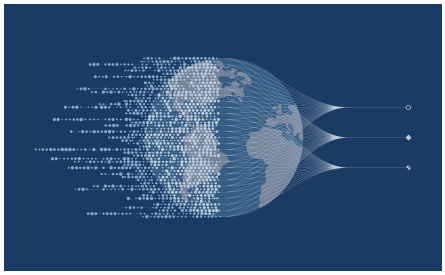

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Trust in the Treaty: New Technologies and Diplomatic Strategies to Build Confidence in the CTBT(O)

Nearly three decades since the establishment of the Comprehensive Nuclear-Test-Ban Treaty (CTBT), rapid developments in artificial intelligence (AI), autonomous systems, and global communication and data networks are radically changing the technological landscape in which the CTBTO operates. Concurrently, geopolitical conflicts have impacted states' trust in international institutions and their capacity to deter non-compliant states. Is the current form of the CTBT suited to address these evolving conditions? Moreover, is the CTBTO able to fulfill its objective of monitoring and deterring nuclear testing, while bolstering support from existing and potential Member States?

As open-source satellite imagery has revealed a renewed drive for nuclear testing in Nuclear Weapon States, we will explore how the CTBTO must expand its technological means to build trust and shift political strategies to empower Non-Nuclear Weapon States in uncertain geopolitical conditions. This includes assessing shortcomings present in current methods to address and respond to contemporary technical and political conditions that affect the evolution of nuclear warfare. This presentation will discuss the importance of developing a political trust-building strategy based on inclusive diplomatic outreach and effective technological methods to maximise the CTBTO's success in an increasingly multi-polar geopolitical environment

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