stamp Out Covid Protests', The Wall Street Journal, 1-Dec-2022, <https://web.archive.org/web/20221201143725/https://www.wsj.com/articles/china-clamps-down-on-internet-as-it-seeks-to-stamp-out-covid-protests-11669905228>

- 267 Liza Lin, 'China Clamps Down on Internet as It Seeks to Stamp Out Covid Protests', The Wall Street Journal, 1-Dec-2022, <https://web.archive.org/web/20221201143725/https://www.wsj.com/articles/china-clamps-down-on-internet-as-it-seeks-to-stamp-out-covid-protests-11669905228>
- 268 '习近平谈媒体融合发展金句：用主流价值导向驾驭“算法”', Qiushi, 16-Mar-2019, https://web.archive.org/web/20190323110922/http://www.qstheory.cn/2019-03/16/c_1124242581.htm
'加快推动媒体融合发展 构建全媒体传播格局', Qiushi, 15-Mar-2019, https://web.archive.org/web/20230309005056/http://www.qstheory.cn/dukan/qs/2019-03/15/c_1124239254.htm
- 269 '网络信息内容生态治理规定', CAC, 20-Dec-2019, https://web.archive.org/web/20221115143323/http://www.cac.gov.cn/2019-12/20/c_1578375159509309.htm
- 270 '互联网信息服务算法推荐管理规定', CAC, 4-Jan-2022, https://web.archive.org/web/20221118224204/http://www.cac.gov.cn/2022-01/04/c_1642894606364259.htm
- 271 Zhou Xin and Tracy Qu, 'TikTok's algorithm not for sale, ByteDance tells US: source', South China Morning Post, 13-Sep-2020, <https://web.archive.org/web/20200913160256/https://www.scmp.com/economy/china-economy/article/3101362/tiktoks-algorithm-not-sale-bytedance-tells-us-source>
'商务部 科技部公告 2020 年第 38 号 关于调整发布《中国禁止出口限制出口技术目录》的公告', Ministry of Commerce, 28-Aug-2020, <https://web.archive.org/web/20221031213250/http://www.mofcom.gov.cn/article/b/xxfb/202008/20200802996641.shtml>
'《中国禁止出口限制出口技术目录》调整内容', Ministry of Commerce, <https://web.archive.org/web/20220709223655/http://images.mofcom.gov.cn/fms/202008/20200828200911003.pdf>
- 272 '商务部 科技部公告 2020 年第 38 号 关于调整发布《中国禁止出口限制出口技术目录》的公告', Ministry of Commerce, 28-Aug-2020, <https://web.archive.org/web/20221031213250/http://www.mofcom.gov.cn/article/b/xxfb/202008/20200802996641.shtml>
'《中国禁止出口限制出口技术目录》调整内容', Ministry of Commerce, <https://web.archive.org/web/20220709223655/http://images.mofcom.gov.cn/fms/202008/20200828200911003.pdf>
- 273 'Planned TikTok deal entails China's approval under revised catalogue: expert', Xinhua, 30-Aug-2020, https://web.archive.org/web/20221030175546/http://www.xinhuanet.com/english/2020-08/30/c_139329598.htm
- 274 'Planned TikTok deal entails China's approval under revised catalogue: expert', Xinhua, 30-Aug-2020, https://web.archive.org/web/20221030175546/http://www.xinhuanet.com/english/2020-08/30/c_139329598.htm
- 275 字节跳动 via Today's Headlines, 30-Aug-2020, <https://archive.ph/XLz4u>
- 276 Zhou Xin and Tracy Qu, 'TikTok's algorithm not for sale, ByteDance tells US: source', South China Morning Post, 13-Sep-2020, <https://web.archive.org/web/20200913160256/https://www.scmp.com/economy/china-economy/article/3101362/tiktoks-algorithm-not-sale-bytedance-tells-us-source>
- 277 '国家互联网信息办公室、中华人民共和国工业和信息化部、中华人民共和国公安部、国家市场监督管理总局令 第 9 号:互联网信息服务算法推荐管理规定', Cyberspace Administration of China via Central People's Government of the People's Republic of China, 31-Dec-2021, <https://archive.ph/lAw2J>
- 278 '国家互联网信息办公室关于发布互联网信息服务算法备案信息的公告', Cyberspace Administration of China, 12-Aug-2022, <https://archive.ph/G8Xlx>
- 279 '抖音个性化推荐算法', CAC, https://web.archive.org/web/20221018203822/https://beian.cac.gov.cn/api/static/fileUpload/principalOrithm/additional/user_9b84b02a-0c7f-4bd4-81f2-5cad879ad4ab_96ed08c8-0ed8-4ab5-b04d-46cccf4c00ab.pdf
- 280 Will Knight, 'The Insanely Popular Chinese News App That You've Never Heard Of,' MIT Technology Review, 26-Jan-2017, <https://web.archive.org/web/20221122162904/https://www.technologyreview.com/2017/01/26/154363/the-insanely-popular-chinese-news-app-that-youve-never-heard-of/>
- 281 Alex Hern, 'Revealed: How TikTok censors videos that do not please Beijing,' The Guardian, 25-Sept-2019, <https://www.theguardian.com/technology/2019/sep/25/revealed-how-tiktok-censors-videos-that-do-not-please-beijing>
- Sam Biddle, Paulo Victor Ribeiro, Tatiana Dias, 'Invisible censorship: TikTok told moderators to suppress posts by “ugly” people and the poor to attract new users,' The Intercept, 16-Mar-2020, <https://theintercept.com/2020/03/16/tiktok-app-moderators-users-discrimination/>
- Markus Reuter and Chris Kover, 'Cheerfulness and censorship', netzpolitik.org, 23-Nov-2019, <https://web.archive.org/web/20230105104124/https://netzpolitik.org/2019/cheerfulness-and-censorship/>
- 282 '独家| 内部员工揭秘: TikTok 竟然这么审核内容', Pingwest, 14-Jun-2020, <https://archive.ph/RsUQX>
'The censor cannot hold: the pressure of controlling China's internet', France24, 6-Oct-2022, <http://web.archive.org/web/20221108193721/https://www.france24.com/en/live-news/20221006-the-censor-cannot-hold-the-pressure-of-controlling-china-s-internet>

- Markus Reuter and Chris Kover, 'Cheerfulness and censorship', netzpolitik.org, 23-Nov-2019, <https://web.archive.org/web/20220924071902/https://netzpolitik.org/2019/cheerfulness-and-censorship/>
- Shen Lu, 'I helped build ByteDance's vast censorship machine', Protocol, 18-Feb-2021, <https://web.archive.org/web/20221216031945/https://www.protocol.com/china/i-built-bytedance-censorship-machine>
- '前新浪微博内容审核员专访：中共如何打造网络“真理部”', VOA, 12-Aug-2020, <https://web.archive.org/web/20221209214136/https://www.voachinese.com/a/internet-censorship-20200812/5540475.html>
- 283 Alex Hern, 'Revealed: How TikTok censors videos that do not please Beijing,' The Guardian, 25-Sept-2019, <https://www.theguardian.com/technology/2019/sep/25/revealed-how-tiktok-censors-videos-that-do-not-please-beijing>
- 'Oral evidence: Forced labour in UK value chains, HC 810', Business, Energy and Industrial Strategy Committee, UK House of Commons, 5-Nov-2020, <https://archive.ph/i6vzE>
- Markus Reuter and Chris Kover, 'Cheerfulness and censorship', netzpolitik.org, 23-Nov-2019, <https://web.archive.org/web/20220924071902/https://netzpolitik.org/2019/cheerfulness-and-censorship/>
- 284 Sam Biddle, Paulo Victor Ribeiro, Tatiana Dias, 'INVISIBLE CENSORSHIP: TikTok Told Moderators to Suppress Posts by "Ugly" People and the Poor to Attract New Users', The Intercept, 16-Mar-2020, <https://archive.ph/1n45R>
- Abby Ohlheiser, 'Welcome to TikTok's endless cycle of censorship and mistakes', MIT Technology Review, 13-Jul-2021, <https://web.archive.org/web/20221119070904/https://www.technologyreview.com/2021/07/13/1028401/tiktok-censorship-mistakes-glitches-apologies-endless-cycle/>
- 285 Charlotte Colombo, 'TikTok has apologized for a 'significant error' after a video that suggested racial bias in its algorithm went viral', Insider, 8-Jul-2021, <https://archive.md/9jraE>
- Sam Shead, 'TikTok apologizes after being accused of censoring #BlackLivesMatter posts', CNBC, 2-Jun-2020, <https://web.archive.org/web/20230106130612/https://www.cnn.com/2020/06/02/tiktok-blacklivesmatter-censorship.html>
- Lily Kuo, 'TikTok sorry for blocking teenager who disguised Xinjiang video as make-up tutorial', The Guardian, 28-Nov-2019, <https://web.archive.org/web/20221224015107/https://www.theguardian.com/technology/2019/nov/28/tiktok-says-sorry-to-us-teenager-blocked-after-sharing-xinjiang-videos>
- Umberto Bacchi, 'TikTok apologises for censoring LGBT+ content', Reuters, 22-Sep-2020, <https://web.archive.org/web/20230107051422/https://www.reuters.com/article/britain-tech-lgbt-idUSL5N2GJ459>
- Eric Han, 'An update on recent content and account questions', TikTok, 28-Nov-2019, <https://web.archive.org/web/20221216024217/https://newsroom.tiktok.com/en-us/an-update-on-recent-content-and-account-questions>
- Vanessa Pappas, 'A message to our Black community', TikTok, 2-Jun-2020, <https://web.archive.org/web/20230107091339/https://newsroom.tiktok.com/en-us/a-message-to-our-black-community>
- Seth Melnick and Somar Musa, 'Hashtag view count display issue post-mortem', TikTok, 17-Jun-2020, <https://web.archive.org/web/20220925143948/https://newsroom.tiktok.com/en-us/hashtag-view-count-display-issue-post-mortem>
- 286 Shen Lu, 'I helped build ByteDance's vast censorship machine', Protocol, 18-Feb-2021, <https://web.archive.org/web/20221216031945/https://www.protocol.com/china/i-built-bytedance-censorship-machine>
- 287 '造谣“上海封城”，两人被上海警方立案侦查', CCTV, 23-Mar-2022, <https://archive.ph/MmKOz>
- 288 '2018 字节跳动企业社会责任报告', ByteDance, 2018, https://web.archive.org/web/20220130223125/https://if3-static.bytednsdoc.com/obj/eden-cn/uj_shpjpmmv_ljuhklafi/ljhwZthlaukjlkulzlp/csr/csr-2018.pdf
- 289 '2018 字节跳动企业社会责任报告', ByteDance, 2018, https://web.archive.org/web/20220130223125/https://if3-static.bytednsdoc.com/obj/eden-cn/uj_shpjpmmv_ljuhklafi/ljhwZthlaukjlkulzlp/csr/csr-2018.pdf
- 290 '2018 字节跳动企业社会责任报告', ByteDance, 2018, https://web.archive.org/web/20220130223125/https://if3-static.bytednsdoc.com/obj/eden-cn/uj_shpjpmmv_ljuhklafi/ljhwZthlaukjlkulzlp/csr/csr-2018.pdf
- 291 '中央网信办深入开展网络辟谣标签工作', China News, 29-Sep-2022, <https://web.archive.org/web/20221216004319/https://www.chinanews.com.cn/gn/2022/09-29/9863196.shtml>
- 292 '全国“扫黄打非”办公室召开网络有害信息和出版物特征值共享数据库系统例会', National Anti-Pornography and Anti-Illegal Publications Office, 30-Sep-2020, <https://archive.ph/CQfrZ>
- 293 '平台直播 白律白皮书' Self-regulatory Mechanism of Live Video Streaming Platforms, ByteDance, <https://web.archive.org/web/20230109045701/http://www.dlong.com/eWebEditor/uploadfile/201907100828538576693.pdf>
- 'THREAD: This seems really alarming so I did a little digging and found that apparently ByteDance...', @lzy_Niu via Twitter, 8-Jul-2020, https://web.archive.org/web/20211103183638/https://twitter.com/lzy_Niu/status/1280911594310991877

- 294 '平台直播 白律白皮书' Self-regulatory Mechanism of Live Video Streaming Platforms', ByteDance, <http://web.archive.org/web/20230309042939/http://www.invest-data.com/eWebEditor/uploadfile/201907100828538576693.pdf>
'THREAD: This seems really alarming so I did a little digging and found that apparently ByteDance...', @Izzy_Niu via Twitter, 8-Jul-2020, https://web.archive.org/web/20211103183638/https://twitter.com/Izzy_Niu/status/1280911594310991877
- 295 '平台直播 白律白皮书' Self-regulatory Mechanism of Live Video Streaming Platforms', ByteDance, <http://web.archive.org/web/20230309042939/http://www.invest-data.com/eWebEditor/uploadfile/201907100828538576693.pdf>
'THREAD: This seems really alarming so I did a little digging and found that apparently ByteDance...', @Izzy_Niu via Twitter, 8-Jul-2020, https://web.archive.org/web/20211103183638/https://twitter.com/Izzy_Niu/status/1280911594310991877
- 296 '平台直播 白律白皮书' Self-regulatory Mechanism of Live Video Streaming Platforms', ByteDance, <http://web.archive.org/web/20230309042939/http://www.invest-data.com/eWebEditor/uploadfile/201907100828538576693.pdf>
'THREAD: This seems really alarming so I did a little digging and found that apparently ByteDance...', @Izzy_Niu via Twitter, 8-Jul-2020, https://web.archive.org/web/20211103183638/https://twitter.com/Izzy_Niu/status/1280911594310991877
- 297 '平台直播 白律白皮书' Self-regulatory Mechanism of Live Video Streaming Platforms', ByteDance, <http://web.archive.org/web/20230309042939/http://www.invest-data.com/eWebEditor/uploadfile/201907100828538576693.pdf>
'THREAD: This seems really alarming so I did a little digging and found that apparently ByteDance...', @Izzy_Niu via Twitter, 8-Jul-2020, https://web.archive.org/web/20211103183638/https://twitter.com/Izzy_Niu/status/1280911594310991877
- 298 Shen Lu, 'I helped build ByteDance's vast censorship machine', Protocol, 18-Feb-2021, <https://web.archive.org/web/20221216031945/https://www.protocol.com/china/i-built-bytedance-censorship-machine>
- 299 Shen Lu, 'I helped build ByteDance's vast censorship machine', Protocol, 18-Feb-2021, <https://web.archive.org/web/20221216031945/https://www.protocol.com/china/i-built-bytedance-censorship-machine>
- 300 Shen Lu, 'I helped build ByteDance's vast censorship machine', Protocol, 18-Feb-2021, <https://web.archive.org/web/20221216031945/https://www.protocol.com/china/i-built-bytedance-censorship-machine>
- 301 '字节跳动党委：要把讲导向守责任放首位', The Paper via Sina, 29-Apr-2018, <https://archive.ph/EJNyo>
- 302 '2018 字节跳动企业社会责任报告', ByteDance, 2018, https://web.archive.org/web/20220130223125/https://lf3-static.bytednsdoc.com/obj/eden-cn/uj_shpjpmmv_ljuhklafi/ljhwZthlaukjlkulzlp/csr/csr-2018.pdf
- 303 '字节跳动两员工收钱将指定内容推上抖音热榜 自首获刑', Fanwubi, 30-Nov-2021, <https://web.archive.org/web/20221114002717/https://www.fanwubi.org/Item/200523.aspx>
- 304 '抖音回应员工受贿被判刑：将严厉打击内部贪腐', Fanwubi, 13-Dec-2021, <https://archive.ph/WnOaw>
- 305 Emily Baker-White, 'TikTok's Secret 'Heating' Button Can Make Anyone Go Viral', Forbes, 20-Jan-2023, <https://web.archive.org/web/20230207023409/https://www.forbes.com/sites/emilybaker-white/2023/01/20/tiktoks-secret-heating-button-can-make-anyone-go-viral/?sh=11952ae6bfd4>
- 306 '字节跳动投资报告', ByteDance via Vzkoo, Sep-2022, <https://web.archive.org/web/20230309021933/https://www.vzkoo.com/document/20221019fdf26403c23542f51b8cd8d8.html?keyword=%E5%AD%97%E8%8A%82%E8%B7%B3%E5%8A%A8>
- 307 '字节跳动投资报告', ByteDance via Vzkoo, Sep-2022, <https://web.archive.org/web/20230309021933/https://www.vzkoo.com/document/20221019fdf26403c23542f51b8cd8d8.html?keyword=%E5%AD%97%E8%8A%82%E8%B7%B3%E5%8A%A8>
- 308 '字节跳动投资报告', ByteDance via Vzkoo, Sep-2022, <https://web.archive.org/web/20230309021933/https://www.vzkoo.com/document/20221019fdf26403c23542f51b8cd8d8.html?keyword=%E5%AD%97%E8%8A%82%E8%B7%B3%E5%8A%A8>
- 309 '网络短视频内容审核标准细则（2021）', China Netcasting Services Association, 16-Dec-2021, <https://archive.ph/C6jpS>
- 310 "'抖音"服务协议', Douyin, 06-Jul-2022, <https://archive.ph/8zrEY>
- 311 "'抖音"服务协议', Douyin, 06-Jul-2022, <https://archive.ph/8zrEY>
- 312 '《网络短视频平台管理规范》《网络短视频内容审核标准细则》发布', People's Network, 10-Jan-2019, <https://archive.ph/UWgWc>
'网络短视频内容审核标准细则（2021）', China Netcasting Services Association, 16-Dec-2021, <https://archive.ph/C6jpS>

- 313 '《网络短视频平台管理规范》《网络短视频内容审核标准细则》发布', People's Network, 10-Jan-2019, <https://archive.ph/UWgWc>
- '网络短视频内容审核标准细则 (2021)', China Netcasting Services Association, 16-Dec-2021, <https://archive.ph/C6jpS>
- 314 '今日头条启动招聘 2000 名内容审核编辑: 党员优先', The Paper, 3-Jan-2018, https://web.archive.org/web/20221116013004/https://www.thepaper.cn/newsDetail_forward_1932733
- 315 '2018 字节跳动企业社会责任报告', ByteDance, https://web.archive.org/web/20220130223125/https://lf3-static.bytednsdoc.com/obj/eden-cn/uj_shpjpmmv_ljuhklafi/ljhwZthlaukjlkulzlp/csr/csr-2018.pdf
- 316 Shen Lu, 'I helped build ByteDance's vast censorship machine', Protocol, 18-Feb-2021, <https://web.archive.org/web/20221216031945/https://www.protocol.com/china/i-built-bytedance-censorship-machine>
- 'The censor cannot hold: the pressure of controlling China's internet', France24, 6-Oct-2022, <http://web.archive.org/web/20221108193721/https://www.france24.com/en/live-news/20221006-the-censor-cannot-hold-the-pressure-of-controlling-china-s-internet>
- '前新浪微博内容审核员专访: 中共如何打造网络“真理部”', VOA, 12-Aug-2020, <https://web.archive.org/web/20221209214136/https://www.voachinese.com/a/internet-censorship-20200812/5540475.html>
- 317 'Exclusive: ByteDance censored anti-China content in Indonesia until mid-2020 - sources', Reuters, 13-Aug-2020, <https://archive.ph/YXigt>
- 318 'Exclusive: ByteDance censored anti-China content in Indonesia until mid-2020 - sources', Reuters, 13-Aug-2020, <https://archive.ph/YXigt>
- 319 'TikTok Owner ByteDance Used A News App On Millions Of Phones To Push Pro-China Messages, Ex-Employees Say', BuzzFeed, 26-Jul-2022, <https://web.archive.org/web/20221108220821/https://www.buzzfeednews.com/article/emilybakerwhite/tiktok-bytedance-topbuzz-pro-china-content>
- 320 'TikTok Owner ByteDance Used A News App On Millions Of Phones To Push Pro-China Messages, Ex-Employees Say', BuzzFeed, 26-Jul-2022, <https://web.archive.org/web/20221108220821/https://www.buzzfeednews.com/article/emilybakerwhite/tiktok-bytedance-topbuzz-pro-china-content>
- 321 'Chinese government asked TikTok for stealth propaganda account,' Bloomberg, 29-Jul-2022, <https://archive.ph/hyF2j>
- 322 '舆情负责人', ByteDance, <https://web.archive.org/web/20221220123928/https://jobs.bytedance.com/experienced/position/6760519636069910792/detail?recomId=a3f08a23-8062-11ed-84f1-fa163ef1500c&sourceJobId=6839512909916686599>
- '高级舆情分析师', ByteDance, <https://archive.ph/dg3K0>
- '舆情分析专家', ByteDance, <https://archive.ph/sa2Ys>
- '互联网信息摘要与机器写稿关键技术及应用', Wu Wen Jun AI Science & Technology Award, 25-Jan-2018, <https://web.archive.org/web/20221220193738/http://award.wuwenjunkejijiang.cn/wj/news.aspx?pkid=11590&tid=13535>
- 'Xiaojun Wan', GitHub, <https://archive.ph/gvs2N>
- 'Ad Targeting', TikTok, <https://ads.tiktok.com/help/article/ad-targeting?lang=en>
- 'Purchase Intent Targeting', TikTok, <https://ads.tiktok.com/help/article?aid=10014017>
- 323 '字节跳动两员工收钱将指定内容推上抖音热榜 自首获刑', Fanwubi, 30-Nov-2021, <https://web.archive.org/web/20221114002717/https://www.fanwubi.org/ltem/200523.aspx>
- Emily Baker-White, 'TikTok's Secret "Heating" Button Can Make Anyone Go Viral', Forbes, 20-Jan-2023, <https://web.archive.org/web/20230207023409/https://www.forbes.com/sites/emilybaker-white/2023/01/20/tiktoks-secret-heating-button-can-make-anyone-go-viral/?sh=11952ae6bfd4>
- 324 'TikTok 内幕: 张一鸣的巨浪征途', Jiemian via Sina, 25-Apr-2022, <https://archive.ph/geqqt>
- 325 '张一鸣荣获“中关村创新创业青年英豪” 称科技企业应承担更多责任', Economic Daily, 7-Dec-2017, https://web.archive.org/web/20221117171922/http://www.ce.cn/xwzx/kj/201712/07/t20171207_27160272.shtml
- 326 '张一鸣荣获“中关村创新创业青年英豪” 称科技企业应承担更多责任', Economic Daily, 7-Dec-2017, https://web.archive.org/web/20221117171922/http://www.ce.cn/xwzx/kj/201712/07/t20171207_27160272.shtml
- 327 '张一鸣荣获“中关村创新创业青年英豪” 称科技企业应承担更多责任', Economic Daily, 7-Dec-2017, https://web.archive.org/web/20221117171922/http://www.ce.cn/xwzx/kj/201712/07/t20171207_27160272.shtml
- 328 '张一鸣荣获“中关村创新创业青年英豪” 称科技企业应承担更多责任', Economic Daily, 7-Dec-2017, https://web.archive.org/web/20221117171922/http://www.ce.cn/xwzx/kj/201712/07/t20171207_27160272.shtml
- 329 “十四五”时期中关村东城园发展规划', Beijing Doncheng Government via NCSTI.gov, 11-Sep-2022, <https://archive.ph/cTQqq>

- 330 '北京字节跳动企业社会责任报告', ByteDance, 10-Mar-2021,
<https://web.archive.org/web/20230216075729/http://p3-bd-official.byteimg.com/obj/bytedance-cn/2021%E5%8C%97%E4%BA%AC%E5%AD%97%E8%8A%82%E8%B7%B3%E5%8A%A8%E4%BC%81%E4%B8%9A%E7%A4%BE%E4%BC%9A%E8%B4%A3%E4%BB%BB%E6%8A%A5%E5%91%8A.pdf>
- 331 '北京字节跳动企业社会责任报告', ByteDance, 10-Mar-2021,
<https://web.archive.org/web/20230216075729/http://p3-bd-official.byteimg.com/obj/bytedance-cn/2021%E5%8C%97%E4%BA%AC%E5%AD%97%E8%8A%82%E8%B7%B3%E5%8A%A8%E4%BC%81%E4%B8%9A%E7%A4%BE%E4%BC%9A%E8%B4%A3%E4%BB%BB%E6%8A%A5%E5%91%8A.pdf>
- 332 '北京成立智源人工智能研究院', People's Network, 14-Nov-2018, <https://archive.ph/RgMuO>
'Addition of Certain Entities to the Entity List', Industry and Security Bureau via Federal Register, 09-Oct-2019,
<https://archive.ph/HhyU6>
'Treasury Identifies Eight Chinese Tech Firms as Part of The Chinese Military-Industrial Complex', U.S. Department of the Treasury, 16-Dec-2021, <https://home.treasury.gov/news/press-releases/jy0538>
- 333 'Treasury Identifies Eight Chinese Tech Firms as Part of The Chinese Military-Industrial Complex', U.S. Department of the Treasury, 16-Dec-2021, <https://home.treasury.gov/news/press-releases/jy0538>
'Addition of Certain Entities to the Entity List', Industry and Security Bureau via Federal Register, 09-Oct-2019,
<https://archive.ph/HhyU6>
- 334 '新一代人工智能发展规划的通知', gov.cn, 20-Jul-2017,
https://web.archive.org/web/20221105172041/http://www.gov.cn/zhengce/content/2017-07/20/content_5211996.htm
- 335 '新一代人工智能发展规划的通知', gov.cn, 20-Jul-2017,
https://web.archive.org/web/20221105172041/http://www.gov.cn/zhengce/content/2017-07/20/content_5211996.htm
- 336 '新一代人工智能发展规划的通知', gov.cn, 20-Jul-2017,
https://web.archive.org/web/20221105172041/http://www.gov.cn/zhengce/content/2017-07/20/content_5211996.htm
- 337 China Defence Universities Tracker, Australian Strategic Policy Institute, last updated 05-2021,
<https://unitracker.aspi.org.au/>
- 338 'Huazhong University of Science and Technology', Australian Strategic Policy Institute, 18-Nov-2019,
<https://unitracker.aspi.org.au/universities/huazhong-university-of-science-and-technology/>
- 339 'Person Re-Identification With Hierarchical Discriminative Spatial Aggregation', IEEE, vol. 17, 26-Jan-2022,
<https://archive.ph/cl1p5>
- 340 'People's Public Security University of China', ASPI, 21-Nov-2019,
<https://unitracker.aspi.org.au/universities/peoples-public-security-university-of-china/>
- 341 'An Overview of Deepfake: The Sword of Damocles in AI 265', 2020 International Conference on Computer Vision, Image and Deep Learning (CVIDL), 10-Jul-2020, <https://archive.ph/VPnsN>
'面向中文文本分类的词级对抗样本生成方法', 信息网络安全,
https://web.archive.org/web/20221028092147/https://kns.cnki.net/kcms/detail/detail.aspx?dbcode=CJFD&dbname=CJFDLAST2020&filename=XXAQ202009004&uniplatform=NZKPT&v=sJjxsAJahrnTSFLRDzmdhGKRLZ_mtsFBsH-JG14_mFZodpZrOEw0iY-qPZZoPip8
- 342 'Tsinghua University', ASPI, 21-Nov-2019, <https://unitracker.aspi.org.au/universities/tsinghua-university/>
- 343 '清华大学、字节跳动 | Multimodal Entity Tagging with Multimodal Knowledge Base (基于多模态知识库的多模态实体标注)', BAAI.ac.cn, 4-Jan-2022, <https://archive.ph/a35OS>
'Subspace Attack: Exploiting Promising Subspaces for Query-Efficient Black-box Attacks', 33rd Conference on Neural Information Processing Systems (NeurIPS 2019),
<https://proceedings.neurips.cc/paper/2019/file/2cad8fa47bbef282badbb8de5374b894-Paper.pdf>
'字节 AI Lab 推出业界首个系统性大分子体系的量子计算模拟方法, 成果入选《Chemical Science》', BAAI, 25-Jul-2022, <https://archive.ph/sOfco>
- 344 'Peking University', ASPI, 20-Nov-2019, <https://unitracker.aspi.org.au/universities/peking-university/>
- 345 '北京大学-字节跳动数字人文开放实验室', Research Center for Digital Humanities of PKU,
<https://archive.ph/MQG3k>
'北大、字节跳动等联合 | Contextual Representation Learning beyond Masked Language Modeling (掩码语言建模之上的语境表征学习)', BAAI.ac.cn, 11-Apr-2022, <https://archive.ph/5lOmF>
'Unified Perceptual Parsing for Scene Understanding', 15th European Conference on Computer Vision,
<https://web.archive.org/web/20211204180726/https://people.csail.mit.edu/bzhou/publication/eccv18-segment.pdf>
'北大万小军 | 智能文本生成: 进展与挑战', China InfoCom Media Group, 16-Feb-2023, <https://archive.ph/sjvod>
- 346 'Person Re-Identification With Hierarchical Discriminative Spatial Aggregation', IEEE, vol. 17, 26-Jan-2022,
<https://archive.ph/cl1p5>
'面向中文文本分类的词级对抗样本生成方法', 信息网络安全,

- https://web.archive.org/web/20221028092147/https://kns.cnki.net/kcms/detail/detail.aspx?dbcode=CJFD&dbna me=CJFDLAST2020&filename=XXAQ202009004&uniplatform=NZKPT&v=sJjxsAJahrTSFLRDzmdGkRLZ_mtsf BsH-JG14_mfZodpZrOEw0iY-qPZZoPip8
- 'Subspace Attack: Exploiting Promising Subspaces for Query-Efficient Black-box Attacks', 33rd Conference on Neural Information Processing Systems (NeurIPS 2019), <https://proceedings.neurips.cc/paper/2019/file/2cad8fa47bbef282badbb8de5374b894-Paper.pdf>
- 347 'Addition of Certain Entities to the Entity List', Industry and Security Bureau via Federal Register, 09-Oct-2019, <https://archive.ph/HhyU6>
- 348 '立昂技术与字节跳动在数据中心业务方面有合作', Shanghai Securities News, 20-May-2022, <https://archive.ph/8v0HX>
- 349 'Addition of Certain Entities to the Entity List', Industry and Security Bureau via Federal Register, 09-Oct-2019, <https://archive.ph/HhyU6>
- 'Treasury Identifies Eight Chinese Tech Firms as Part of The Chinese Military-Industrial Complex', U.S. Department of the Treasury, 16-Dec-2021, <https://archive.ph/ljRn3>
- 'Can SenseTime become a Chinese AI champion?', Financial Times, 29-Sep-2021, <https://archive.ph/bBkcP>
- 350 'Face – Inspire your Beauty', Amazon, <https://archive.ph/JxjPE>
- 'FaceU – Inspire your Beauty', Google Play, https://play.google.com/store/apps/details?id=com.lemon.faceu.oversea&hl=en_GB&gl=US
- 351 'U.S. Blacklists More Chinese Tech Companies Over National Security Concerns', The New York Times, 21-Jun-2019, <https://archive.ph/jMQCu>
- 352 '2018 业务拆解', Dawning Information Industry via Zhongtai Securities, 21-Apr-2019, https://pdf.dfcfw.com/pdf/H3_AP201904221321136186_1.pdf
- 353 'Addition of Certain Entities to the Entity List', Industry and Security Bureau via Federal Register, 09-Oct-2019, <https://archive.ph/HhyU6>
- 354 "'看见词曲计划"上线, 讯飞音乐联动抖音音乐, 为优秀词曲助力', Jiangxi TV via China Daily, 19-Nov-2021, <https://web.archive.org/web/20221127041448/https://cn.chinadaily.com.cn/a/202111/19/WS61973540a3107be4979f8ffe.html>
- '抖音联手讯飞智声 AI 黑科技让明星念出你名字送专属祝福', iFeng, 11-Feb-2018, <https://archive.ph/amsVF>
- '智能语音, 让飞书更高效', iFlytek, <https://archive.ph/wVle8>
- 355 'Treasury Identifies Eight Chinese Tech Firms as Part of The Chinese Military-Industrial Complex', U.S. Department of the Treasury, 16-Dec-2021, <https://home.treasury.gov/news/press-releases/jy0538>
- 'Addition of Certain Entities to the Entity List', Industry and Security Bureau via Federal Register, 09-Oct-2019, <https://archive.ph/HhyU6>
- 356 'Unified Perceptual Parsing for Scene Understanding', 15th European Conference on Computer Vision, <https://web.archive.org/web/20211204180726/https://people.csail.mit.edu/bzhou/publication/eccv18-segment.pdf>
- 357 '我国将强化互联网安全管理着力 提升保护网民个人信息能力', Economic Daily via gov.cn, 5-Aug-2015, <https://archive.ph/xPtUz>
- 358 '字节跳动党委书记张辅评: 抖音打造"警务亲民"新模式', Guangming Online, 14-Sep-2018, <https://archive.ph/VRNBJ>
- 359 '字节跳动党委书记张辅评: 抖音打造"警务亲民"新模式', Guangming Online, 14-Sep-2018, <https://archive.ph/VRNBJ>
- 360 '字节跳动党委书记张辅评: 抖音打造"警务亲民"新模式', Guangming Online, 14-Sep-2018, <https://archive.ph/VRNBJ>
- 361 '画好网上网下同心圆, 全国公安新媒体矩阵入驻今日头条、抖音', China Daily, 25-Apr-2019, <https://web.archive.org/web/20221116024646/http://ex.chinadaily.com.cn/exchange/partners/82/rss/channel/cn/columns/sz8srm/stories/WS5cc15248a310e7f8b15790d3.html>
- '2019 字节跳动 (中国) 企业社会责任报告', ByteDance, 2019, https://web.archive.org/web/20220130223129/https://lf3-static.bytednsdoc.com/obj/eden-cn/uj_shpjpmmv_ljuhklafi/ljhwZthlaukjlkulzlp/csr/csr-2019.pdf
- 362 '抖音发布《2022 年反诈报告》平台诈骗投诉量同比下降 78.96%', China News, 23-May-2022, <https://archive.ph/Va0ed>
- 363 '抖音发布《2022 年反诈报告》平台诈骗投诉量同比下降 78.96%', China News, 23-May-2022, <https://archive.ph/Va0ed>
- 364 'Smart Asian women are the new targets of CCP global online repression', ASPI, 3-Jun-2022, <http://web.archive.org/web/20230102150718/https://www.aspistrategist.org.au/smart-asian-women-are-the-new-targets-of-ccp-global-online-repression/>
- 'Removing Coordinated Inauthentic Behavior From China and Russia', Meta, 27-Sep-2022, <https://web.archive.org/web/20221219215524/https://about.fb.com/news/2022/09/removing-coordinated-inauthentic-behavior-from-china-and-russia/>

- 365 'How China Spreads Its Propaganda Version of Life in Xinjiang', New York Times, 22-Jun-2021, <https://web.archive.org/web/20221205103657/https://www.nytimes.com/interactive/2021/06/22/technology/xinjiang-uyghurs-china-propaganda.html>
- 'Removing Coordinated Inauthentic Behavior From China and Russia', Meta, 27-Sep-2022, <https://web.archive.org/web/20221219215524/https://about.fb.com/news/2022/09/removing-coordinated-inauthentic-behavior-from-china-and-russia/>
- 'Pro-PRC DRAGONBRIDGE Influence Campaign Leverages New TTPs to Aggressively Target U.S. Interests, Including Midterm Elections', Mandiant, 26-Oct-2022, <https://web.archive.org/web/20221217153852/https://www.mandiant.com/resources/blog/prc-dragonbridge-influence-elections>
- 'MAGA porn, hate for Trump: China-based accounts stoke division', Washington Post, 1-Nov-2022, <https://archive.ph/xlcnp>
- 366 'US warns about foreign efforts to sway American voters', AP News, 4-Oct-2022, <https://web.archive.org/web/20221119101144/https://apnews.com/article/2022-midterm-elections-russia-ukraine-campaigns-presidential-ea913f2b3b818651a9db1327adaa330a>
- 367 'Buying Influence: How China Manipulates Facebook and Twitter', NYT, 20-Dec-2021, <https://web.archive.org/web/20221130213118/https://www.nytimes.com/interactive/2021/12/20/technology/china-facebook-twitter-influence-manipulation.html>
- 368 Drew Harwell and Tony Romm, 'TikTok's Beijing roots fuel censorship suspicion as it builds a huge U.S. audience', Washington Post, 15-Sep-2019, <https://www.washingtonpost.com/technology/2019/09/15/tiktoks-beijing-roots-fuel-censorship-suspicion-it-builds-huge-us-audience/>
- 369 Drew Harwell and Tony Romm, 'TikTok's Beijing roots fuel censorship suspicion as it builds a huge U.S. audience', Washington Post, 15-Sep-2019, <https://www.washingtonpost.com/technology/2019/09/15/tiktoks-beijing-roots-fuel-censorship-suspicion-it-builds-huge-us-audience/>
- 370 Drew Harwell and Tony Romm, 'TikTok's Beijing roots fuel censorship suspicion as it builds a huge U.S. audience', Washington Post, 15-Sep-2019, <https://www.washingtonpost.com/technology/2019/09/15/tiktoks-beijing-roots-fuel-censorship-suspicion-it-builds-huge-us-audience/>
- 371 'TikTok: Ich habe China kritisiert, dann wurden meine Videos versteckt', Vice, 12-Dec-2019, <https://archive.ph/Yv5kG>
- 372 Fergus Ryan, Audrey Fritz and Daria Impiombato, 'TikTok and WeChat: Curating and controlling global information flows,' ASPI International Cyber Policy Centre Report No. 37/2020, <https://ad-aspi.s3.ap-southeast-2.amazonaws.com/2020-09/TikTok%20and%20WeChat.pdf?VersionId=7BNJWaoHImPVE.6KKcBP1JRD5fRnAVTZ>
- 373 Fergus Ryan, Audrey Fritz and Daria Impiombato, 'TikTok and WeChat: Curating and controlling global information flows,' ASPI International Cyber Policy Centre Report No. 37/2020, <https://ad-aspi.s3.ap-southeast-2.amazonaws.com/2020-09/TikTok%20and%20WeChat.pdf?VersionId=7BNJWaoHImPVE.6KKcBP1JRD5fRnAVTZ>
- 374 Fergus Ryan, Audrey Fritz and Daria Impiombato, 'TikTok and WeChat: Curating and controlling global information flows,' ASPI International Cyber Policy Centre Report No. 37/2020, <https://ad-aspi.s3.ap-southeast-2.amazonaws.com/2020-09/TikTok%20and%20WeChat.pdf?VersionId=7BNJWaoHImPVE.6KKcBP1JRD5fRnAVTZ>
- 375 'Election Integrity,' TikTok, <https://web.archive.org/web/20221221080501/https://www.tiktok.com/safety/en/election-integrity/>
- 376 'TikTok and Facebook fail to detect election disinformation in the US, while YouTube succeeds,' Global Witness, 21-Oct-2022, <https://web.archive.org/web/20221220033404/https://www.globalwitness.org/en/campaigns/digital-threats/tiktok-and-facebook-fail-detect-election-disinformation-us-while-youtube-succeeds/>
- 377 'TikTok and Facebook fail to detect election disinformation in the US, while YouTube succeeds,' Global Witness, 21-Oct-2022, <https://web.archive.org/web/20221220033404/https://www.globalwitness.org/en/campaigns/digital-threats/tiktok-and-facebook-fail-detect-election-disinformation-us-while-youtube-succeeds/>
- 378 Sarah Perez, 'Google exec suggests Instagram and TikTok are eating into Google's core products, Search and Maps', TechCrunch, 13-Jul-2022, <https://archive.md/Huq9H>
- 379 Kari Paul and Dan Milmo, 'Elon Musk completes Twitter takeover and 'fires top executives'', The Guardian, 28-Oct-2022, <https://www.theguardian.com/technology/2022/oct/27/elon-musk-completes-twitter-takeover>
- Sheila Dang, Paresh Dave and Hyunjoo Jin, 'After Elon Musk's ultimatum, Twitter employees start exiting', Reuters, 19-Nov-2022, <https://www.reuters.com/technology/after-elon-musks-ultimatum-twitter-employees-start-exiting-2022-11-18/>
- Sheila Dang, Paresh Dave and Hyunjoo Jin, 'Twitter lays off staff, Musk blames activists for ad revenue drop', Reuters, 5-Nov-2022, <https://www.reuters.com/technology/twitter-start-layoffs-friday-morning-internal-email-2022-11-04/>
- Kate Conger, Ryan Mac and Mike Isaac, 'Confusion and Frustration Reign as Elon Musk Cuts Half of Twitter's Staff', The New York Times, 4-Nov-2022, <https://www.nytimes.com/2022/11/04/technology/elon-musk-twitter-layoffs.html>

- Ashley Belanger, 'Twitter lays off 5K contractors in surprise 2nd wave of cuts, more mods lost', Ars Technica, 15-Nov-2022, <https://arstechnica.com/tech-policy/2022/11/twitter-lays-off-5k-contractors-in-surprise-2nd-wave-of-cuts-more-mods-lost/>
- Clare Duffy and Oliver Darcy, 'Twitter employees head for the exits after Elon Musk's 'extremely hardcore' work ultimatum', CNN, 18-Nov-2022, <https://edition.cnn.com/2022/11/17/tech/twitter-employees-ultimatum-deadline>
- Kali Hays, 'Less than half of Twitter's remaining employees signed up to work for Elon Musk's 'hardcore' vision, leaving leaders scrambling to persuade people to stay', Business Insider, 18-Nov-2022, <https://www.businessinsider.com/twitter-elon-musk-half-working-2022-11>
- Ryan Mac, Mike Isaac and Kellen Browning, 'Elon Musk's Twitter Teeters on the Edge After Another 1,200 Leave', The New York Times, 18-Nov-2022, <https://www.nytimes.com/2022/11/18/technology/elon-musk-twitter-workers-quit.html>
- Kate Conger, Mike, Ryan Mac and Tiffany Hsu, 'Two Weeks of Chaos: Inside Elon Musk's Takeover of Twitter', The New York Times, 11-Nov-2022, <https://www.nytimes.com/2022/11/11/technology/elon-musk-twitter-takeover.html>
- 380 Thomas Perkins, 'TikTok Analysis', Internet 2.0, 4-Jul-2022, <https://internet2-0.com/wp-content/uploads/2022/08/TikTok-Technical-Analysis-17-Jul-2022.-Media-Release.pdf>
- 381 Thomas Perkins, 'TikTok Analysis', Internet 2.0, 4-Jul-2022, <https://internet2-0.com/wp-content/uploads/2022/08/TikTok-Technical-Analysis-17-Jul-2022.-Media-Release.pdf>
- 382 Thomas Perkins, 'TikTok Analysis', Internet 2.0, 4-Jul-2022, <https://internet2-0.com/wp-content/uploads/2022/08/TikTok-Technical-Analysis-17-Jul-2022.-Media-Release.pdf>
- 383 'Smart Asian women are the new targets of CCP global online repression', ASPI, 3-Jun-2022, <http://web.archive.org/web/20230102150718/https://www.aspistrategist.org.au/smart-asian-women-are-the-new-targets-of-ccp-global-online-repression/>
- 384 'TikTok Analysis', Internet 2.0, 4-Jul-2022, <https://internet2-0.com/wp-content/uploads/2022/08/TikTok-Technical-Analysis-17-Jul-2022.-Media-Release.pdf>
- 385 'Device Fingerprinting Techniques', Darkwave Technology 27-Sep-2013, <https://www.darkwavetech.com/index.php/device-fingerprint-blog/device-fingerprinting-techniques#:~:text=SDK-based%20device%20fingerprinting%20is%20the%20most%20powerful%20form,unique%20hardware%20based%20identifiers%20%28IMEI%2C%20MAC%20address%2C%20etc.%29>
- 386 'Manifest.permission', Android for Developers, <http://web.archive.org/web/20230217042729/https://developer.android.com/reference/android/Manifest.permission>
- 387 'EXCLUSIVE: TikTok Spied on Forbes Journalists', Forbes, 22-Dec-2022, <https://www.forbes.com/sites/emilybaker-white/2022/12/22/tiktok-tracks-forbes-journalists-bytedance/?sh=5aebf8af7da5>
- 'TikTok Parent ByteDance Planned to Use TikTok to Monitor The Physical Location Of Specific American Citizens', Forbes, 20-Oct-2022, <https://www.forbes.com/sites/emilybaker-white/2022/10/20/tiktok-bytedance-surveillance-american-user-data/?sh=436b90e36c2d>
- 'Leaked Audio From 80 Internal TikTok Meetings Shows That US User Data Has Been Repeatedly Accessed From China', BuzzFeed News, 18-Jun-2022, <https://www.buzzfeednews.com/article/emilybakerwhite/tiktok-tapes-us-user-data-china-bytedance-access>
- 388 'TikTok admits tracking FT journalists in leaks investigation', Financial Times, 23-Dec-2022, <https://www.ft.com/content/e873b98a-9623-45b3-b97c-444a2fde5874>
- 'EXCLUSIVE: TikTok Spied on Forbes Journalists', Forbes, 22-Dec-2022, <https://www.forbes.com/sites/emilybaker-white/2022/12/22/tiktok-tracks-forbes-journalists-bytedance/?sh=24c71c2e7da5>
- 389 'EXCLUSIVE: TikTok Spied on Forbes Journalists', Forbes, 22-Dec-2022, <https://www.forbes.com/sites/emilybaker-white/2022/12/22/tiktok-tracks-forbes-journalists-bytedance/?sh=24c71c2e7da5>
- 390 'Worldwide threats to the Homeland', House Homeland Security Committee, 15-Nov-2022, https://homeland.house.gov/activities/hearings/11/04/2022/worldwide-threats-to-the-homeland?utm_campaign=wp_the_cybersecurity_202&utm_medium=email&utm_source=newsletter&wpisrc=nl_cybersecurity202
- 391 'Fireside Chat with DNI Haines at the Reagan National Defense Forum', Office of the Director of National Intelligence, 12-Dec-2022, <https://web.archive.org/web/20221221203155/https://www.dni.gov/index.php/newsroom/news-articles/news-articles-2022/item/2346-fireside-chat-with-dni-haines-at-the-reagan-national-defense-forum>
- 392 'CIA Director Bill Burns on war in Ukraine, intelligence challenges posed by China', PBS, 16-Dec-2022, <https://web.archive.org/web/20221220084613/https://www.pbs.org/newshour/show/cia-director-bill-burns-on-war-in-ukraine-intelligence-challenges-posed-by-china>

- 393 'TikTok Seen Moving Toward U.S. Security Deal, but Hurdles Remain', NYT, 26-Sep-2022,
<https://web.archive.org/web/20221220031733/https://www.nytimes.com/2022/09/26/technology/tiktok-national-security-china.html>
- 'Exclusive: TikTok steps up efforts to clinch U.S. security deal', NYT, 23-Dec-2022,
<https://web.archive.org/web/20230103114037/https://www.reuters.com/technology/tiktok-steps-up-efforts-clinch-us-security-deal-2022-12-22/>
- 394 'TikTok Parent ByteDance Planned To Use TikTok To Monitor The Physical Location Of Specific American Citizens', Forbes, 20-Oct-2022, <https://www.forbes.com/sites/emilybaker-white/2022/10/20/tiktok-bytedance-surveillance-american-user-data/?sh=13bc42106c2d>
- 395 'TikTok Parent ByteDance Planned To Use TikTok To Monitor The Physical Location Of Specific American Citizens', Forbes, 20-Oct-2022, <https://www.forbes.com/sites/emilybaker-white/2022/10/20/tiktok-bytedance-surveillance-american-user-data/?sh=13bc42106c2d>
- 396 'Leaked Audio From 80 Internal TikTok Meetings Shows That US User Data Has Been Repeatedly Accessed From China', BuzzFeed, 18-Jun-2022,
<https://web.archive.org/web/20221220160321/https://www.buzzfeednews.com/article/emilybakerwhite/tiktok-tapes-us-user-data-china-bytedance-access>
- 397 'As Washington wavers on TikTok, Beijing exerts control', Washington Post, 28-Oct-2022,
<https://web.archive.org/web/20221101005158/https://www.washingtonpost.com/technology/interactive/2022/bytedance-tiktok-privacy-china/>
- 398 'Leaked Audio From 80 Internal TikTok Meetings Shows That US User Data Has Been Repeatedly Accessed From China', BuzzFeed, 18-Jun-2022,
<https://web.archive.org/web/20221220160321/https://www.buzzfeednews.com/article/emilybakerwhite/tiktok-tapes-us-user-data-china-bytedance-access>
- 399 'Privacy Policy', TikTok, 2-Dec-2022,
<https://web.archive.org/web/20221220210344/https://www.tiktok.com/legal/page/us/privacy-policy/en>
- 400 'Privacy Policy', TikTok, 2-Jun-2021, <https://archive.md/Zmb97>
- 401 "'Are There TikTok Employees... Who Are Members Of The Chinese Communist Party?" Hawley Grills Exec', Forbes Breaking News via YouTube, 15-Sep-2022, <https://www.youtube.com/watch?v=meWM8d4Uz7Q>
- 402 'Sharing an Update to our Privacy Policy, TikTok, 2-Nov-2022,
<https://web.archive.org/web/20221222004443/https://newsroom.tiktok.com/en-eu/sharing-an-update-to-our-privacy-policy>
- 403 'Portman Presses Meta Official on Policies Allowing Exploitation of Children', US Senate Committee on Homeland Security & Governmental Affairs, 14-Sep-2022,
<https://web.archive.org/web/20221216222855/https://www.hsgac.senate.gov/media/minority-media/portman-presses-meta-official-on-policies-allowing-exploitation-of-children>
- 404 'Our approach to keeping U.S. data secure', TikTok, 6-Jul-2022,
<https://web.archive.org/web/20221216062057/https://newsroom.tiktok.com/en-us/our-approach-to-keeping-us-data-secure>
- 405 'Our approach to keeping U.S. data secure', TikTok, 6-Jul-2022,
<https://web.archive.org/web/20221216062057/https://newsroom.tiktok.com/en-us/our-approach-to-keeping-us-data-secure>
- 406 'Privacy Policy', TikTok, 2-Jun-2021,
<https://web.archive.org/web/20221220210344/https://www.tiktok.com/legal/page/us/privacy-policy/en>
- 407 'TikTok national-security deal roiled by internal strife', Politico, 16-Dec-2022,
<https://www.politico.com/news/2022/12/16/biden-administration-at-odds-over-forcing-tiktok-divestment-00074415>
- 408 'Lawmaker says sale of TikTok to US company could avoid outright ban', FT, 1-Jan-2023,
<https://archive.ph/eqQAH>
- 409 'Complaint for injunctive and declaratory relief, Case No. 2:20-cv-7672', United States District Court, Central District of California Western Division, 24-Aug-2020,
<https://web.archive.org/web/20211021140428/https://s3.documentcloud.org/documents/7043128/031133742970.pdf>
- 410 '外交部：支持 TikTok 等相关企业拿起法律武器维护正当权益', Xinhua, 24-Aug-2020,
https://web.archive.org/web/20210319224924/http://www.xinhuanet.com/world/2020-08/24/c_1126407522.htm
- 411 '新华国际时评：用法律武器向经济霸凌说“不”', Xinhua, 25-Aug-2020,
https://web.archive.org/web/20210319230159/http://www.xinhuanet.com/world/2020-08/25/c_1126409507.htm
- 'TikTok's algorithm not for sale, ByteDance tells US: source', SCMP, 13-Sep-2020,
<https://web.archive.org/web/20200913160256/https://www.scmp.com/economy/china-economy/article/3101362/tiktoks-algorithm-not-sale-bytedance-tells-us-source>
- '商务部 科技部公告 2020 年第 38 号 关于调整发布《中国禁止出口限制出口技术目录》的公告', Ministry of Commerce, PRC, 28-Aug-2020,

- <https://web.archive.org/web/20221031213250/http://www.mofcom.gov.cn/article/b/xxfb/202008/20200802996641.shtml>
- '《中国禁止出口限制出口技术目录》调整内容', Ministry of Commerce, PRC, <https://web.archive.org/web/20220709223655/http://images.mofcom.gov.cn/fms/202008/20200828200911003.pdf>
- 412 'Planned TikTok deal entails China's approval under revised catalogue: expert', Xinhua, 30-Aug-2020, https://web.archive.org/web/20221030175546/http://www.xinhuanet.com/english/2020-08/30/c_139329598.htm
- 413 '公司关注到商务部和科技部于 8 月 28 日, 联合公布《关于调整发布<中国禁止出口限制出口技术目录>的公告》, '公司将严格遵守《中华人民共和国技术进出口管理条例》和《中国禁止出口限制出口技术目录》, 处理关于技术出口的相关业务。', 字节跳动 via Today's Headlines, 30-Aug-2020, <https://archive.ph/XLz4u>
- 414 'Exclusive: China would rather see TikTok U.S. close than a forced sale', Reuters, 12-Sep-2020, <https://web.archive.org/web/20210802061955/https://www.reuters.com/article/us-china-bytedance-tiktok-exclusive/exclusive-china-would-rather-see-tiktok-u-s-close-than-a-forced-sale-idUSKBN2622L6>
- 415 'Chinese govt not an outsider in the TikTok deal', Global Times, 20-Sep-2020, <https://web.archive.org/web/20230109084253/https://www.globaltimes.cn/content/1201415.shtml>
- 'New TikTok deal shuns worst-case scenario: Global Times editorial', Global Times, 20-Sep-2020, <https://web.archive.org/web/20230109084259/https://www.globaltimes.cn/content/1201484.shtml>
- 'Say 'No!' to US robbery of TikTok: Global Times editorial', Global Times, 21-Sep-2020, <https://web.archive.org/web/20221111051931/https://www.globaltimes.cn/content/1201625.shtml>
- 'Chinese govt's involvement makes a difference in TikTok deal', Global Times, 21-Sep-2020, <https://web.archive.org/web/20221226025023/https://www.globaltimes.cn/content/1201503.shtml>
- 'TikTok extortion deal is unpalatable gambit: Global Times editorial', Global Times, 22-Sep-2020, <https://web.archive.org/web/20221205170929/https://www.globaltimes.cn/content/1201759.shtml>
- 'Chinese govt not an outsider in the TikTok deal', Global Times, 20-Sep-2020, <https://web.archive.org/web/20230109084253/https://www.globaltimes.cn/content/1201415.shtml>
- 'No disguising proposed TikTok deal is a dirty and underhanded trick: China Daily editorial', China Daily, 23-Sep-2020, <https://archive.md/xkpbQ>
- 'China to protect TikTok at "all cost"', Global Times, 26-Sep-2020, <https://web.archive.org/web/20221110152248/https://www.globaltimes.cn/content/1202146.shtml>
- 416 '认清"当代海盗"的真面目', People's Daily, 25-Sep-2020, <https://archive.ph/K9X6C>
- 'China to protect TikTok at "all cost"', Global Times, 26-Sep-2020, <https://web.archive.org/web/20221110152248/https://www.globaltimes.cn/content/1202146.shtml>
- 417 '【中国网评】巧取豪夺别国企业, 起底美式"规则和秩序"', China.com.cn via Xinhua, 4-Jan-2023, <https://archive.md/9Urx3>
- '美国又想强制 TikTok 出售业务, 专家: 美国刁难或进一步变本加厉', Global Times via Sina, 28-Dec-2022, <https://web.archive.org/web/20230109094150/https://finance.sina.com.cn/world/2022-12-28/doc-imxyetfn3616623.shtml>
- 'Relentless US crackdown on Chinese companies is doomed: experts', Global Times, 5-Dec-2022, <https://web.archive.org/web/20230109094209/https://www.globaltimes.cn/page/202212/1281136.shtml>
- 418 'Bipartisan support for new foreign interference laws', Parliamentary Joint Committee on Intelligence and Security, 7-Jun-2018, https://www.aph.gov.au/Parliamentary_Business/Committees/Joint/Intelligence_and_Security/Espionage/Interference/Media_Releases
- 'Statement by Chair and Deputy Chair, Parliamentary Joint Committee on Intelligence and Security, 8-Feb-2018, https://www.aph.gov.au/Parliamentary_Business/Committees/Joint/Intelligence_and_Security/Espionage/Interference/Media_Releases