

## GIT Applications for M&E and Sustainable Planning (Pakistan/EO4SD)

United Nations Satellite Centre UNOSAT

Type:	Webinar
Location:	Web Based
Date:	13 Jul 2021 to 15 Jul 2021
Duration of event:	2 Days
Programme Area:	Satellite Imagery and Analysis
Specific Target Audience:	No
Website:	<a href="https://unitar.org/sustainable-development-goals/satellite-analysis-and-applied-...">https://unitar.org/sustainable-development-goals/satellite-analysis-and-applied-...</a>
Price:	No Fee
Event Focal Point Email:	Mathieu.DOMINGO@unitar.org

### BACKGROUND

The Earth Observation for Sustainable Development Fragility, Conflict and Security (EO4SD FCS) project aims to support states affected by fragility thanks to the use of earth observation (EO) technologies. The consortium of organizations that take part in this initiative assist international financial institutions (IFIs), governments and other relevant stakeholders by delivering services and building capacity in the field of EO.

In this context the consortium is planning a webinar to reinforce the capacities of the GIS hub of the Planning and Development department of the Khyber Pakhtunkhwa Province, Pakistan. A two-day event will be held for 50 staff on 13 and 15 July.

### EVENT OBJECTIVES

The course will provide participants with original and tailored training content. The focus of this webinar will be on two main topics: using geospatial information technologies for monitoring and evaluation, and working with free Sentinel imagery to support sustainable planning activities.

### LEARNING OBJECTIVES

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

### **After session 1 (Principles of Monitoring and Evaluation) :**

- Explain the basic concepts related to Results-Based Management (RBM)
- Apply methods in monitoring and evaluation (M&E) to project design and planning
- Know how to monitor projects to ensure consistent collection of results

### **After session 2 (GIT and M&E: remote sensing and geolocated data applications) :**

- Describe how GIT can be applied for the monitoring and evaluation of development programs
- Determine the extension to which GIT can contribute to the planning for monitoring and evaluation of specific programs and projects
- Publish data (vector and imagery) using ArcGIS platform
- Set up a monitoring app using ArcGIS Dashboards

### **After session 3 (Sentinel imagery acquisition and agricultural analysis) :**

- Acquire satellite images from ESA Open Access Hub
- Work with NDVI on SNAP for agricultural assessment
- Explain how imagery classification is done

### **After session 4 (GIT applications for flood risk management and territorial planning) :**

- Perform basic urban growth analysis
- Recall concept and terminology related to flood risk management
- Recognize the key role of GIT and Geospatial Artificial Intelligence (GeoAI) for improved Flood Risk Management (FRM) with focus on flood preparedness and response
- Recall GIS-based workflow to undertake preliminary flood impact analyses

## **CONTENT AND STRUCTURE**

### **Day 1**

Introduction

17:00-17:15 Introduction

Module 1

17:15-18:30 Principles of Monitoring and Evaluation

Module 2

18:30-19:30 GIT and M&E: remote sensing and geolocated data applications

Closing

19:30-20:00 Wrap-up and Q&A

### **Day 2**

Module 3

17:00-18:15 Sentinel imagery acquisition and agricultural analysis

Module 4

18:15-19:30 GIT applications for flood risk management and territorial planning

Closing

19:30-20:00 Wrap-up & Q&A

## **METHODOLOGY**

This is a two-day webinar divided into four modules, two on 13 July and two on 15 July. 80% of the activities will consist of lectures, and 20% will be interactive elements and discussions. The average workload is likely to be around 6 hours.

At the end of the course, a UNITAR certificate will be awarded to participants provided they have taken part in all modules.

## TARGETED AUDIENCE

The course is designed to accommodate a maximum of 40 participants with basic GIS knowledge who are nominated by WB Pakistan and GIS hub of the Planning and Development department of the Khyber Pakhtunkhwa Province, Pakistan.

## ADDITIONAL INFORMATION

This course is offered by UNITAR-UNOSAT and SIRS as part of the EO4SD Fragility, Conflict and Security project funded by the European Space Agency. You can access the project's website here: <http://www.eo4sd-fragility.net/>

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