SNAP ESA OPEN-SOURCE REMOTE SENSING
LEVEL 1 - INITIATION

arx iT

PEDAGOGICAL OBJECTIVES

The aim of this training course is to manipulate, organize and process satellite data from SNAP ESA in order to perform classifications and index calculations.

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

- Understanding the fundamentals of remote sensing
- Extracting SENTINEL satellite images
- Processing satellite images in SNAP ESA
- Generating color compositions in SNAP ESA
- Generate statistics
- Supervised classification with SNAP ESA

TARGET AUDIENCE
General public

PREREQUISITES
Basic computer skills

TEACHING RESOURCES
Software license available: yes

Digital training material given to trainees (with concrete examples and practical exercises)

Evaluation questionnaire and end-of-training certificate

DURATION   > 2 days (14h training)

RATES   > On quotation

TERMS AND CONDITIONS
No pre-selection required
Dates to be agreed

REGISTRATIONS
Email   > formation@arxit.com
Tel.   > +33 (0)5 46 34 07 71

For disabled access, please contact us.

CONTENTS

THEORETICAL BACKGROUND ON REMOTE SENSING
The main principles of remote sensing

Remote sensing mission sequence

Reminders about sensors and their use

Introducing the European Copernicus program

Create an account on the Copernicus hub

IMAGE ACQUISITION / GETTING STARTED
Introducing SNAP ESA software

Getting started

Sentinel image acquisition

Understanding image structure

Application of atmospheric corrections

MANIPULATING SENTINEL IMAGES
Image display

Image enhancement

Creation / Interpretation of colorful compositions

Understanding spectral cues

Calculate a spectral index (NDVI)

Using color palettes

LAND USE MAP
A reminder of classifications

Understanding supervised classification

Define land use classes

Sample management or Region Of Interest

Start supervised classification analysis