



Sentinel EO-Based Emission and Deposition Service

Fact Sheet

Project Information

SEEDS

Grant agreement ID: 101004318

[Project website](#)

DOI
[10.3030/101004318](#)

Project closed

EC signature date
21 October 2020

Start date 1 January 2021 **End date** 31 December 2023

Funded under
INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies – Space

Total cost
€ 1 498 875,00

EU contribution
€ 1 498 875,00

Coordinated by
STIFTELSEN NILU
 Norway

This project is featured in...



Evolution of Copernicus services to meet global environmental, emergency and security challenges

Project description

Add-on pollutant service for satellite observations

The Copernicus Atmosphere Monitoring Service (CAMS) is a service managed and coordinated by the European Commission, the European Space Agency, EU Member States and some EU agencies. It provides continuous data and information on atmospheric composition. The EU-funded SEEDS project will develop an add-on service to the CAMS on pollutant emissions and depositions that will empower satellite observations and deliver new products. The project envisages supporting European competitiveness in air quality management, precision agriculture and industrial applications. SEEDS will integrate data from CAMS with Copernicus Sentinel satellite observations through data assimilation, inverse and land surface modelling, and machine learning methods. The project will establish an IT platform offering its data products.

Fields of science (EuroSciVoc)

[engineering and technology](#) > [mechanical engineering](#) > [vehicle engineering](#) > [aerospace engineering](#) > [satellite technology](#)

[engineering and technology](#) > [environmental engineering](#) > [air pollution engineering](#)

[agricultural sciences](#) > [agriculture, forestry, and fisheries](#) > [agriculture](#)

[social sciences](#) > [political sciences](#) > [political policies](#) > [civil society](#)

[natural sciences](#) > [computer and information sciences](#) > [artificial intelligence](#) > [machine learning](#)



Keywords

[industrial emissions](#)

[biogenic emissions](#)

[deposition fluxes](#)

[inverse modelling](#)

[data assimilation](#)

Programme(s)

[H2020-EU.2.1.6. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies – Space](#) MAIN PROGRAMME

[H2020-EU.3.5. - SOCIETAL CHALLENGES - Climate action, Environment, Resource Efficiency and Raw Materials](#)

Topic(s)

[LC-SPACE-18-EO-2020 - Copernicus evolution: Research activities in support of the evolution of the Copernicus services](#)

Call for proposal

[H2020-SPACE-2018-2020](#)

[See other projects for this call](#)

Sub call

H2020-SPACE-2020

Funding Scheme

[RIA - Research and Innovation action](#)

Coordinator



STIFTELSEN NILU

Net EU contribution

€ 400 125,00

Total cost

€ 400 125,00

Address

INSTITUTTVEIEN 18

2027 Kjeller

 **Norway** 

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Participants (7)



KONINKLIJK NEDERLANDS METEOROLOGISCH INSTITUUT-KNMI

 Netherlands

Net EU contribution

€ 339 250,00

Address

UTRECHTSEWEG 297

3731 GA De Bilt 

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 339 250,00



INSTITUT ROYAL D'AERONOMIE SPATIALEDE BELGIQUE

 Belgium

Net EU contribution

€ 273 000,00

Address

AVENUE CIRCULAIRE 3

1180 Bruxelles / Brussel 

Region

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

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 273 000,00



CENTRE EUROPEEN DE RECHERCHE ET DEFORMATION AVANCEE EN CALCUL SCIENTIFIQUE

 France

Net EU contribution

€ 172 500,00

Address

AVENUE G CORIOLIS 42

31057 Toulouse Cedex 

Region

Occitanie > Midi-Pyrénées > Haute-Garonne

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 172 500,00



METEO-FRANCE

 France

Net EU contribution

€ 157 000,00

Address

AVENUE DE PARIS 73

94165 Saint Mande Cedex



Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 170 000,00



THIRD-PARTY



CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS

 France

Net EU contribution

€ 13 000,00

Address

RUE MICHEL ANGE 3

75794 Paris



Region

Ile-de-France > Ile-de-France > Hauts-de-Seine

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 13 000,00



ISARDSAT SL

 Spain

Net EU contribution

€ 44 000,00

Address

CONGRES 49 51

08031 Barcelona 

SME 

Yes

Region

Este > Cataluña > Barcelona

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 144 000,00



THIRD-PARTY 

LOBELIA EARTH SL

 Spain

Net EU contribution

€ 100 000,00

Address

CL CONGRES NUM 49

08031 Barcelona 

SME 

Yes

Region

Este > Cataluña > Barcelona

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 100 000,00

Last update: 24 April 2024

Permalink: <https://cordis.europa.eu/project/id/101004318>

European Union, 2025