



# First Winter Camp for Training, Ideation and Entrepreneurship in Earth Observation

10-14 December 2018

Euro Space Center, Transinne, Belgium

## Context

The Sentinel satellites developed by the European Space Agency and exploited in the framework of the EEU COPERNICUS Programme constitute a unique world-class armada for observing the Earth. The free-data policy opens new avenues in terms of development of new applications, services and business opportunities. In such a dynamic and rapidly-evolving context, it is of the highest importance that students, users, researchers and candidate entrepreneurs get basic training on the techniques through which the Earth Observation (EO) data can be valorized, and brainstorm on possible solutions, based on such data, to challenging user needs.

## Objectives

The present Summer Camp has been organized and structured along in response to the needs expressed above. It will be coordinated by Centre Spatial de Liège (CSL) and Wallonia Space Logistics (WSL) in the framework of the EEU-financed project [FabSpace 2.0](#), and hosted by the Euro Space Center (ESC) located in Transinne (Belgium), located in a rapidly-expanding science park that also hosts ESA, Galileo, and the GALAXIA Business Innovation Centre.

## Preliminary Programme

The Camp shall include introductory lectures on the FabSpace project, on the Sentinel and COPERNICUS programmes, on remote sensing principles for Earth Observation, and on Geographical Information Systems (GIS's). Then practical sessions shall be organized for familiarization with the SNAP and QGIS softwares, to be used in brainstorming and problem-solving sessions on proposed application challenges.



### **Monday 10 December : Introductory courses**

9h-9h30h : Welcome addresses

9h30-10h00 : The FabSpace 2.0 Project (Anthony Biévelez, WSL)

10h-10h30 : Coffee break

10h30-11h30 : The Sentinel programme (Malcolm M. Davidson, ESA)

11h30-12h30 : The Copernicus programme (Roya Ayazi, NEREUS)

12h30-14h00 : Lunch

14h-15h30 : Basics of remote sensing for Earth observation remote sensing (C.Barbier, ULiège-CSL)

15h30-16h : Coffee break

16h-18h00 : Entrepreneurship in the modern space industry (B. Deper, [www.AeroSpaceLab.be](http://www.AeroSpaceLab.be))

18h00 : end of Day 1

### **Tuesday 11 December : Initiation to GIS and QGIS**

9h-10h30 : Basics of Geographical Information System (GIS) (R. Neuville, ULiège-GEOM)

10h30-11h : Coffee break

11h-12h30 : Basics of Geographical Information System (GIS) (R. Neuville, ULiège-GEOM)

12h30-14h : Lunch

14h-15h30 : Presentation and practice with QGIS (R. Neuville, ULiège-GEOM)

15h30-16h : Coffee break

16h-17h30 : Practice with QGIS (R. Neuville, ULiège-GEOM)

17h30 : End of Day 2

### **Wednesday 12 December : Initiation to SNAP**

9h-10h30 : Presentation of SNAP toolbox

10h30-11h : Coffee break

11h-12h30 : Practice with SNAP toolbox

12h30-14h : Lunch

14h-15h30 : Practice with SNAP toolbox



15h30-16h : Coffee break

16h-17h30 : Practice with SNAP toolbox

17h30 : End of Day 3

### ***Social event at Euro Space Center***

### **Thursday 13 December : Brainstorming, Ideation and Challenges (Part 1)**

9h-10h30 : Presentation of challenges (C. Barbier, ULiege-CSL)

10h30-11h : Coffee break

11h-12h30 : Addressing challenges (all)

12h30-14h : Lunch

14h-15h30 : Addressing challenges (all)

15h30-16h : Coffee break

16h-17h30 : Addressing challenges (all)

17h30 : End of Day 4

### **Friday 14 December : Brainstorming, Ideation and Challenges (Part 2)**

9h-10h30 : Presentation of solutions (all)

10h30-11h : Coffee break

11h-12h30 : Presentation of solutions (all)

12h30-14h : Lunch

14h-15h30 : Debriefing of challenges and feedback (all)

15h30 : Coffee/ End of Camp.

## **Who Should Attend?**

The Camp is open to students, researchers and candidate business developers interested in the application-oriented exploitation of EO data.

## **Language**

The official language of the School shall be English.



## Accommodation

The proposed formula for accommodation is to use the common bedrooms made available by ESC to its trainees. This offers substantial cost saving in terms of registration fees.

## Travels

Travel arrangements will be the participant's responsibility. However, bus or car services can be arranged to and from ESC premises in Transinne (E411, exit 24). Do not hesitate to contact [fabspace@wsl.be](mailto:fabspace@wsl.be) if transport is an issue for you.

## Registration

Payment of **550 Eur** shall be made to :

EURO SPACE CENTER

IBAN : BE 66 3601 0970 1043

Communication: FABSPACE 2018 – LAST NAME & FIRST NAME OF PARTICIPANT

The registration fee includes accommodation, meals and coffee breaks at the ESC.

## Organising Committee

Camp coordinator : Dr. Christian Barbier, Senior Remote Sensing Scientist, Centre Spatial de Liege

Local coordinator : Jean Marcel Thomas, Managing Director, Euro Space Centre

Contacts : Anthony Biévelez [fabspace@wsl.be](mailto:fabspace@wsl.be)

Latest details and Community : [www.facebook.com/groups/FabSpaceLiege/](https://www.facebook.com/groups/FabSpaceLiege/)