ELI ERIC Call for Users

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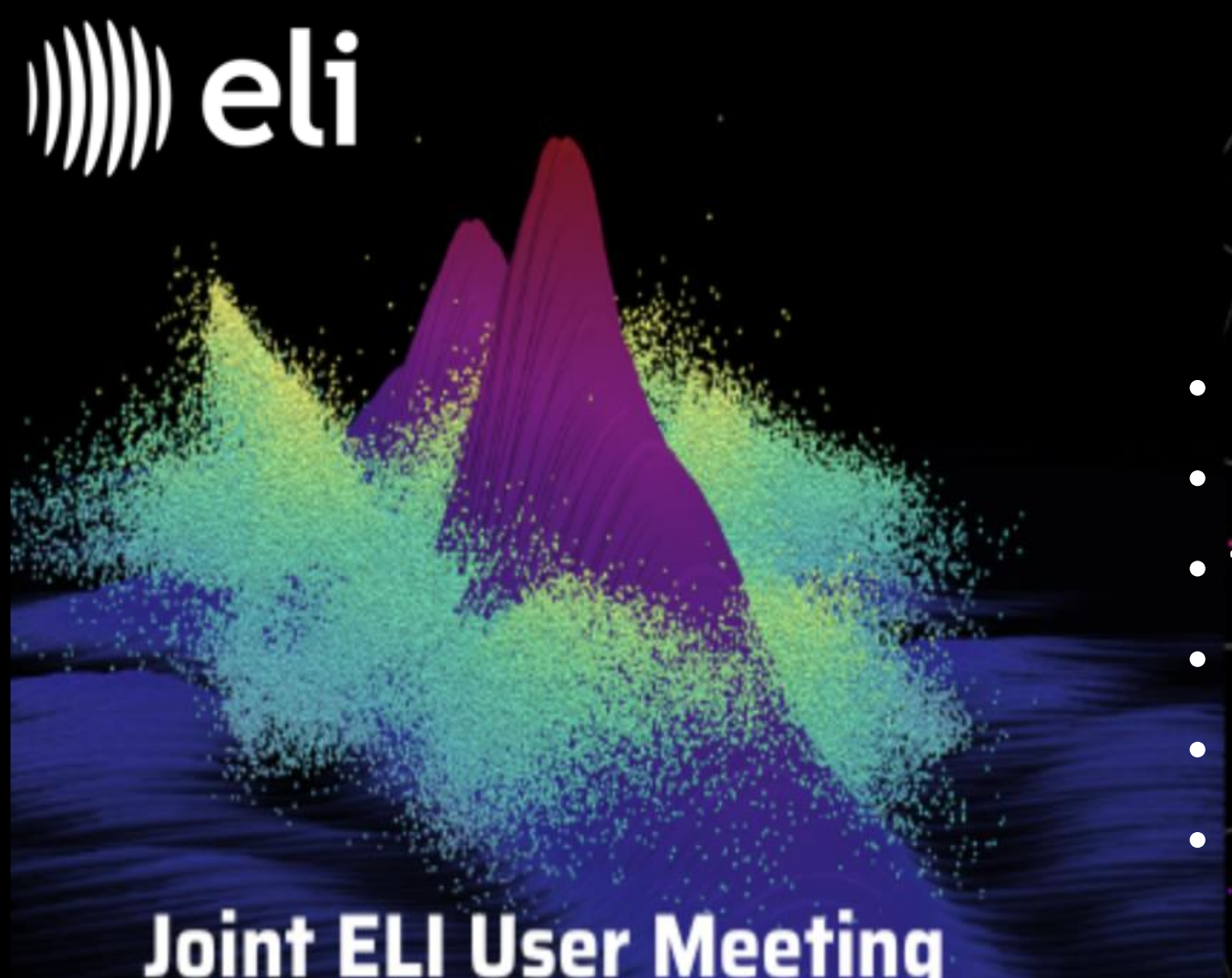
ELI ERIC Executive Director

Joint ELI User Meeting

3 November 2022



Outline

- Insights on 1st call
- Proposal management at ELI
- Terms of Access
- User Portal
- Submitting a Proposal
- User Office

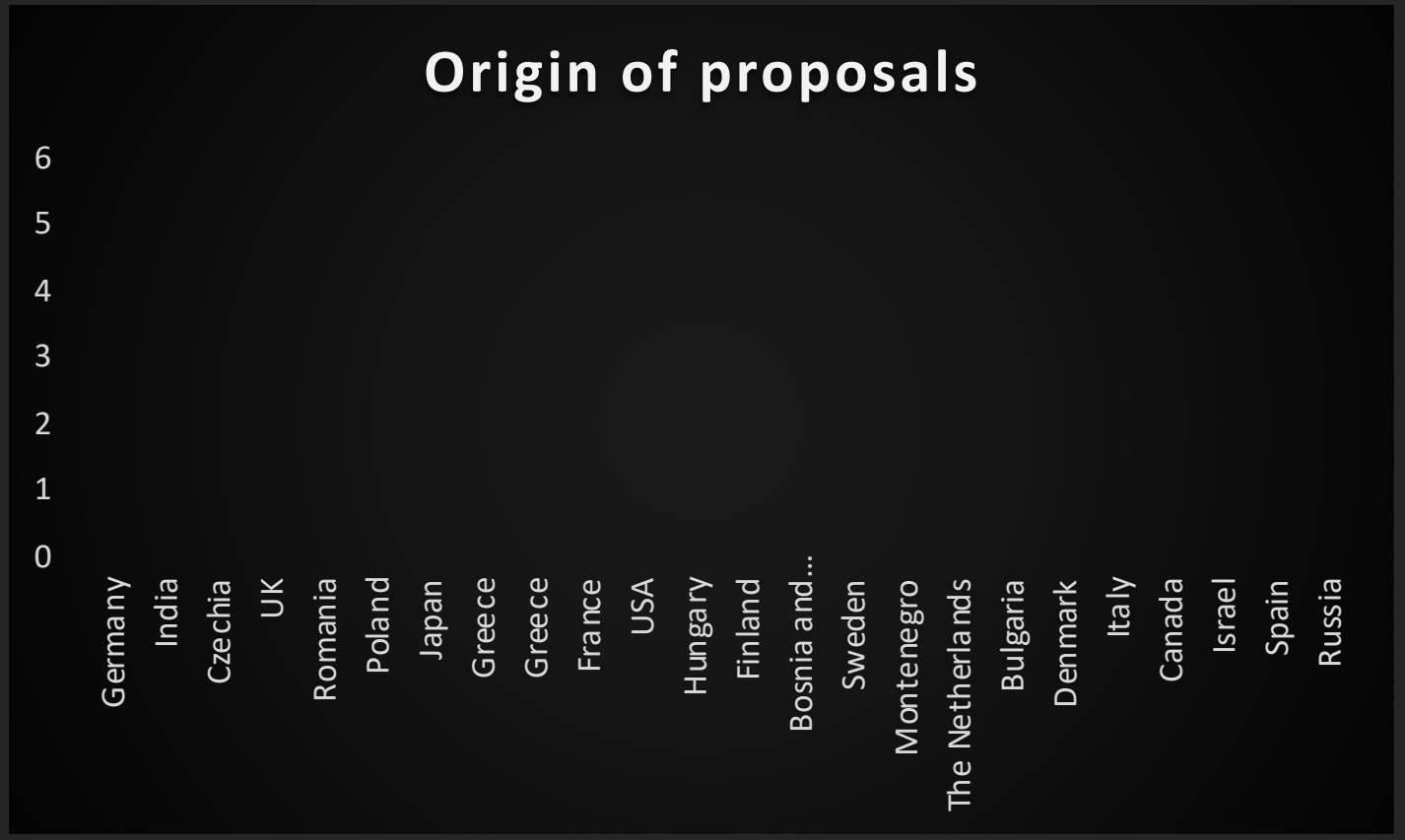
ELI ERIC is Open to the World

A user facility with three access modes

- **Excellence-Based Access** – Evaluation of proposals by international peer-review panels. ***Results of experiments published and open.***
- **Mission-Based Access** – Thematic research granted on the basis of scientific missions pursuing challenges. Proposals reviewed by international panels. ***Results published and open.***
- **Proprietary Access** – Paid access for industrial or other users. ***Results are retained by the user,*** consistent with ELI ERIC's Data and IPR Policy.

1st ELI Call

- 44 proposals accepted and evaluated
- 10 beamlines/sources
- Results being communicated to users these days
- Experiments to be run from November 2022 through April 2023



Proposal Review

1 **Submission**:

- Proposals for Experiments to be submitted solely via the **ELI ERIC User Portal** by the **Principal Investigator** on behalf of the Experimental Team
- Subject to acceptance of the **Terms and Conditions** for Access and GDPR Information Notice.

2 **Feasibility Assessment:**

- Proposals immediately assessed by authorised ELI Staff to confirm their technical and safety feasibility.
- **Users are strongly encouraged to contact the ELI Staff indicated as contact persons for each instrument ahead of submission to assess feasibility.**

3 **Peer-review:** the scientific merit of Proposals is assessed by the ELI Programme Advisory Committee (PAC), which consists of independent scientific experts. The PAC provides advice to the ELI management by assigning a score and a rank to the Proposals.

ELI ERIC Programme Advisory Committee

AMO science, HHG source development and Chemistry in the gas phase

Heide Ibrahim (CA)
Matteo Lucchini (IT)
Holger Stiel (DE)
Amelle Zair (UK)

Physical Chemistry, Chemical Physics

Majed Chergui (CH)
Jakub Szlachetko (PL)
Emilie Wientjes (NL)

Surface / materials science

Tzveta Apostolova (BG)
Michael Bauer (DE)
Philippe Delaporte (FR)
Adam Dubroka (CZ)
Rüdiger Grund Schmidt (DE)
Benjamin Stadmüller (DE)
Christoph Lienau (DE)

Life sciences

Ioannis Zacharakis (GR)
Irene Athanasaki (GR)
Romain Peretti (FR)

ELI-NP Programme Advisory Committee

Peter Thirolf (Chair), Technische Universität München

Leonida Gizzi, Istituto Nazionale di Ottica - CNR-INO Pisa

Karl Krushelnick, CUOS - University of Michigan

Paul McKenna, University of Strathclyde, Glasgow

Akifumi Yogo, ILE, Osaka University

Victor Malka, Weizmann Institute of Science

Antonino di Piazza, Max-Planck Institut für Kernphysik

ELI ERIC Scoring criteria

- **Outstanding (1)**
  - research is highly original and will significantly influence the development of the field and/or have major societal benefit.
  - The experimental and data analysis plans are very well described and give confidence in the ability of the team to address the scientific question
  - risks of failure are discussed
  - Team is strong and has the appropriate expertise

- **Excellent (2)**
  - research will influence the development of the field and/or have societal benefit.
  - Should be awarded access of available
  - The experimental and data analysis plans are adequately described

- **Good (3)**
  - The research is worthwhile, and may be deserving of beamtime if available.
  - There may be some weaknesses in the experimental or data analysis plans.

- **Weak (4)**
  - The research is of questionable value
  - The experimental and data analysis plans are badly presented or weak
  - Should be given a low priority to receive peer-reviewed beamtime

- **Poor (5)**
  - The research has no merit.
  - The experimental and data analysis plans are not described
  - Proposal eliminated

Scheduling, Preparation and Experiments

- Final approval of proposals by ELI ERIC Director General / ELI-NP Director based on assessment of Peer Review Panel
- Scheduling and preparations managed and coordinated by Facilities, instrument scientist and local user offices
- Training supported by joint online training system

Post-Experiment Phase

- Experiment Report
- Satisfaction survey and Quality assessment
- Data processing and access
- Publication tracking

Terms of Access

- **Excellence-Based Access mode**, Access is granted **free of charge** following competitive evaluation of the excellence and scientific merit of Experiment Proposals by ELI Programme Advisory Committee and assessment of their technical and safety feasibility.
- The **Programme Advisory Committee** consists of independent experts appointed by ELI responsible for evaluating the excellence and scientific merit of the Proposals and for providing advice on the Proposals that should be awarded Access to the ELI Facilities.
- **Results** of Experiments performed as part of this Access process should be published and made open.

Terms of Access

Intellectual Property:

- ELI ERIC, the ELI Facilities and User / User Institution remain the owners of their respective **Background IP**, which may include work created prior to the Proposal. Background IP may also include registered IP rights, specific know-how, software and existing data. The Parties shall not have any rights to the Background IP of the other Party.
- Each Party will solely own the **Foreground** generated during the implementation of the Experiment by its own personnel and/or researchers (Users or ELI Staff), without using the resources of the other Party, regardless of the place of the research and development activity.
- All Foreground arising from a joint activity and/or by the personnel of both Parties, shall be jointly owned as Joint IP (Joint Ownership Agreement).

Data Management:

- **Data Management Plan** for each experiment defining the conditions under which scientific data will be acquired, curated, processed, preserved and made available to Users
- **Embargo period of 3 years** after which ELI will preserve and make datasets publicly accessible
- Commitment to make **data as FAIR as possible**.

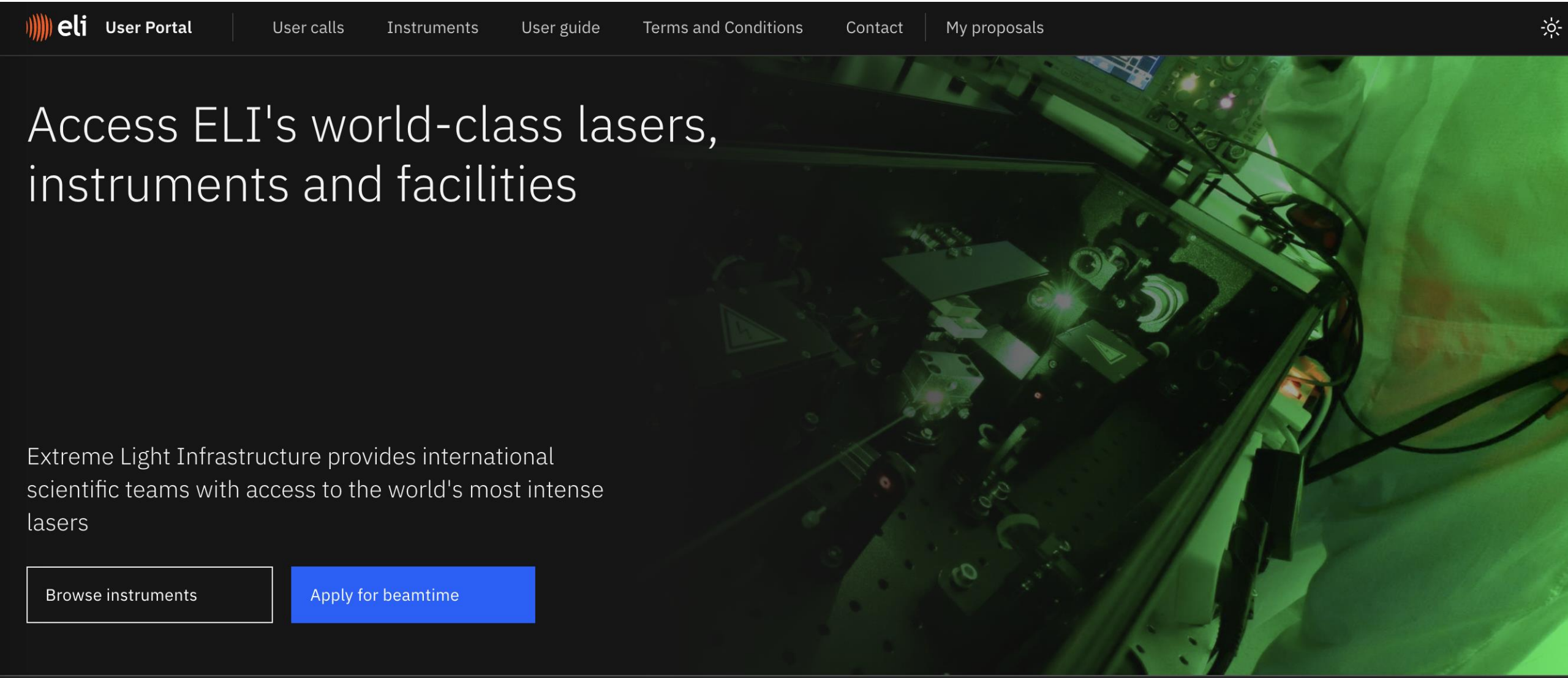
Terms of Access

Publication Requirements:

- **Publish** the results derived from their Experiment via **open access** with a strong recommendation for gold open access and cover the costs of publication, if any
- Give **appropriate credit** to the members of the ELI Staff at least in the form of an acknowledgment or, if so agreed with the ELI Facilities, in the form of co-authorship when the ELI Staff significantly contributed to their research
- Give **appropriate credit to ELI ERIC (or ELI-NP** for Experiments at ELI-NP) and, where available, cite the DOI of the instrument used to obtain the results
- **Provide information** without undue delay to ELI ERIC (or ELI-NP for Experiments at ELI-NP) on the publication, including the complete reference and the abstract of all papers appearing in print, and resulting from the use of ELI's instruments and expertise for inclusion into the publications' databases maintained by ELI ERIC and ELI-NP
- **Acknowledge the financial support** of the IMPULSE project for Experiments financed wholly or partially by IMPULSE, by including appropriate reference in the acknowledgements of the publication.

User Portal

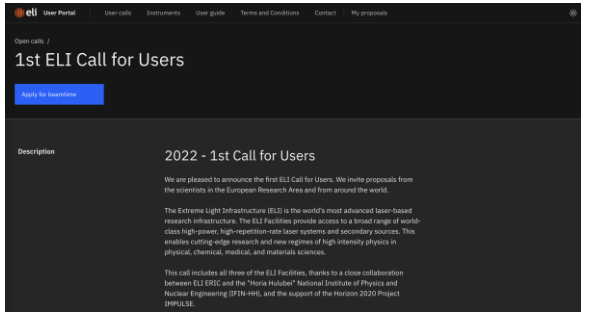
https://up.eli-laser.eu/



User Portal

Overview

- General information on open and previous calls
  - List of instruments available for access
  - Beamtime availability
  - Submission deadlines



- For each instrument, you will find basic information on:
  - Available set up (including schematics table of performances) and experimental geometries
  - Available target systems
  - Available metrology / detection and observation systems
  - Responsible contact person
- Supporting labs / workshops

User Portal
Overview

- Other pages
  - User guide
  - User office contacts
  - General Terms and Conditions for Access + data privacy notice
  - My proposals
  - News

Submission Process

- Before submitting a proposal, a user has to **create an account** on the ELI ERIC User Portal registration page. Access to the User Portal is granted once the account is set up following the instructions in the confirmation email.

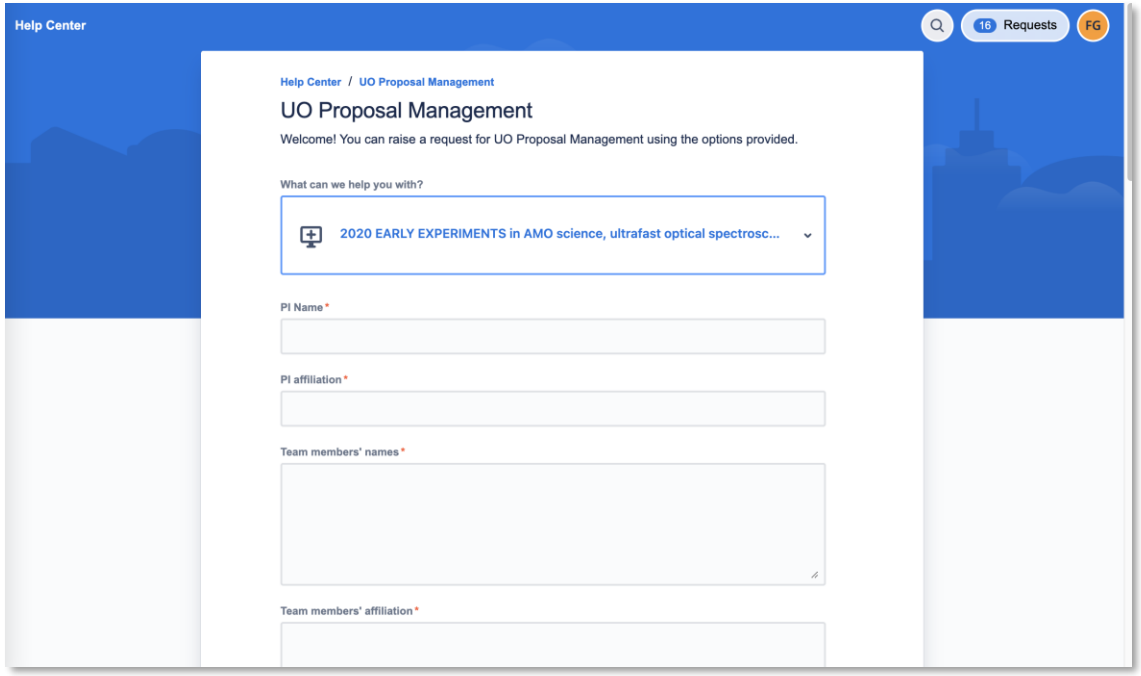
- The Principal Investigator (PI) **submitting a proposal** shall fill in the Proposal template, describing the scientific and technical content of the proposed experiment and upload it as part of the proposal.

- Before submitting the proposal, the PI shall **accept the Terms and Conditions and GDPR Information Notice** and confirm that those have been shared with the other team members on behalf of which the proposal is made.

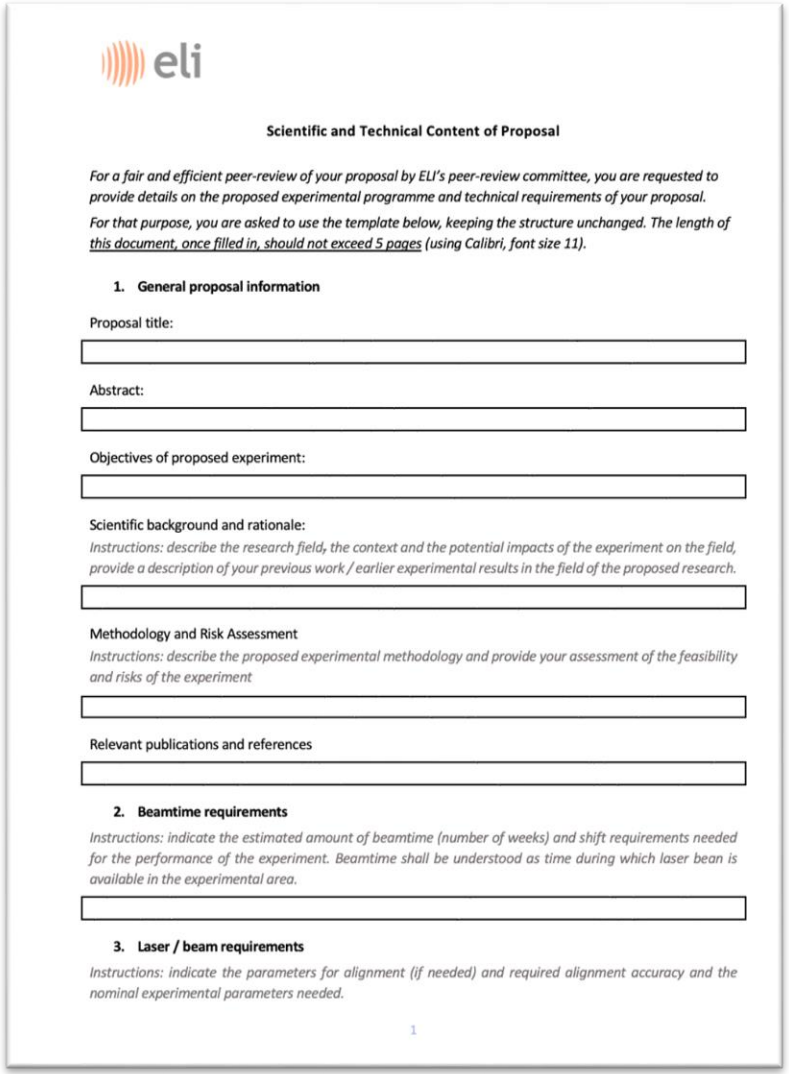
Proposal Submission

Proposal requirements

- Personal information
- Scientific and Technical content
  - Experiment information
  - Laser / beam requirements
  - Facility requirements
  - Diagnostics
  - Target specifications
- Other questions
  - Safety requirements
  - Remote access
  - Ethical aspects



Proposal Template



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Scientific and Technical Content of Proposal

For a fair and efficient peer-review of your proposal by ELI's peer-review committee, you are requested to provide details on the proposed experimental programme and technical requirements of your proposal.

For that purpose, you are asked to use the template below, keeping the structure unchanged. The length of this document, once filled in, should not exceed 5 pages (using Calibri, font size 11).

1. General proposal information

Proposal title:

Abstract:

Objectives of proposed experiment:

Scientific background and rationale:

Instructions: describe the research field, the context and the potential impacts of the experiment on the field, provide a description of your previous work / earlier experimental results in the field of the proposed research.

Methodology and Risk Assessment

Instructions: describe the proposed experimental methodology and provide your assessment of the feasibility and risks of the experiment

Relevant publications and references

2. Beamtime requirements

Instructions: indicate the estimated amount of beamtime (number of weeks) and shift requirements needed for the performance of the experiment. Beamtime shall be understood as time during which laser bean is available in the experimental area.

3. Laser / beam requirements

Instructions: indicate the parameters for alignment (if needed) and required alignment accuracy and the nominal experimental parameters needed.

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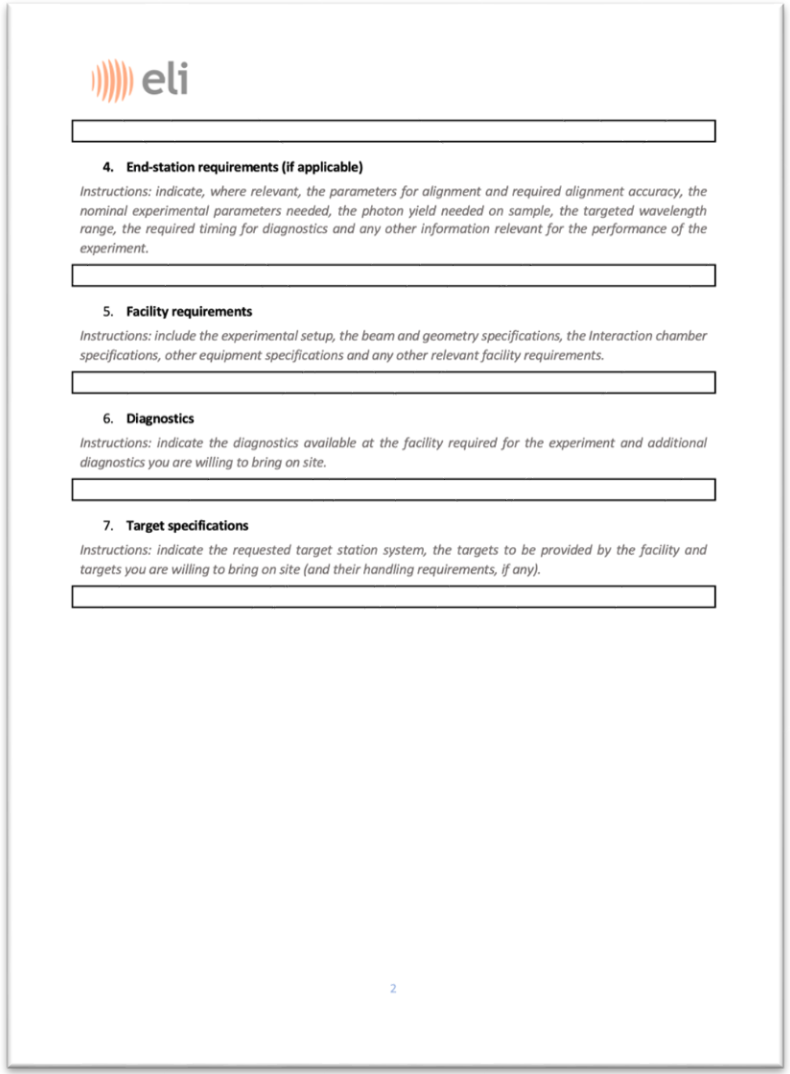

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4. End-station requirements (if applicable)

Instructions: indicate, where relevant, the parameters for alignment and required alignment accuracy, the nominal experimental parameters needed, the photon yield needed on sample, the targeted wavelength range, the required timing for diagnostics and any other information relevant for the performance of the experiment.

5. Facility requirements

Instructions: include the experimental setup, the beam and geometry specifications, the Interaction chamber specifications, other equipment specifications and any other relevant facility requirements.

6. Diagnostics

Instructions: indicate the diagnostics available at the facility required for the experiment and additional diagnostics you are willing to bring on site.

7. Target specifications

Instructions: indicate the requested target station system, the targets to be provided by the facility and targets you are willing to bring on site (and their handling requirements, if any).

2

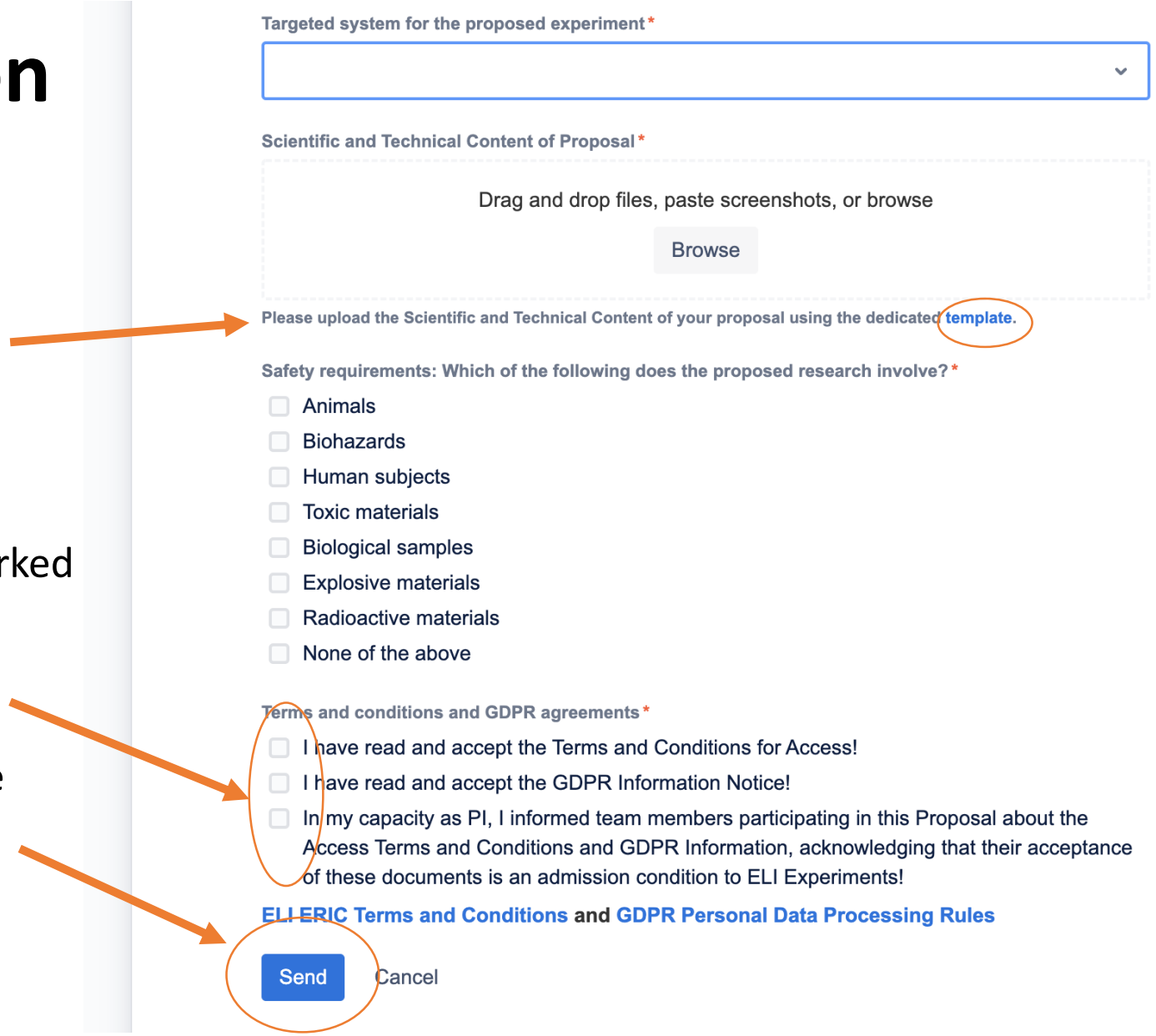
Proposal Preparation

Step 1 – Scientific Proposal Template

- Download and fill the proposal template
- Upload once ready

Step 2 – Online form

- Please check all mandatory sections, marked with "*"
- Acknowledge Terms and Conditions
- And Data Processing Rules
- Save the proposal (this stage is saving the proposal)
- The proposal can be still edited



User Office

https://up.eli-laser.eu/contact

For general enquiries on conditions of access and submission of proposals: user-office@eli-laser.eu

At the ELI Facilities:

- ELI ALPS
- ELI Beamlines
- ELI-NP