Breaking frontiers in long-term, high-frequency monitoring of sediment dynamics across Europe

Fact Sheet

Project Information

**EUUsed**
Grant agreement ID: 101067047

**DOI**
10.3030/101067047

**Funded under**
Marie Skłodowska-Curie Actions (MSCA)

**Total cost**
€ 0,00

**EU contribution**
€ 191,760,00

**Start date**
1 January 2023

**End date**
31 December 2024

**Coordinated by**
INSTITUT ROYAL DES SCIENCES NATURELLES DE BELGIQUE
Belgium

Project description

A new approach to sediment transport

Understanding sediment transport is important for coastal areas. However, high-fidelity, long-term in situ data of sediment transport, particularly suspended particulate matter concentration is often unavailable or unreliable. In this context, the EU-funded EUUsed project will reduce the calibration effort and improve the accuracy of long-term, high-frequency in situ measurements. EUUsed will integrate field and laboratory studies to demonstrate that combination of at least one pair of optical and acoustic sensors will help to ‘see’ the mud better and ‘hear’ the sand better. This will
make it possible to reproduce detailed information on suspended sediment concentration profiles in a river, estuarine or coastal zone. Overall, EUsed will enhance the understanding of optical and acoustic signals.

**Fields of science**

- **natural sciences** > earth and related environmental sciences > geology > sedimentology
- **natural sciences** > earth and related environmental sciences > hydrology
- engineering and technology > electrical engineering, electronic engineering, information engineering > electronic engineering > sensors

**Keywords**

- sediment dynamics
- suspended particulate matter concentration
- optical
- acoustic measurements
- long term monitoring

**Programme(s)**

HORIZON.1.2 - Marie Skłodowska-Curie Actions (MSCA)  
[MAIN PROGRAMME]

**Topic(s)**

HORIZON-MSCA-2021-PF-01-01 - MSCA Postdoctoral Fellowships 2021

**Call for proposal**

HORIZON-MSCA-2021-PF-01

See other projects for this call

**Funding Scheme**

HORIZON-TMA-MSCA-PF-EF - HORIZON TMA MSCA Postdoctoral Fellowships - European Fellowships
Coordinator

INSTITUT ROYAL DES SCIENCES NATURELLES DE BELGIQUE

Net EU contribution
€ 191 760,00

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Region
Région de Bruxelles-Capitale/Brussels Hoofdstedelijk Gewest > Région de Bruxelles-Capitale/ Brussels Hoofdstedelijk Gewest > Arr. de Bruxelles-Capitale/Arr. Brussels-Hoofdstad

Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 0,00

Partners (2)

TECHNISCHE UNIVERSITEIT DELFT

Net EU contribution
€ 0,00

Address
Stevinweg 1
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Region
West-Nederland > Zuid-Holland > Delft en Westland

Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network
OTHER FUNDING

CHRISTIAN-ALBRECHTS-UNIVERSITAET ZU KIEL

Germany

Net EU contribution

€ 0,00

Address

Olshausenstrasse 40
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Region

Schleswig-Holstein > Schleswig-Holstein > Kiel, Kreisfreie Stadt

Links

Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network

Other funding

€ 0,00

EC signature date
13 July 2022

Last update:
4 September 2022

Permalink: https://cordis.europa.eu/project/id/101067047

European Union, 2023