

Germany-Bonn: Research and development services and related consultancy services

OJ S 47/2023 07/03/2023

Contract award notice

Services

Legal Basis:

Directive 2014/24/EU

Section I: Contracting authority

I.1. Name and addresses

Official name: European Centre for Medium-Range Weather Forecasts (ECMWF)

Postal address: Robert-Schuman-Platz 3

Town: Bonn

NUTS code: DEA22 Bonn, Kreisfreie Stadt

Postal code: 53175

Country: Germany

Contact person: Procurement at ECMWF

E-mail: procurement@ecmwf.int**Internet address(es):**Main address: <https://www.ecmwf.int/>Address of the buyer profile: <http://procurement.ecmwf.int/>**I.4. Type of the contracting authority**

European institution/agency or international organisation

I.5. Main activity

Other activity: Meteorological and Environmental Services

Section II: Object

II.1. Scope of the procurement**II.1.1. Title**

DE_370 Destination Earth Use Cases

Reference number: DE_370

II.1.2. Main CPV code

73000000 Research and development services and related consultancy services

II.1.3. Type of contract

Services

II.1.4. Short description

ECMWF, as the Entrusted Entity for the Destination Earth Programme (DestinE), issued five contracts for the provision of DestinE Use Cases.

II.1.6. Information about lots

This contract is divided into lots: no

II.1.7.

Total value of the procurement

Value excluding VAT: 2 375 892,72 EUR

II.2. Description

II.2.2. Additional CPV code(s)

73000000 Research and development services and related consultancy services

II.2.3. Place of performance

NUTS code: DE Deutschland

Main site or place of performance: On contractor's premises.

II.2.4. Description of the procurement

The overall objective of the contracts under this procurement is to demonstrate the value of the Destination Earth (DestinE) Digital Twins (DT) in different impact sectors and guide and influence the development of the Digital twins.

Contract No ECMWF/DESTINE/2022/DE_370a_Deltares aims at demonstrating the integration of regional coastal and inland models and local flood models in different regions, including in the Basque Country, the UK, La Reunion, the Dutch Caribbean Islands (BES Islands) and the Philippines, to manage compound flood risk. The regional models will use high-resolution DT Extremes and in some cases also DT Climate data and configure transferable workstreams that provide actionable information to end users. The contract implements a co-design approach engaging local stakeholders in the design.

Contract No ECMWF/DESTINE/2022/DE_370b_DLR aims at setting up a workflow on DestinE that couples the energy system model REMIX with the output and interfaces of the DT Climate. In doing so the contract will demonstrate the use of DestinE for electricity grid extension planning and adequacy assessments. The contract has a strong element of stakeholder engagement, aiming to involve energy system stakeholders in the nascent DestinE community.

Contract No ECMWF/DESTINE/2022/DE_370c_FZJ aims at setting up a workflow on DestinE that couples the air quality model EURAD-IM with the DT on-demand extremes. To this end the work includes containerizing the EURAD-IM model and running it on EuroHPC machines, notably LUMI. The contract will demonstrate the use of DestinE for public entities' management of air quality extremes in two selected test regions, North-Rhine Westphalia and Berlin/Brandenburg. The contract has a strong element of stakeholder engagement, aiming to involve LANUV and UBA as local stakeholders and further interested stakeholders in the nascent DestinE community.

Contract No ECMWF/DESTINE/2022/DE_370d_FMI further develops the existing HarvesterSeasons service by testing higher-resolution (1 km) input data and using climate projections to extend the service for decadal information. The contract will implement technical interfaces to DestinE System Components, further develop a front end for forestry users, and develop new Machine Learning (ML) methods, notably for downscaling model output to the resolution required by forestry users (tens of meters). Finnish user communities are strongly engaged.

Contract No ECMWF/DESTINE/2022/DE_370e_VITO aims to provide present and future high-resolution urban heat maps for cities across Europe to underpin and support urban climate adaptation measures that are being developed within the EU's cohesion policy and the development of EU policies related to the urban environment. The urban heat maps will be generated by means of a physics-based urban climate model, URBCLIM, drawing on data

from DT Climate and other data available via DEDL. DG Regio is engaged as the primary policy user. Also, two cities will be selected in which local authorities will be involved to confirm and demonstrate the value at city level.

II.2.5. Award criteria

Quality criterion - Name: Tenderer's Financial & Legal Organisation / Weighting: Pass/Fail

Quality criterion - Name: Relevance of the Use Case / Weighting: 25

Quality criterion - Name: Technical Capacity of the Tenderer / Weighting: 10

Quality criterion - Name: Technical Feasibility and Quality of the Planned Implementation / Weighting: 25

Quality criterion - Name: User Engagement / Weighting: 15

Quality criterion - Name: Management & Contract Implementation / Weighting: 10

Cost criterion - Name: Price Structure and Viability / Weighting: 15

II.2.11. Information about options

Options: no

II.2.13. Information about European Union funds

The procurement is related to a project and/or programme financed by European Union funds: yes

Identification of the project: Destination Earth Programme - <https://digital-strategy.ec.europa.eu/en/policies/destination-earth>

II.2.14. Additional information

Section IV: Procedure

IV.1. Description

IV.1.1. Type of procedure

Open procedure

IV.1.3. Information about a framework agreement or a dynamic purchasing system

IV.1.8. Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: no

IV.2. Administrative information

IV.2.1. Previous publication concerning this procedure

Notice number in the OJ S: [2022/S 111-314106](https://eur-lex.europa.eu/eli/s/2022/111-314106)

IV.2.8. Information about termination of dynamic purchasing system

IV.2.9. Information about termination of call for competition in the form of a prior information notice

Section V: Award of contract

Contract No: ECMWF/DESTINE/2022/DE_370a_Deltares

Title:

DE_370 Destination Earth Use Cases - Disaster Risk Mitigation and Climate Adaptation

A contract/lot is awarded: yes

V.2. Award of contract

V.2.1. Date of conclusion of the contract

10/02/2023

V.2.2. Information about tenders

Number of tenders received: 16

The contract has been awarded to a group of economic operators: no

V.2.3. Name and address of the contractor

Official name: Stichting Deltares

Postal address: Boussinesqweg 1

Town: Delft

NUTS code: NL Nederland

Postal code: 2629 HV

Country: Netherlands

The contractor is an SME: no

V.2.4. Information on value of the contract/lot

Initial estimated total value of the contract/lot: 600 000,00 EUR

Total value of the contract/lot: 585 986,40 EUR

V.2.5. Information about subcontracting

Section V: Award of contract

Contract No: ECMWF/DESTINE/2022/DE_370b_DLR

Title:

DE_370 Destination Earth Use Cases - Energy Systems

A contract/lot is awarded: yes

V.2. Award of contract

V.2.1. Date of conclusion of the contract

11/01/2023

V.2.2. Information about tenders

Number of tenders received: 16

The contract has been awarded to a group of economic operators: no

V.2.3. Name and address of the contractor

Official name: Deutsches Zentrum für Luft- und Raumfahrt e.V.

Postal address: Linder Höhe

Town: Cologne

NUTS code: DE Deutschland

Postal code: 51147

Country: Germany

The contractor is an SME: no

V.2.4. Information on value of the contract/lot

Initial estimated total value of the contract/lot: 600 000,00 EUR

Total value of the contract/lot: 432 601,48 EUR

V.2.5. Information about subcontracting

Section V: Award of contract

Contract No: ECMWF/DESTINE/2022/DE_370c_FZJ

Title:

DE_370 Destination Earth Use Cases - Air Quality

A contract/lot is awarded: yes

V.2. Award of contract

V.2.1. Date of conclusion of the contract

16/01/2023

V.2.2. Information about tenders

Number of tenders received: 16

The contract has been awarded to a group of economic operators: no

V.2.3. Name and address of the contractor

Official name: Forschungszentrum Jülich GmbH

Postal address: Wilhelm-Johnen-Straße

Town: Jülich

NUTS code: DE Deutschland

Postal code: 52428

Country: Germany

The contractor is an SME: no

V.2.4. Information on value of the contract/lot

Initial estimated total value of the contract/lot: 600 000,00 EUR

Total value of the contract/lot: 544 560,00 EUR

V.2.5. Information about subcontracting

Section V: Award of contract

Contract No: ECMWF/DESTINE/2022/DE_370d_FMI

Title:

DE_370 Destination Earth Use Cases - Forestry

A contract/lot is awarded: yes

V.2. Award of contract

V.2.1. Date of conclusion of the contract

22/02/2023

V.2.2. Information about tenders

Number of tenders received: 16

The contract has been awarded to a group of economic operators: no

V.2.3. Name and address of the contractor

Official name: Ilmatieteen Laitos

Postal address: Erik Palménin aukio 1
Town: Helsinki
NUTS code: FI Suomi / Finland
Postal code: FIN-00560
Country: Finland
The contractor is an SME: no

V.2.4. Information on value of the contract/lot

Initial estimated total value of the contract/lot: 600 000,00 EUR
Total value of the contract/lot: 420 812,21 EUR

V.2.5. Information about subcontracting

Section V: Award of contract

Contract No: ECMWF/DESTINE/2022/DE_370e_VITO

Title:

DE_370 Destination Earth Use Cases - Urban Heat

A contract/lot is awarded: yes

V.2. Award of contract

V.2.1. Date of conclusion of the contract

08/02/2023

V.2.2. Information about tenders

Number of tenders received: 16

The contract has been awarded to a group of economic operators: no

V.2.3. Name and address of the contractor

Official name: Vlaamse Instelling voor Technologisch Onderzoek NV

Postal address: Boerentang 200

Town: Mol

NUTS code: BE Belgique / België

Postal code: 2400

Country: Belgium

The contractor is an SME: no

V.2.4. Information on value of the contract/lot

Initial estimated total value of the contract/lot: 600 000,00 EUR
Total value of the contract/lot: 391 932,63 EUR

V.2.5. Information about subcontracting

Section VI: Complementary information

VI.3. Additional information

VI.4. Procedures for review

VI.4.1. Review body

Official name: European Centre for Medium-Range Weather Forecasts

Postal address: Shinfield Park
Town: Reading
Postal code: RG2 9AX
Country: United Kingdom
Internet address: <https://www.ecmwf.int/en/about/suppliers>

VI.4.3. Review procedure

Precise information on deadline(s) for review procedures:

See instructions on ECMWF's Suppliers web page: <https://www.ecmwf.int/en/about/suppliers>

VI.4.4. Service from which information about the review procedure may be obtained

Official name: European Centre for Medium-Range Weather Forecasts

Postal address: Shinfield Park

Town: Reading

Postal code: RG2 9AX

Country: United Kingdom

Internet address: <https://www.ecmwf.int/en/about/suppliers>

VI.5. Date of dispatch of this notice

02/03/2023