

Unitar Online Catalogue

Application of Geospatial Decision Support System for Environmental Conservation (Big Data Analysis and Multi-Criteria Decision Analysis for Desertification Management) in Nigeria

: 22 7 2024	
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	Abuja, Nigeria
□ :	29 7□ 2024 to 31 7□ 2024
□ :	3 Days
· :	Satellite Imagery and Analysis
□ :	https://unosat.org/
□ :	US\$0.00
email:	wittawat.bunnasarn@unitar.org
□ :	Norwegian Agency for Development
Cooperation (NORAD), Feder	al Ministry of Environment of Nigeria (1422)

The project "Strengthening Capacities in the Use of Geospatial Information for Improved Resilience in Asia-Pacific and Africa." (2021-2024) intends to develop sustainable capacities and implement tailored geospatial solutions to improve

policy and decision-making processes in Disaster Risk Reduction. With the support of NORAD, UNOSAT partners with the governments to develop innovative capacity development solutions and geospatial services, leveraging technological advances and innovation for improved decision making in Disaster Risk Reduction, Climate Resilience, Environmental Preservation and Food Security in the eight target countries: Bangladesh, Bhutan, Fiji, Lao PDR, Nigeria, Solomon Islands, Uganda, and Vanuatu. The project's primary focus in Nigeria is the geospatial capacity development for environmental conservation and the nominated focal institution for implementation in Nigeria is the Federal Ministry of Environment.

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This training program has been carefully designed to introduce participants to modern remote sensing and provide practical examples of using cutting-edge analytics tools. These tools maximize the utilisation of satellite data for monitoring and managing desertification. By developing these capabilities, Nigeria will be well-prepared to address emerging challenges and promote sustainable development.

At the end of the course, participants should be able to:

- Use big data analytics tools like Google Earth Engine for applications of land monitoring and change detection.
- Carry out desertification monitoring using Google Earth Engine.
- Use a web-based Multi-Criteria Decision Analysis (MCDA) tool for informed decision making.

The course introduces GIS and remote sensing for sustainable development, with a particular focus on desertification monitoring. It begins with introductory modules on Google Earth Engine (GEE), followed by practical applications of GEE for monitoring desertification. The course concludes with an exploration of a webbased Multi-criteria Decision Analysis (MCDA) tool, demonstrating how geospatial

