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role of Nigeria's NDC to research revolution in Nigeria: A Scientist's perspective

National Data Centers (NDCs) play various roles, such as organizing capacity building events for a critical mass of interested States Signatories of the Comprehensive Nuclear-Test-Ban Treaty (CTBT), sensitizing the public on the danger of a nuclear explosion, providing International Monitoring System (IMS) data, International Data Centre (IDC) products for research and other purposes. Nigerian female university students and researchers now know more about the CTBTO and have conducted more research related to nuclear monitoring thanks to NDC-NG's initiative to raise awareness for female scientists and engineers in developing their research skills using IMS data, IDC products and science diplomacy. As a beneficiary, the purpose of this work is to demonstrate my knowledge and proficiency, particularly concerning the scientific and civil applications of the CTBT, and present findings from analysis of seismic and infrasound data acquired from IMS stations. For the first time, I used Geotool software to determine several seismic events' locations, magnitudes and depths. DTK PMCC software was also used to calculate azimuth, apparent velocities, errors and other significant parameters from infrasound signals. Since the initiative's launch in 2020, research conducted by female students and early career scientists in Nigeria using CTBTO's data and products has increased significantly.

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