H2020-ICT-2018-20/H2020-ICT-2019-2

PHABULOµS

Pilot-line providing highly advanced & robust manufacturing technology for optical free-form µ-structures

Starting date of the project: 01/01/2020
Duration: 48 months

= Deliverable D7.3=

Project print media, brochure, leaflets available

Due date of deliverable: 30/06/2020
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Dissemination level		
PU	Public	x
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	

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Executive Summary

In accordance with Work Package 7 (Exploitation, dissemination and communication), we present herein Deliverable D7.3 “Project print media, brochure, leaflets available”, to support PHABULOuS in its aim to establish an efficient, accurate and sustainable pilot line for the manufacturing of freeform micro-optical components for the optoelectronic and photonic industry. This report details the Project print media, brochure and leaflets that will be used as dissemination tools to convey the project messages and achieve the project’s aims and objectives.

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Introduction

In Section 7 of deliverable 7.2 for the PHABULOuS project, we detailed the dissemination tools and activities to be used to convey the project messages and achieve the key objectives of PHABULOuS's dissemination strategy, namely,

- to create broad awareness and understanding of the aims of the PHABULOuS project and the services provided by its pilot line.
- to maximize the number of companies applying to participate in the validation phase (pilot cases) and thereafter, the number of pilot line customers.
- to create a free-form micro-optics network, comprising a group of people at the decision maker level from key end user companies and associations in order to stimulate demand for micro-optics and motivate SMEs to participate in the pilot line.

In this deliverable, 7.3, we detail the Project print media, brochure, and leaflets available (herein referred to as 'print media') that will be used to support all PHABULOuS dissemination activities. **Section 2** contains the type of dissemination events and activities that the project print media will support and promote, and **Section 3** details the print media itself and includes the project logos and visual identity, website, social media, banners, flyers, newsletter, videos, press releases and advertisements for events.

1. Use of Project print media

Project print media will be used to support, advertise and promote various dissemination events and activities according to the needs of each stakeholder group as detailed in Table 1, below:

Table 1: Summary of PHABULOuS events that Project print media will advertise and promote with desired objectives by target stakeholder group

Target Stakeholder Group	Print media will be used to advertise and promote PHABULOuS presence at:	Event objectives
1. Pilot line customers	• Conferences, symposia, at leading photonics events such as OFC, Photonics West, ECOC • EPIC application-oriented events in fields such as quantum photonics and medical devices.	• Maximise applications to participate in the 20 pilot-case validation • Maximise customers for commercialisation of the pilot line
2. End-users	• Conferences, symposia, EPIC meetings and at leading photonics events such as OFC, Photonics West, ECOC, • Application specific events e.g., in the fields of automotive lighting, AR/VR, medical devises, security and branding. • Leading international photonics associations and end-user associations, e.g., the Microscopy Society of America, the European Microscopy Society and VR/AR associations. • Pilot line workshops giving visibility to the commercial partners of the project.	To promote faster and increased demand from end-users for free-form micro-optics components, thus increasing SME participation in pilot line by: • promoting free-form micro-optics among end-users with special focus on connecting them with already existing integrator companies, so they can become end-users of the pilot line • supporting the generation of a free-form optics network, comprising a group of people at the decision maker level from key end-user companies and photonics associations with the aim of stimulating demand for micro-optics
3. Research and scientific community	• Presentations of publications at international conferences. • Presentations of the results of the project at international events with industry. • Workshops.	• Disseminate the latest results towards Photonics actors. • Encourage new collaborative research proposals. • Stimulate young scientists and engineering students to research in micro-optics.
4. Policy Makers & Funding Agencies	• High-profile events, such as Photonics21 annual meetings and H2020 promotional events. • Leading international photonics and	• To increase awareness of politicians/policy makers on the importance of photonics/PHABULOuS for jobs, training and economy to maintain and secure future funding for photonics.

	application specific events • EPIC invitation-only VIP networking events.	• To promote top-line KPIs on user numbers, revenue generation and job-growth opportunities.
5. General public and the media	• Presentation of results in non-scientific publications. • Exhibitions and events promoting new Photonics solutions.	• Give transparency on how EU citizen's taxes are being spent. • Increase awareness among the public on the potential that PHABULOuS/photonics has for the growth and stability of the European economy in order to put pressure on politicians to support future initiatives in photonics. • Increase visits to project website and downloads of public deliverables.
6. Investors	• Annual workshops with investors • Regular events such as EPIC VIP dinners with EPIC Corporate Investors and Business Angels Dinners • EPIC technology workshops to be held in partnership with other pilot lines such as PIXAPP, MEDPHAB, InPulse and MIRPHAB.	• Enhance investor confidence in PHABULOuS technologies. • To prepare user companies to maximize their chances to raise investment and create improved business certainty.

2. Print media, brochure, leaflets available for use as dissemination tools

All print media, brochures and leaflets will be used to convey the project's messages and objectives in accordance with the following principles:

2.1. Acknowledgements

All print media will contain the EU emblem and Photonics21 logo will be displayed prominently together with the text "Photonics Public Private Partnership". The link www.photonics21.org will also be included. Similarly, all LinkedIn and Twitter posts relating to PHABULOuS will include the links #Photonics, @Photonics21 and @PhotonicsEU.

2.2. Gender equality

All print media will use gender neutral texts and display a balance of female/male imagery.

2.3. Visual identity

To aid in branding and increasing visibility and awareness of the PHABULOuS project, a logo and visual identity (see Figures 1-4 below) have been created to be used in all dissemination activities and tools, as well as a PowerPoint template.

Fig 1: PHABULOuS logo

2.4. Website

The PHABULOuS website https://phabulous.eu/ is now online (see deliverable 7.1) and is the main entry point to the project for all target groups. The website, which has a clean, simple design and is easy to navigate, provides a full range of essential information in four main sections, each with a dropdown menu:

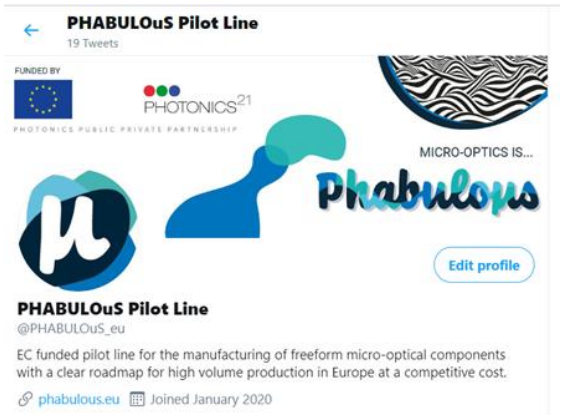
PROJECT: Technology, Ambition, Target Applications, Project facts & consortium
PILOT LINE: Services, Open calls.
NEWS & EVENTS: News, Events, Gallery, Downloads
CONTACT US: Project Help Desk with direct access to Rolando Ferrini (Project Coordinator) and Kristina Pandek (Project Manager) and a fill-in form to request further information. There are also links to the project's LinkedIn and Twitter accounts.

Fig. 2: Screenshot of the PHABULOUS website home page

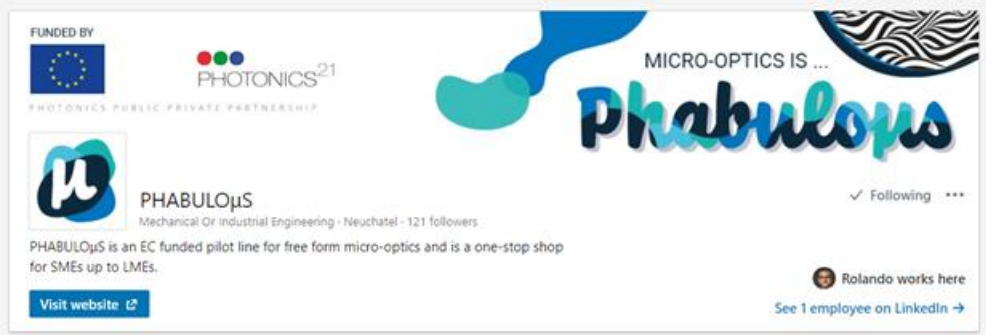
2.5. Social media (LinkedIn & Twitter)

Social media will be crucial for promoting the aims, services and results of the project; events in which PHABULOuS participates; open calls and pilot line offer; and driving traffic to the PHABULOuS website.

Twitter: @PHABULOuS_eu: A PHABULOuS twitter account was set up in early January 2020 and can be found at: https://twitter.com/PHABULOuS_eu

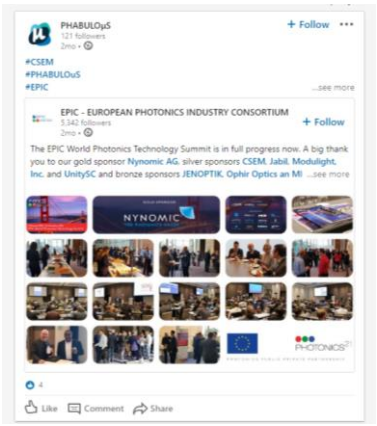


LinkedIn: A PHABULOuS LinkedIn account was set up in early January 2020 and can be found at: https://www.linkedin.com/company/phabulo%CE%BCs/



An example project tweet and LinkedIn post are shown in Fig. 3

Fig 3. PHABULOuS tweet from pilot lines booth at Photonics West



PHABULOuS LinkedIn post from EPIC World Photonics Technology Summit

In the future, as other pilot lines have done, special LinkedIn interest groups will be set up to enable members to share information and solutions in relation to topics such as free-form micro-optics manufacturing and integration of free-form micro-optics products in specific application fields including automotive and solid state lighting, AR/VR, daylight & PV, security and branding, optical elements and imagers/displays.

2.6. Banners & advertisements

The roll-up banner is designed and will be presented at booths and other dissemination events. The following image in Fig 4 is an A4 sized advertisement and Roll-up banner. The A4 advertisement sheet will be placed in proceedings and publications.

Fig 4: PHABULOuS A4 advertisement (left image) & roll-up Banner (right image)

2.7. Flyers

The objective of the flyers, as shown in Fig 5 below, is to aid in the communication of the project particularly to the non-specialized community and stakeholders. The flyers will be printed and distributed at the European Commission and at various events. Infographics will be used for better visualization of information and project's objectives.

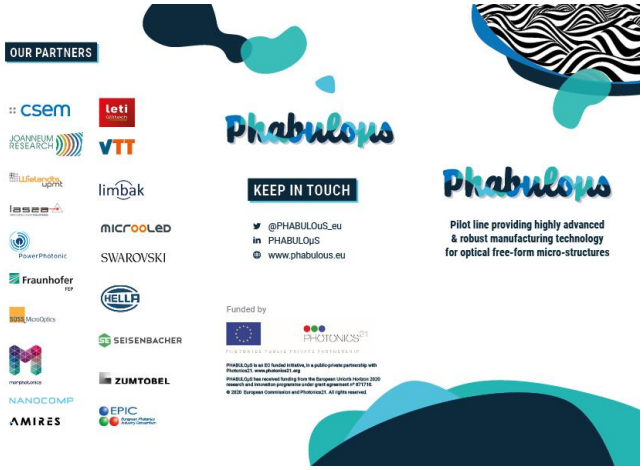


Fig 5: PHABULOuS flyer (front)

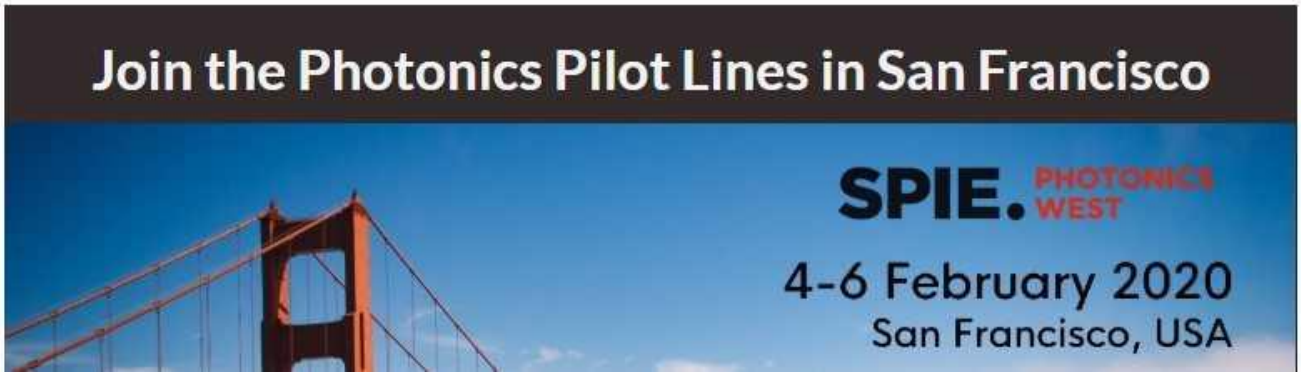
PHABULOuS flyer (back**)**

Webinars on this topic will be planned for the year 2020 and will be included in the dissemination strategy as the project progresses.

2.8. Newsletters

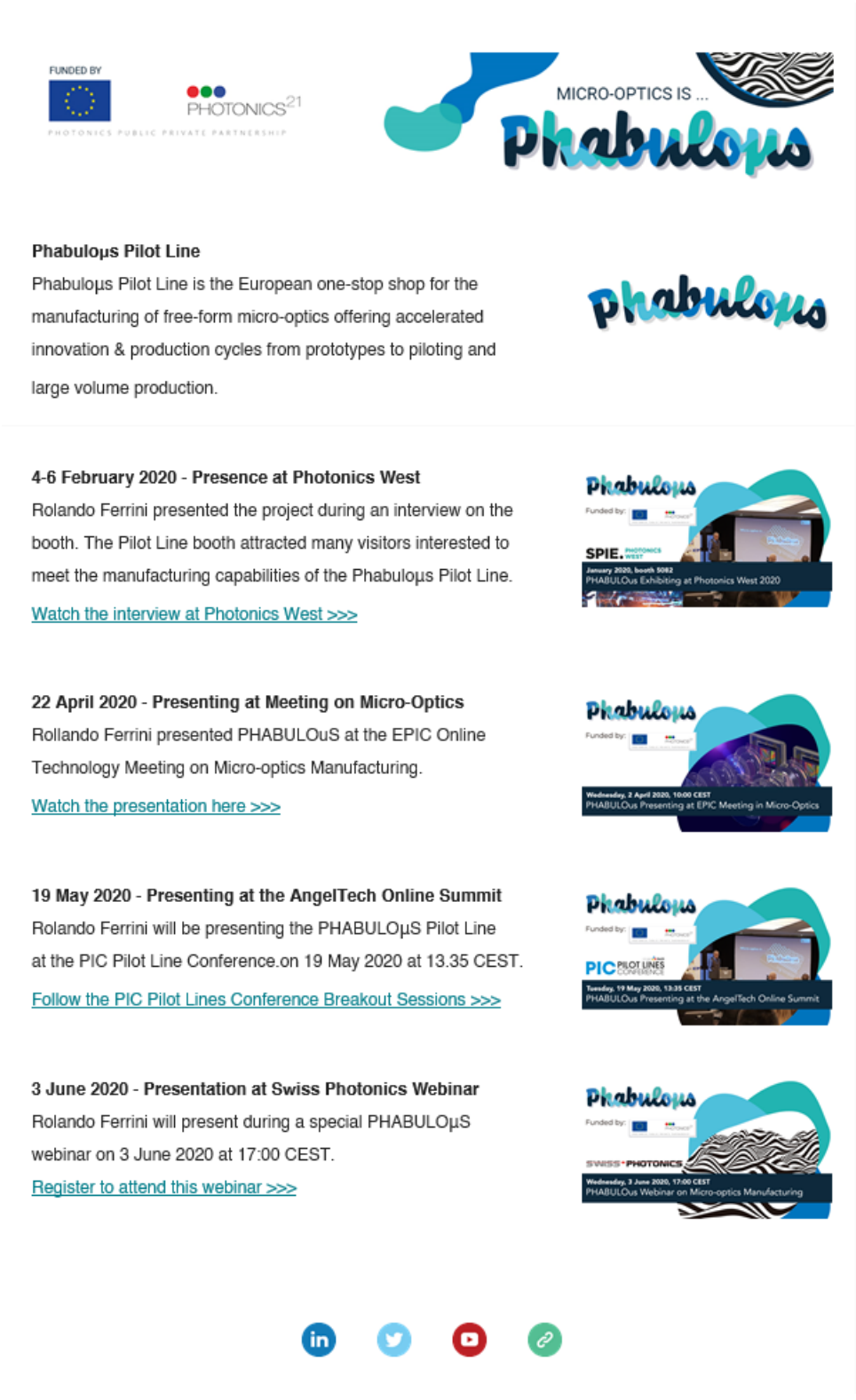
E-mail newsletters will be distributed at six-monthly intervals to identified stakeholders.
PHABULOuS was included in the Pilot Lines Newsletter created by EPIC in January 2020 (1026 newsletter subscribers, type photonics industrials):
https://mailchi.mp/10e271396218/european-pilot-lines-quarterly-update-january-1387985?e=[UNIQID]

Miniature photonics-based devices offer advanced solutions of cost-effectiveness, compatibility with existing technologies, compact size, and low power consumption to many industries, such as healthcare, telecommunication, automotive, cyber-security, and many others. Facilitating access to the well-established Photonics Integrated Circuits (PICs), the Pilot Lines, PIX4LIFE, PIXAPP, MIRPHAB, JePPIX, PHABULOuS and MedPhab provide industrial organizations and research entities affordable and customized services to utilize unique PIC technology capabilities from design for prototyping to scalable commercial production.



Screenshots of the Pilot Lines Newsletter in January 2020 which included PHABULOuS

PHABULOuS was also included in the Pilot Lines Newsletter created by EPIC in May 2020 (1026 newsletter subscribers, type photonics industrials):



Screenshots of the Pilot Lines Newsletter in May 2020 which included PHABULOuS.

2.9. Videos on YouTube

The project has created a PHABULOuS YouTube channel called "PHABULOuS EU" that will contain all the videos created for this pilot line: https://www.youtube.com/channel/UC66gu23KN5NekBqIue-FJ5A

Two videos, made in collaboration with EPIC, have already been uploaded:

"A new era for micro-optics manufacturing" https://www.youtube.com/watch?v=copn1Ollsrw, which contains details on the technology and aims of the project.

"The next generation of free-form micro-optics by PHABULOuS Pilot Line"
https://www.youtube.com/watch?v=cSa5AHRyaJU&t=44s, a short presentation on the project from the PHABULOuS booth at Photonics West, 2020

2.10. Press releases

The consortium has issued a press release at the project launch (shown below), which was translated into French and German. The project will release additional press releases, whenever the project has reached a significant milestone or exceptional scientific, economic or societal impact. There will be a final press release at the end of the project.

Link to the Kick-off meeting press release: (https://www.csem.ch/page.aspx?pid=127307#!)

PHABULOUS PRESS RELEASE, 6 JANUARY 2020

PHABULOUS, A NEW ERA IN FREE-FORM MICRO-OPTICS

NEW EUROPEAN PILOT LINE TO PROVIDE HIGHLY ADVANCED AND ROBUST MANUFACTURING TECHNOLOGY FOR OPTICAL FREE-FORM MICRO-STRUCTURES.
Led by CSEM, the PHABULOuS consortium is unifying Europe's leading Companies and Research & Technology Organizations (RTOs), through the creation of self-sustainable pilot line for the design and manufacturing of free-form micro-optical solutions. These solutions will be integrated into high added-value devices, spanning from micro displays for augmented reality, to innovative systems for professional, automotive, and transportation lighting to optical effects for luxury. The PHABULOuS consortium will synchronize its efforts to translate urgent and high-impact industrial needs into industrially relevant predictive software packages, manufacturing tools and processes, characterization methods for quality inspection and integration schemes, all necessary for the successful demonstration of this technology in pre-commercial production runs.

The EU project PHABULOuS (*Pilot-line providing highly advanced & robust manufacturing technology for optical free-form μ-structures*) is being launched on January 15 and 16, 2020, at CSEM in Switzerland.

There is an urgent need to provide miniaturized optical components due to the exponential growth of the micro-optics market over the last decade. This is in tandem with an increasing need for free-form micro-optics that can address the challenges set by the photonics market over the next five to ten years. Industrial demand for free-form micro-optics is a current market reality, however, the high access barriers to pre-commercial production capabilities in Europe prevent companies, especially SMEs, from commercially exploiting this technology.

Among the objectives of the project, are:

- the general increase of the current technology and manufacturing readiness levels of free-form micro-optics
- the implementation of 6 industrial user cases demonstrating pilot manufacturing in operational environments for applications spanning from augmented reality, to professional, automotive, and transportation lighting to luxury
- the establishment of an open-access, sustainable, distributed pilot-line infrastructure with a single

entry point
- the validation of the pilot-line services through the implementation of 20 industrial pilot cases in different fields, such as solid-state & day-lighting, photovoltaics, displays & imagers, consumer electronics & wearables, anti-counterfeiting & branding.

Dr. Rolando Ferrini, the project's coordinator from CSEM, is extremely satisfied by the whole project concept and stated: "PHABULOuS will open a new era for free-form micro-optics enabling the industrial manufacturing of innovative micro-optical components for a wealth of different photonics applications, thus becoming the unique entry point in Europe for SMEs and LMEs aiming to pilot and produce devices integrating free-form micro-structures."

Dr. Reinhard Voelkel, CEO of SUSS MicroOptics and a partner of the consortium also stated that: "We are very honored to participate in the Free-Form Photonics EU-Pilot Line Project PHABULOuS and to accommodate the Wafer-Level Optics (WLO) part in our new cleanroom wafer factory in Neuchatel, Switzerland. He notes that "PHABULOuS is a strong consortium and we are very confident that the new Pilot Lines will enforce the competitiveness of European Photonics companies and manufacturing industry in Europe."

One of the six industrial use case partners is the automotive supplier HELLA. Dr. Daniela Karthaus, responsible for new optical technologies at HELLA, said: "As a leading manufacturer of automotive lighting systems we strive for developing the latest innovations in order to provide the best solutions to our customers. Within the PHABULOuS project, HELLA looks at highly innovative micro-optics for miniaturizing the existing automotive lighting solutions to enable new design possibilities as well as the reduction of construction space and weight to contribute to an efficiency increase for electric vehicles and autonomous driving."

This project has received funding in the order of 15 Mio. EUR from the European Union's Horizon 2020 research and innovation program under the Grant Agreement nº 871710, in Public Private Partnership with Photonics 21.

Group photo of PHABULOuS kick-off meeting

2.11. Technology news servers

PHABULOuS will comply with knowledge sharing arrangements and will periodically contribute to the European Technology Platform Photonics21. This will occur after the latest achievements, at latest at the beginning and at the end of the project. See this link for PHABULOuS's first posting on CORDIS: https://cordis.europa.eu/project/id/871710

2.12. Publications

To date, the following papers and articles related to PHABULOuS have been published, as shown in the following table:

Table2: Publications relating to PHABULOuS, Jan-May 2020

Publication Title	Publisher	Publication Date	Link
New Era for Free-Form Micro-Optics	Photonics Views	23-Jan-20	https://www.photonicsviews.com/new-era-for-free-form-micro-optics/
The Future of Micro-Optics in Europe	Photonics Views	03-Jun-20	https://onlinelibrary.wiley.com/doi/pdf/10.1002/phvs.202070306
Phabulous Pilot Line for Free-Form Micro-Optical Solutions'	Novus Light	16-Jan-20	https://www.novuslight.com/phabulous-pilot-line-for-free-form-micro-optical-solutions_N10008.html
Latest European pilot line will focus on free-form micro-optics	SPIE optics.org	21-Jan-20	https://www.optics.org/news/11/1/28
Eine neue europäische Pilotlinie bietet eine hochentwickelte und robuste Fertigungstechnologie für optische Freiformmikrostrukturen	Press Box	16-Jan-20	https://www.pressebox.de/inaktiv/csem/Eine-neue-europaeische-Pilotlinie-bietet-eine-hochentwickelte-und-robuste-Fertigungstechnologie-fuer-optische-Freiformmikrostrukturen/boxid/988747
CSEM strengthens relationship with Morphotonics by ordering nanoimprint equipment	Science Press Releases	16-Jan-20	https://www.sciencepressreleases.com/2020/02/26/csem-strengthens-relationship-with-morphotonics-by-ordering-nanoimprint-equipment/
A New Era for Free-form Micro-optics	CMM Magazine	16-Jan-20	http://www.cmmmagazine.com/metrology/a-new-era-for-free-form-micro-optics/
PHABULOuS: A new era for free-form micro-optics	Fraunhofer FEP	16-Jan-20	https://www.fep.fraunhofer.de/en/press_media/News_01_2020.html
A new era for free-form micro-optics	CSEM	16-Jan-20	https://www.csem.ch/page.aspx?pid=127307#!
Eine neue Ära der Freiformmikrooptik	Polit-X	31-Jan-20	https://polit-x.de/documents/3059214/forschung-verbande/forschungseinrichtungen/fraunhofer-gesellschaft/fep/news-2020-02-19-eine-neue-ara-der-freiformmikrooptik
Neue europäische Pilotlinie bietet eine hochentwickelte und robuste Fertigungstechnologie für optische Freiformmikrostrukturen	C SRRT-SwissCCS	17-Fev-20	https://ccreport.com/news.php?t=Neue+europ%C3%A4ische+Pilotlinie+bietet+eine+hochentwickelte+und+robuste+Fertigungstechnologie+f%C3%BCr+optische+Freiformmikrostrukturen&read_article=5138
Euro für eine neue Optik-Technologie	Inst. für Oberflächentechnologien und Photonik	17-Apr-20	http://www.wissenschaft.steiermark.at/cms/dokumente/12771108_149977504/88281dbd/MAT_Austria%20Innovativ_Gezielte%20Lichtlenkung.15%20Mio.%20Euro%20für%20eine%20neue%20Optik-Technologie.pdf

Notes on the design of free-form optics	SPIE Digital Library	24-Feb-20	https://www.spiedigitallibrary.org/conference-proceedings-of-spie/11299/1129904/Notes-on-the-design-of-freeform-optics/10.1117/12.2547832.short?SSO=1
Microoptics is … PHABULOuS!	AMIRES	01-Jan-20	https://amires.eu/microoptics-is-phabulous/
Presentation of PHABULOuS! At EPIC MEETING ON WAFER LEVEL OPTICS AT SÜSS 2019 (VIDEO)	EPIC	30-Nov-19	https://vimeopro.com/epicphotonics/suss2019/video/372401584
Nanocomp participating to PHABULOuS consortium by European Union's Horizon 2020	Nanocomp	17-Jan-20	https://www.nanocomp.fi/nanocomp-participating-to-phabulous-consortium-by-european-unions-horizon-2020/
EINE NEUE ÄRA DER FREIFORMMIKROOPTIK	Seisenbacher	17-Jan-20	https://www.seisenbacher.com/newsbeitrag/eine-neue-aera-der-freiformmikrooptik/

More publications can be seen in the Appendix.

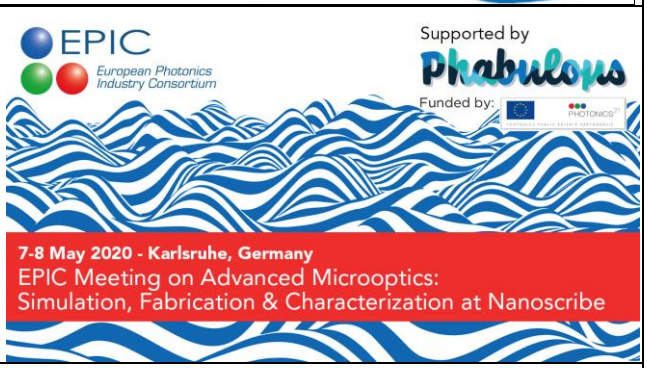
2.13. Advertisements for dissemination events

Print media will be used on the website and social media to advertise various events at which PHABULOuS will be present in order to 1) increase visibility of the project, 2) inform potential users and collaborators about the project's technology and services, and 3) obtain potential user and end user leads.

A provisional calendar of PHABULOuS events for 2020 together with the advertisements used to promote them is shown in Table 3, below. Due to the world health emergency resulting from Covid-19 that started in early 2020, some exhibitions and events have been postponed or transformed into online events to compensate for missing dissemination opportunities.

Table 3: Advertisements to promote PHABULOuS Events in 2020

Date	Event	Image of advertisement used in social media posts and website
03 Feb 2020	EPIC world photonics Technology Summit, San Francisco USA	
04 Feb 2020	Pilot lines Breakfast meeting	

4-6 Feb 2020	Pilot Lines Booth, SPI Photonics West (PW), San Francisco, USA	
26-27 Feb	Project communication at Tech Watch W3+Fair Wetzlar, Germany	
30 Mar - 1 April 2020 (Postponed)	Pilot lines day, Brussels, Belgium	
22 Apr 2020	EPIC Online Technology Meeting on Micro-Optics Manufacturing	
7-8 May 2020 (PPD)	EPIC Meeting on Advanced Microoptics: Simulation Fabrication & Characterization at Nanoscribe, Karlsruhe, Germany	
11-12 May 2020 (Postponed)	NIL Industrial Day, Berlin, Germany	Not available yet
12-14 May 2020 (Postponed)	Optatec, Frankfurt, Germany	Not available yet
19 May 2020 (Postponed)	PIC Pilot Lines Conference	Not available yet

19 May 2020	PIC Pilot Lines Online Conference	
3 June 2020	PHABULOuS Webinar on Micro-optics Manufacturing	
3-4 Sep 2020	EPIC World Industrial Quantum Photonics Technology Summit at University of Glasgow, UK	
29-30 Oct 2020	EPIC Meeting on Automation for Manufacturing (Packaging and Testing) at PI, Karlsruhe, Germany	
30-31 Oct 2020	European Space Generation Workshop, Madrid, Spain	
5-6 Nov 2020 (Postponed)	EPIC Meeting on Micro-Optics for display imaging sensing and metrology at IMT, Greifensee, Switzerland	Not available yet

8-9 Dec 2020	EPIC Meeting on Medical Devices at Philips Innovation Services, Eindhoven, The Netherlands	
15-16 Dec 2020	EPIC Meeting on MicroLEDs at CEA-LETI, Grenoble, France	Not available yet

3. Conclusion

In this report, we have detailed the comprehensive range of print media, brochure and leaflets available for use as dissemination tools to help convey PHABULOuS messages and achieve the project's goals of creating a successful European pilot line for testing, validating and upscaling the manufacturing and implementation of freeform micro-optical components for the optoelectronic and photonics industry.

4. Degree of Progress

The deliverable is 100% fulfilled. The maintenance of the website will be carried out during the whole course of the project.

5. Dissemination Level

The Deliverable D7.3 "Project print media, brochure, leaflets available" is public and will therefore be available to download on the project's website on demand.

6. Appendix

Date: 20.01.2020

ARCINFO / L'Impartial L'EXPRESS

ArcInfo - L'Impartial/L'Express
2001 Neuchâtel
032/ 723 53 00
https://www.arcinfo.ch/

Genre de média: Médias imprimés
Type de média: Presse journ./hebd.
Tirage: 24'173
Parution: 6x/semaine

Page: 3
Surface: 2'806 mm²

csem

Ordre: 1004007
N° de thème: 663.052

Référence: 78055430
Coupure Page: 1/1

NEUCHÂTEL

La micro-optique se développe au CSEM

Le projet européen PHABULOuS vient d'être lancé au CSEM. Il consiste a créer une ligne pilote autonome pour la fabrication de solutions micro-optiques de forme libre. Ces composants sont notamment utilisés dans les microécrans pour la réalité augmentée. **FAE**

Date: 09.04.2020

SWISS ENGINEERING
Revue Technique Suisse RTS

RTS

Swiss Engineering RTS
2830 Courrendlin
032/ 435 17 72
https://www.swissengineering.ch/zeits...

Genre de média: Médias imprimés
Type de média: Presse spécialisée
Tirage: 3'539
Parution: 8x/année

Page: 24
Surface: 87'387 mm²

Ordre: 1004007
N° de thème: 663.052

Référence: 78913268
Coupure Page: 1/3

La fabuleuse ligne de fabrication de micro-structures optiques

Dirigé par le CSEM, le consortium PHABULOuS rassemble les principaux acteurs, entreprises et organismes de recherche et de technologie (RTO) européens autour de la création d'une ligne pilote autonome pour la conception et la fabrication de solutions micro-optiques de forme libre. Ces composants seront intégrés dans des dispositifs à haute valeur ajoutée : micro-écrans pour la réalité augmentée, systèmes d'éclairage pour les professionnels, les secteurs de l'automobile et des transports, ou encore les effets optiques pour l'industrie du luxe.

Réunion de lancement du projet PHABULOuS à Neuchâtel.

Pour répondre aux besoins industriels urgents et à fort impact, le consortium PHABULOuS coordonnera ses efforts autour de progiciels d'analyses prédictives, d'outils et procédés de fabrication, de méthodes de caractérisation pour le contrôle qualité et de plans d'intégration ; autant d'éléments nécessaires à la réussite de la démonstration de cette technologie dans des séries de production pré-commerciales. Le projet européen PHABULOuS (Pilot-line providing highly advanced & robust manufacturing technology for optical free-form µ-structures, Ligne pilote fournissant une technologie ultra-pointue et robuste pour les microstructures optiques de forme libre) a été lancé au CSEM les 15 et 16 janvier 2020.

En raison de la croissance exponentielle du marché de la micro-optique au cours de la dernière décennie, il est impératif de fournir des composants optiques miniaturisés. Cette évolution va de pair avec un besoin croissant de structures micro-optiques de forme libre à même de relever les défis qu'exige le marché de la photonique durant les cinq à dix prochaines années.

La demande industrielle en micro-optique de forme libre est une réalité du marché. Toutefois, les obstacles liés à l'accès aux capacités de production pré-commerciales en Europe empêchent les entreprises, en particulier les PME, de mettre à profit cette technologie.

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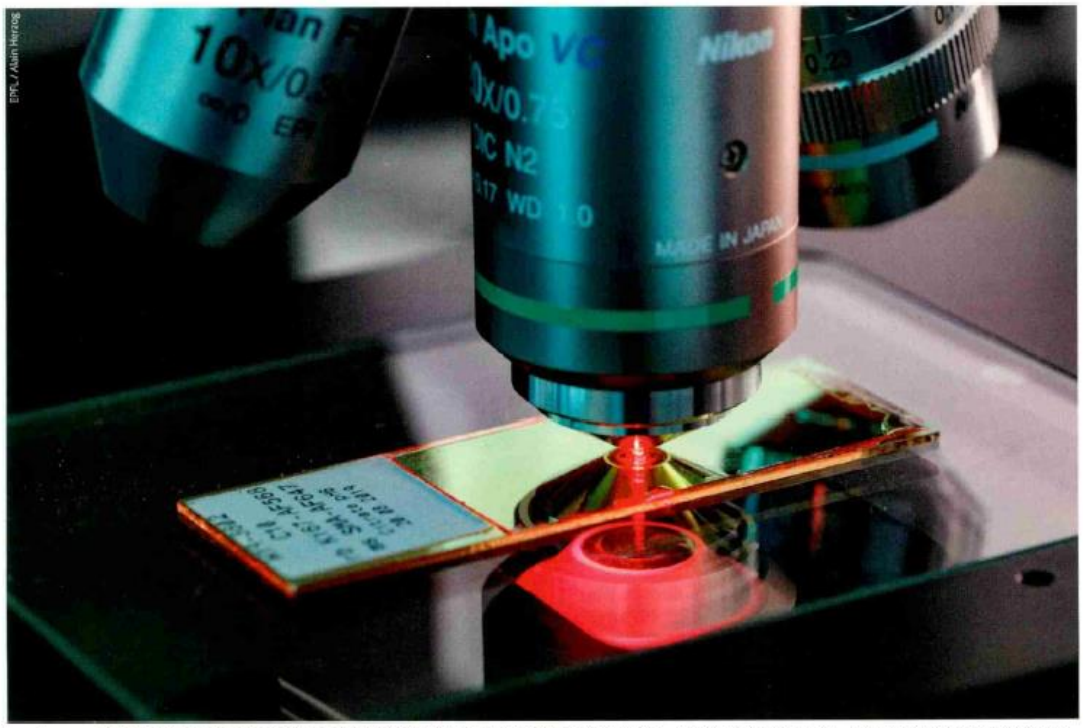
Optique et mesure

Le domaine de métrologie sous un nouvel angle est évoqué dans ce Dossier : les performances des mesures en micro-optiques deviennent de plus en plus poussées. Les systèmes de traitement de l'image de haute précision ont considérablement évolué aussi. Bref coup d'œil.



La microscopie à fluorescence repose sur la propriété physique qu'ont certaines molécules – appelées fluorophores – à émettre de la lumière à une certaine longueur d'onde (dite longueur d'onde d'émission).