European Doctorate in Indium Phosphide PIC Fabrication Technology

Deliverable D7.1

Website (first version)

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Abstract

A website has been developed and social media accounts have been envisaged for the EDIFY project. The visual identity of EDIFY and the website structure have been developed as part of the corporate branding deliverable.

Keywords: Website, Open Access, Media, Events, Training, Events

Change Record

Revision	Date	Description	Reviewer
0.1	01-10-2018	Outline proposal	Francisco J. Diaz Otero
0.5	15-11-2018	Partial contents developed	WP7 partners
0.7	15-12-2018	Version for peer review	Anxo Moreira (UVIGO)
0.9	15-01-2019	Reviewed	Steven Grijseels (SP)
1.0	30-01-2019	Final deliverable for the EC	EC


EDIFY
HOME
ABOUT US
PARTNERS
RESEARCH AREAS
NEWS
CONTACT
EUROPEAN DOCTORATE IN INDIUM PHOSPHIDE PIC FABRICATION TECHNOLOGY
ABOUT US


EDIFY

TABLE OF CONTENTS

1. INTRODUCTION

1.1 ROLE OF THE WEBSITE AND SOCIAL MEDIA

European Doctorate in Indium Phosphide PIC Fabrication Technology (EDIFY) aims at providing cutting-edge training to young researchers in the emerging field of integrated photonics and its translation into circuit design, fabrication and commercialization. The programme provides a coherent training platform that addresses the outstanding engineering challenges of the new field of Integrated Photonics while nurturing technical, creative and entrepreneurial skills. The expected outcomes are a **breakthrough improvement in performance, power consumption and predictive methodologies for photonic Integrated Circuits** and a **cohort of ESRs trained on cutting-edge photonic integration and nanofabrication technology**.

The ultimate success of EDIFY project is strongly dependent on well-coordinated dissemination and exploitation activities. Therefore, the beneficiaries and partners of the EDIFY project have decided to include a specific work package that also includes exploitation activities for this purpose: WP7. Special focus will be on disseminating project findings to the Integrated Photonics sector, which will be the main beneficiary of the novel technologies, data and knowledge.

A project website and social media communities are key tools to accomplish this process. A website offers introduction to the project for those unfamiliar with it, provides updates on project proceedings, and acts as a central reference for contact information or resources. Social media communities invite ongoing commentary, questioning, comparison, and reflection in a more discussion-oriented environment. The two approaches complement each other in opening EDIFY up to public participation.

1.2 DESIGN CONSTRAINTS

Due to the great effort spent in the recruitment process that produced a delay in the opening of other activities, the corporate design manual was postponed to December 2018 (attached). Since corporate design guidelines are needed for a website with project-consistent branding, an interim website was developed in January 2019 featuring the already-designed logo. A fully-branded website was professionally designed as part of the corporate design process, and uploaded to the Internet in May 2019.

2. EDIFY WEBSITE

2.1 WEBSITE DESIGN

The EDIFY website (http://www.edifyphotonics.com/) was designed using Wordpress, a highly popular content management system. The navigation offers four main themes of content:

"ABOUT US": a description of the project, responsible research and innovation, the team and activities and research, and information on the consortium.

"PARTNERS": Description of beneficiaries and partners.

"RESEARCH AREAS": resources and reference files, as well as a description of Work Packages.

"NEWS": links to news on photonics and integrated photonics news and fabrication research, as well as a description of Work Packages.

"CONTACT": an invitation for website visitors to contact EDIFY, with any questions or comments.

The theme is responsive to different browsing dimensions, i.e. monitors, laptops, tablets, and mobile phones. Screenshots are provided in Section 3: Annex. Details on Horizon 2020's support for EDIFY are provided, with grant number, in a footnote in the Homepage.

2.2 SOCIAL MEDIA AND FUTURE STEPS

As the project proceeds, the website will grow to accommodate future content and functionality. The structure to support this is going to be be determined during this second year of the project. Right now, some modifications are:

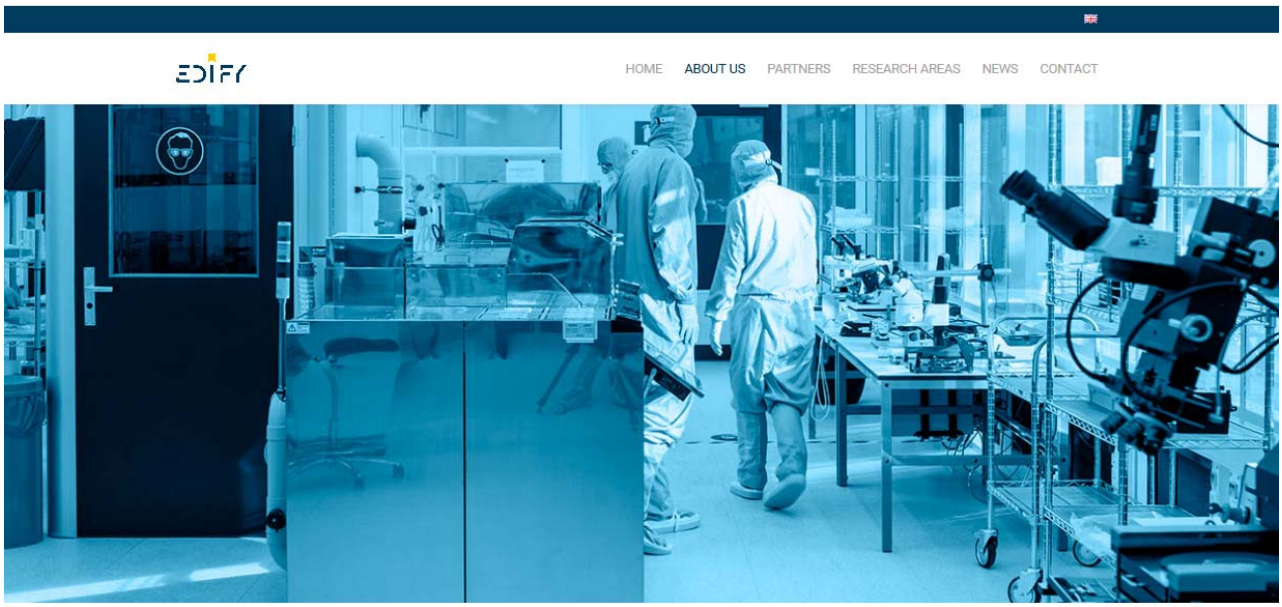
- RESEARCH AREAS will be renamed as WORK PACKAGES. For each of these WPs, the corresponding ESR, his bio and tasks will be described.
- Under NEWS, BLOG and a NEWSLETTER subsections will appear.
- New sections will appear in the header: SCHOOLS AND WORKSHOPS and OUTREACH. Media, videos, interviews and other transferrable skills training will be described.

Similarly, the use of social media in the project is growing as the project activities and findings offer more opportunity for reflection, ideally moving from a "broadcasting" style to one that facilitates discussion and reflection.

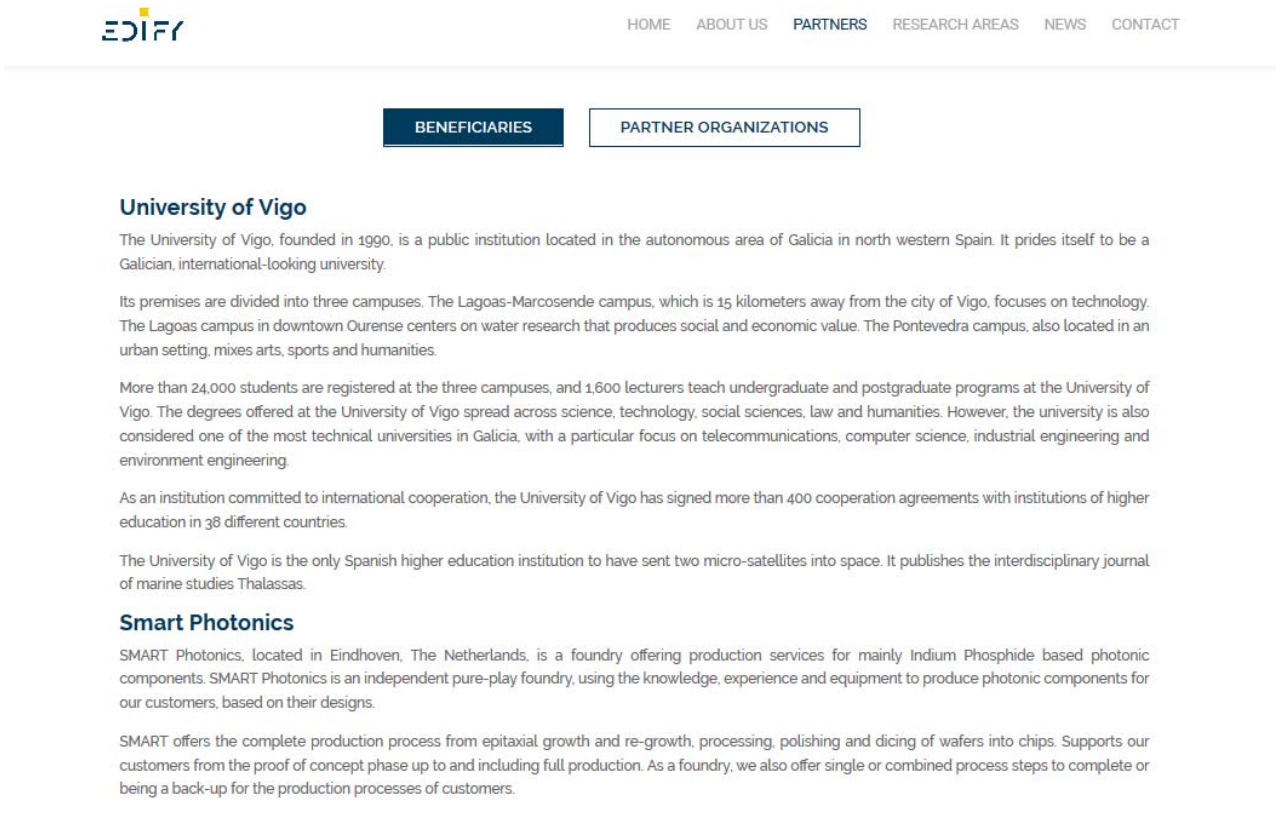
LinkedIn and Twitter accounts will be created to offer a space for ongoing discussion of EDIFY' proceedings and relevant topics. This may include questioning, commentary, or contributions from consortium members as well as other, public stakeholders. A social media presence offers EDIFY the ability to participate in related discussions, as well.

As the project develops, both knowledge-sharing and reflection are expected to grow through this platform. The visual style of the accounts will be further developed to align with the corporate design guidelines, once complete. Social media accounts will be linked to the website and promoted accordingly.

ANNEX. EDIFY WEBSITE SCREENSHOTS



European Doctorate in Indium Phosphide PIC Fabrication Techonology (EDIFY) aims at providing cutting-edge training to young researchers in the emerging field of integrated photonics and its translation into circuit design, fabrication and commercialization. Photonic integration is emerging as a new standard for providing cost effective and high-performance miniaturized optical systems enables system designers and manufacturers to combine various optical devices into a single package, thereby offering significant by the demand for higher data volumes and speeds by the very competitive fields using information and Technology (IT) emerging at an excepcional rate. However, full exploitation of PIC based techonologies still present formidable challenges, in the sector is facing an increased need of well-trained multidisciplinary scientist with specific and technical skills with are needed to tackle the development of high performing in PICs.



University of Vigo

The University of Vigo, founded in 1990, is a public institution located in the autonomous area of Galicia in north western Spain. It prides itself to be a Galician, international-looking university.

Its premises are divided into three campuses. The Lagoas-Marcosende campus, which is 15 kilometers away from the city of Vigo, focuses on technology. The Lagoas campus in downtown Ourense centers on water research that produces social and economic value. The Pontevedra campus, also located in an urban setting, mixes arts, sports and humanities.

More than 24,000 students are registered at the three campuses, and 1,600 lecturers teach undergraduate and postgraduate programs at the University of Vigo. The degrees offered at the University of Vigo spread across science, technology, social sciences, law and humanities. However, the university is also considered one of the most technical universities in Galicia, with a particular focus on telecommunications, computer science, industrial engineering and environment engineering.

As an institution committed to international cooperation, the University of Vigo has signed more than 400 cooperation agreements with institutions of higher education in 38 different countries.

The University of Vigo is the only Spanish higher education institution to have sent two micro-satellites into space. It publishes the interdisciplinary journal of marine studies Thalassas.

Smart Photonics

SMART Photonics, located in Eindhoven, The Netherlands, is a foundry offering production services for mainly Indium Phosphide based photonic components. SMART Photonics is an independent pure-play foundry, using the knowledge, experience and equipment to produce photonic components for our customers, based on their designs.

SMART offers the complete production process from epitaxial growth and re-growth, processing, polishing and dicing of wafers into chips. Supports our customers from the proof of concept phase up to and including full production. As a foundry, we also offer single or combined process steps to complete or being a back-up for the production processes of customers.

HOME ABOUT US PARTNERS RESEARCH AREAS NEWS CONTACT

WORK PACKAGES EDIFY

The EDIFY work plan consists of 7 Work Packages, starting with the Project Management WP1, the four research WPs (WP2–WP5), one WP on Training (WP6), and finally one on Communication, Dissemination and Exploitation (WP6).

The four research packages and their connection with the ESRs are described as follows:

WP2

Development of compact models for integrated photonics´ InP fabrication

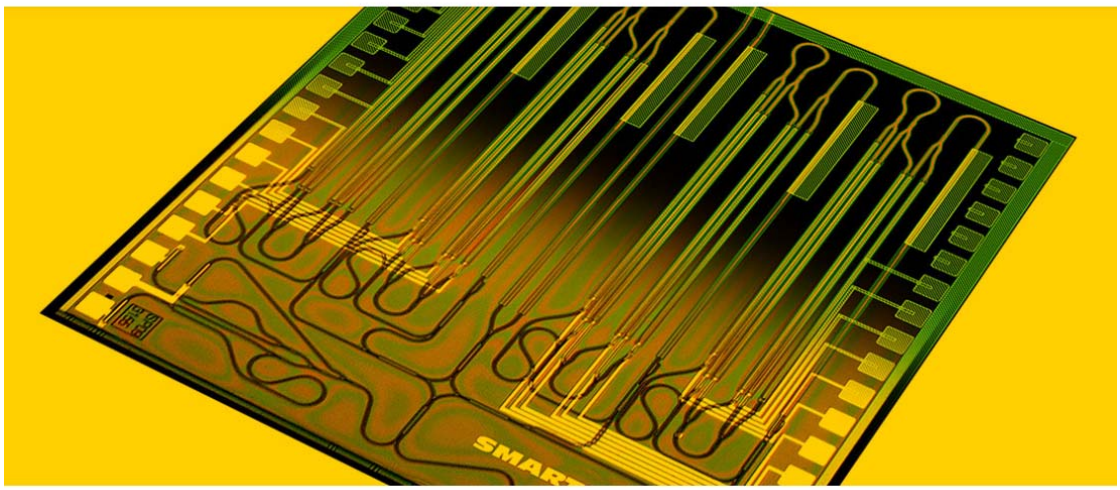
This WP will focus on the generation of compact models for large-scale fabrication in InP foundries. It will start with a complete and detailed plan and workflow for measurement and control manufacturing tasks in an integrated photonics foundry. Followed by the development of a dedicated design that will be used as a process control module. An automatized system for control and measurement activities in the manufacturing chain will be developed. This system will also provide feedback to refine the proposed model. Participating ESRs will work with scientific participants to apply statistical models to study the performance of the fabricated building blocks and the development of software simulation tools to define the automation process.

WP3

Development of low loss waveguides

This WP will focus on the generation of low-loss waveguides for InP integrated photonics ASPICs. After elaborating a complete test plan, in a study of the impact of diffusion of Zn on the active building blocks will be accomplished. This will be achieved by simulation followed by fabrication process development, including performance and monitoring. It will be followed by measurements of the final performance of the devices fabricated. Several fabrication runs are planned to calibrate the process and to optimize the performance of booth active (lasers, amplifier, modulators) and passive (splitters, filters, interferometers) the building blocks. Participating ESRs will work with scientific participants to apply theoretical models, develop new tools, new building blocks and software simulations for this new generation of waveguides with small losses. They will provide valuable data to obtain compact models (WP2) for the generation of the new PDK associated to this fabrication process.

HOME ABOUT US PARTNERS RESEARCH AREAS NEWS CONTACT



NAME

EMAIL

MESSAGE

PI Francisco Javier Diaz Otero

University of Vigo
atlanTTic Research Center
El Telecomunicacion
Campus Universitario s/n
36310 Vigo