



# Plan for the dissemination and exploitation of the project's results

POLYTHEA – Design and photo-optimization of Photosensitizer for Human Health and Food Security applications or "How light can save lives"

Deliverable 31 D3.4





# Project Summary

POLYTHEA – Design and photo-optimization of photosensitizers for human health and food security applications – or "How light can save life" – is a network gathering:

- 7 universities: University of Limoges (France), University of Amsterdam (Netherlands), Trinity College Dublin (Ireland), University of Neuchatel (Switzerland), Politechnika Wroclawska (Poland), University of Coimbra (Portugal), University of Saint Andrews (Scotland)
- 4 industrial partners: BET Solution (Greece), Selvita (Poland), Biolitec (Germany), PorphyChem (France)
- 1 research institute: INSERM (France)

The development of active compounds that can efficiently fight microbial infections and cancer are of upmost importance for food security and human health, two challenges for Europe. Tetrapyrrolic photosensitizers (PS) are good candidates to meet these expectations. The photo-excitable molecules induce cell death via the formation of reactive oxygen species (ROS) and present very low toxicity in the absence of light. They are already used in photodynamic therapy (PDT) for cancer or skin disease treatments or in photo-antimicrobial chemo-therapy (PACT). Unfortunately, the research and training are still largely fragmented in this field in Europe. Some scientific barriers have to be overcome to increase their efficacy, e.g. improvement of the excitation pathways, ROS production, specific cell targeting, Gram (-) bactericidal effect and prevention and/or eradication of biofilms.

The POLYTHEA consortium proposes to develop through 10 Early Stage Researcher (ESR) fellowships:

- (i) new tetrapyrrolic PS for various types of PDT applications including anti-cancer, antibacterial, anti-inflammatory and immune-activation, and to improve their photophysical and biological properties;
- (ii) innovative bio-inspired drug carriers or supports.

In parallel, a multidisciplinary and inter-sectorial training program is implemented through network events and secondments to non-academic partners. It provides a common background on PDT to the ESRs, equips them with transferable skills, trains them in problem solving and advance their career prospects.





# Participating organizations

### Beneficiaries









Politechnika Wrocławska





c ·



Trinity College Dublin Coláiste na Tríonóide, Baile Átha Cliath The University of Dublin

Partners















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#### **Abbreviations**

ESR: Early Stage Researcher PACT: photo-antimicrobial chemo-therapy PDT: Photodynamic Therapy PS: Photosensitizer ROS: reactive oxygen species





# Introduction

This document provides the plan for the dissemination and exploitation of results of the POLYTHEA project, deliverable 3.4. It describes the strategy to ensure that results and achievements of the project are transferred directly to audiences that might be interested and make use of them.

The promotion of the project's results must go beyond the project's lifetime and the countries involved, to insure the highest visibility and a long-term impact. A mainstream dissemination strategy is essential to raise awareness and invite debate with stakeholders and research groups throughout Europe and beyond.

Throughout the project, POLYTHEA consortium will be disseminating results to multiple audiences, using different channels and tools. The strategy will include both online and offline activities, to ensure the best visibility of the project's outcomes and activities.

The main expected outcomes comprise scientific publications addressing all aspect of photodynamic therapy: photosensitizer design, and thus if appropriate new synthesis methodologies; photo-physical studies and development of innovative ways of excitation of the PS; evaluation of the developed molecular systems on biological models (*in vitro* and *in vitro*), and state of the art reviews. Exchange of knowledge between partners as well as the development and strengthening of networks are also anticipated.

The main audience will be the scientific community (both academic and industrial), but also the public. The results will be disseminated through written publications, oral and posters communications as well as the project website.

The following document will describe in details the dissemination strategy, starting with the identification of the target audiences, then by the key messages and dissemination tools that will be used to spread the results and reach the audiences. The last section will be dedicated to the monitoring indicators of the dissemination results.





The basis for a successful communication and dissemination strategy is the identification of the target audiences and their specific needs, followed by choosing the appropriate tools to reach that goal.

# 1. Target audiences

#### 1.1. Early Stage Researchers and Supervisors

All the project results will be of special interest for all the ESRs and supervisors involved in the project. The results will be shared mainly during the training schools, in which ESRs will be asked to present their work and results.

All our ESRs are co supervised by at least 2 members of the consortium, thus knowledge and results transfer will occur when ESRs move from one university to the other.

#### 1.2. International Advisory Board

The members of our International Advisory Board are specialized in PDT or in international networking and relationship. Their mission is to advise the Supervisory Board both on scientific matters and on the implementation of the project. They will be informed through the project medias and newsletters, and invited to attend training events and supervisory board meeting.

#### 1.3. Club of Applied Interest/Industry

SMEs, Industry partners, medical and research centers as well as clusters are members of our Club of Applied Interest, in 5 of the countries involved in the consortium (France, The Netherlands, Poland, Portugal and UK). Their interest lies mainly on the project results and achievements, that are expected to be: support further developments of some exploitations as first aid, self-sterilizing surfaces, and new treatments. These results will be shared during the local training events and through the newsletters.

The staff of industrial partners will also benefit from the academic knowledge transfer especially during the research and training secondments.

#### 1.4. Scientific community

The scientific community has a special interest in the outcomes of the project, as it offers a great exchange of knowledge for both young scientists and experienced researchers from academia and industry.

The project will provide an extended academic and industrial training for our Early Stage Researchers (ESR), and is an excellent opportunity to enhance their career perspectives. This target audience will be interested in the specific scientific outcomes, advances, implications for improvement on all aspects of photodynamic therapy.

#### 1.5. Public society

Reaching the general public is essential, both for the promotion of research and to increase awareness of European funding. It can also help to enhance the interest of young students for technical and scientific studies and spread PDT knowledge to scientists working in other areas. This audience will be reached through the website, social media and the biannual newsletter.





#### 1.6. EU policy makers and agencies

This wide audience will be interested in results and will be reached through the multidisciplinary nature of the consortium, mainly through the project website and social media.

# 2. Expected outputs

The expected key messages addressed to the different targeted audiences are summarized as follows:

Work Package (WP)	Expected outputs
WP2 – Recruitment and Supervision	Website
of ESR – Training	Social media
	<ul> <li>Supports of the provided courses</li> </ul>
WP3 – Communication, exploitation	<ul> <li>Update of the project website and social</li> </ul>
of results and innovation to market	media, especially with the list of
	publications, posters and main results
	<ul> <li>Redaction and diffusion of the project nowslatter</li> </ul>
	<ul> <li>Open access publications on-line</li> </ul>
	• Open access publications on-line
WP4 – Photosensitizer Design and	Scientific publication
Formulation	Oral and poster communications
	Members of the consortium participation in
	congress
	Patents
WP5 – Photo-optimization	<ul> <li>Scientific publication</li> </ul>
	<ul> <li>Oral and poster communications</li> </ul>
	Members of the consortium participation in
	congress
WP6 – Inter-sectorial applications	Scientific publication
(human health and food security) –	Oral and poster communications
in vitro level	Members of the consortium participation in
	congress
M/D7 Inter costs vial and lighting	Patents
(human health and food cocurity)	Scientific publications
(numan nealth and food security) –	Ural and poster communications
	<ul> <li>iviembers of the consortium participation in congress</li> </ul>
	congress • Datants
	• Patents

Table 1: Expected	outputs per	work package
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All of them will be of interest for the scientific community, both in academia and industry. The general society will be more interested in general project information.





**WP2** focuses on the recruitment, training and supervision of the ESRs. The main output will be, in addition to advertising for event on website and social media, the supports of the provided courses. They will be available for all registered people to the thematic school and on demand. They can be of interest for the scientific community. The training programme and organization can interest other EU funded projects and the Research Executive Agency.

**WP3** is in charge of the communication and dissemination of the project results. The main ouput will be the regular update of all the project's medias and the vulgarization of the project's results through videos or general public events. WP3 produced a video of presentation posted on the home page of the website, and the project is present in large-scale events like the European Researchers Night. A newsletter is send twice a year to the subscribers, the members of the IAB and club of applied interest.

**WP4** focuses on the synthesis and the optimization of photosensitizers for applications in PDT. This entails the development of appropriate syntheses for targeting, bio-conjugation strategies as well as multi-photon absorption properties enhancement. Formulation studies will be also addressed in this work package. The main output will be scientific publications and oral/poster communications toward the scientific community. Patent can also be expected, in particular transfer for large scale synthesis to industrial partner involved in the consortium and/or to newly created spin-off.

**WP5** focuses on the optimization of photophysical properties of the compounds synthesized in WP4 and for all applications described in WP6 and 7. The main output will be scientific publications and oral/poster communications toward the scientific community.

**WP6** is in charge to explore in vitro PDT for different applications in human health (cancer, arthritis and microbial-associated diseases) and for a better control of food security. The main goal of WP6 is to take advantage of PS designed and synthesized in WP 4 to develop PDT-based products that might be further patented and commercialized.

**WP7**, in line with WP6, is in charge to explore PDT for different applications in human health (cancer, arthritis) but at the pre-clinical stage.

These two last WP are thus the most applied and therefore the main expected outputs will be, in addition to scientific publications and oral/poster communications toward the scientific community, patents and/or spin-off creation.





# 3. Dissemination tools and monitoring

To ensure the best dissemination, several tools are and will be used throughout the lifetime of the project and after.

#### 3.1. Logo

A project identity set has been developed, as defined in deliverable 3.1 submitted in March 2018. It includes an identifiable logo (Figure 1), used in all communications, including the website and social media.



Figure 2: POLYTHEA logo

#### 3.2. Website

#### 3.2.1. POLYTHEA

The website opened in February 2018 under the address <u>http://www.polythea.eu/</u>. It's updated by the project manager and contains information about the project's objectives, the partners and the people involved (ERSs and supervisors). The events and updates on the results are regularly inserted under the news section. The upcoming events, organized by the consortium or the planned conferences are announced under the "Agenda" section.

The home page (Figure 2) hosts the video of presentation, for an easy access to all audiences.

A section is dedicated to all the publications, posters and newsletters, to ensure rapid access, and the best dissemination.

All the presentations from the training events are posted under the "Training events" section. The top part of the website provides the toolbar (Figure 3), as well as the links to the social media.

The lower part (Figure 4) refers to the funding and provides an easy access to the contact form. We chose to post the Marie-Sklodowska Curie presentation video, to inform the public about the funding and ensure an ideal visibility.

#### Target audience: all audiences

**Monitoring:** since the opening, the website received nearly 7603 visits from all over the world (Figure 6). The main entry is through the "Individual Research Project" section, presenting all





the ESRs involved in the project (Figure 6). The links are posted on the social media whenever there is a news involving one of the ESRs.



It is a network gathering 7 universities, 4 industrial partners and 1 research institute, for the training of young researchers in the field of photodynamic treatments. The goal is to develop new active compounds that can efficiently fight microbial infections and cencer, two main challenges for flood security and human health.

Video Credit: Emilie Mote and Canel Sup

Website : http://emiliemote.fr/mon-entreprise/ - http://www.unilim.fr/cenalsup/

Portfolio : http://emiliemote.fr Facebook : https://www.facebook.com/EmilieMotaCom - https://www.facebook.com/unilim.canalaup

#### News Agenda > Tous les événements 15 juillet > 19 juillet 2019 4TH PHOTODYNAMIC DAY-GTU Photodynamic Therapy Intersectorial School > Photodynamic Day Günlük Top-Level Uluslararası Bir Kongredir 19 iunifet 2019 3rd Supervisory Board Meeting 🖌 5 Farkte Like n 6 Dəvetli Konuşməcı Geliyor! 25 août > 30 août 2019 2019 ESP-IUPB World Congress > 27 septembre 2019 European Researchers Night > GEBZE xsite.com/4th-2019 · All the news Register to our Newsletter I

Figure 3: Home page of the POLYTHEA website









Figure 4: Website's toolbar



Figure 5: Website's lower part





PAYS	<ul> <li>VISITES</li> </ul>	ACTIONS	ACTIONS PAR VISITE	TEMPS MOYEN SUR LE SITE	TAUX DE REBOND
France	1 482	5 003	3,4	3 min 17s	42 %
Irlande	602	2 712	4,5	3 min 36s	29 %
🎫 États-Unis	584	1 465	2,5	1 min 26s	64 %
🔳 Allemagne	511	1 121	2,2	1 min 27s	69 %
Portugal	421	1 804	4,3	3 min 5s	33 %
🏢 Royaume-Uni	374	1 297	3,5	2 min 8s	39 %
Pologne	354	1 318	3,7	3 min 12s	39 %
💶 Inde	298	888	3	3 min 11s	50 %
🛅 Grèce	230	809	3,5	3 min 52s	50 %
🚺 Italie	229	660	2,9	2 min 55s	53 %
7 Inconnu	223	552	2,5	1 min 58s	56 %
Pays-Bas	220	1 007	4,6	3 min 27s	35 %
🚾 Espagne	188	656	3,5	2 min 49s	41 %
🔯 Turquie	155	334	2,2	1 min 11s	64 %
Suisse	149	666	4,5	3 min 19s	38 %
🔤 Chine	122	329	2,7	4 min 6s	58 %
📑 Ukraine	105	150	1,4	1 min 4s	87 %
Tunisie	86	144	1,7	1 min 7s	71 %
💳 Iran	83	298	3,6	3 min 26s	37 %
Arabie saoudite	79	295	3,7	3 min 33s	25 %
📕 Belgique	75	230	3,1	2 min 22s	41 %
📕 Russie	71	224	3,2	2 min 52s	61 %
🚺 Roumanie	70	293	4,2	3 min 9s	30 %
Pakistan	69	210	3	3 min 23s	30 %
Mexique	57	128	2,2	52s	23 %

*Figure 6: top 25 of the visiting countries* 







Figure 7: Individual Research Projects section

#### 3.2.2. Partner universities websites

Some partner universities relay important information on their respective websites, such as:

- Project notification on the University of Amsterdam website: <u>https://hims.uva.nl/content/news/2018/03/light-activated-molecules-to-fight-cancer-and-infection.html?1559563419772</u>
- Project summary on the University of Neuchâtel website : https://libra.unine.ch/Projets/Projets-en-cours/37495
- Dr. Stéphanie Lhez's interview after the grant notification on the University of Limoges website : <u>https://www.unilim.fr/recherche/2017/09/18/polythea-sauver-des-vies-grace-a-la-lumiere/</u>
- Project notification on the Bioemtech's website: <u>http://bioemtech.com/new-h2020-project/</u>
- Project notification on the Trinity College Dublin's website: <u>https://www.tcd.ie/news\_events/articles/new-project-will-develop-light-activated-</u> <u>molecules-to-fight-cancer-and-infection/</u>

Target audience: all audiences, general public, staff and students of the partner institutions

**Monitoring:** regular visits to the partner websites





#### 3.3. Social media

A Facebook POLYTHEA (<u>https://www.facebook.com/Polythea-156201398370711/</u>) and a Twitter (@POLYTHEA1) accounts have been created in February 2018. They are updated by the project manager and relay different kind of information: training events, conferences, publications, and any news concerning the ESRs or the supervisors.

Both medias are updated at the same time, and have mostly the same content.

The ESRs created and administer their own Facebook Page Polythea – MSCA Fellows (https://www.facebook.com/Polythea-MSCA-Fellows-340845290042759/?epa=SEARCH\_BOX). They publish their own content and relay the Polythea Page posts. For 2019, they chose to organize a communication on the periodic table elements to celebrate the International Year of the Periodic Table.

Dr Stéphanie Lhez, as coordinator, created a Research Gate page dedicated to the project <u>https://www.researchgate.net/project/POLYTHEA-How-light-can-save-life</u>. Supervisors and ESRs update it on a regular basis, and log on news on publications or advert the training events.

Audience:

Twitter:	consortium members, scientific community, EU institutions and monitoring agencies, other H2020 projects, general public				
Facebook Page POLYTHEA:	ESRs, EU institutions and agencies, other H2020 projects, general public, ESRs friends and family				
Facebook Page Polythea – MSCA Fellows:	ESRs, EU institutions and agencies, other H2020 projects, general public, ESRs friends and family				
Research Gate POLYTHEA – How light can save lives	ESRs, consortium members, scientific community				

#### Monitoring (30/06/2019):

Twitter:	65 tweets, 48 following, 58 followers, 219 likes
Facebook Page	35 followers, 28 likes, 28 publications
POLYTHEA:	
Facebook Page Polythea –	55 followers, 54 likes, 25 publications
MSCA Fellows:	
Research Gate POLYTHEA	15 followers, 296 reads
– How light can save lives	





#### 3.4. Scientific publications

The results will be disseminated to the scientific community through detailed articles to be published in well-established scientific journals, such as Chemistry Select, Frontiers in Chemistry, Photochemical & Photobiological Sciences or Dalton Transactions. All ESRs are required to have a peer-review publication to be authorized to defend their thesis.

**Target audience:** scientific community in academia and industry

**Monitoring:** currently, 4 publications have been accepted, and 3 of them are available in Open Access via OpenAire (see summary below, Table 1)

Partner organisation	Author	Title	Publisher	Year of publicati on	DOI	Link	
TCD	Susan Callaghan and <b>Mathias O. Senge</b>	The good, the bad, and the ugly - controlling singlet oxygen though design and photosensitizers and delivery systems for photodynamic therapy	Photochemical & photobiological Sciences	2018	10.1039/C8PP00 008E	https://pubs.rsc.org/en/content/ar ticlelanding/2018/pp/c8pp00008e/ unauth#!divAbstract	
UNILIM/UvA	G. Marchand, C. A. Calliste, <b>R. M. Williams</b> , C. McLure, <b>S. Leroy-</b> <b>Lhez</b> and N. Villandier	Acetylated Lignins: A potential bio sourced photosensitizer	ChemistrySelect	2018	10.1002/slct.201 801039	https://hal-unilim.archives- ouvertes.fr/hal-02083664	
TCD/Biolitec	C. S. Gutsche, S. Gräfe, B. Gitter, K. J. Flanagan, <b>M. O. Senge</b> , N. Kulak and <b>A. Wiehe</b>	Pre-/post-functionalization in pipyrrin metal complexes - antitumor and antibacterial activity of their glycosylated derivatives	Dalton Transactions	2018	DOI:10.1039/C8D T03059F	https://pubs.rsc.org/en/content/ar ticlelanding/2018/dt/c8dt03059f#!d ivAbstract	
UNINE	Bruno Therrien	The role of second coordination sphere in the biological activity of arene ruthenium metalla- assemblies	Frontiers in Chemistry	2018	10.3389/fchem.2 018.00602	https://www.frontiersin.org/articl es/10.3389/fchem.2018.00602/full? &utm_source=Email_to_authors_& utm_medium=Email&utm_content =T1_11.5e1_author&utm_campaign =Email_publication&field=&journal Name=Frontiers_in_Chemistry&id= 432637	

Table 1: Summary of the POLYTHEA publications

#### 3.5. Conferences and Events

Conferences allow the presentation of the project results to a specialized audience, promote exchange of knowledge and bring POLYTHEA project publicity among experts, institutions and local media. The project partners, ESRs and supervisors will present the outputs through oral presentations or posters at international conferences, workshops or training events.

Target audience: scientific community in academia and industry, stakeholders, EU policy makers

**Monitoring:** oral and poster presentations made at conferences, workshops or training events are summarized in table 2 (cf communication report deliverable 30 - D3.3)





Partner organisatio 🔻	Author/presenter	Activity type	Title/Nature	Event / source name		roun Size of audienc -	Date/period	Venue/Place
TCD	Prof. Dr. Mathias O. Senge	invited lecture	Light on, light off - Phototherapy in the dark	26th lecture conference on Photochemistry, GDCh, FG Photochemie	Scientist	200+	10/09/2018	Munich (Germany)
TCD	D Zoi MELISSARI (ESR presentation short presentation/introduction to the group		TCD group meeting	Scientist	20+	17.10.2018	Dublin (Ireland)	
TCD	Zoi MELISSARI (ESR 2)	presentation	advancement of the work	TCD group meeting	Scientist	20+	23.01.2019	Dublin (Ireland)
TCD	Zoi MELISSARI (ESR 2)	presentation	short presentation of the work done	TCD group meeting	Scientist	20+	11.03.2019	Dublin (Ireland)
UNILIM	Nidia MALDONADO CARMONA (ESR 7)	presentation		Presentation for Turgot High School Limoges	High School Students	20	18/03/2019	Limoges (France)
UNILIM	Dr Stéphanie LHEZ	presentation		Presentation for Turgot High School Limoges	High School Students	20	18/03/2019	Limoges (France)
UC	Claire DONOHOE (ESR 6)	praticals/dem onstrations	Demonstration of basic chemistry experiments to high school students	Escola Molecular	High School Students	34	Feb-March 2019	Coimbra (Portugal)
UNILIM	Emma ROBBINS (ESR 1)	presentation	Development of optimized multi-photon absorption photo- sensitizer.	PhD Day - Doctoral School 614	PhD Students and Doctoral School	20	01/04/2019	Poitiers (France)
UNILIM	Bhavya KHURANA (ESR 5)	presentation	Synthesis of photosensible hydrogel for photo- antimicrobial applications.	PhD Day - Doctoral School 614	PhD Students and Doctoral School	20	01/04/2019	Poitiers (France)
UNILIM / Gebze Technical University (Turkey)	Dr Stéphanie LHEZ	presentation	Using lignin for Antimicrobial PhotoDynamic Treatment	4th GTU Photodynamic Day	PDT scientific community	50+	25/04/2019	Gebze (Turkey)
TCD	Zoi MELISSARI (ESR 2)	presentation	presentation of work	TCD group meeting	Scientist	20+	30.04.2019	Dublin (Ireland)
BIOEMTECH	Dr Sofia SARPAKI	poster	Design of Photo-optimisation of photosensitizer for human health and food security application of "How Light can save Livesé - An Innovative Training	ELEVIT Conference	Stakeholders and peers	100+	9-10/05/2019	Athens (Greece)
UNILIM	Emma ROBBINS (ESR 1), Bhavya KHURANA (ESR 5) and Nidia MALDONADO- CARMONA (ESP 7)	attendance	Utilisation de molécules naturelles en santé humaine	Doctoral seminar - Doctoral School 614 Theodore Monod	PhD Students and Doctoral School	50+	18-19/06/2019	Poitiers (France)

Table 2: Oral presentations, posters and attendance at scientific workshops and conferences

ESRs and some supervisors are also selected for oral presentations and posters at the European Society for Photobiology international conference in August 2019 in Barcelona and to the IPA meeting in Boston in July 2019.





#### 3.6. POLYTHEA training events

During the project, training events will be organized, in the form of training schools and web conferences. They will be a vector to knowledge transfer within the consortium and beyond.

**Target audience:** scientific community, ESRs and supervisors, PhD students from the partner institutions and outside the consortium.

Monitoring: 2 training events have been organized and are listed below.

# Selection School – MedChem Train Frontiers in Medicinal Chemistry – Penela, 18-22 June, 2018

The University of Coimbra organized the first training event, at the time of recruitment and selection of the candidates. 15 applicants for the ESR positions were invited to attend the entire week, and were auditioned (Figure 8).



Figure 8: Candidates at the Selection School and supervisors

#### Webex on Labfolder

The goal was to show all the functions of Labfolder, used by the consortium to follow the work of the ESRs during their rotations.

#### Basic Package Interdisciplinary School – University of Coimbra, November 26<sup>th</sup>-30<sup>th</sup>, 2018

The University of Coimbra organized the first winter school in the Chemistry department, just after the Mid-term check organized with our project officer. All lectures were made by consortium members, partners and exterior speakers, and focused on photosensitizers synthesis, photophysics, photomedicine but also on transversal skills (Figure 9).







Figure 9: picture of the ESRs, supervisors and speakers of the winter school

#### Webex on SciFinder

The goal was to explain to all the ESRs how to use the tools provided by most universities of the consortium.

The quest for perfect photosensitizers – An exciting challenge" by Dr Fabienne Dumoulin from Gebze Technical University, Turkey

Dr Dumoulin offered a lecture while in staff mobility at the University of Limoges.

The next training event, "Photodynamic Therapy Intersectorial School" is organized by the University of Limoges and will be held from July 15<sup>th</sup> to 19<sup>th</sup> in Limoges.

#### 3.7. Press and Media

Members of the consortium intent to disseminate information about the results to a large public of experts and non-experts through the media.

#### Target audience: all audiences

**Monitoring:** the following list provides an overview of the articles published since the beginning of the project

- Article in the regional journal of Limoges after the grant notification: <u>https://france3-regions.francetvinfo.fr/nouvelle-aquitaine/haute-vienne/limoges/phototherapie-universite-limoges-pilote-projet-europeen-1336039.html</u> France 3 Limousin, 27/09/2017
- Article in Limousin Université, local printing at University of Limoges, page 21: https://ucloud.unilim.fr/public/635d31
- Article in the local journal Le Populaire du Centre : <u>https://www.lepopulaire.fr/limoges-87000/actualites/ces-projets-que-l-universite-</u> <u>de-limoges-n-aurait-pas-pu-porter-sans-l-europe 13561572/</u>, 16/05/2019

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Plan for the dissemination and the exploitation of the project's results