

**France-Saint Aubin: Research and development services and related consultancy services****OJ S 105/2023 02/06/2023****Contract award notice****Services****Legal Basis:**

Directive 2014/24/EU

**Section I: Contracting authority**

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**I.1. Name and addresses**

Official name: SYNCHROTRON SOLEIL

National registration number: 439 684 903

Postal address: L'ORME DES MERISIERS

Town: SAINT AUBIN

NUTS code: FR104 Essonne

Postal code: 91190

Country: France

E-mail: [Superflat-PCP@synchrotron-soleil.fr](mailto:Superflat-PCP@synchrotron-soleil.fr)

Telephone: +33 169359509

**Internet address(es):**Main address: <https://leaps-superflat.eu>**I.1. Name and addresses**

Official name: Consorcio para la Construcción, Equipamiento y Explotación del Laboratorio de Luz Sincrotrón

National registration number: Q0801209H

Postal address: C/ Llum, 2-26

Town: Cerdanyola del Vallés

NUTS code: ES511 Barcelona

Postal code: 08290

Country: Spain

E-mail: [Superflat-PCP@synchrotron-soleil.fr](mailto:Superflat-PCP@synchrotron-soleil.fr)

Telephone: +33 169359509

**Internet address(es):**Main address: <https://leaps-superflat.eu>**I.1. Name and addresses**

Official name: Deutsches Elektronen-Synchrotron DESY

National registration number: DE118714904

Postal address: Notkestraße 85

Town: Hamburg

NUTS code: DE600 Hamburg

Postal code: 22607

Country: Germany

E-mail: [Superflat-PCP@synchrotron-soleil.fr](mailto:Superflat-PCP@synchrotron-soleil.fr)

Telephone: +33 169359509

**Internet address(es):**Main address: <https://leaps-superflat.eu>

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

Official name: Diamond Light Source Ltd

Postal address: Diamond House, Harwell Science and Innovation Campus

Town: Didcot

NUTS code: UK United Kingdom

Postal code: OX11 0DE

Country: United Kingdom

E-mail: [Superflat-PCP@synchrotron-soleil.fr](mailto:Superflat-PCP@synchrotron-soleil.fr)

Telephone: +33 169359509

**Internet address(es):**

Main address: <https://leaps-superflat.eu>

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

Official name: European Synchrotron Radiation Facility

Postal address: 71 rue des Martyrs - BP 220

Town: Grenoble

NUTS code: FRK24 Isère

Postal code: 38043

Country: France

E-mail: [Superflat-PCP@synchrotron-soleil.fr](mailto:Superflat-PCP@synchrotron-soleil.fr)

Telephone: +33 169359509

**Internet address(es):**

Main address: <https://leaps-superflat.eu>

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

Official name: European X-Ray Free-ElectronLaser Facility GmbH

Postal address: Holzkoppel 4

Town: Schenefeld

NUTS code: DEF09 Pinneberg

Postal code: 22869

Country: Germany

E-mail: [Superflat-PCP@synchrotron-soleil.fr](mailto:Superflat-PCP@synchrotron-soleil.fr)

Telephone: +33 169359509

**Internet address(es):**

Main address: <https://leaps-superflat.eu>

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

Official name: Helmholtz-Zentrum Berlin für Materialien und Energie GmbH (HZB)

Postal address: Hahn-Meitner-Platz 1

Town: Berlin

NUTS code: DE300 Berlin

Postal code: 14109

Country: Germany

E-mail: [Superflat-PCP@synchrotron-soleil.fr](mailto:Superflat-PCP@synchrotron-soleil.fr)

Telephone: +33 169359509

**Internet address(es):**

Main address: <https://leaps-superflat.eu>

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

Official name: Paul Scherrer Institut

Postal address: Forschungsstrasse

Town: Villigen  
NUTS code: CH0 Schweiz/Suisse/Svizzera  
Postal code: 5232  
Country: Switzerland  
E-mail: [Superflat-PCP@synchrotron-soleil.fr](mailto:Superflat-PCP@synchrotron-soleil.fr)  
Telephone: +33 169359509  
**Internet address(es):**  
Main address: <https://leaps-superflat.eu>

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

Official name: Lunds universitet  
National registration number: 202100-3211  
Postal address: Box 117  
Town: Lund  
NUTS code: SE224 Skåne län  
Postal code: 221 00  
Country: Sweden  
E-mail: [Superflat-PCP@synchrotron-soleil.fr](mailto:Superflat-PCP@synchrotron-soleil.fr)  
Telephone: +33 169359509  
**Internet address(es):**  
Main address: <https://leaps-superflat.eu>

#### **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:  
The applicable national procurement law is French law and specific requirements for PCP supported by Horizon 2020 grants. This PCP is carried out by Synchrotron SOLEIL appointed as lead procurer.

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

Body governed by public law

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

Other activity: Research

## **Section II: Object**

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

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

SUPERFLAT PCP Process development for manufacture of flat X-ray mirrors  
Reference number: LEAPS SUPERFLAT 2021

#### **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**

This contract award notice informs interested operators about the outcome of Phase 3 of a pre-commercial procurement (PCP) that aims to trigger new solutions to be developed and tested

to address the following challenge: manufacturing 500 mm long flat silicon X-ray prototype mirrors with < 50 nanoradians rms slope and < 1 nm p.v. figure errors.

This PCP procurement is a joint procurement by different procurers across Europe.

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

This contract is divided into lots: no

#### **II.1.7. Total value of the procurement**

Value excluding VAT: 600 000,00 EUR

### **II.2. Description**

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

NUTS code: FR104 Essonne

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

The procurement takes the form of a pre-commercial procurement (PCP). The PCP will award R&D services contracts to a number of R&D providers in parallel to compare competing alternative solutions. This will be done in a phased approach with a framework agreement that covers 3 R&D phases (conceptual design, technical design and metrology validation, development of a manufacturing process & prototyping ) with intermediate evaluations after each phase that will progressively select the best competing solutions that will be offered a specific contract for the next phase. Testing of the prototypes is expected to take place at one of the buyer's premises by experts and end-users and in this way the PCP will provide a first customer test reference to participating R&D providers.

This PCP will develop flat X-ray mirrors with clear apertures in excess of 500 mm long and 20 mm wide; slope and figure errors below 50 nanoradians rms and 1 nm p.v. respectively, and with roughness below 0.3 nm rms. The objective is to improve the quality of X-ray mirrors in response to the evolving needs of accelerator-based X-ray light sources.

The initiative is driven in particular by the construction and upgrade of many European user facilities to provide ultra-low emittance X-ray beams for scientists and engineers working in applications addressing many of the global challenges targeted by the Horizon Europe program of the European Commission. To harness their full potential, these facilities require reflective optics of unprecedented quality. The technical challenges include the implementation of reliable and repeatable surface processing tools coupled with accurate metrology. The final result of the PCP will be a prototype mirror produced by each tenderer with a demonstrably controlled manufacturing process. Apart from the direct benefits to the European light sources, the results of this PCP will also act to enhance European industrial competitiveness in this domain.

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

Quality criterion - Name: Technical quality / Weighting: 70

Price - Weighting: 30

#### **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: Grant agreement No No101004728 – LEAPS-INNOVThe EU has awarded a grant for this procurement under the European Union's Horizon 2020 Research and Innovation, but is not participating as a contracting authority in the procurement.

#### **II.2.14. Additional information**

This procurement is exempted from the EU public procurement directives and the national laws that implement them.

### **Section IV: Procedure**

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

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

Open procedure

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

The procurement involves the establishment of a framework agreement

##### **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 015-034343](#)

##### **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**

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**Contract No:** 1

**Title:**

SUPERFLAT PCP Specific contract for Phase 3

A contract/lot is awarded: yes

#### **V.2. Award of contract**

##### **V.2.1. Date of conclusion of the contract**

30/05/2023

##### **V.2.2. Information about tenders**

Number of tenders received: 2

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

##### **V.2.3. Name and address of the contractor**

Official name: THALES SESO SAS

National registration number: 399 064 963

Postal address: 530 rue Frédéric Joliot

Town: Aix-en-Provence

NUTS code: FRL04 Bouches-du-Rhône

Postal code: 13593

Country: France

The contractor is an SME: no

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

Total value of the contract/lot: 300 000,00 EUR

**V.2.5. Information about subcontracting****Section V: Award of contract**

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**Contract No:** 2

**Title:**

SUPERFLAT PCP Specific contract for Phase 3

A contract/lot is awarded: yes

**V.2. Award of contract****V.2.1. Date of conclusion of the contract**

30/05/2023

**V.2.2. Information about tenders**

Number of tenders received: 2

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

**V.2.3. Name and address of the contractor**

Official name: BERTIN WINLIGHT

National registration number: 440 304 202

Postal address: 135 rue Benjamin Franklin , ZA Saint Martin

Town: Pertuis

NUTS code: FRL06 Vaucluse

Postal code: 84120

Country: France

The contractor is an SME: no

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

Total value of the contract/lot: 300 000,00 EUR

**V.2.5. Information about subcontracting****Section VI: Complementary information**

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**VI.3. Additional information****VI.4. Procedures for review****VI.4.1. Review body**

Official name: Tribunal d'Instance d'Evry

Town: EVRY

Country: France

**VI.5. Date of dispatch of this notice**

30/05/2023