

INTEGRATING IMS AND NDC INTO THE NATIONAL NUCLEAR AND RADIOLOGICAL EMERGENCY RESPONSE PLAN TO ENHANCE RADIOLOGICAL EMERGENCY RESPONSE IN NIGERIA

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Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO)



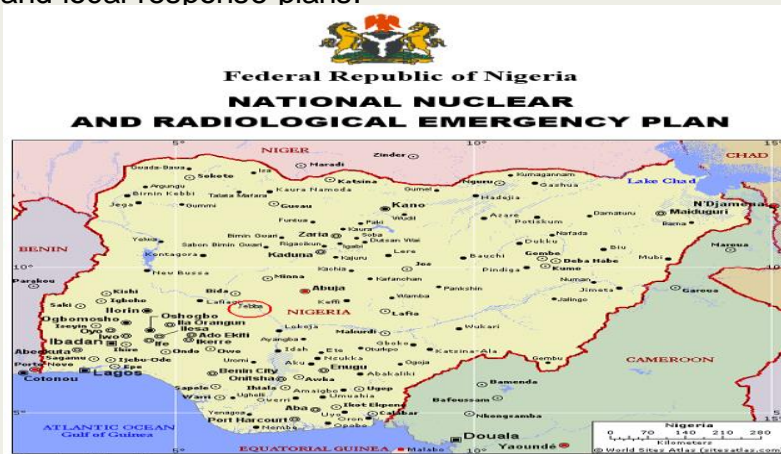
INTRODUCTION AND MAIN RESULTS

This presentation provides insight into integrating the CTBTO IMS and IDC into the National Nuclear and Radiological Emergency Response Plan (NNREP), alongside other national and international agencies, to enhance both national and global emergency response capabilities.

Introduction

Effective response to nuclear and radiological emergencies requires timely, accurate, and reliable information. Integrating the International Monitoring System (IMS) and National Data Centre (NDC) into Nigeria's National Nuclear and Radiological Emergency Response Plan enhances detection, verification, and coordination capabilities. This approach strengthens national preparedness, facilitates early warning, and aligns with global nuclear security and safety obligations.

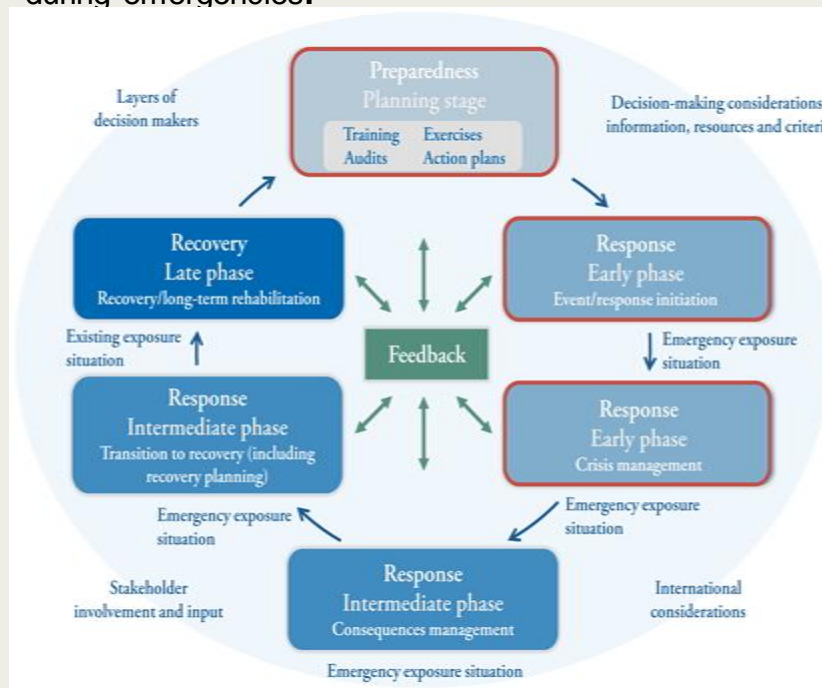
The National Nuclear and Radiological Emergency Plan (NNREP) provide the basis for a national level response to radiation emergency in Nigeria that is effectively integrated with an accompanying international, national and local response plans.



Map showing the locations of Nuclear Facilities in Nigeria Source: NNREP

Methods/Data

The study involved reviewing Nigeria's current emergency response framework, assessing IMS and NDC operational capabilities, and mapping their integration points into existing plans. Data sources included CTBTO guidelines, national emergency response protocols, and expert consultations. Analysis focused on interoperability, communication channels, and technical procedures for rapid information exchange during emergencies.



International Nuclear Emergency Exercises. Source: NEA

Results

Integration of IMS and NDC capabilities provides real-time monitoring, verification, and event analysis to support decision-making in emergencies. The combined system improves detection of nuclear/radiological events, enhances data accuracy, and ensures rapid dissemination of alerts to relevant national agencies. This synergy bridges operational gaps, strengthens inter-agency coordination, and aligns national efforts with international response mechanisms.



Image showing Response to a Nuclear Emergency Source: IAEA

Incorporating IMS and NDC into Nigeria's National Nuclear and Radiological Emergency Response Plan will significantly enhance preparedness, response efficiency, and compliance with international standards. This integration ensures that decision-makers have access to timely, verified data, ultimately protecting lives, the environment, and national security.