

# OKP Newsletter

October 2021



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# Towards open-source & open-access education

*October 2021, Delft*

Open education is a philosophy about the way people should produce, share, and build on knowledge. As part of our OKP project objectives, we strive towards access to high-quality educational experiences and resources for all our partners. Therefore, there has been a focus in the project on shifting towards open-source software and programs as well as open-access research within academics. On pages 7-8 of this newsletter you can explore some of the initiatives and successful OKP products to facilitate this transition.

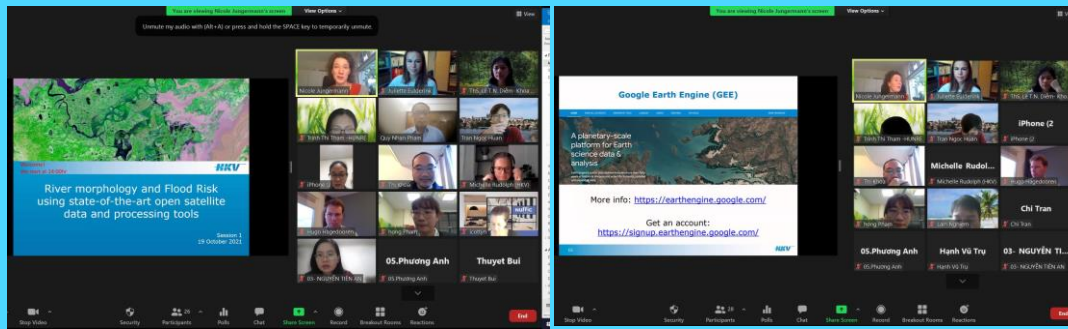
In this newsletter we also share with you some exciting OKP news from the past two months, including the kick-off of the HKV-TU Delft TMT+ course, the final round of the Thuyloi student research competition on climate adaptation and the announcement of the Orange Knowledge Programme extension. Do not forget to check out the opportunities in the final section of this newsletter: weekly Delta Futures Lab Webinars and the upcoming PIE online dialogue on equitable & inspirational partnerships of knowledge exchange. Enjoy the read!



# OKP Vietnam & Myanmar: News and (planned) activities

## Kick-off TMT+ : River Morphology and Flood Risk using state-of-the-art open satellite data and processing tools

Mid October marked the kick-off of the Tailor-Made Training course on river morphology and flood risk using state-of-the-art open satellite data and processing tools. This Nuffic-funded TMT+ is organized by HKV and TU Delft and will train around 25 Vietnamese professionals over the next few months in using open satellite data and processing tools such as Google Earth Engine.



## Graduation Diederik Spaans

Diederik Spaans of the TU Delft successfully presented and defended his Master thesis. Diederik researched to what extent changes in water quality can be measured in the Ayeyarwady basin in Myanmar. He also tried to identify requirements for a water quality monitoring system in the basin. He did so during his internship at Arcadis, while co-supervised by TU Delft OKP partners. Congratulations Diederik! You can download his thesis [here](#).



## Orange Knowledge Programme extended

The Dutch Ministry of Foreign Affairs has extended the management of the Orange Knowledge Programme (OKP) with one year. The implementing partners of the OKP, the Dutch knowledge institutions and their local partners, have experienced extensive delays in project implementation due to COVID-19. By an extended duration of the OKP the implementing partners will have the opportunity to address these delays and make sure that all activities funded through the OKP can still take place to the outputs can be realized.

You can find more information about collaboration on the TU Delft-Vietnam website: <https://www.tudelft.nl/citg/vietnam/> and on the TU Delft-Myanmar website: <https://www.tudelft.nl/myanmar/>

# OKP Vietnam & Myanmar: News and (planned) activities

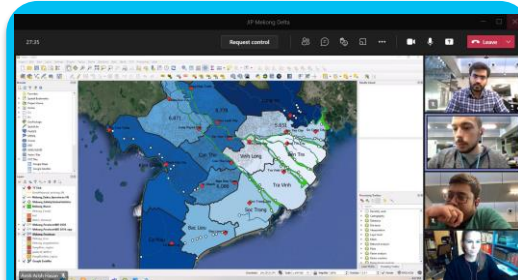
## Thuyloi student research competition: Climate Adaptation

The Thuyloi University student research contest on Climate Change Adaptation was kicked off in April 2021 with the aim of encouraging the participation of the young generation to find sustainable solutions to adapt to climate change in Vietnam. The final round of this contest was held online in October with 20 reports from 7 different universities (including HUNRE and Thuyloi) in Vietnam. The jury consisted of, amongst others, Laurent Umans, the First Secretary for Water and Climate Change of the Netherlands Embassy in Vietnam. You can read the full article [here](#).



## New library books at HUNRE

As part of the library upgrades, OKP staff worked together with HUNRE library staff and the international cooperation department to update the current book collection. Using local distributors, both English and Vietnamese books and lecture notes were purchased!



## Joint Interdisciplinary project in the Mekong delta

The JIP project is an interdisciplinary Master course at TU Delft. In it, students work full-time in groups on a challenge identified by an industry partner for a period of 10 weeks. The course aims to develop student skills in working across disciplines and from a challenge-driven perspective. One TU Delft student group has been working on water storage solutions in the Mekong delta in Vietnam, a company case provided by **Royal Haskoning-DHV**. The students are exploring solutions in order to deal with the water supply shortages in the dry season.

You can find more information about collaboration on the TU Delft-Vietnam website: <https://www.tudelft.nl/citg/vietnam/> and on the TU Delft-Myanmar website: <https://www.tudelft.nl/myanmar/>

# OKP Vietnam & Myanmar: News and (planned) activities

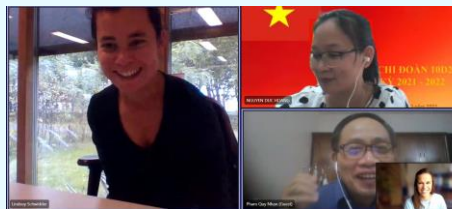
## Arrival Khoa in the Netherlands

Our partner and fellow Young Expert (YEP) Khoa arrived in the Netherlands early October to embark on his PhD journey and assist in OKP activities. Good luck Khoa!



## OKP budget-neutral extension: management meetings

In preparation for the budget-neutral extension request, TU Delft set-up meetings with implementing partner ITC Twente and Vietnamese partners HUNRE and Thuyloi to discuss priorities and planning for the additional project period.



## Dr. Nga and Marjan at SIWI World Water Week 2021

At the end of August, the OKP project leader Marjan Kreijns and our partner Dr. Pham Hong Nga presented during the SIWI World Water Week. In the session 'Supporting societal transformations in deltas through long-term partner engagements', they shared the Thuyloi-TU Delft partnership story!



## Nuffic Country Manager Vietnam visits TU Delft

The Nuffic Country Manager for Vietnam, Marieke Nieuwendijk, visited the TU Delft to discuss the OKP Climate Proof Vietnam project. She also got the chance to meet our Vietnamese partner Tung Dao, who completed his PhD at TU Delft this summer and now works on collecting and creating Nature-Based Solution education material.



You can find more information about collaboration on the TU Delft-Vietnam website: <https://www.tudelft.nl/citg/vietnam/> and on the TU Delft-Myanmar website: <https://www.tudelft.nl/myanmar/>

With TU Delft OKP support, HUNRE developed an online course on exploratory computing with Python. Python is an interpreted, high-level and general-purpose programming language, useful for many applications including those in integrated water resource management and hydraulic engineering. All notebooks have been translated to Vietnamese and adapted to the local context using Vietnamese data. It is designed as a do-it-yourself self-paced course.

```
In [1]: %matplotlib inline
import numpy as np
import matplotlib.pyplot as plt
```

#### Hàm

Các hàm là một phần cần thiết của một ngôn ngữ lập trình. Bạn đã sử dụng qua một số hàm như `plot()`, `loadtxt()`, và  `linspace()`. Và bạn cũng có thể tự tạo hàm cho mình. Để định nghĩa một hàm mới, chúng ta sử dụng câu lệnh `def`. Sau `def` là tên của hàm, sau đó là arguments của hàm được đặt trong dấu ngoặc đơn, và kết thúc bằng dấu hai chấm. Sau dấu hai chấm bạn thực dòng code đến khi hoàn thành hàm. Dòng cuối cùng của hàm là `return` theo sau bởi thông tin bạn muốn cho ra. Ví dụ, xem hàm `x` sau:

$$f(x) = \cos(x) \quad x < 0$$

$$f(x) = \exp(-x) \quad x \geq 0$$

Tính  $f(x)$  trong hàm gọi là `f(x)`. Có một argument đầu vào là `x`.

```
In [2]: def func(x):
if x < 0:
f = np.cos(x)
else:
f = np.exp(-x)
return f

print(func(3))
```

```
0.149787068367863944
```

Khi bạn đã tạo thành công một hàm trong Python, bạn có thể gọi hàm đó bất cứ khi nào muốn trong session.

```
In [3]: print(func(-2))
```

```
-0.4161468365471924
```



Click here to check it out:

<https://okpvietnampython.wordpress.com/>

#### OKP Climate Proof Vietnam – Python module

Trang chủ Notebooks

Từ đây trong notebook khác, click từ các link Exploratory computing with Python của Mark Bakker để học Công nghệ Delft, Hà Lan.

Chào mừng bạn đã ghé thăm chúng tôi..!

Đây là một trong những sản phẩm của dự án OKP Climate Proof Vietnam

#### Nội dung website

##### Notebooks và các video hướng dẫn

Notebooks có thể chạy sau khi bạn đã cài Python và các gói hỗ trợ khác. Cách tốt nhất là tải Anaconda (Mac, Windows, Linux) và sử dụng.



##### Giới thiệu – Introduction

Please see English version below. Giới thiệu dự án OKP Climate Proof Vietnam Việt Nam là một trong những quốc gia để lý tưởng nhưng một do tác động của biến đổi khí hậu. Những

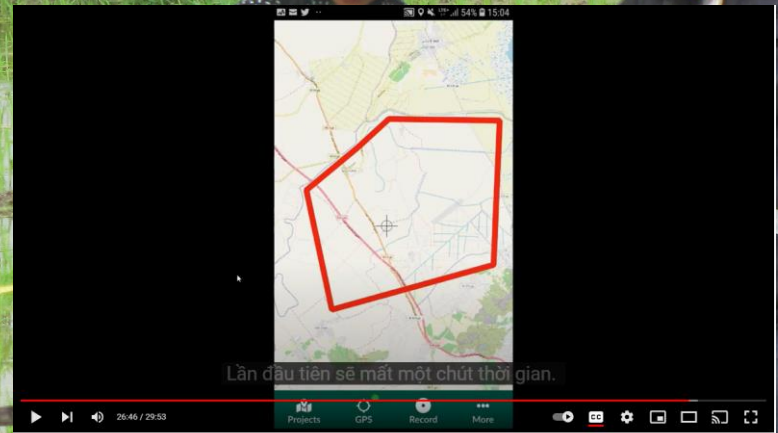
The website consists of introductory Python videos and Jupyter 'notebooks' (in Vietnamese) with instructions, exercises and answers. The original material was created by Professor Mark Bakker and can be found [here](https://okpvietnampython.wordpress.com/).

As part of the IHE Open Courseware platform, Dr. Hans van der Kwast created an online tutorial on the use of open-access applications and plugins which you can use for easy data collection and processing when doing field surveys. As part of the OKP project, we translated this video with Vietnamese subtitles, to assist Vietnamese lecturers and students in using these programs during field surveys.

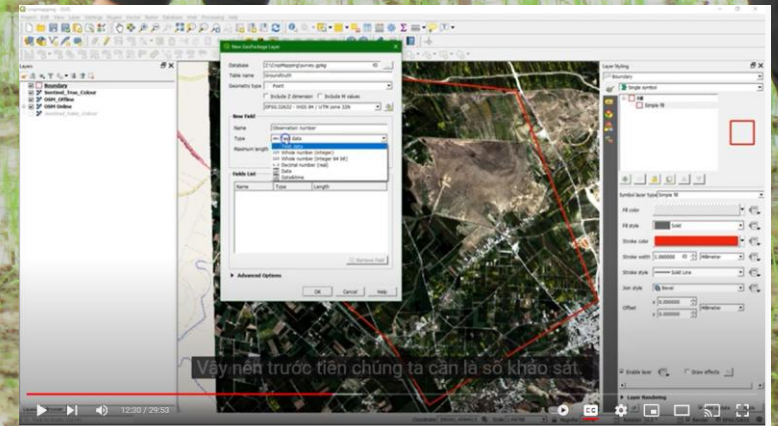
The tutorial demonstrates:

1. How to design field forms in QGIS (a free and Open Source Geographic Information System);
2. How to synchronize your project with the (free) Mergin cloud service;
3. How to use the (free) Input app in the field.

You can check out the tutorial any time! Go to: [https://www.youtube.com/watch?v=8AZ9gPAhL\\_4](https://www.youtube.com/watch?v=8AZ9gPAhL_4) and select Vietnamese subtitles in the settings.



Field surveys with QGIS, Mergin and Input  
13,998 views • Jul 9, 2019



Field surveys with QGIS, Mergin and Input  
13,998 views • Jul 9, 2019



# Opportunities

## Delta Futures Lab Webinars

TU Delft organizes Delta Futures Lab webinars every week on future challenges of Delta regions around the globe. Join us for inspirational sessions!

Every Friday 12:30-13:30 CEST]  
18.30-19.30 VN time  
18:00-19:00 MMR time

Find the upcoming lectures and links in the agenda at <https://deltafutureslab.org/agenda/>



The Platform for International Education (PIE)  
presents:

**Online dialogue towards equitable  
& inspirational partnerships  
of knowledge exchange**

**25<sup>th</sup> November 2021**

10:00-12:30 hrs CEST

16:00-18:30 VN time

15:30-18:00 MMR time

Sign up at [www.pieonline.nl](http://www.pieonline.nl)

# Thank you Marga Koelen!

Our long-term partner and friend Marga Koelen from the faculty of ITC, University of Twente, retired last month. We want to thank her for all her tremendous support and effort over the past decades in our institutional collaboration projects. We are also very pleased that she will stay involved in our projects and continue to support our partners. See you soon, Marga, in the Netherlands or in Southeast Asia!

