

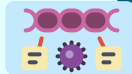
How China's Digital Technologies Helps Remediate the Covid-19?

Digital technologies (the IoT, big-data analytics and AI) could potentially help public-health strategies for tackling COVID-19 especially in monitoring, surveillance, detection and prevention of COVID-19; and mitigation of the impact to healthcare indirectly related to COVID-19. To fight the virus, China actively leveraged digital technologies such as AI, big data, cloud computing, blockchain, and 5G. Here are the highlights of how China is harnessing the powers of information technologies to tackle the epidemic:



1

After the outbreak (from January 1st 2020 up to now), big data played an important role in prediction and early warnings, analysing the flow of people and the distribution of materials. Qihoo 360, released **"Big Data Migration Map"** in the February for the users **to view the migration trend**



3

Due to the Spring Festival period, **AI-powered infrared system to detect person's body temperature and to track suspected passenger contact**

5

On Feb 1st COVID-19 Self Screening System was launched for public, it was a joint development by Tsinghua University Institute of Precision Medicine, Institute of Artificial Intelligence and Beijing Tsinghua Hospital.

6

On February 18th The "Health QR Code" is generated to check the residents and people who traveling back to work when they enter and exit the city. The code uses three colors — green, yellow and red — to represent low, medium and high exposure risk. **More than 200 cities were using this system.**

8

On Feb 26th, health authorities in Wuhan started recommending residents to **use online screening aps** to receive an **instant conclusion about their infection risks with personalized recommendations** from the system's AI



4

In the phase of patient diagnosis, **a cloud-based service using AI-assisted computed tomography (CT) image interpretation** was launched by Huawei Cloud, a healthcare business of Huawei.



7

Contact-free technologies help prevent spread of coronavirus through the telemedicine services. Expertise from West China Hospital can view and discuss lung images of COVID-19 cases with physicians in Wuhan **through a 5G telemedicine platform.**



9

Hospitals in China are collaborating with **blockchain companies** and pharmacies to **deliver patients' medication to their doorsteps.**



10

Up until now, the **actors that hold the key to a data-driven pandemic response are giant tech firms such as Alibaba with the Alipay Health Code and Tencent with "super apps" WeChat** through it is mini program

Sources:

Liu, Jian, et al. (2020). Deployment of health IT in China's fight against the COVID-19 Pandemic. Imaging Technology News. [online]. Available at: <https://www.itonline.com/article/deployment-health-it-china's-fight-against-covid-19-pandemic>. Accessed on: April 11th, 2020
Ting, D.S.W., Carin, L., Dzau, V., et al. (2020). Digital technology and COVID-19. Nature Medicine. [online]. Available at: <https://www.nature.com/articles/s41591-020-0824-5>. Accessed on: April 6th, 2020

