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Tender

## **Forecasting Tipping Points: Uniting climate measurements and models to create an early warning system**

ADVANCED RESEARCH AND INVENTION AGENCY

F02: Contract notice

Notice identifier: 2024/S 000-028222

Procurement identifier (OCID): ocds-h6vhtk-0497e7

Published 4 September 2024, 10:17am

### **Section I: Contracting authority**

#### **I.1) Name and addresses**

ADVANCED RESEARCH AND INVENTION AGENCY

96 EUSTON ROAD,

LONDON

NW12DB

#### **Email**

[clarifications@aria.org.uk](mailto:clarifications@aria.org.uk)

#### **Country**

United Kingdom

#### **Region code**

UKI31 - Camden and City of London

### **Justification for not providing organisation identifier**

Not on any register

### **Internet address(es)**

Main address

[www.aria.org.uk](http://www.aria.org.uk)

### **I.3) Communication**

The procurement documents are available for unrestricted and full direct access, free of charge, at

<https://www.aria.org.uk/forecasting-tipping-points>

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted to the above-mentioned address

### **I.4) Type of the contracting authority**

Body governed by public law

### **I.5) Main activity**

General public services

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## **Section II: Object**

### **II.1) Scope of the procurement**

#### **II.1.1) Title**

Forecasting Tipping Points: Uniting climate measurements and models to create an early warning system

#### **II.1.2) Main CPV code**

- 73110000 - Research services

#### **II.1.3) Type of contract**

## Services

### **II.1.4) Short description**

For more info see here ARIA is an R&D funding agency built to unlock scientific and technological breakthroughs that benefit everyone. We empower scientists and engineers to pursue research at the edge of what is technologically or scientifically possible. We will reach across disciplines, sectors and institutions to shape, fund and manage projects across the R&D ecosystem, from startups to universities, to break down silos and discover new pathways. We are looking for proposals for our Forecasting Tipping Points programme. For more info see <https://www.aria.org.uk/forecasting-tipping-points>

### **II.1.6) Information about lots**

This contract is divided into lots: No

## **II.2) Description**

### **II.2.3) Place of performance**

NUTS codes

- UK - United Kingdom

### **II.2.4) Description of the procurement**

Why this programme

Major parts of the Earth system are at risk of crossing climate tipping points within the next century, with severe consequences for biodiversity, food security, agriculture, and humanity. Despite the potential impact, we're poorly equipped to characterise the long-term trends of our climate systems, or predict the future risk of runaway, self-perpetuating change. Our best observational datasets are at a nascent stage, while our best climate models are computationally expensive and do not capture all the physical processes we need.

What we're shooting for

Combining expertise in observation and modelling with innovative sensing systems, we'll look to develop a proof-of-concept for an early warning system for climate tipping points that is affordable, sustainable and justified. We'll achieve this through a targeted deployment of low-cost sensing systems, to be tested in a multi-year field campaign, whose data can be integrated with advances in physics- and AI-driven models to push the frontiers of knowledge for climate tipping points.

By unifying these approaches, we're aiming to confidently predict when a system will tip, what the consequences be, and how quickly that change will unfold. Our goal: to create an early warning system for tipping points that equips the world with the information we need to build resilience and accelerate proactive climate adaptation.

#### **II.2.5) Award criteria**

Price is not the only award criterion and all criteria are stated only in the procurement documents

#### **II.2.7) Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months

60

This contract is subject to renewal

No

#### **II.2.10) Information about variants**

Variants will be accepted: No

#### **II.2.11) Information about options**

Options: Yes

Description of options

Additional funding, scope and duration could be added to any contracts awarded.

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## **Section III. Legal, economic, financial and technical information**

### **III.1) Conditions for participation**

#### **III.1.1) Suitability to pursue the professional activity, including requirements relating to enrolment on professional or trade registers**

List and brief description of conditions

Detailed timelines can be found in the programme call information on ARIA's website here. The application process for Technical Areas 1, 2 and 3 consists of two stages:

Submission of a concept paper - At this stage and based on your concept paper, you will either be encouraged/ discouraged to submit a full proposal. If you receive feedback indicating that you are not encouraged to submit a full proposal you can still choose to submit a full proposal. You should note that this preliminary assessment/encouragement provides no guarantee of any full proposal being selected for award of funding.

The deadline for submission of concept papers is 23 September 2024 (12:00 BST).

Submission of a full proposal - the deadline for submission of full proposals is 11 November 2024 (12:00 GMT).

The total funding value is the estimated budget available. We expect to fund multiple applicants.

Funding is anticipated to be award via both contracts and grants. For information on how we fund <https://www.aria.org.uk/faqs-funding/>

## **Section IV. Procedure**

### **IV.1) Description**

#### **IV.1.1) Type of procedure**

Competitive procedure with negotiation

#### **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.2.2) Time limit for receipt of tenders or requests to participate**

Date

11 November 2024

Local time

12:00pm

#### **IV.2.4) Languages in which tenders or requests to participate may be submitted**

English

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## **Section VI. Complementary information**

### **VI.1) Information about recurrence**

This is a recurrent procurement: No

### **VI.4) Procedures for review**

#### **VI.4.1) Review body**

Not Applicable, see the ARIA Act 2022

London

Country

United Kingdom