



# OpenAIRE - Advance

Citizen Science - Webinar

30.06.2020



**ELLINOGERMANIKI AGOGI**



OpenAIRE-Advance Citizen Science Webinar| June 30 2020  
OpenAIRE-Advance receives funding from the EU Horizon 2020 Grant Agreement  
No.777541



# Outline (1)

- **OpenAIRE Citizen Science Activities**
  - **Activities in Schools**
    - **Integration with OpenAIRE services**
      1. **The seismic schools network**
- Data collection, Repository (Helix), Applications**
- **Hackquake 2019**


# Outline (2)

## 2. Open Schools Journal for Open Science

- STEM focused, Template overview
- Uploading articles on Zenodo Communities

## 2. Bringing Nobel Prize physics in classroom

- Zenodo community
- Good practice example
- Questions

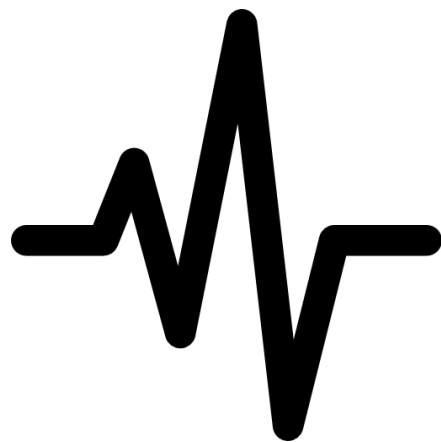


OpenAIRE  
Citizen Science  
Activities

# Activities

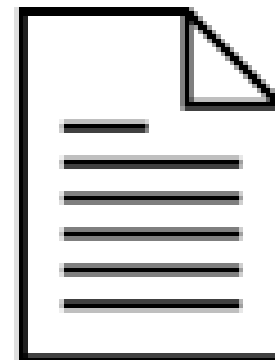
Schools  
Seismograph  
Network

**Seismic Data**



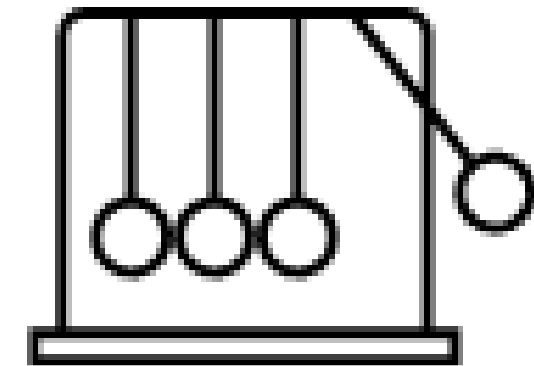
Open Schools  
Journal for  
Open Science

**Open Science Journal**



Bringing  
Nobel Prize  
Physics  
to Classroom

**Access Research Data**

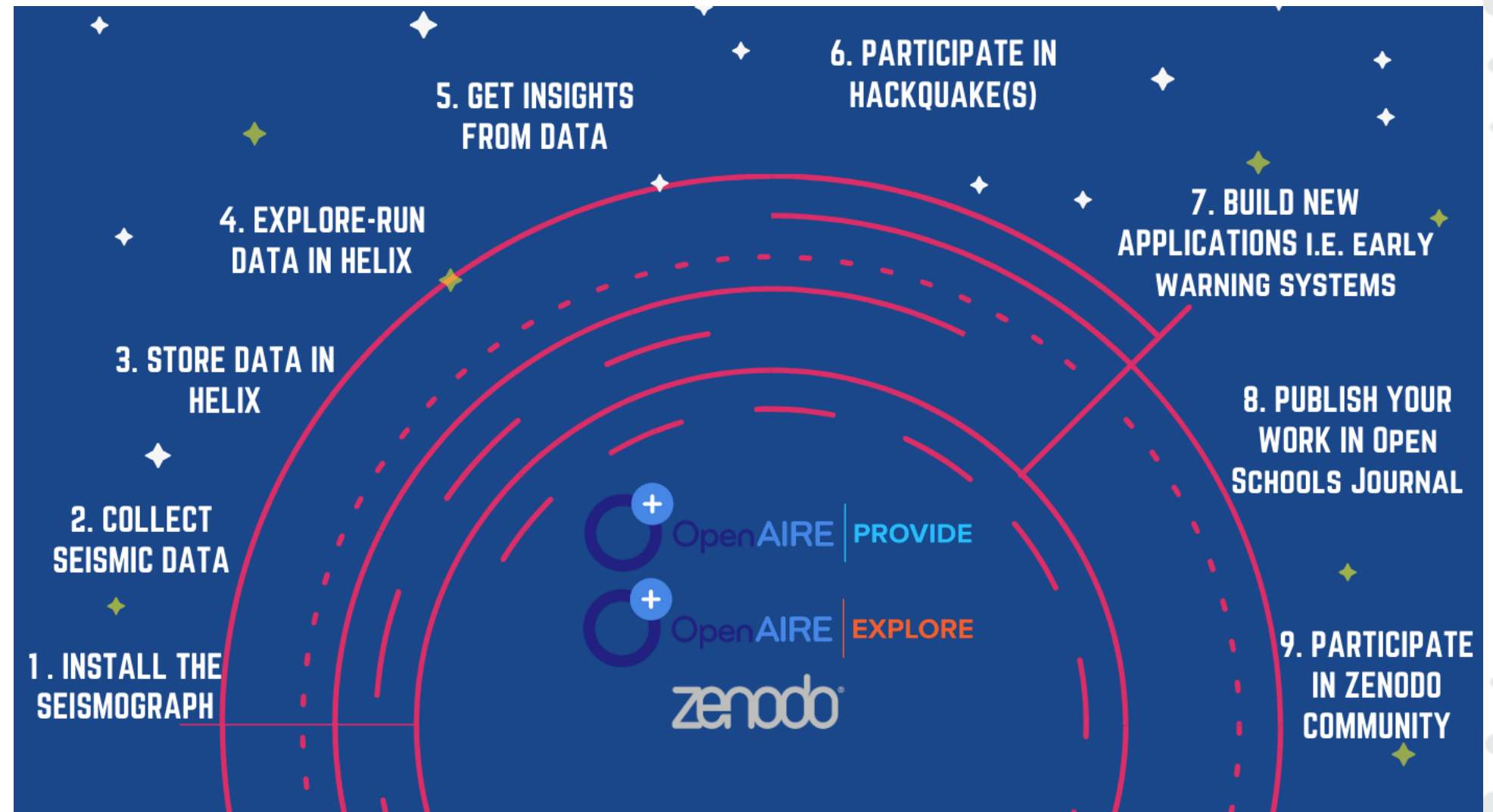




# Integration with OpenAIRE Services

## Journal Articles

- Assigned DOI
- Indexed on OpenAIRE
- Findability
- Accessibility
- Interoperability
- Reusage





Activities in Schools-  
The seismic data Journey

# Schools network map

<https://snac.gein.noa.gr/schools-list/>

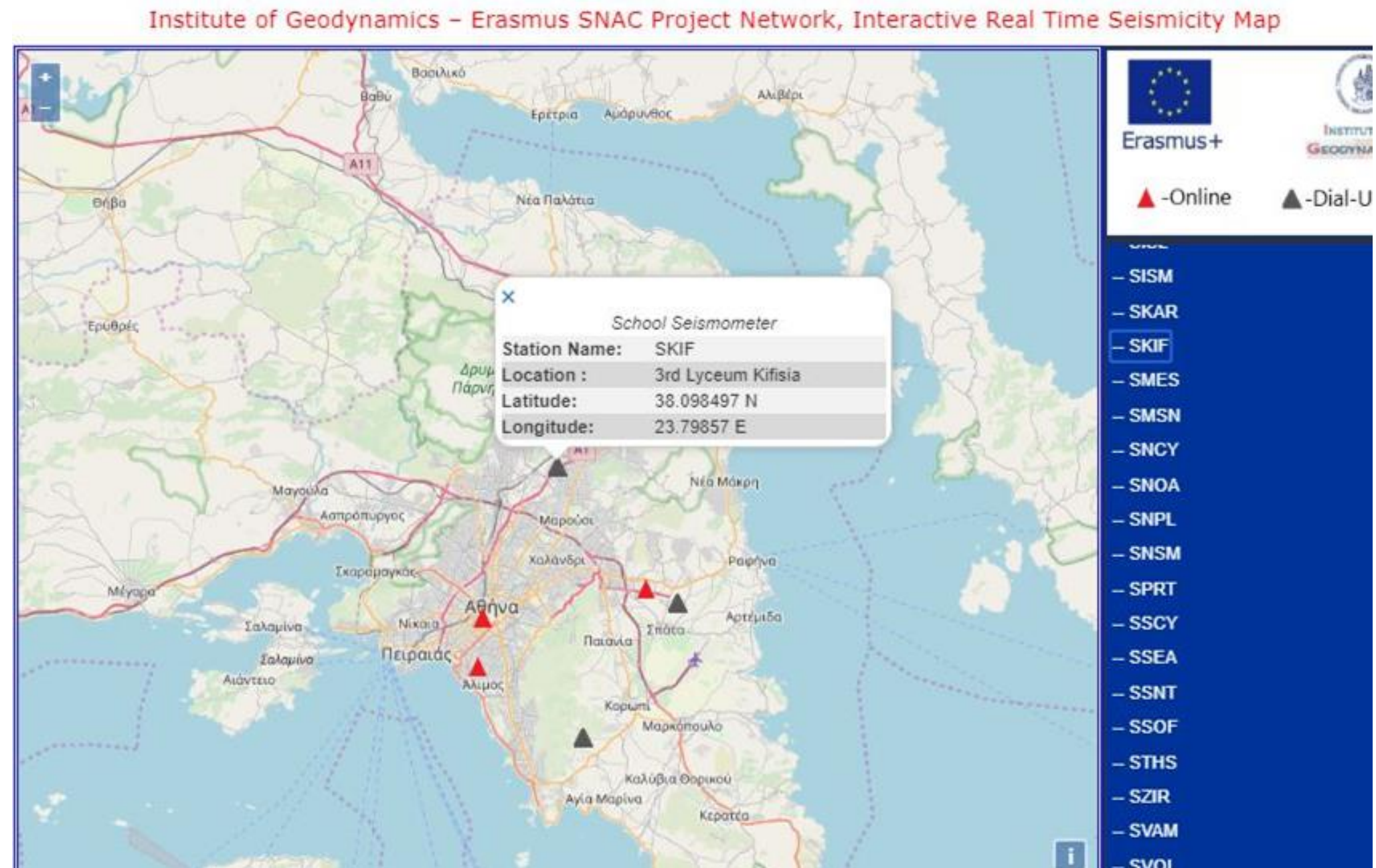
Institute of Geodynamics – Erasmus SNAC Project Network, Interactive Real Time Seismicity Map

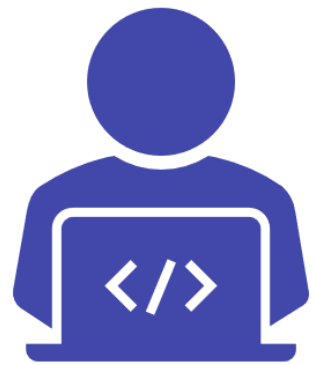




# Interactive real time seismicity map

- School Stations**
- AM.R4EB6
  - AM.R52CE
  - AM.R62B3
  - AM.R7988
  - AM.R9AC0
  - AM.R9AC7
  - AM.RAC91
  - AM.RB822
  - AM.RC574
  - AM.RF25A
  - SARG
  - SART
  - SAVL
  - SAZR
  - SCHN
  - SGET
  - SIGU





# The installation



# **Data Collection**



# Schools List

<https://snac.gein.noa.gr/schools-list/>

Station	Latitude	Longitude	Location	Seismometer	Connection <i>(online links are clickable)</i>
AMR4EB6	37.972797	23.717412	NOA Athens	Raspberry-Shake	Online
AMR52CE	38.403472	27.099504	Izmir Ozel Turk College	Raspberry-Shake	Online
AMR62B3	36.893095	27.292027	1o Gel Ko "Ipokrateio"	Raspberry-Shake	Online
AMR7988	38.469212	27.071702	Izmir Istek Schools	Raspberry-Shake	Online
AMR9AC0	38.874091	025.274719	Gymnasio Moudrou, Limnos	Raspberry-Shake	Online
AMR9AC7	37.047949	37.294710	Gazianted TED College	Raspberry-Shake	Online
AMRAC91	39.542492	21.772128	7o Gymnasio Trikalwn	Raspberry-Shake	Online
AMRB822	38.386	27.1816	Izmir, Turkey	Raspberry-Shake	Online
AMRC574	40.729765	23.000861	4o Gymnasio Lagkada, Lykeiakos Takseis	Raspberry-Shake	Online
AMRF25A	38.3807	21.7984	Ekpaideuthria Panou, Nafpaktos	Raspberry-Shake	Online
SARG	38.178628	20.485415	Lyceum Argostoli, Kefalonia	TC1	Online
SART	39.475	21.075	Gymnasium Agnanta Arta	TC1	Online



# Status

## SNAC ERASMUS Online Stations Status

Last Update: (Day,Time -UTC-): 339, 13:47:4

*Click on each station status to see its real time plotting.*

Name	Network	Status	Time of last recording (Day,Hour)	Time delay (Day, Hour)
SARG	HL	<a href="#">Station is OK</a>	339, 13:47:04	0, 0:0:0
SART	HL	<a href="#">Station is OK</a>	339, 13:46:59	0, 0:0:5
SAZR	HL	<a href="#">Station is delaying</a>	339, 13:41:59	0, 0:5:5
SAVL	HL	<a href="#">Station is OK</a>	339, 13:46:55	0, 0:0:9
SIGU	HL	<a href="#">Station is OK</a>	339, 13:46:53	0, 0:0:11
SINST	HL	<a href="#">Station is OK</a>	339, 13:47:00	0, 0:0:4
SISM	HL	<a href="#">Station is OK</a>	339, 13:46:55	0, 0:0:9
SKAR	HL	<a href="#">Station is OK</a>	339, 13:46:53	0, 0:0:11
SMES	HL	<a href="#">Station is delaying</a>	339, 08:11:04	0, 5:36:0

# Raw data

## DATA DOWNLOAD

In this section Data Download is available from all the network stations.

The download is available using the following builder:

### SeisComP3 FDSNWS DataSelect - URL Builder

**Time constraints**

Start Time

End Time

**Channel constraints**

Network

Station

Location

Channel

**Service specific constraints**

Quality

Minimum Length (s)

Longest Only

Authentication

**Output control**

Format

No Data 404

**URL**

<http://10.0.0.235:8080/fdsnws/dataselect/1/query?nodata=404>

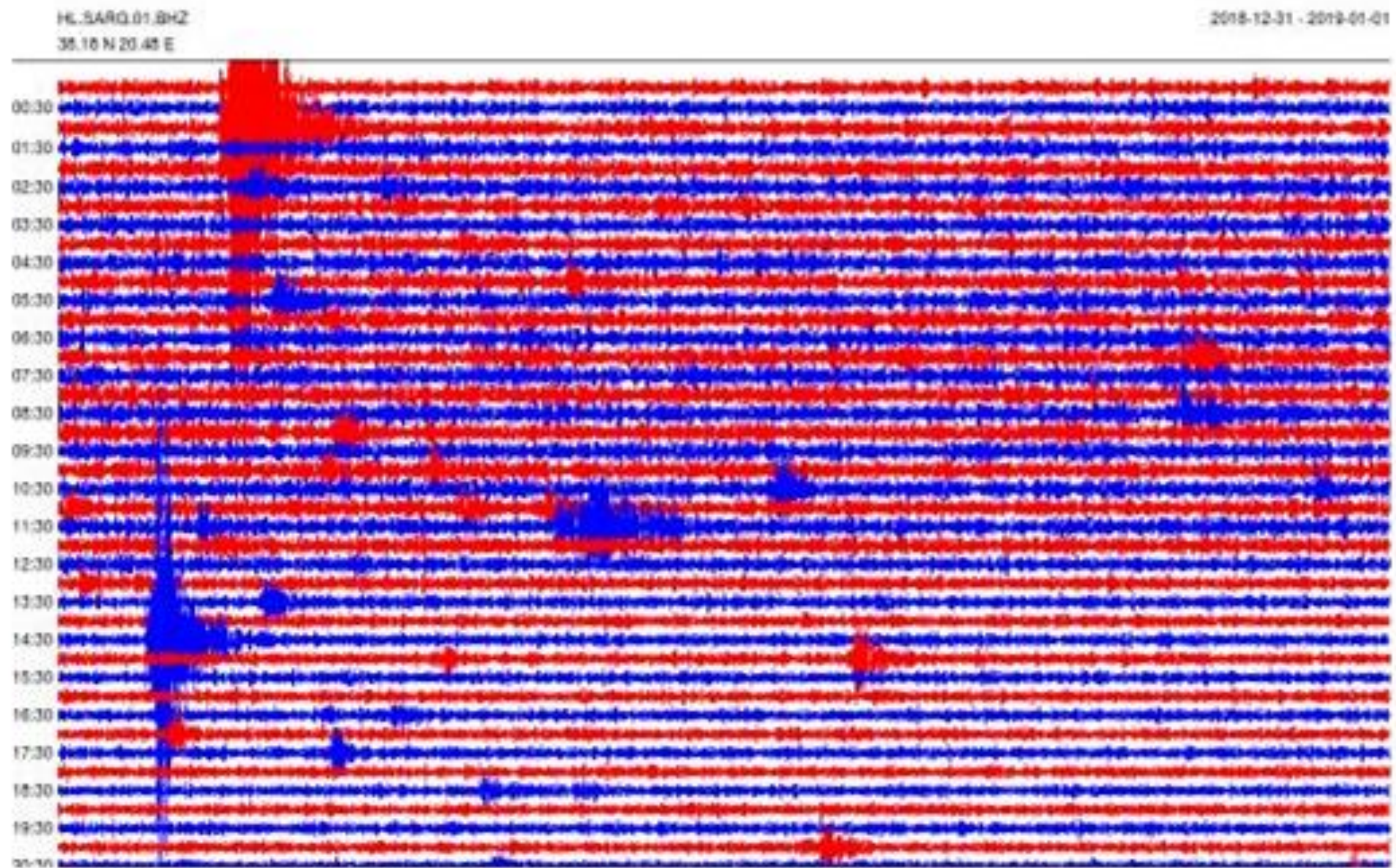
## Index of /SSE-DATA/Seismic Event Database

<a href="#">Name</a>	<a href="#">Last modified</a>	<a href="#">Size</a>	<a href="#">Description</a>
 <a href="#">Parent Directory</a>		-	
 <a href="#">SSE SAC FILES INTERNATIONAL/</a>	2018-05-23 16:25	-	
 <a href="#">SSE SAC FILES Regional/</a>	2018-03-21 00:16	-	
 <a href="#">SSE SAC M3-4 Files/</a>	2018-03-21 00:17	-	

Apache/2.4.29 (Ubuntu) Server at snac.gein.noa.gr Port 443



# Visualization







# Seismic data in HELIX



# What is Helix

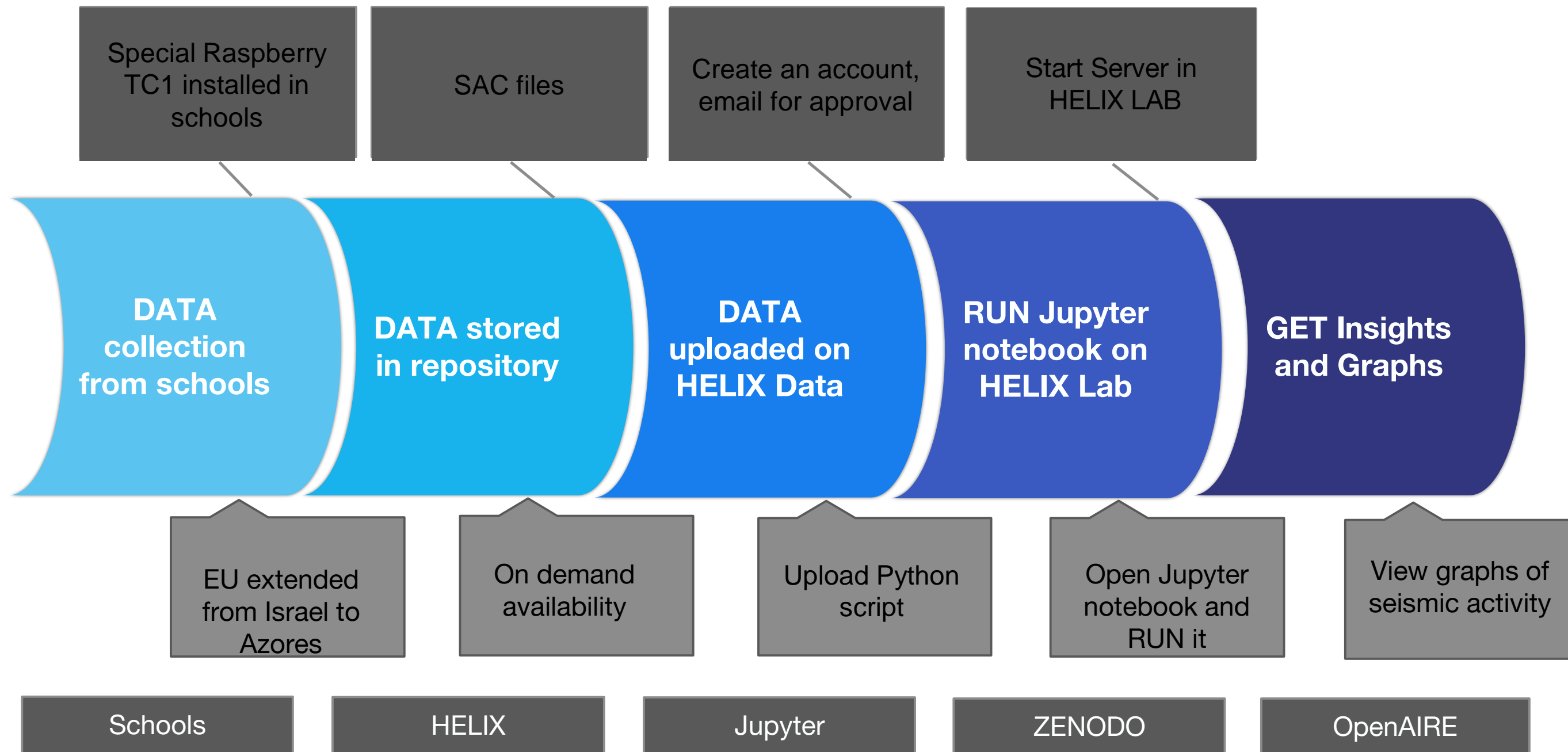
**HELIX** the Hellenic Data Service, is the national e-Infrastructure in support of data-intensive research, handling the data management, analysis, sharing, and reuse needs of Greek scientists, researchers and innovators in a cross-disciplinary, scalable, and low-cost manner.

<https://hellenicdataservice.gr/main/>

The screenshot shows the HELIX Hellenic Data Service website. The header includes the HELIX logo, navigation links (Data, Pubs, Lab, About, News, EN), and a search bar. The main content area features a large search bar with filters for DATA, PUBLS, and LAB, and an 'ADVANCED SEARCH' button. Below this, there are sections for 'Latest News' with two articles, 'About HELIX' with a 'What is HELIX?' section, 'Search for Data', 'Build with data', and 'Our partners'. The footer contains the HELIX logo, navigation links, and logos for partners like Athena RC, GRNET S.A., and OpenAIRE.



# Step by Step process





HELIX  
LAB  
Hellenic  
Data  
Service



Ευρωπαϊκή Ένωση  
Ευρωπαϊκό Ταμείο  
Περιφερειακής Ανάπτυξης

ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ  
ΥΠΟΥΡΓΕΙΟ  
ΑΝΑΠΤΥΞΗΣ ΚΑΙ ΕΠΕΝΔΥΣΕΩΝ  
ΕΙΔΙΚΗ ΓΡΑΜΜΑΤΕΙΑ ΔΙΑΡΚΗΤΩΝ ΠΡΟΓΡΑΜΜΑΤΩΝ  
ΕΣΠΑ 2014-2020

Με τη συγχρηματοδότηση της Ελλάδας και της Ευρωπαϊκής Ένωσης

ΕΠΑνεΚ 2014-2020  
ΕΠΙΧΕΙΡΗΣΙΑΚΟ ΠΡΟΓΡΑΜΜΑ  
ΑΝΤΑΓΩΝΙΣΤΙΚΟΤΗΤΑ  
ΕΠΙΧΕΙΡΗΜΑΤΙΚΟΤΗΤΑ  
ΚΑΙΝΟΤΟΜΙΑ



Data

Pubs

Lab

About

News

EN



My Files

My Courses

Guides

Courses



UPLOAD FILE

Last update before a few seconds



seism\_py.ipynb



Servers

Name

Type

Size

Last Modified

No Data

Last update before a few seconds

Name

Type

Size

Last Modified



seism\_py.ipynb

file

156.37 kB

22/06/2020, 14:10

HELIX LAB Hellenic Data Service

ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ  
ΥΠΟΥΡΓΕΙΟ ΠΑΡΑΡΤΗΜΑΤΟΣ  
ΑΝΑΠΤΥΞΗΣ ΚΑΙ ΚΟΙΝΩΝΙΚΗΣ  
ΕΣΤΙΑΣ

Ευρωπαϊκή Ένωση  
Ευρωπαϊκό Ταμείο  
Περιφερειακής Ανάπτυξης

Με τη συγχρηματοδότηση της Ελλάδας και της Ευρωπαϊκής Ένωσης

News EN

Available Servers

Select a server to run your notebooks and see your files

28/11/2018, 12:36

**JupyterHub-Cluster1** 2 MB RAM 2 VC

A JupyterHub cluster

Python

Available Kernels

Seismographic Data Default

Servers

Name	Type	Size	Last Modified
seism_py.ipynb	file	156.37 kB	22/06/2020, 14:10

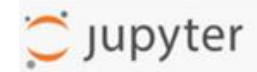
JupyterHub-Cluster1 | Seismographic Data

Last update before a few seconds

Name	Type	Size	Last Modified
seism_py.ipynb	file	156.37 kB	22/06/2020, 14:10



# Access Jupyter notebook



Sign in with [hellenicdataservice.gr](https://hellenicdataservice.gr)

# Run seismic data script on Jupyter

```
In [4]: ▶ path = 'earthquake_data/'
        dirs = {}
        for r_, d_, f_ in os.walk(path):
            if r_ not in dirs:
                dirs[r_] = []
                for file in f_:
                    if '.sac' in file:
                        dirs[r_].append(file)
```

```
In [5]: ▶ sacs = {}
        for dir_ in dirs:
            if len(dirs[dir_]) == 0:
                continue
            dir_name = dir_.split(os.sep)[-1]
            sacs[dir_name] = []
            for file in dirs[dir_]:
                sacs[dir_name].append(os.path.splitext(file)[0])
```

```
In [6]: ▶ list(sacs.keys())
```

```
Out[6]: ['201909_140424',
         '20170612_122838',
         '20170712_170950',
         '20181025_225449',
         '20190719_111315']
```

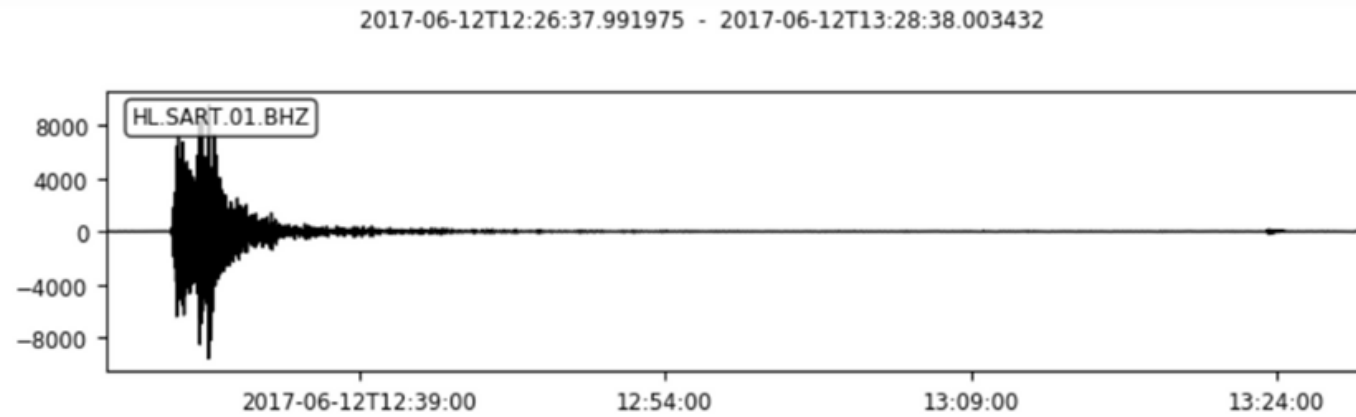
Select event

```
In [19]: ▶ event = list(sacs.keys())[1]
         event
```

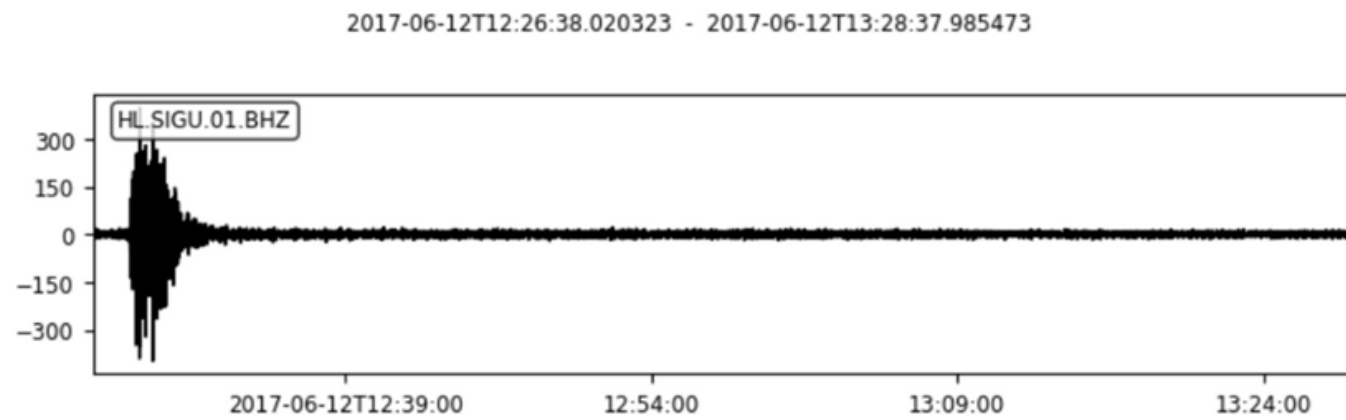
```
Out[19]: '20170612_122838'
```

# Visualization of seismic data on Jupyter

Gymnasium  
Agnanta Arta,  
Greece



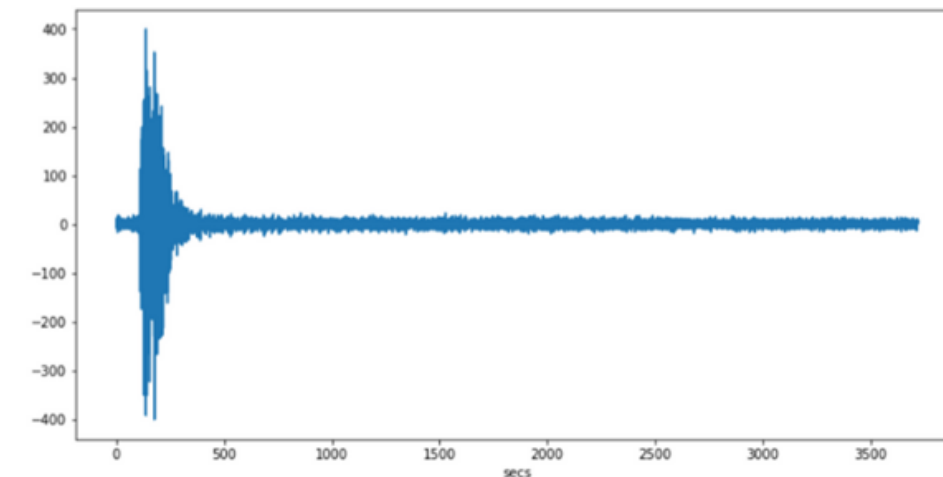
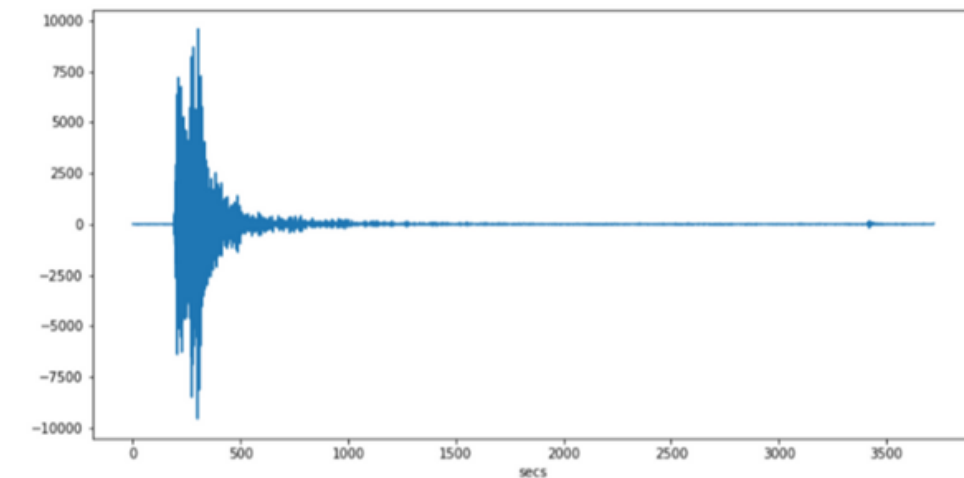
3rd Gymnasium  
Igoumenitsa,  
Greece



Distance of two cities: 107 Km

```
In [11]: plt.plot(times1,data1)
plt.xlabel('secs')
```

```
Out[11]: Text(0.5,0,'secs')
```



The image features a large, stylized letter 'H' composed of two overlapping circles. The left circle is light blue and the right circle is a darker blue. The text 'Hacquake 2019' is centered within the white space between the two circles.

Hacquake 2019





“The world, the very emblem of all that is solid,  
has moved beneath our feet like a crust over a fluid.”

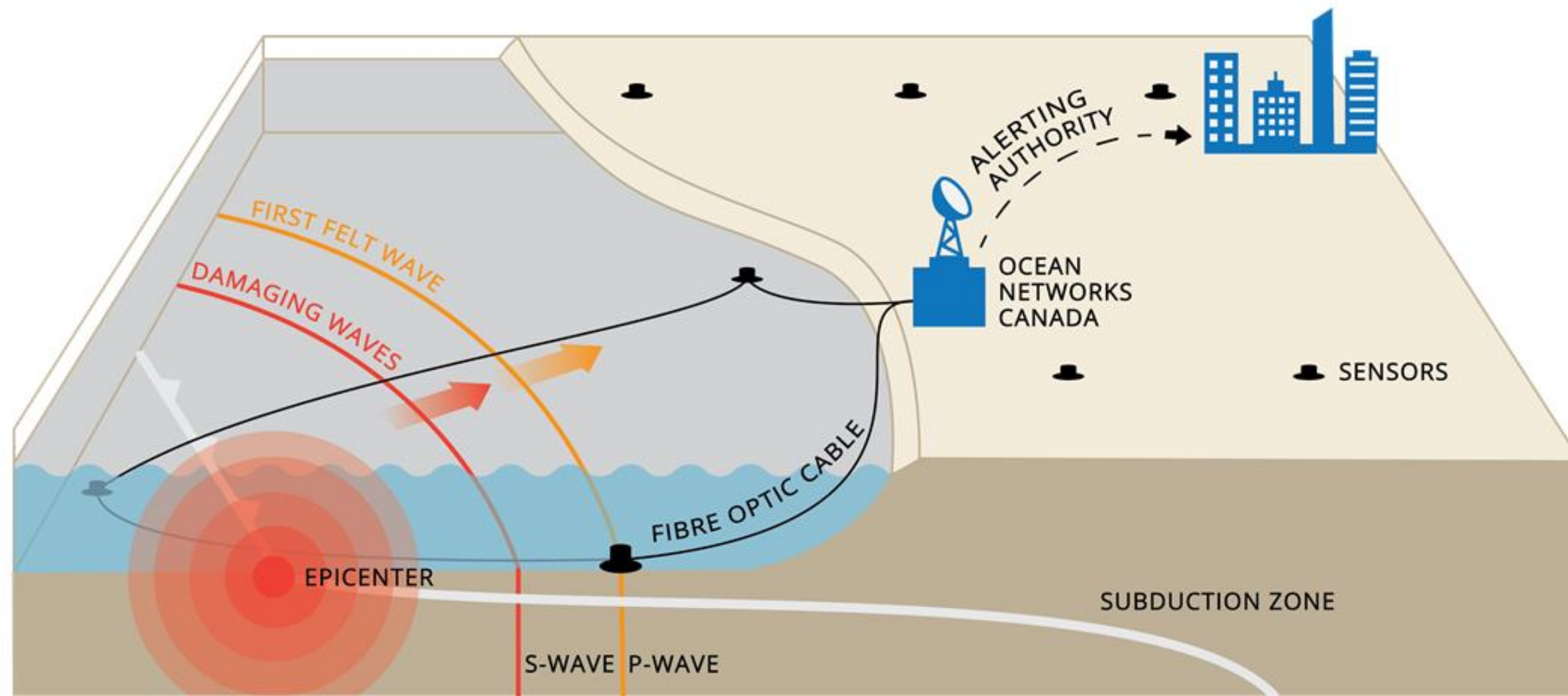
- Charles Darwin





# Hackquake

# Early warning systems



# Hackquake data

Publicly available  
via HELIX

<https://data.hellenicdataservice.gr/en/dataset/f4dfd3fc-42ee-4a60-91a6-3e32af449654>

The screenshot shows the dataset page for 'Earthquake Hackathon (HackQuake) Data' on the HELIX platform. The publisher is identified as HELIX Hellenic Data Service. The dataset is categorized under 'geology' and is licensed under 'CC-BY 4.0 - CREATIVE COMMONS ATTRIBUTION 4.0 INTERNATIONAL'. The page includes a description in Greek and English, a 'Data and Resources' section with a download link for 'earthquake\_data.zip', and a 'Metadata' section with a download link. A metadata table is also present at the bottom.

**Publisher**  
HELIX  
Hellenic Data Service

**Subjects**  
geology

**License**  
CC-BY 4.0 - CREATIVE COMMONS ATTRIBUTION 4.0 INTERNATIONAL

**PUBLISHERS \\\ HELIX \\\ EARTHQUAKE HACKATHON (HACKQUAKE) DATA**

## Earthquake Hackathon (HackQuake) Data

☆ 📄 EN

Publication: 2019-10-07  
Last revision: 2019-10-10

**DATASET** # TOPICS ACTIVITY STREAM

Σε αυτή την περιοχή της πλατφόρμας HELIX φιλοξενούνται δεδομένα από 5 μεγάλους σεισμούς, τα οποία θα χρησιμοποιηθούν από εκπαιδευτικούς και μαθητές για να αναπτύξουν μεθόδους έγκαιρης ειδοποίησης για σεισμούς. Η πρωτοβουλία αποτελεί μέρος της συνεργασίας του Γεωδυναμικού Ινστιτούτου, του Εθνικού Αστεροσκοπείου Αθηνών, του Ερευνητικού Κέντρου ΑΘΗΝΑ, του Οργανισμού ΕΕΛΛΑΚ και της Ελληνογερμανικής Αγωγής, στο πλαίσιο των έργων SNAC, OPENAIRE και OSOS.

This site of HELIX platform hosts data for 5 major earthquakes, which will be used by professors and students to develop early warning methods for earthquakes. This initiative is part of a collaboration between the Institute of Geodynamics, the National Observatory of Athens, Athena Research Center, GFOSS organization and Ellinogermaniki Agogi, in the context of SNAC, OPENAIRE and OSOS projects.

**Data and Resources**

earthquake\_data.zip  
No description **DOWNLOAD**

**Metadata**

**DOWNLOAD**

LICENSE	CC-BY 4.0 - Creative Commons Attribution 4.0 International	
TITLE	Earthquake Hackathon (HackQuake) Data	
CONTACT E-MAIL	pchronis@imis.athena-innovation.gr	
CREATOR	CREATOR NAME	The National Observatory Seismograph School Network
PUBLIC DOI	d877e548-338c-4b6a-acd3-f91158bb25c5	
LANGUAGE	English	

# Events

## Hackquake 1 (2019)

### Goals

Inform students and teachers

Educate teachers as trainers

Demonstrate the Data Journey from capture to visualizations & applications

## Hackquake 2 (2020)

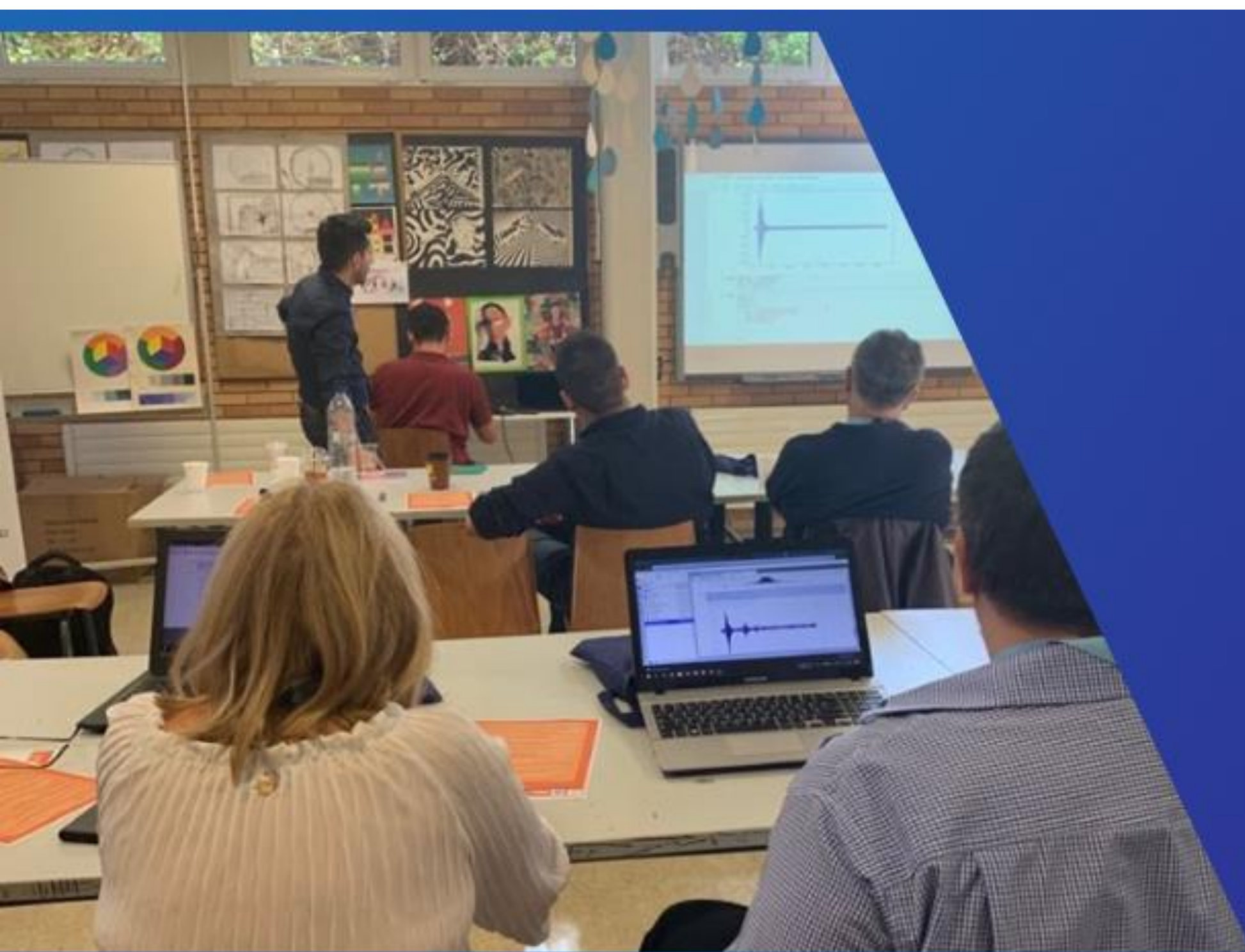
### Goals

Broad invitation to school teams

Teams composition; students and teachers

Challenge teams to create applications





# HACKQUAKE 2019

OpenAIRE-Advance Citizen Science Webinar| June 30 2020



# Citizen Science Data in Education







Publishing  
students research

# The Journal

An international  
scientific Journal  
from students to  
students

<https://ejournals.epublishing.ekt.gr/index.php/openschoolsjournal/index>



**Open Schools Journal  
for Open Science**



# Journal in numbers

217

Users

128

Authors

91

Reviewers

154

published items

5

new issues till  
the end of July  
2020

>100

new articles



# Table of contents

Vol 3 (2020)



## Table of Contents

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Editorial  
Eugenia Kyriotis

PDF

### Portugal

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A. Ferreira, I. Ranoso, L. Fernandes

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PDF

Municipal Young Assembly  
H. Paixão, S. Romeiro

PDF

Atmosphere Control of a House  
I. Madaleno, S. Branco

PDF

Protect Bees, Save the Future  
I. Madaleno, S. Branco

PDF

Learn to Eat and Get a Move On  
I. Calvo, I. Leão, I. Nunes, J. Morgado, R. Pacheco, T. Cabaço, T. Magalhães

PDF

Let's Change the Playground Floor!  
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PDF

Ribeira da Lage, a Stream to Protect  
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M. C. Tavares

PDF

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PDF

Biodiversity  
M. Gonçalves

PDF

Message in a Bottle  
M. M. Matos

PDF

Hajuda  
M. Azevedo

PDF

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# Example article



## How to cite

### Jacques Backyard

*A. Ferreira, I. Raposo, L. Fernandes*

**DOI:** <https://doi.org/10.12681/osj.23411>

Views: 33 Downloads: 22

### Abstract

From a letter to the School's director "What I think about my school", students identified problems and designed a project in order to have direct intervention in the solution. Under the theme "Biodiversity", the project aimed to create an "edible garden" at school and involved different activities: planting trees, identifying the existing ones, growing vegetables, composting and collecting rainwater for irrigation, where some of them. The construction of the gardens respected the underground life and the planting was done taking into account the intercropping of plants. Whenever possible, the project was linked to the students' curriculum. The project also had an artistic aspect: students and elderly people graffitied one of the walls next to the vegetable gardens, taking advantage of an autarchy project entitled "Active aging".

### Keywords

Biodiversity; biotic interactions; climate change; material cycle; natural resources

### Full Text:

PDF



 [Download this PDF file](#)



## Jacques Backyard

*A. Ferreira<sup>1</sup>, I. Raposo<sup>1</sup>, L. Fernandes<sup>1</sup>, students from classes 6.<sup>º</sup>E, 8.<sup>º</sup>A and 9.<sup>º</sup>D<sup>1</sup>*

*<sup>1</sup>Escola Básica Pedro Jacques de Magalhães, Agrupamento de Escolas Pedro Jacques de Magalhães, Alverca do Ribatejo, Portugal*

# Archives



[Vol 3 \(2020\)](#)



[Vol 2 \(2020\)](#)



[Vol 1 \(2020\)](#)



[Vol 1, No 4 \(2020\): Special Issue](#)  
This is the cover for Special Issue Vol1 No4



[Vol 1, No 3 \(2019\)](#)



[Vol 1, No 2 \(2019\)](#)



[Vol 1, No 1 \(2018\)](#)

# Template and Instructions

## Supported languages

Italian

Portuguese

German

Spanish

Slovak

Turkish

Greek

English



Please ensure that you consider the following guidelines when preparing your manuscript.

## This is the title of your manuscript

Instructions: Place the title in the center of the page, and in 28-point bold Calibri font at the top as indicated here. Except for special names (e.g. USA), use capital letters only for the first letter of the title. The title needs to be short, try not to use abbreviations (e.g. ESA). Try to explain the main conclusion/point of the article in the title. The title should have a maximum of 7 words in length.

*Initial of Author given name, Author Family name, Initial of Author given name, Author Family name, Department, Organization, City, and Country or School Class, School Name, City, Country*

Instructions: All authors names should be listed and separated by commas. Provide the initial of the given name of the author and full family name. If more than one authors come from the same organization then list all the names and provide the name of the organisation at the end.

### Abstract

Instructions: The abstract should present the concept in a way that is accessible to students 10-18 years old. In this paragraph please provide basic-level introduction to the field your research relates to; a brief description of the background and rationale of your work; a statement of the main conclusions (introduced by the phrase 'Here we show' or its equivalent); and finally, 2-3 sentences putting the main findings into more general context. The text of the summary section should be in 12-point normal Calibri. The summary should be no longer than **150 words**.





Open Schools Journal  
for Open Science



ELLINOGERMANIKI AGOGI

# Open Schools Journal for Open Science

## Certificate of Reviewing

Awarded month, year to

SUSANNE RESCH

In recognition of the Review made for the Journal

The editor of Open Schools Journal for Open Science  
Eugenia Kyriotis, Ellinogermaniki Agogi



OpenAIRE

OpenAIRE-Advance receives funding from the European Union's Horizon 2020 Research and Innovation programme under Grant Agreement No. 777541.



OSJ on Zenodo

# Zenodo Community

The screenshot shows the Zenodo website interface. At the top, there is a blue navigation bar with the Zenodo logo, a search bar, and buttons for 'Upload', 'Communities', 'Log in', and 'Sign up'. Below the navigation bar, the page title 'Open Schools Journal for Open Science' is displayed. The main content area is divided into two columns. The left column, titled 'Recent uploads', contains a search bar and three article listings. Each listing includes a date tag ('January 28, 2020 (v1)'), a 'Journal article' tag, an 'Open Access' tag, a 'View' button, a title, a list of authors, a short description, and the upload date. The right column features a green 'New upload' button at the top, followed by a community profile for 'Open Schools Journal for Open Science'. The profile includes a logo with a plus sign and a description of the journal's mission: 'The Open Schools Journal for Open Science is the first European peer review scientific journal which accepts original papers written by school age students from Primary to Secondary schools across Europe under the mentoring of their Teachers on all aspects of Science, Engineering and Technology. Students and Teachers via school projects produce scientific data that are invited to be published in this journal. The Journal publishes articles on a regular basis. Publication is free of charge and the Journal carries articles in English.'

zenodo Search Upload Communities Log in Sign up

## Open Schools Journal for Open Science

### Recent uploads

Search Open Schools Journal for Open Science

January 28, 2020 (v1) Journal article Open Access View

#### Ο θόρυβος στην καθημερινότητα των μαθητών: Μετρήσεις και καταγραφή

Π. Κακουλίδης; Χ. Καραχάλιου; Ν. Καταπόδη; Α. Κονιδάρη; Γ. Νιάρος; Δ. Πέττας; Α.Ε. Πρωτοπαπά; Δ. Σγουράκη; Ι. Σοφιανόπουλος; Γ. Στεργιόπουλος; Μ. Συριοπούλου; Γ. Χριστόπουλος; Α. Ασημακόπουλος; Λ.Μ. Βοζαίτη; Α.Μ. Γαλάνη; Δ. Γρίβας; Α. Δροσοπούλου; Μ. Καλλιντέρη; Α. Καραθανάση; Π. Μαντά; Β. Μαρούδας; Μ. Παλαιού; Α. Παπαδόπουλος; Β. Παπαδοπούλου; Γ. Πεγιάζης; Ι. Μαντάς;

Η συγκεκριμένη εργασία διενεργήθηκε στο πλαίσιο συνεδ

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#### Σχέση που συνδέει την τάση στους πόλους λαμπτήρα πυράκτωσης με την ένταση του ρεύματος που τον διαρρέει. Πειραματικός έλεγχος του θεωρητικού μοντέλου με χρήση συστήματος Arduino

Αρβανιτάκος Βάσιος; Γαβαλιά Αλεξάνδρα; Γκούσης Άγγελος; Μικρόπουλος Αλέξανδρος; Κονταξή Αλεξία; Μπούρχα Ιωάννα; Μπρόκβιτς Μάγια; Παπαδόπουλος Αλέξανδρος; Τόλιος Θάνας; Λουκάτος Δημήτρης; Παπατσιμπα Λαμπρινή;

Στη συγκεκριμένη εργασία τίθεται το ερώτημα: Ποια σχέση αυθεν

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#### Ο γύρος του κόσμου σε 80 ημέρες ... ανάποδα!

Χρήστος Αλεπός-Αναστασίου; Αναστασία Αλεξανδρίδη; Ηρώ Ανδρονικίδη; Πέτρος Βιτάλης; Παναγιώτα Δάλκου; Μαρία-



# Example article on Zenodo

The screenshot shows the Zenodo interface for a journal article. At the top, there is a blue navigation bar with the Zenodo logo, a search bar, and links for 'Upload' and 'Communities'. On the right side of the bar are 'Log in' and 'Sign up' buttons. Below the navigation bar, the article's date 'January 28, 2020' is displayed on the left, and 'Journal article' and 'Open Access' tags are on the right. The main title of the article is 'Ο θόρυβος στην καθημερινότητα των μαθητών: Μετρήσεις και καταγραφή'. Below the title, the authors' names are listed: Π. Κακουλίδης, Χ. Καραγάλιου, Ν. Καταπόδη, Α. Κονιδάρη, Γ. Νιάρος, Δ. Πέττας, Α.Ε. Πρωτοπαπά, Δ. Σγουράκη, Ι. Σοφιανόπουλος, Γ. Στεργιόπουλος, Μ. Συριοπούλου, Γ. Χριστόπουλος, Α. Ασημακόπουλος, Λ.Μ. Βοζαίτη, Α.Μ. Γαλάνη, Δ. Γρίβας, Α. Δροσοπούλου, Μ. Καλλιντέρη, Α. Καραθανάση, Π. Μαντά, Β. Μαρούδας, Μ. Παλαιού, Λ. Παπαδόπουλος, Β. Παπαδοπούλου, Γ. Πεγιάζης, Ι. Μαντάς. The abstract follows, describing the study's focus on noise measurement in schools. To the right of the article text, there are several informational boxes: 1) A box showing '8 views' and '19 downloads' with a 'See more details...' link. 2) A box indicating the article is indexed in 'OpenAIRE'. 3) A box with 'Publication date: January 28, 2020', 'DOI: 10.5281/zenodo.3629521', and 'Keyword(s): θόρυβος, ακουστική, ηχητικό περιβάλλον, ακουστικές μετρήσεις'. 4) A box for 'Communities: Open Schools Journal for Open Science' and 'License (for files): Creative Commons Attribution 4.0 International'. 5) A 'Versions' box showing 'Version 1' dated 'Jan 28, 2020' with the DOI '10.5281/zenodo.3629521'. At the bottom of the article content, there is a 'Preview' window showing a PDF viewer interface with the article title and authors' names. The bottom of the page features the OpenAIRE logo, the European Union flag, and the text 'OpenAIRE-Advance Citizen Science Webinar| June 30 2020'.



# OSJ on Zenodo


The screenshot shows the top navigation bar of the Zenodo website. It features the Zenodo logo on the left, a search bar with a magnifying glass icon, and links for 'Upload' and 'Communities'. On the right side of the bar, there are 'Log in' and 'Sign up' buttons. Below the navigation bar, the title 'Open Schools Journal for Open Science' is displayed in a large, dark font.


## Recent uploads

This screenshot shows a recent upload entry. At the top, there is a search bar with the text 'Search Open Schools Journal for Open Science' and a magnifying glass icon. Below the search bar, there are three tags: 'January 28, 2020 (v1)', 'Journal article', and 'Open Access'. To the right of these tags is a 'View' button. The main title of the entry is 'Ο θόρυβος στην καθημερινότητα των μαθητών: Μετρήσεις και καταγραφή'. Below the title, there is a list of authors: Π. Κακουλίδης, Χ. Καραχάλιου, Ν. Καταπόδη, Α. Κονιδάρη, Γ. Νιάρος, Δ. Πέττας, Α.Ε. Πρωτοπαπά, Δ. Σγουράκη, Ι. Σοφιανόπουλος, Γ. Στεργιόπουλος, Μ. Συριοπούλου, Γ. Χριστόπουλος, Α. Ασημακόπουλος, Λ.Μ. Βοζαίτη, Α.Μ. Γαλάνη, Δ. Γρίβας, Α. Δροσοπούλου, Μ. Καλλιντέρη, Α. Καραθανάση, Π. Μαντά, Β. Μαρούδας, Μ. Παλαιού, Λ. Παπαδόπουλος, Β. Παπαδοπούλου, Γ. Πεγιάζης, Ι. Μαντάς. Below the author list, there is a short description: 'Η συγκεκριμένη εργασία διενεργήθηκε στο πλαίσιο συνεδ' and the upload date: 'Uploaded on January 28, 2020'.


This screenshot shows a green button with a white upload icon and the text 'New upload'. Below the button is a community logo for 'Open Schools Journal for Open Science'. The logo features a stylized figure holding a plus sign inside a circle, with the text 'Open Schools Journal for Open Science' below it.

This screenshot shows the 'Upload type' selection interface. At the top, there is a label 'Upload type' and a 'required' dropdown menu. Below this, there are nine icons representing different upload types: Publication, Poster, Presentation, Dataset, Image, Video/Audio, Software, Lesson, and Other. Each icon has a radio button below it. The 'Publication' radio button is selected. Below the icons, there is a 'Publication type' dropdown menu with 'Journal article' selected.


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# Nobel Prize Physics on Zenodo

# Frontiers Zenodo community

## Recent uploads



December 20, 2019 (v1)

Project deliverable

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View

### FRONTIERS Intellectual Output 2\_ The FRONTIERS Demonstrators

Christine Kourkoumelis; Stelios Vourakis; Margaret Farren; Yvonne Crotty; Orla Dunne;

This intellectual output integrates the outreach practices identified in O1 under a common educational approach and develops the FRONTIERS Demonstrators that can be used by the educational community in Europe and beyond. The outreach practices identified in output 1 have now been developed within an

Uploaded on December 20, 2019

September 26, 2019 (v1)

Project deliverable

Open Access

View

### FRONTIERS Intellectual Output3\_ Community Building and Support

Emmanuel Chaniotakis;

FRONTIERS is bringing together a network of educational communities and research centres in Ireland, France, Italy, Portugal and Greece in order to act as the pilot group for the project activities. This intellectual output presents the community building and support strategy, methodology an

Uploaded on September 26, 2019

New upload

Community



## FRONTIERS

The FRONTIERS project, funded under the Erasmus+ funding scheme, brings together expertise from frontier scientific research and educational research in formal and informal science learning, along with user communities across Europe, in order to demonstrate how Nobel Prize winning science can be systematically integrated in the school curriculum.

This community will host project outputs, datasets, applications, educational and teacher training material developed or utilized by the FRONTIERS consortium in cutting edge science and aims to contribute in the further dissemination of modern science in K12 education.

December 20, 2019

Project deliverable **Open Access**

# FRONTIERS Intellectual Output 2\_ The FRONTIERS Demonstrators

Christine Kourkoumelis; Stelios Vourakis; Margaret Farren; Yvonne Crotty; Orla Dunne

This intellectual output integrates the outreach practices identified in O1 under a common educational approach and develops the FRONTIERS Demonstrators that can be used by the educational community in Europe and beyond. The outreach practices identified in output 1 have now been developed within an inquiry based pedagogical framework and are supported by interactive technologies.

50  
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downloads

Indexed in

OpenAIRE

Publication date:

December 20, 2019

DOI:

DOI [10.5281/zenodo.3587654](https://doi.org/10.5281/zenodo.3587654)

Keyword(s):

Pedagogical Framework

Demonstrators

Educational Scenarios

Modern Physics in the Classroom

Communities:

FRONTIERS

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Preview



Page:

1

of 158



+

Automatic Zoom



**FRONTIERS**  
Bringing Nobel Prize Physics in the Classroom

Output 2: Demonstrators

Date:

16/12/2019



Good practice example



# New discovery!

## Κυνήγι Εξωπλανητών

Ανδρέας Βατίστας Βατίστας, Θανάσης Βασιλαίνας Βασιλαίνας, Εμμέλεια Βουτιέρου, Φωτεινή-Μαρία Δραβίλλα, Γιώργος Καλπαξής, Ρένια Μενέγου, Παναγιώτης Μιχάλαϊνας, Ιάσωνας Παυλόπουλος, Δήμητρα Πίνα, Θωμάς Πιτσαργιώτης, Γιώργος Τσακίρης, Στέλιος Φραγκουδάκης, Δρ. Σωτήριος Τσαντίλας Views: 64 Downloads: 41

DOI: <https://doi.org/10.12681/osj.22398>

### Abstract

Από το 2009 το διαστημικό τηλεσκόπιο Kepler καταγράφει τις μικρές ελαττώσεις (εκλείψεις) στο φως μακρινών αστέρων που οφείλονται στη διάβαση (transit) πλανητών από μπροστά τους. Σκοπός μας είναι να εντοπίσουμε πλανήτες σε τροχιά γύρω από μακρινά άστρα από τα δεδομένα της αποστολής Kepler, χρησιμοποιώντας τη Μέθοδο των Διαβάσεων με τη βοήθεια δύο προγραμμάτων που έχει γράψει η ομάδα μας σε γλώσσα C. Εφόσον εντοπιστούν και επιβεβαιωθούν οι διαβάσεις, προχωρούμε στην ανάλυση των χαρακτηριστικών του πλανήτη: Ακτίνα, κλίση, απόσταση από το αστέρι, και κυρίως αν βρίσκεται στη λεγόμενη «κατοικήσιμη ζώνη» πράγμα που θα κάνει δυνατή τη διατήρηση ζωής. Λόγω του πολύ μικρού μεγέθους των πλανητών σε σχέση με το αστέρι τους, ο εντοπισμός αυτός είναι εξαιρετικά δύσκολος. Παρόλα αυτά έχουμε ήδη εντοπίσει έναν τέτοιο εξωπλανήτη σε τροχιά γύρω από τον αστέρα KIC 1432789 τα χαρακτηριστικά του οποίου ανέλυσε η ομάδα μας για πρώτη φορά.

Since 2009, Kepler Space Telescope has been recording small reductions (eclipses) in the light of distant stars due to the transit of planets in front of them. Our goal is to detect planets in orbit around distant stars from Kepler's mission data, following the Reading Method using two programs written by our team in programme language C. If the readings are detected and confirmed, we proceed to their analysis. characteristics of the planet: Ray, inclination, distance from the star, and especially if it is in the so-called "habitable zone" which will make it possible to maintain life.

However, we have already identified such an exoplanet in orbit around the star KIC 1432789, the characteristics of which our team analyzed for the **first time**.

# Thank you!

**Eugenia Kypriotis,**

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Any questions?

