

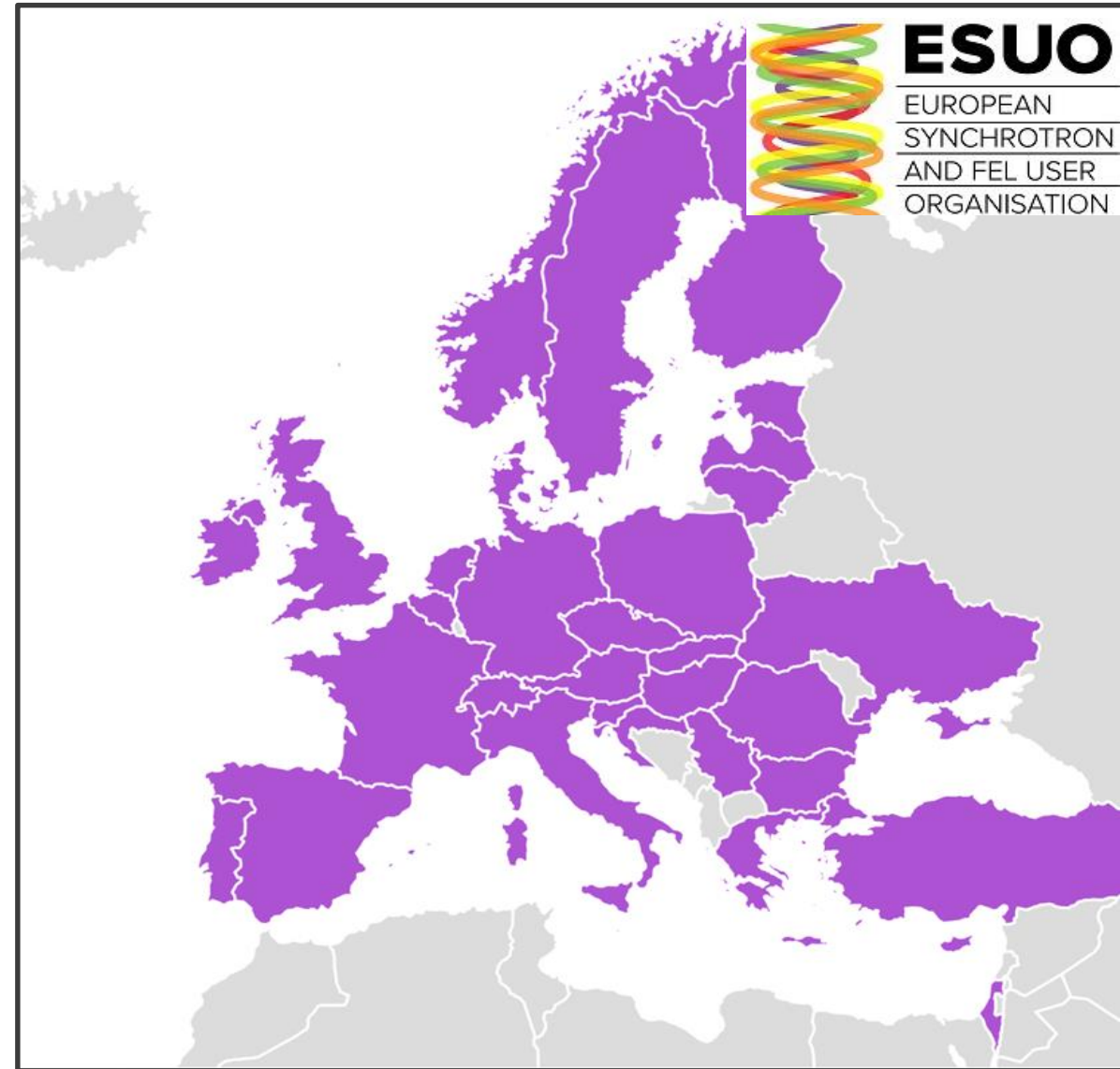


# The European Synchrotron and Free Electron Laser User Organisation (ESUO)

**Wojciech Gawelda (National Delegate ES)**

*Universidad Autónoma de Madrid*

On behalf of ESUO Executive Board



**XI AUSE Conference**  
**VI ALBA Users Meeting**

**Oviedo**  
**2 – 6 September 2024**



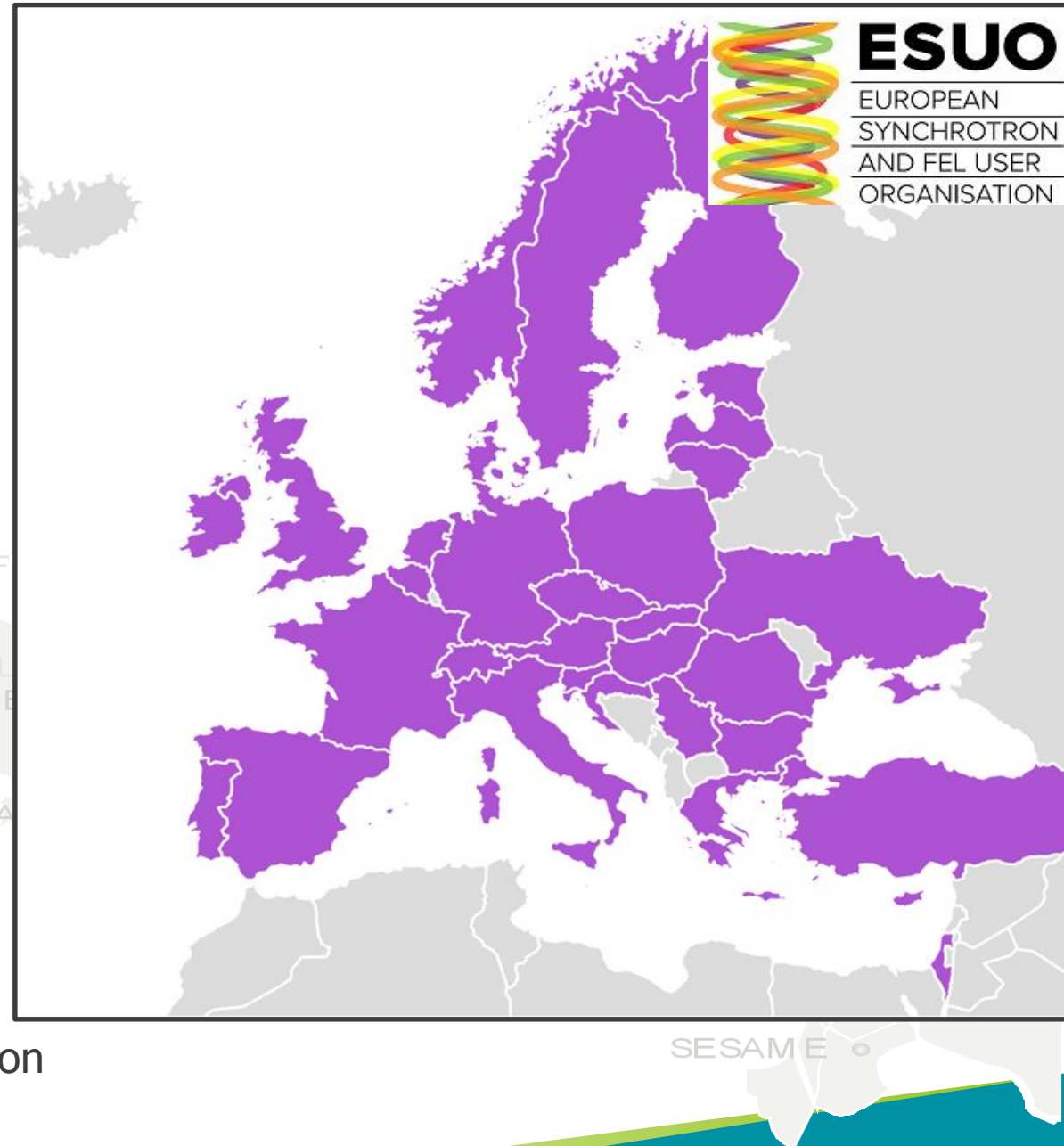


# What is ESUO?

- ESUO was established in 2010 to represent all European photon science users  
[U. Pietsch, M. J. Cooper, *J. Synchrotron Radiation* **17**, 428-429 (2010)]
- Today, ESUO represents ~30,000 users of the European synchrotron (SR) and Free-Electron Laser (FEL) facilities.
- **Users of 32 nations** from European member states, EU candidate and associated countries are represented by ESUO national delegates.
- ESUO supports establishment of National User Organizations (NUOs).
- Multiple delegates to ESUO from nations with large user communities and/or multiple facilities and Facility User Organisations (FUOs), giving 50+ delegates.
- ESUO is a fully registered non-profit international organization (**AISBL**) under Belgian law since September 2021.



**ESUO**  
EUROPEAN  
SYNCHROTRON  
AND FEL USER  
ORGANISATION





# ESUO Executive Board



Executive Board of 8 is elected from the national delegates with rules for national diversity, SR/FEL representation, and gender.

## President and Executive board

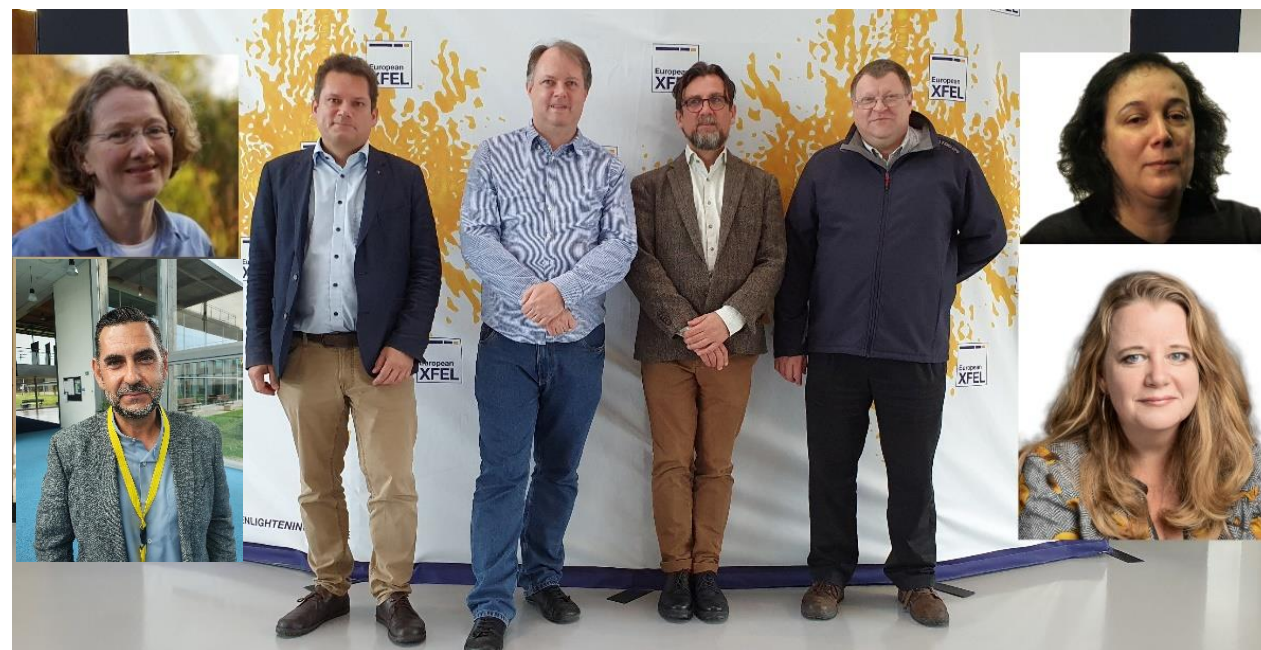
ESUO President: **Cormac McGuinness (IE)**

[Trinity College Dublin]

ESUO Vice President: **Bridget Murphy (DE)**

[Kiel University, Germany]

- **Carla Bittencourt (BE)** [University of Mons] ([Treasurer](#))
- **Derek Logan (SE)** [University of Lund] ([Secretary](#))
- **Tom Hase (UK)** [University of Warwick]
- **Rainer Lechner (AT)** [Montanuniversität Leoben]
- **Moniek Tromp (NL)** [University of Groningen]
- **Wojciech Gawelda** [Universidad Autonoma de Madrid]



**ESUO is a strategic partner of LEAPS since the beginning of 2021.**

ESUO receives administration support from LEAPS, & support for hosting of ESUO General Assembly meetings.

<https://www.esuo.eu/>



[@ESUO11](#)



[Linkedin](#)



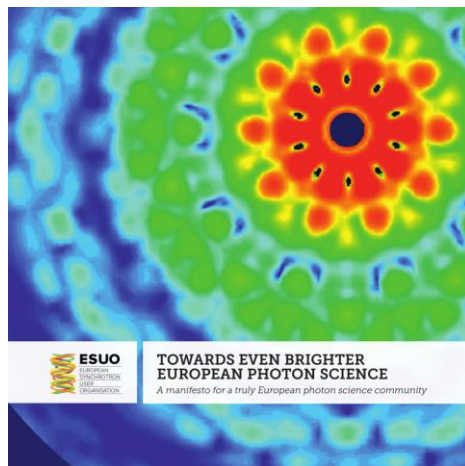


# ESUO: Vision and Missions

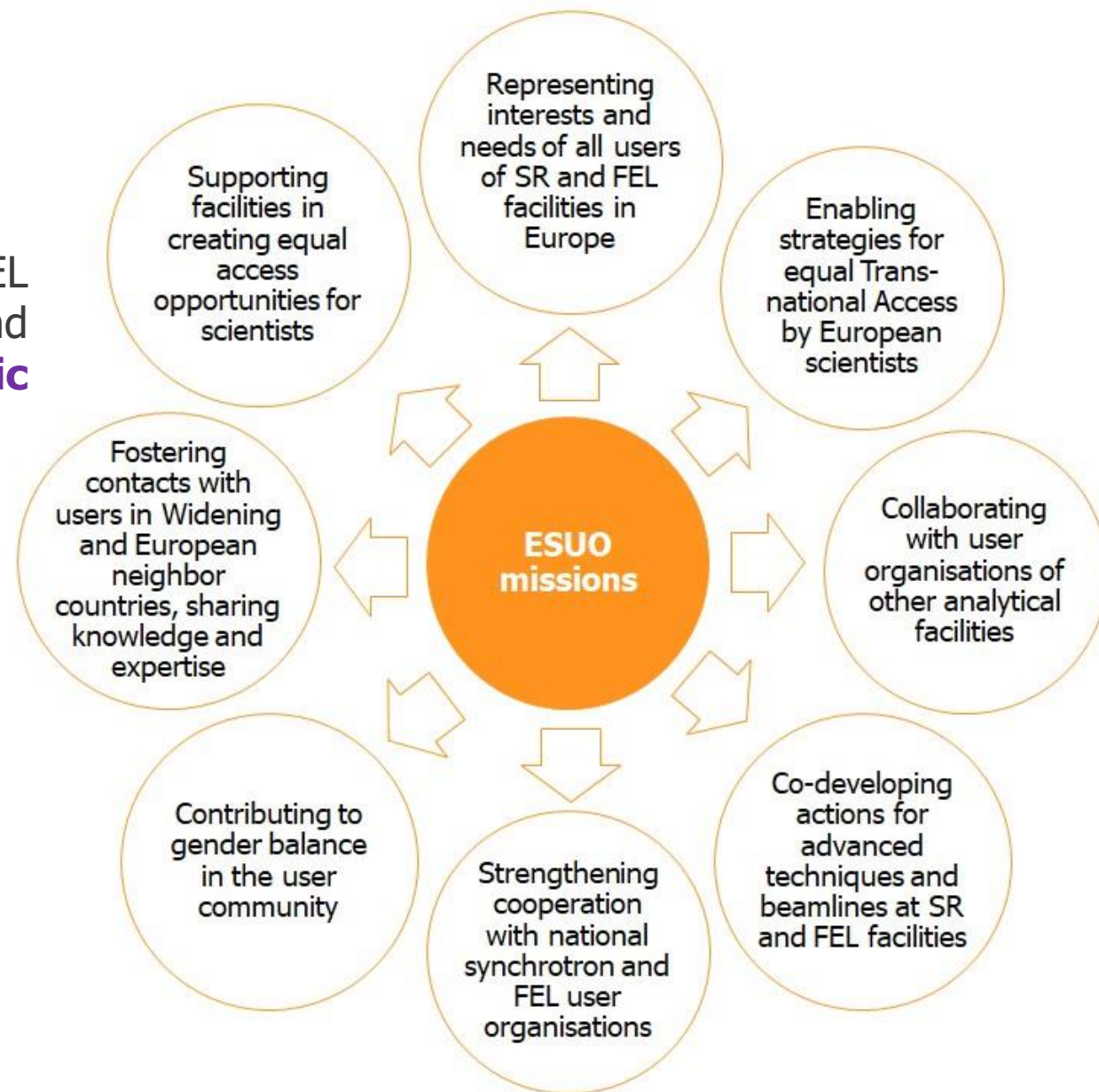
## ESUO vision

Is to support a thriving (European) synchrotron and FEL user community with **equal opportunities of access** and participation for all scientists based solely on the **scientific merit** of their ideas

- Promote Trans-national Access (TNA) to European light sources and European Commission
- Lobbying to support elimination of geographic or financial barriers in user participation, with as simple an access model as practicable.
- Our manifesto "Towards Even Brighter European Photon Science" from **2014**. \*\*



\*\* ESUO [website](#),  
and Barrier et al, [J. Synchrotron Rad. \(2014\). 21, 638-639](#)





# ESUO Activities, Meeting, Publications and Special Interest Groups



- **Meetings:** 19<sup>th</sup> ESUO GA, November 2023, SLS, PSI, Switzerland;
- Joint meeting of ESUO, European Neutron Scattering Association (ENSA) and DAPHNE4NFDI consortium on FAIR and Open Data principles and practices, November 2023 @PSI.
- **20<sup>th</sup> ESUO GA, 3<sup>rd</sup>-4<sup>th</sup> December 2024, SOLARIS, Poland.**
- Participation in ESFRI Stakeholders Forum, September 2023; and Belgian Presidency conference on Research Infrastructures, Brussels, June 2024; ESFRI Roadmap InfoDay, October 2024.
- Continued promotion of Trans-national Access (TNA) activities – **resulting in NEPHEWS** – the current Horizon Europe project.
- Conducted User Survey on impact of absence of TNA.
- Supporting the policy activities of National User Organisations and the establishment of new National User Organisations
- New National User Organisations in recent years: Netherlands (DUBBLE), Romania, Greece (GrSUN) and Ukraine (USynC)



# ESUO Activities, Meeting, Publications and Special Interest Groups

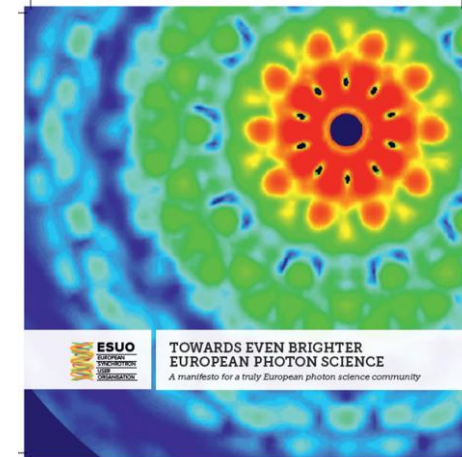


## Dissemination Activities

- **ESUO/ENSA/DAPHNE4NFDI** paper on “FAIR Data – The Photon and Neutron communities move together towards Open Science”. *(in press)*
- Promotion of ESUO objectives and the importance of Trans-national Access to European light sources via ESUO brochure<sup>1,2</sup>, participation in scientific events on national and international level (e.g. at synchrotron & FEL user meetings and conferences)
- Letter of concern, e.g. J. Synchrotron Radiation<sup>3</sup>

### ESUO Special Interest Groups on:

- **Business, Industry and Intermediary companies**
- **Education and Outreach** – *both starting September 2024*



[1] ESUO public brochure “**Towards even brighter European Photon Science: A manifesto for a truly European photon science community**” (2014)

[2] C. Blasetti *et al.*, *Synchrotron Radiation News* **32**, 35-36 (2019)

[3] U. Pietsch *et. al.*, *J. Synchrotron Radiation* **21**, 638-639 (2014)



# ESUO collaboration with the League of European Accelerator-based Photon Sources



## ESUO activities within LEAPS

- ESUO has been a strategic partner of LEAPS
- ESUO delegates sit on LEAPS Strategy Group 1: Synchrotrons; SG2: Free Electron Lasers, and the Research & Development Board (RDB).
- ESUO delegates participate in LEAPS Workgroups, e.g. User Services (WG5) and on Education, Training and Outreach (WG6).
- ESUO has been a partner in several Horizon Europe proposals.
- ESUO contributed to the LEAPS European Strategy on Accelerator based Photon Sources (ESAPS 2022) and supported LEAPS at the strategy launch in Brussels in May 2022.
- ESUO supported LEAPS at the LEAPS meets the European Parliament meeting in Strasbourg, November 2023.



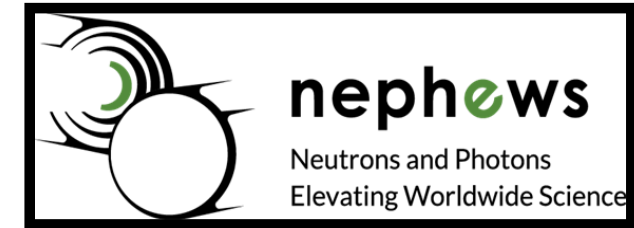


# ESUO and NEPHEWS: new TNA project funded by the EU



**NEPHEWS** – visit [www.beamtime.eu](http://www.beamtime.eu)

ESUO helped develop **Neutrons and Photons Elevating Worldwide Science**, a €6.8M Horizon Europe Co-Fund project providing TNA access to 14 neutron and photon RIs. [1/2024-12/2026]. **23 partners, 18 infrastructures.**



- **TNA** to 14 PaN RI;
- **User-Twinning;**
- **Early-Stage Researchers support;**
- **Virtual training;**
- **Community-building support** for eight targeted Widening countries & countries without RI incl. **Ukraine;**
- Specific initiatives to build **African** photon and neutron science;


Objective of ESUO, with ENSA and through the TCD partner within NEPHEWS is to provide for a transformation for user communities via policy white papers.







# Contact ESUO & Spanish ESUO delegates

- [www.esuo.eu](http://www.esuo.eu) and [esuo.sr.fels@gmail.com](mailto:esuo.sr.fels@gmail.com), @ESUO11 
- ESUO President at: [Cormac.McGuinness@tcd.ie](mailto:Cormac.McGuinness@tcd.ie)
- ESUO @LinkedIn (<https://www.linkedin.com/company/esuo>)
- <https://www.esuo.eu/user-representation/user-delegates-representatives/> or use provided QR code ⇒ ⇒



## Spain



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Institute of Materials Science of Barcelona





# Acknowledgements



- ESUO was founded in the framework of the project ELISA, took up its work in the project CALIPSO, both funded from the 7<sup>th</sup> Framework Program of the EU under the Grant Agreement 226716 and 312284 respectively;
- After the post-CALIPSO bridging agreement ESUO expanded its activities with the support of CALIPSOplus funded from the EU Framework Programme for Research and Innovation HORIZON 2020 under the Grant Agreement 730872;
- It is now an international non-profit organization (AISBL) registered in Belgium. LEAPS provided administrative support to ESUO through 2022-2023 and support for General Assembly meetings.

