STRATEGIC INTELLIGENCE

The Convergence of AI and Genomics to Grow as Chinese and US National Security Priority

TLP:WHITE   Oct 31, 2025

Monthly Geopolitical Deep Dive: **October 2025**

This report, published once a month, is an in-depth analysis of a geopolitical trend whose cascading consequences adversely impact the healthcare sector. This report is a joint endeavor between RANE and Health-ISAC. The guidance and insight within are designed to help members navigate particularly complex geopolitical developments with healthcare-specific analysis and mitigation strategies.

The topic covered in this report is: ***The Convergence of AI and Genomics to Grow as Chinese and US National Security Priority***

Key Takeaways:

- The growth of artificial intelligence (AI) is causing rapid technological disruption to the genomics, pharmaceutical and biotechnology industries as AI models and AI-enabled platforms are becoming crucial for the development and deployment of drugs and other related technologies.
- The emerging importance of AI in these industries is increasing the commercial and national security importance of the datasets underpinning them, including genomic data.
- The Chinese government will continue to strongly support its biotechnology and genomics industries, utilizing state resources to give Chinese

companies an advantage against international competitors and giving them greater access to centrally-controlled and populated datasets to exploit.

- China's ascent in AI and biotechnology risks enabling Chinese companies to have a commercial edge against Western rivals and potentially damaging Western national security if China weaponizes such technologies.

The Health-ISAC & Rane Deep Dive report has been posted to the Monthly Deep Dive Folder in the Cyware Doc Library [here](#).

It is also attached to this distribution for your convenience.

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