



LASERLAB-EUROPE

The Integrated Initiative of European Laser Research Infrastructures IV

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Work package 10 – Innovation Management and Industry Relations

Deliverable D10.1

Initial version of webpage “Service for industry”

Lead Beneficiary: 4 - CNRS

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Project webpage: www.laserlab-europe.eu

<i>Deliverable Type</i>	
R = Report DEM = Demonstrator, pilot, prototype, plan designs DEC = Websites, patents filing, press & media actions, videos, etc. OTHER = Software, technical diagram, etc.	DEC
<i>Dissemination Level</i>	
PU = Public, fully open, e.g. web CO = Confidential, restricted under conditions set out in Model Grant Agreement CI = Classified, information as referred to in Commission Decision 2001/844/EC	PU

1 Objectives of WP 10

Advanced laser sources and associated technologies enable a wide range of novel applications with high industrial and social impact, such as bio-and nanophotonics, (bio)material analyses, (bio)medical diagnosis and treatment, communication and data processing. This is reflected also in the fact that Photonics is recognised as a Key Enabling Technology within the framework of H2020.

The objectives of the work package on “Innovation Management and Industry Relations” are to foster Laserlab-Europe’s relations with industry and to implement supporting measures that will promote the use of laser RIs by industrial researchers, enhance technology and knowledge transfer and help to fully exploit the innovation potential of the participating research infrastructures.

Many partners of the Laserlab-Europe consortium already have developed strong partnerships with industries, SMEs and medical centres on an individual basis with a substantial number of committed collaborators actively involved in the different JRA. Based on their experiences and know-how, specific tasks will be implemented at the consortium level with support from the Industrial Advisory Committee (IAC).

2 Progress in innovation management and industry relations

An Industrial Advisory Committee (IAC) has been set up at the start of the project. It consists of nine members, four of them representing institution participating in Laserlab and four of them from companies. The members have been elected by the Laserlab-Europe General Assembly. The Coordinator is a member ex officio. During the lifetime of the project, the composition of the IAC may evolve to match possible future needs by including additional representatives from industry, medical centres and professional organisations on a variable, topic-oriented basis.

The IAC provides professional and technical input and advice in order to assist Laserlab-Europe in responding and adapting to exploitation opportunities and innovation needs. In collaboration with the IAC, Laserlab-Europe will organise a number of topical workshops to enhance exploitation and interaction with industry and medical centres.”

A first meeting of the IAC was held on 4 May 2016. The IAC discussed opportunities and needs for industrial involvement in Laserlab-Europe’s activities, with particular focus on transnational vs. national access, collaboration of industry in the context of the Joint Research Activities, in topical workshops and in training activities. The IAC members plan to meet twice per year.

3 Objectives of Task 1: Industry Services

Laserlab-Europe offers a broad range of expertise and collaboration opportunities with industry and medical centres. In order to make this expertise more easily accessible and to promote the use of laser RIs by industrial researchers, an inventory of expertise will be made and presented on the project’s webpage. Moreover, a contact team of researchers representing Laserlab-Europe partners with different scientific focus and from different European regions will help to guide potential end-users from industry, SMEs or medical centres to those facilities that will be best suited to test their concepts or explore new ideas. Laserlab-Europe’s industry services will be promoted during optics and photonics events and trade fairs.

Lead partner: CNRS-LP3

4 Work performed under Task 1

Following discussions of the Laserlab-Europe Networking Board and advice from the Industrial Advisory Committee, a web page 'Laserlab for industry' and an inventory of expertise will be developed. Commercial access in general needs to be promoted and made visible. For industry, the visibility of all facilities in Laserlab is interesting, not only the offer of the access providing facilities. According to the IAC, an inventory of expertise, e.g. a table "Where can you buy access to which service", would provide useful input as a "service for industry". In a second step, support can be provided on how to get access to this expertise. Such a table of competencies is currently under preparation and will be presented on the webpage.

As a first step, a webpage "Laserlab's Services for Industry" was implemented as a section on the Laserlab-Europe web portal at:

<http://www.laserlab-europe.eu/industry-services>

In its initial version, the section comprises a call for proposals from companies who are interested in industrial access to the Laserlab-Europe facilities and an invitation to submit inquiries regarding opportunities for industrial collaboration.



Laserlab Europe

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Jobs

- ★ Several Job announcements at ELI-NP, Magurele, Romania
- ★ Position for a laser engineer at LOA, Palaiseau, France

Laserlab's Services for Industry

Advanced laser sources and associated technologies enable a wide range of novel applications with high industrial and social impact, such as bio-and nanophotonics, (bio)material analyses, (bio)medical diagnosis and treatment, communication and data processing. Laserlab-Europe aims to promote the use of laser research infrastructures by industrial researchers and to enhance technology and knowledge transfer between the research facilities and industry as well as medical centres in order to fully exploit the innovation potential of the participating research labs.



Laser light reflecting on UFI mirrors. Ultrafast Innovations GmbH (UFI) was founded as a spin-off from Laserlab partner MPQ. ©UFI

Industrial use of the Laserlab facilities

Laserlab-Europe offers you the opportunity to use state-of-the-art laser research facilities in Europe for your company's R&D. Specific services for industry and platforms for dialogue and guidance will provide assistance.

Scientists from companies and medical centres are invited to submit research proposals through the [Laserlab proposal submission tool](#). Instructions may be found in the section 'Using our Facilities'.

Your needs and questions

You are looking for support and/or a partner

- to solve technical problems;
- to test the feasibility of technological ideas;
- to develop innovative technologies.

Complete the [inquiry form](#) and send it to the Laserlab contact team.

Industrial Advisory Committee

The **Laserlab Industrial Advisory Committee (IAC)** will help define common fields of interest and supporting actions, such as:

- opportunities for companies and medical centres to engage in Laserlab-Europe's research;
- promotion of specialized training;
- discussion platforms for specific technological issues and instrumentation.

The IAC comprises representatives of companies and Laserlab participants and will hold regular meetings to monitor progress and provide advice. The first IAC meeting was held in Paris on 4 May 2016.

[>> Laserlab and Industry - Success Stories](#)

Fig. 1: Initial start page "Services for Industry"

As proposed by the IAC, a web form is provided through which interested partners can submit questions or register interest in specific topics, e.g. on where to make specific measurements.

The screenshot shows the Laserlab Europe website interface. At the top left is the Laserlab Europe logo, featuring a stylized pulse line and stars. The main header reads 'Laserlab Europe'. Below the header is a breadcrumb trail: 'You are here: Home / Services for Industry / Services for Industry: Your needs and questions'. A left-hand navigation menu lists various site sections: About Us, Using our Facilities, Research and Applications, Services for Industry (with sub-links for Success Stories, Contacts and Links, and the current page), Networking, News and Press, Events, Publications, Career, and Internal. Below the menu is a search bar and a 'Jobs' section with two job listings. The main content area is titled 'Services for Industry: Your needs and questions' and includes a sub-heading 'You are looking for support and/or a partner' followed by a bulleted list of goals: solving technical problems, testing feasibility, and developing innovative technologies. It instructs users to complete a form and submit it to the contact team. The form fields include: Family name, First name, Your E-Mail Address, City, Country, and Your company's/institution's name. A large text area is provided for describing the question, problem, or idea. A 'Field of application' dropdown menu is also present. A 'Submit' button is at the bottom of the form. A confidentiality notice states that the information is treated as strictly confidential and will only be disclosed to the contact team for the purpose of guiding the inquiry to a relevant partner.

Fig. 2: Web form for submission of inquiries regarding industrial collaboration.

This platform initially sends inquiries to the lead partners of work package 10, and will in future forward questions to mailing lists for specific topics, possibly automatically based on a set of pre-defined keywords. In addition, a forum for registered users will be set up.

In order to promote collaboration with industrial partners, several examples are provided in the form of success stories of spin-offs and joint development of instrumentation.



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Laserlab and Industry - Success Stories

Technological inventions, whether originating from the academic world or created in industry's research labs, are an essential ingredient for our modern economy. Close collaboration between science and industry increases the odds that such findings will eventually benefit society. In these collaborations, knowledge can flow in two directions.

On the one hand, to be able to answer a specific scientific question, scientists often create methods and machines that could also be used for applications outside their field. Generally, these scientific devices are difficult to use for others than those who built them. The step towards a user-friendly marketable product can either be made by creating a spinoff company with heavy involvement of the scientists themselves, or by contacting an established company with a relevant background. On the other hand, scientific progress is greatly enhanced by dedicated companies supplying components and even fully functioning systems (e.g., frequency combs and other laser systems) to the scientific world. Close ties to relevant research groups, which can provide feedback about those products and can come up with new ideas and inventions, are essential for these high-tech companies.

In this 'Industry Focus' we present a short overview of some high-tech companies, both recent spin-offs and independent businesses, associated with several Laserlab-Europe partners. In addition, two new [ERC Proof of Concept projects](#) – from LaserLaB Amsterdam and ICFO – are presented, illustrating how the European Research Council stimulates development of scientific results into profitable products.

- [Ultrafast Innovations - MPQ >>](#)
- [Light4Tech - LENS >>](#)
- [Optics11 - LaserLaB Amsterdam >>](#)
- [Femtolasers - MBI >>](#)
- [SourceLAB - LOA >>](#)
- [Menlo Systems - MPQ >>](#)
- [Proof of Concept >>](#)



The SourceLAB team presenting their company together with Laserlab-Europe. In the middle CEO François Sylla

Fig. 3: Success stories of spin-offs and collaboration with companies.