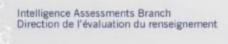


INTELLIGENCE ASSESSMENT

China's Next-Generation Propaganda Machine Poses an Emerging Threat







2021 10 20	TOP SECRET/	CSIS IA 2021-22/59
Chin	a's Next-Generation Propaga	anda Machine Poses an Emerging Threat
		It is meant to inform government decision makers on the future influence activity. It is a follow-up piece to CSIS IA 2021-22/24 China's lection: A Global Strategic Threat
epublic of China (P nd big data analytic ehaviours of billions issemination repres emocratic principles	RC) are developing "smart" props to efficiently exploit Western's of users. that the ents an emerging threat that will	of China (CPC) officials, companies from the People's paganda platforms that leverage artificial intelligence (AI) ocial media sites, with the aim of shaping the opinions and his next-generation approach to propaganda production and I give the PRC greater ability to undermine facts, ern media and institutions. (TS/
ey Assessments		
	s of smart propagan ina's most vocal and	da platforms aim to leverage AI to influential critics.

• The promised capabilities of Chinese-made smart propaganda platforms far exceed conventional online propaganda practices. When fully developed, these platforms potentially represent a new standard in propaganda systems that will permit the PRC to more effectively influence those in other countries. Technical challenges that may hinder the PRC's progress in effectively implementing these tools are expected to be resolved as capabilities increase over the next five years. While the PRC will most likely address these challenges using domestic technologies, it is also possible that PRC actors will illicitly target and acquire foreign technologies, including those originating from Canada and its allies. (S)





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What makes online propaganda 'smart'?

 The production and dissemination of online propaganda is a deliberate and systematic attempt to influence and shape perceptions, manipulate attitudes and beliefs, and direct behaviour to achieve a desired response. This process is made "smart" through the application of artificial intelligence (AI) and big data analysis. By deploying Al algorithms, automation and psychographic profiling,1 state actors can dramatically improve their abilities to (i) quickly identify undesirable online sentiments before they go viral; (ii) rapidly produce tailored counter-responses; (iii) identify specific audiences that are most receptive to the content; and, (iv) optimize amplification of that content with a view to making it an accepted "truth" among large populations. (U)

Why is this an emerging threat?

2. Applying psychographic profiling to large groups of social media users can reveal deeply personal and granular details about each individual; this information can then be used to micro-target and emotionally influence the way those users think and make decisions. This process was applied by the firm Cambridge Analytica when it micro-targeted tens of millions of unwitting social media users with tailored messaging during the 2016 presidential election in the United States and the 2016 Brexit referendum in the United Kingdom. Some observers maintain that the work of Cambridge Analytica influenced the outcome of both events. (U)

How does this impact Canada?

4. Once these tools are fully developed and their full suite of capabilities realized, they will likely be deployed in influence operations that reach beyond China's immediate geographic sphere, thereby serving to undermine Canadian values and social cohesion, including popular support for Canadian political leaders and major decisions/announcements they make.

Application	Estimated number of
	Canadian users (2021)

Facebook 25.1 million 17.6 million* YouTube Instagram 12.6 million Twitter 7.6 million 3.2 million* TikTok WeChat 1 million

*Avg. number of monthly visitors

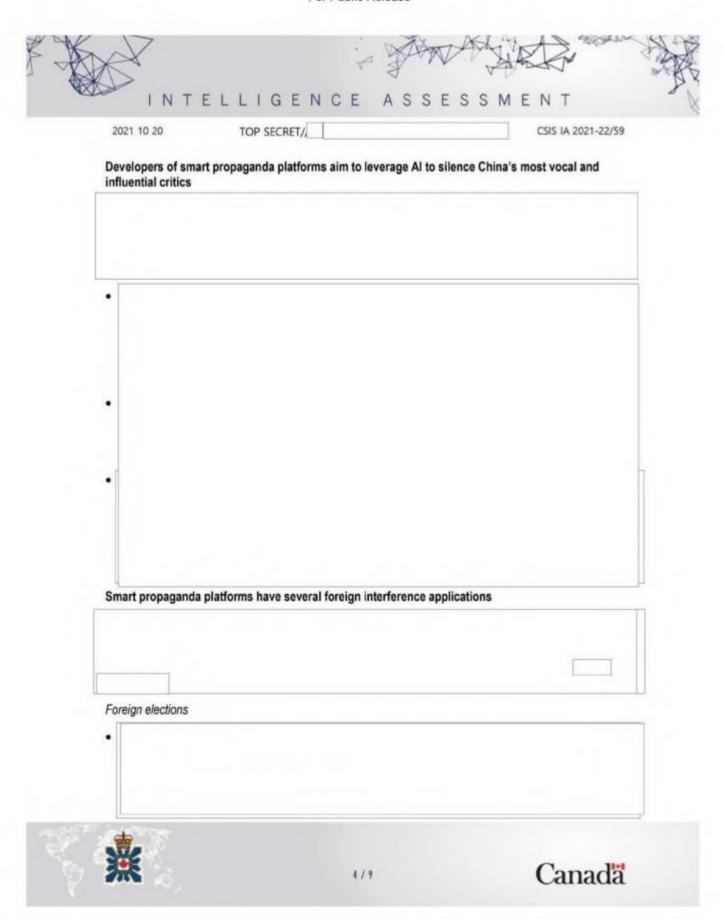
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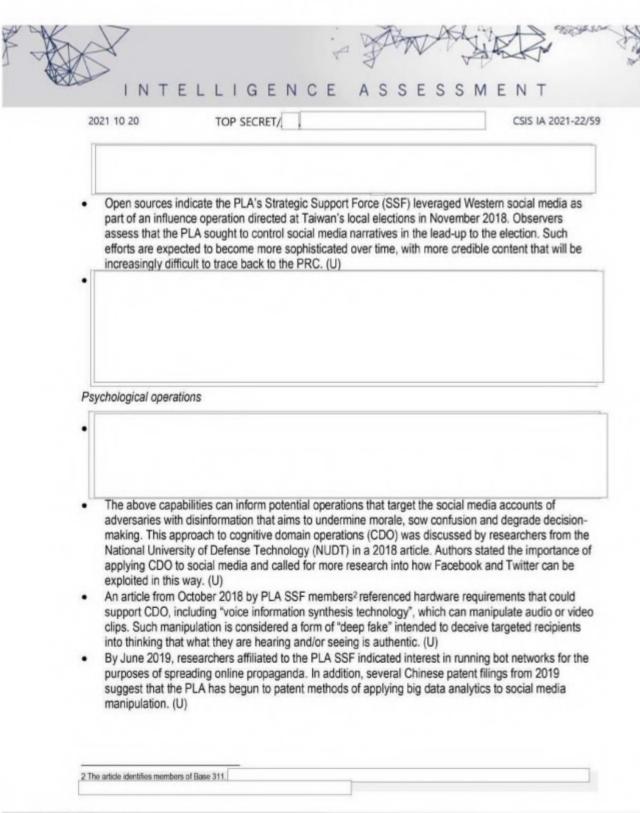
1 Psychographics describe the cognitive traits of humans such as attitudes, interests, opinions and belief, as well as overt behaviour. Many of these traits can be gathered online to develop a psychographic profile, which may include the analysis of an individual's sentiment expressed in various online forums (e.g., Twitter, Facebook). (U)



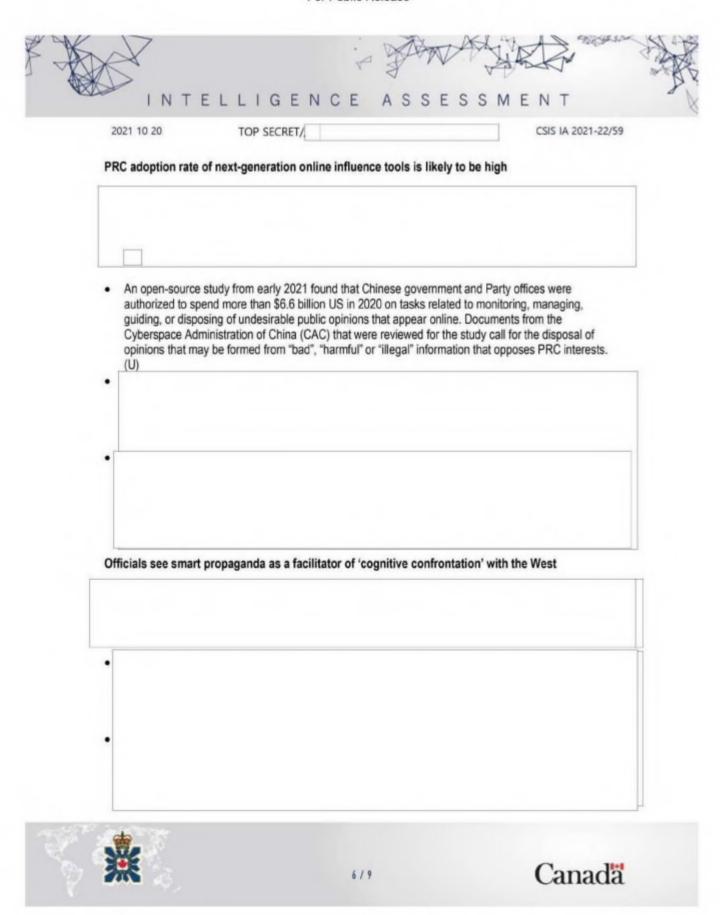
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 An open-source review of several Chinese government statements and commentaries reveal the trajectory of China's propaganda and "thought management" apparatus, which includes the CPC's intent to dominate electronic media. (U)

In a speech to the National Academy of Governance in January 2019, PRC President Xi Jinping urged
China to "explore the application of Al" to "increase [the Party's] ability to lead [public] opinion" and to
provide "public opinion guidance". The CPC's Central Propaganda Department echoed Xi's sentiment,
adding that Al has the potential to "make customized messaging" with "intelligent push notification
services that [garner] positive publicity". (U)

Impact to Canada

9.		smart propaganda platforms
		potentially represent a new standard in
propaganda ger including Canad		t will allow China to more effectively influence those in other countries,
		This will likely be done in tandem with more traditional influence
operations (e.g. government,	non-cyber) that see	to guide public opinions on hot-button issues for the PRC
	Smart propagan	da platforms will most likely amplify the PRC's efforts to undermine
public support for preferred course		nada policy positions and decisions that run contrary to China's
0.411		

Outlook

10. There are several technical challenges associated with PRC online influence operations that threaten to slow implementation. However, these challenges will most likely be resolved as capabilities improve over the next five years. (See **Appendix A** for a breakdown). It is possible that PRC actors will seek to resolve these challenges through the illicit targeting and acquisition of certain foreign technologies, including those originating from Canada and its allies. (S)

11. Full-scale support for — and adoption of — smart propaganda platforms by the PRC government, military and Party apparatus will provide the necessary momentum for capabilities to be fully realized over time. Assisting this momentum is the "whole of country" approach to developing the emerging technologies that power such applications.







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APPENDIX A — Are there limits to PRC online influence operations?

Challenge	Assessment	
Producing authentic-sounding messages that appeal to those from different cultures who speak different languages/dialects, or have different speech patterns.	Those observing PRC online influence operations against Taiwan have noted a marked difference in authenticity over time, which demonstrates PRC ability to adjust, thereby making it more difficult for the average user to differentiate between local Taiwanese content and Chinese content. (U)	
Bot accounts linked to the state are shut down en masse by major Western social media platforms.	A study conducted by the Oxford Internet Institute from July 2020 to January 2021 identified 26,879 accounts that retweeted Chinese diplomats or state media nearly 20,000 times before being suspended. This indicated that Twitter's removal of fake accounts that significantly amplify pro-China narratives often occur only after weeks or months of activity. As these accounts were suspended, new accounts quickly filled the void. (U)	
Monitoring and countering online sentiments in multiple foreign languages.	According to open sources, Global Tone Communications Technology (GTCOM), which is subordinate to the PRC's Central Propaganda Department, collects bulk data globally in over 65 languages and likely specializes in developing Al-driven commentary on social media that is intended to influence public discourse and sentiment. (U)	
Lack of control and ownership over — and sustained access to — Western social media platforms and/or Western audiences.	In 2020, Chinese-owned TikTok was the most widely downloaded application in the world, which gives PRC operators a broader set of options on what it can infiltrate. (U) Increased use of WeChat in the West, including Canada, gives further options. This app is used by billions around the world. Disinformation and propaganda specific to the Chinese diaspora have been widely spread on this platform. (U) In addition, the 2016 Brexit referendum in the United Kingdom demonstrated that hostile cyber actors do not need to have an overwhelming presence on a social media platform to have an impact. A study on Twitter discourse in the lead up to the Brexit vote revealed that less than 1% of the accounts generated almost one third of all Brexit-related traffic. High activity levels indicated that at least some of these accounts were run by bots, thereby demonstrating that a relatively small number of bots can achieve significant effects. (U)	
Difficulty in creating bot accounts that are sufficiently deceptive and not obviously fake.	The creation of fake accounts is assisted by synthetic media generation that is capable of creating believable images of non-existent people. In addition, sentiment profiling of real users feasibly informs the creation of believable bot accounts, which can mirror similar beliefs and attitudes displayed by those legitimate users. It may also be possible to clone legitimate user accounts on Chinese social media and apply them to Western social media. (U)	





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