

Switzerland-Geneva: Data storage services

OJ S 38/2019 22/02/2019

Prior information notice**Services****Legal Basis:**

Directive 2014/24/EU

Section I: Contracting authority

I.1. Name and addresses

Official name: European Organization for Nuclear Research (CERN)

Postal address: Geneva 23

Town: Geneva

NUTS code: CH013 Genève

Postal code: 1211

Country: Switzerland

Contact person: Joshua Davison

E-mail: joshua.luke.davison@cern.ch

Telephone: +41 227664458

Internet address(es):Main address: www.cern.ch**I.1. Name and addresses**

Official name: Stiftung Deutsches Elektronen-Synchrotron (DESY)

Postal address: Notkestrasse 85

Town: Hamburg

NUTS code: DE600 Hamburg

Postal code: 22607

Country: Germany

Contact person: Prof Volker Guelzow

E-mail: volker.guelzow@desy.de**Internet address(es):**Main address: www.desy.de**I.1. Name and addresses**

Official name: European Molecular Biology Laboratory (EMBL)

Postal address: Meyerhofstrasse 1

Town: Heidelberg

NUTS code: DE125 Heidelberg, Stadtkreis

Postal code: 69117

Country: Germany

Contact person: Steven Newhouse

E-mail: steven.newhouse@ebi.ec.uk**Internet address(es):**Main address: www.embl.org**I.1. Name and addresses**

Official name: Instituto de Fisica de Altas Energias (IFAE-PIC)

Postal address: Campus de Bellaterra - Universidad A

Town: Cerdanyola del Valles
NUTS code: ES511 Barcelona
Postal code: 08193
Country: Spain
Contact person: Prof Manuel Delfino
E-mail: delfino@pic.es
Internet address(es):
Main address: www.ifae.es

I.2. Information about joint procurement

The contract involves joint procurement

In the case of joint procurement involving different countries, state applicable national procurement law:

This PIN concerns a Pre-Commercial Procurement (PCP). CERN is appointed as the lead contractor to lead and coordinate the procurement on behalf of the buyers group listed in I.1.

I.3. Communication

Additional information can be obtained from the abovementioned address

I.4. Type of the contracting authority

European institution/agency or international organisation

I.5. Main activity

Other activity: Nuclear Research

Section II: Object

II.1. Scope of the procurement

II.1.1. Title

Archiving and Preservation for Research Environments

II.1.2. Main CPV code

72317000 Data storage services

II.1.3. Type of contract

Services

II.1.4. Short description

This PIN is an early information notice for a PCP expected to be launched in September 2019, and the Open Market Consultation (OMC) organised in preparation of the procurement.

The Archiver Project — Archiving and Preservation for Research Environments — will perform R&D to develop data archiving and preservation cloud based services in a multi-disciplinary research environment complementing the current on-premise services. The innovative resulting services will leverage standard processes and best practices, whilst ensuring the research groups retain total ownership of their data. It will use the PCP instrument to competitively procure R&D services from several providers. Further information is available at the project website (<http://archiver-project.eu/>).

The OMC will be an open dialogue with potential tenderers and end-users about the intended R&D scope. It will identify interested providers and applications, and verify the innovation potential and feasibility of the project.

II.1.5.

Estimated total value

Value excluding VAT: 3 400 000,00 EUR

II.1.6. Information about lots

This contract is divided into lots: no

II.2. Description**II.2.2. Additional CPV code(s)**

48610000 Database systems, 73100000 Research and experimental development services, 72222300 Information technology services

II.2.3. Place of performance

NUTS code: 00 Other or Not Specified

Main site or place of performance: The majority of the research and development services done by a provider must be located in European Union Member States or Horizon 2020 associated countries.

II.2.4. Description of the procurement

The future PCP aims to competitively procure R&D services in support of the Archiver Project (<http://archiver-project.eu/>). R&D services contracts will be awarded to several providers carrying out development services in parallel. The tender for the PCP will be launched in September 2019 to select providers to sign a framework agreement with the contracting authorities covering up to 3 development phases: design, prototype and pilot. Framework contracts will be awarded on a best value for money basis. After each development phase, there will be an intermediate evaluation by the buyers group to select the best competing solution for the subsequent phase, also on a best value for money basis.

The PCP concept is based on a risk- and benefit-sharing approach between providers and public purchasers. As a consequence, the provider will retain ownership of the intellectual property rights on the results that it generates during the performance of the R&D services, and will be able to commercially exploit the results.

The innovative end-to-end archival and preservation services to be delivered in Archiver will tackle the following technical challenges:

- enabling effective Petabyte range data management in a hybrid model, combining the procurers on-premise infrastructure with commercial cloud services,
- optimizing data access and ingestion at very high rates (1-10 Gbps/day) for use cases in multiple scientific domains,
- enabling efficient data content distribution anticipating access profiles evolution as cloud access becomes popular and scientific data volumes grow,
- providing high-end network connectivity through GÉANT network and Federated AAI for authentication and access control,
- adopting an approach based on standard practices, compliant with the OAIS reference model and the relevant series of standards (ISO 14721),
- exploring a cost effective business model taking into account data access patterns and archive longevity.

The OMC process is intended to be evolutionary, comprising of several activities during the period April-June 2019 focusing on different user communities and stakeholders.

An OMC kick-off event on 8.4.2019 at CERN, Geneva, will target companies active in the areas of digital archiving and cloud computing that are potential future providers to the PCP. During the event, attendees will assess the technical feasibility, risks and value of the project through a dialogue moderated by the hosts based on best practice workshop techniques. Attendees will learn about the project's aims from a technical point of view, receive information

about the upcoming PCP process, participate in the scoping of the future PCP, and meet other supply-side actors in the domain of digital preservation and cloud services. Further information about the event is available at www.archiver-project.eu. Registration for the event is open at: <https://goo.gl/forms/gd5kiDsC1es77dpG2>.

The first OMC event will be followed by several initiatives to continuously gather feedback from the end user communities and potential providers. These include webinars targeting future user groups to gather information about the demand-side applications of the R&D, and publication of information gathered during the OMC. Further information including precise dates for webinars, links to online discussions, and mailing list registration will be made available at www.archiver-project.eu. Throughout the OMC, potential future providers and users are encouraged to contact the Archiver Project via email at omcinfo@archiver-project.eu. The results obtained through these activities will be presented at an OMC “wrap-up” event (location and date to be announced at the project website) and will serve as a basis of the tender specifications for the future PCP.

Participation in the OMC is open to all. The target audience for individual events and webinars may be different. Please consult the Archiver website for further details as events are announced.

II.2.14. Additional information

This PCP is exempted from Directives 2014/24/EU (or 2004/18/EC) and 2014/25/EU (or 2004/17/EC) and their implementing national laws.

This project receives funding from the European Union’s Horizon 2020 research and innovation programme.

The language of the OMC, including the language used at the kick-off event, will be English.

II.3. Estimated date of publication of contract notice

22/09/2019

Section IV: Procedure

IV.1. Description

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

The procurement is covered by the Government Procurement Agreement: no

Section VI: Complementary information

VI.3. Additional information

Companies can participate in the future PCP call for tender even if they do not participate in the OMC. All information gathered during the OMC will be published online in English prior to the call for tender.

During the PCP call for tender, offers will be accepted in English. All communication (before, during and after the procurement) will be carried out in English.

All information provided during the OMC and other background information will be published online in English.

VI.5. Date of dispatch of this notice

08/02/2019