

# LIFE-ADVICLIM project: Communication and Dissemination Activities

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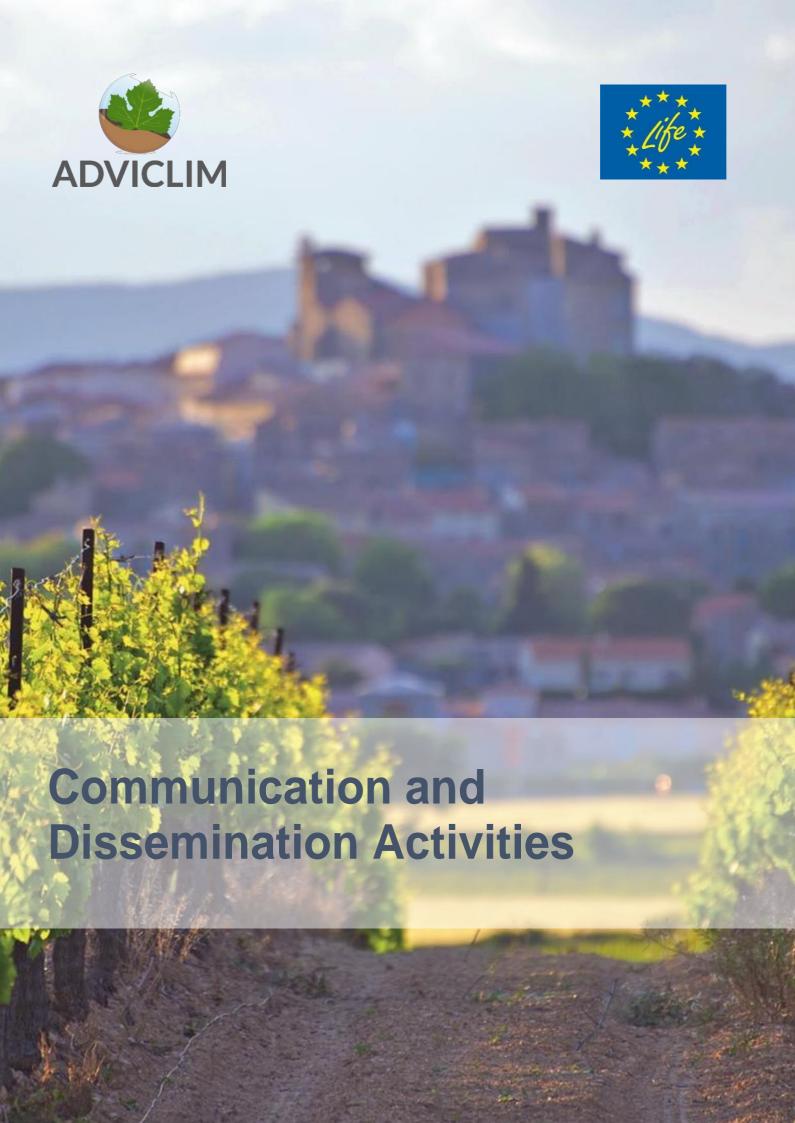
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# **Communication and Dissemination Activities**

#### **A**UTHORS

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The guidance manual can be found at http://www.adviclim.eu/
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### **FOREWORD**

Across the earth, there is growing evidence that a global climate change is taking place. Observed regional changes include rising temperatures and shifts in rainfall patterns and extreme weather events. Over the next century, climate changes are expected to continue and have important consequences on viticulture. They vary from short-term impacts on wine quality and style, to longterm issues such as varietal suitability and the economic sustainability of traditional wine producing areas. As a result, the wine industry is facing many challenges, which includes adapting to these potential impacts, as well as reducing greenhouse gas emissions related to their activities.

In response to these challenges, the LIFE-ADVICLIM project has the objective to evaluate and develop local climate change

adaptation and mitigation strategies. The measurement network and web platform of this project seeks to inform and assist winegrowers on climate change impacts, on rational adaptation scenarios and on greenhouse gas emissions related to their practices at the scale of their vineyard plots. These technologies are evaluated in many European wine growing regions (Figure 1), namely Bordeaux and Loire Valley (France), Sussex (England), Rheingau (Germany), Cotnari (Romania) and Navarra/La Rioja (Spain). These six regions represent the climatic diversity of European wine, from the Mediterranean Oceanic and Continental climates.

For more information on this project, visit <u>www.adviclim.eu</u>.

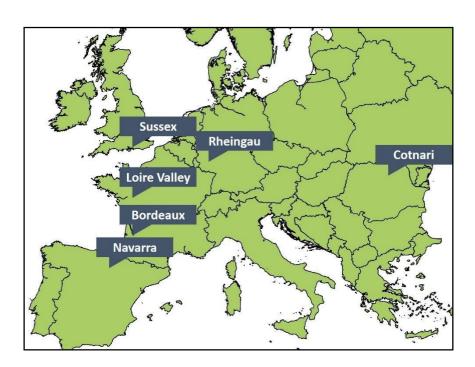


Figure 1: Position of the six European wine growing regions that are studied in the LIFE-ADVICLIM project.

## INTRODUCTION

Within the LIFE-ADVICLIM project, action D2: Communication and Dissemination Activities was intended to ensure a wide dissemination of the project findings to the following target groups: wine professionals, local authorities, academics and the general public. All the actions undertaken were aimed at achieving this objective. Our communication strategy was based on the use of communication tools in order to disseminate findings to the target groups aforementioned and reinforce networking among LIFE projects. In addition to this, dissemination actions towards scientific community were carried out such as: conferences, publications, seminars and workshops. Members of the project also made appearances in several medias: Tv, Radio, Internet, newspapers and science/wine magazines. This deliverable will summarize all of them and must be perceived as an attempt of reporting what have been achieved since the beginning of the project in 2015.

It contains all of the communication tools we managed to create as well as an evaluation of their impact.

# **SUMMARY**

| Communication and dissemination Actions                                                                                                     | Achieved results                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| Web site:  Number of visitors  Link to partners and stakeholder's websites                                                                  | 10 000<br>32                                       |
| Leaflet                                                                                                                                     | 4 languages (English, French, German and Romanian) |
| Project presentation at international level                                                                                                 | Project presentation in English                    |
| Newsletters                                                                                                                                 | 7                                                  |
| Notice Boards                                                                                                                               | 15                                                 |
| Social network: Twitter                                                                                                                     | 1 075 followers/165,5K impressions                 |
| Video report                                                                                                                                | 4                                                  |
| Networking (participation in workshops with other LIFE projects)                                                                            | 4                                                  |
| Annual meetings, National workshops and professional days on pilot sites                                                                    | 9                                                  |
| Organisation of International conference                                                                                                    | 2                                                  |
| Dissemination toward scientific community Publications (scientific journal, book,) Conferences Colloquia and seminars (with seminar papers) | 26<br>62<br>35                                     |
| Scientific workshops                                                                                                                        | 8                                                  |
| Media TV/Radio report                                                                                                                       | 10                                                 |
| Documentary                                                                                                                                 | 2                                                  |
| Internet                                                                                                                                    | 10                                                 |
| National and international magazine                                                                                                         | 10                                                 |
| Local, regional and national newspaper                                                                                                      | 22                                                 |
| Story Map                                                                                                                                   | All pilot sites                                    |

## **COMMUNICATION TOOLS**

The graphic guidelines of the project were defined in January 2015 in order to give the project a visual identity. Since then, all of the communication tools created follow these guidelines with the intention of an harmonized communication.

Several communication tools have been created to inform the public, the wine profession and stakeholders.

- The website (<u>www.adviclim.eu</u>) informs the target public about the objectives of the project, the consortium (presentation of the partnership, role of each partner, partners' websites), the methodologies developed, results, news, announcements of events. Key documents for the public are also downloadable (presentations, brochures, deliverables, ...). The project and the different work packages have been translated into 4 languages (French, English, German and Romanian). A "Networking" section provides regular updates on collaborations with other LIFE projects and stakeholders (Figure 2). The total number of users as been established at 10 000 between 2015 and 2020 (Figure 3).
- A general presentation of the project with a 14-page Power Point.
- A leaflet, a poster and a Kakemono have been produced to present the objectives and partners of the project (Figure 4).
- 15 notice boards were installed at each pilot site (Figure 5 and 6).
- Social media: @LifeAdviclim on Twitter. More than 1 075 followers (Figure 7).
- Newsletters were produced and disseminated to stakeholders in order to give an overview of the progress of the project and news (events, results...) (Figure 8).
- Video reports introducing each action of the LIFE-ADVICLIM project (Figure 9).
   They are host on the french wine institute Youtube channel: VignevinFrance.
- The LIFE-ADVICLIM Story Map has been built in order to illustrate all the phases of the project. The Story Map is an interactive mapping tool. This pedagogical tool has been used during meetings with winegrowers and stakeholders (Figure 10).

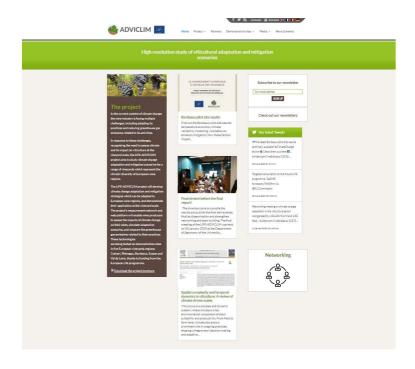


Figure 2: LIFE-ADVICLIM project website

| Website data              | From the 01/10/2015 to the |
|---------------------------|----------------------------|
| Website data              |                            |
|                           | 30/04/2020                 |
|                           |                            |
| Number of sessions        | 13943                      |
|                           | 127.2                      |
|                           |                            |
| Number of users           | 9099                       |
| rumber of users           | 7077                       |
| Average time spent on the | 00:03:04                   |
|                           | 00.03.04                   |
| site                      |                            |
| Total number of page seen | 47 080                     |
| Total number of page seen | 47 000                     |
|                           |                            |
| Average of page seen      | 3,38                       |
|                           | -,                         |
| during one session        |                            |
|                           |                            |
| Dt - Ci-it                | 06.4.0/                    |
| Percent of new visitors   | 86,4 %                     |
|                           |                            |
|                           |                            |

| Geographical origin of the ten top users (by number of session) | France         | 5 707 |
|-----------------------------------------------------------------|----------------|-------|
|                                                                 | United States  | 1 082 |
|                                                                 | United Kingdom | 1 053 |
|                                                                 | Romania        | 572   |
|                                                                 | Spain          | 524   |
|                                                                 | Germany        | 476   |
| number of session)                                              | Russia         | 449   |
|                                                                 | Italy          | 427   |
|                                                                 | New Zealand    | 370   |

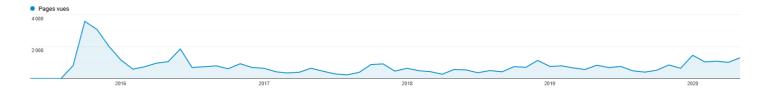


Figure 3: LIFE-ADVICLIM website: Audience overview, audience locations and pages seen.



Figure 4: LIFE-ADVICTIM leaner



Figure 5: Notice Board of Saint Emilion/Pomerol











Figure 6: Notice Boards installed on the pilot sites: a- Cotnari; b-Geisenheim; c-Saint Emilion/Pomerol; d- Rock Lodge; e- Loire Valley.

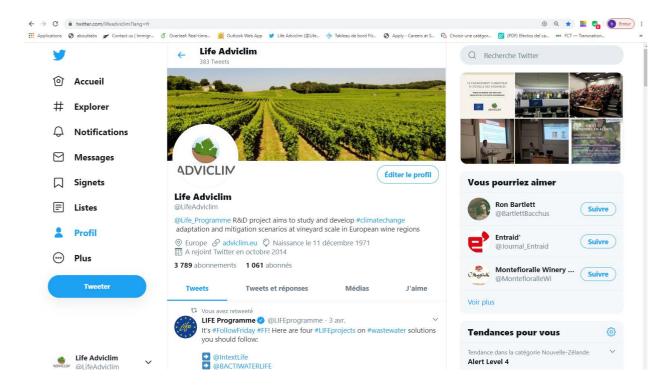


Figure 7: @LifeAdviclim on Twitter: 1 075 followers and 165,5K impressions





Figure 8: LIFE ADVICLIM Newsletters n°3 and 5

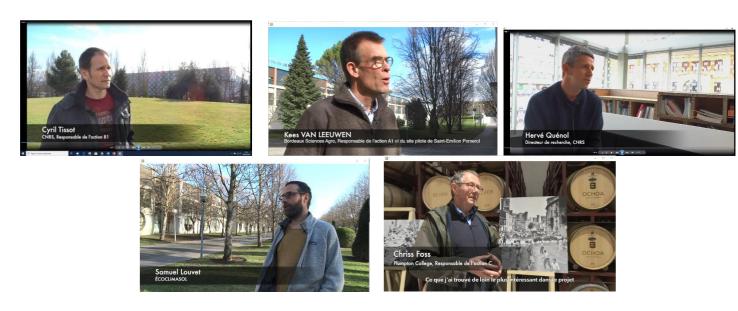


Figure 9: Video report describing each Action of the LIFE-ADVICLIM project

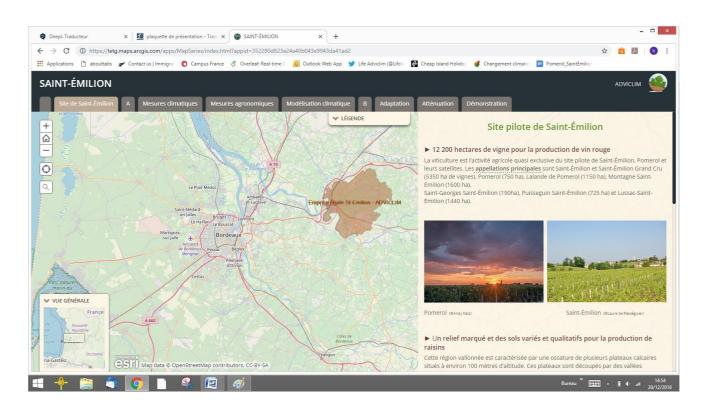


Figure 10: Example of the Story Map for Saint Emilion/Pomerol pilot site

#### **N**ETWORKING

Networking has been developed with others LIFE, H2020 and ER4CS European projects and different stakeholders (local, national and international).

The networking strategy was implemented by:

- Social media: more than 80 followers in ADVICLIM Twitter from European projects (+50 from LFE projects; +30 from H2020 and ER4CS projects (Figure 11).
- A private stakeholder's matrix: an excel file available in the adviclim.eu private section that contains information from all of the project partners: name, specific interest on the project, social media accounts, person from the represented organization to contact.
- Networking section in Websites: our main partners and stakeholders are presented in the Networking section of the website. The LIFE-ADVICLIM project is also listed on the websites of other LIFE projects (Figure 11).
- Newsletters: an article of the ADVICLIM newsletter n°6 is dedicated to the networking adviclim's site section (Figure 8) and newsletter n°6 of the LIFE project Vineyard4heat mention the ADVICLIM project.
- Participation and organisation of workshops/seminars with other LIFE projects (Figure 12). During the LIFE-ADVICLIM final meeting, a Networking meeting on climate change adaptation in the viticulture sector co-organised by LIFE ADVICLIM and LIFE NAdapta. Participation of LIFE-ADVICLIM, LIFE-PRIORAT-MONSANT, LIFE-SARMIENTO, LIFE-CLIMAVIT21, LIFE-NAdapta, POCTEFA VITISAD and POCTEFA VITES QUALITAS projects (Figure 13).















a)











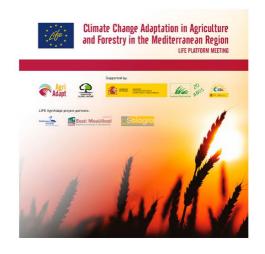






b)

Figure 11: European projects partners of the LIFE ADVICLIM project (a) and examples of international, national and local stakeholders (b).



Mr. Luis Gonzaga Santesteban (LIFE ADVICLIM) presented the project "Adaptation of Viticulture to Climate change: High resolution observations of adaptation scenarios for viticulture" - LIFE ADVICLIM. He first explained how crop failure (with also implications on wine quality) in specific vineyard areas

of Spain is possibly related to the unsuitability of the currently used vine varieties and pruning systems, and to the selection of inappropriate plantation sites, which are increasingly affected by climate change. Therefore, the project is investigating the possibility to re-introduce traditional and indigenous vine varieties which typically show higher adaptation potential to local dry conditions. Also, new tree training systems are being investigated, while taking into account the farmers' traditional knowledge. The project will then develop tools and climate models to



identify the best responses to mitigate and locally adapt to the impact of climate change in Mediterranean vineyards.

a) LIFE Platform Meeting on Climate Change Adaptation in Agriculture and Forestry in the Mediterranean Region Madrid, 13-14 March 2018



Jornada de Networking con el LIFE ADVICLIM y LIFE PRIORAT+MONSANT

JUNIO 4, 2018

El día 31 de mayo, tuvo lugar en Bullas la jornada de networking con los proyectos LIFE de vitivinicultura LIFE ADVICLIM y LIFE PRIORAT+MONSANT...

leer más

**b)** LIFE SARMIENTO in Bullas (Spain), 31<sup>st</sup> May 2018: LIFE Networking Day Adaptation of Viticulture to Climate Change. Networking day with LIFE SARMIENTO, LIFE PRIORAT+MONSANT and LIFE-ADVICLIM

Figure 12: Participation of the LIFE-ADICLIM project in Networking days.



# Networking meeting on climate change adaptation in the viticulture sector coorganised by LIFE ADVICLIM and LIFE NAdapta

#### 11-02-2020

On occasion of the LIFE ADVLICUM final meeting held in Navarra between de 28th and 30th January 2020, a networking session was organised in collaboration with LIFE NAdapta (Agenda). The meeting gave the opportunity to present the participant projects on climate change adaptation in the agricultural sector, and more specifically in the viticulture sector (LIFE ADVICUM, LIFE PRIORAT-MONTSANT, LIFE SARMIENTO, LIFE MEDACC, LIFE EBRO-ADMICLIM, LIFE MIDMACC, LIFE CLIMAVIT 21, LIFE NAdapta, POCTEFA VITISAD, POCTEFA VITES QUALITAS) to the 35 attendants. Adaptation and mitigation strategies and impact indicators were discussed among participants and experiences and best practices were shared in 3 round tables.

#### Presentations:

- LIFE ADVICLIM, Hervé Quénot
- LIFE PRIORAT-MONTSANT, Mario de la Fuente
- LIFE SARMIENTO, Meissa García
- LIFE CLIMAVIT21, Xavier Aranda y Felicidad de Herralde
- LIFE NAdapta, Delia Sola
- POCTEFA VITISAD, Ana Aizpurúa
- POCTEFA VITES QUALITAS, Gonzaga Santesteban y Diana Marin

Pictures of the meeting are available in the Pictures Gallery

https://lifenadapta.navarra.es/en

NOTICIAS

Figure 13: Networking session organised in collaboration with LIFE NAdapta during the LIFE ADVLCIM final meeting, Pampelona (Spain) on the 29th of January 2020.,

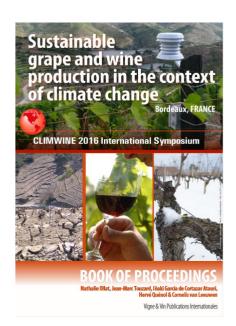
#### WORKSHOPS AND MEETINGS

Several workshops and meetings were held during the project. The aim of these events was to show the progress of the project but also to present the tools and results to wine professionals and stakeholders. Workshops with the winegrowers of the pilot sites were also organised in order to build our models and to validate our results. These meetings with winegrowers were very important, particularly for developing climate change adaptation scenarios. The LIFE-ADVICLIM project team also participated in the organization of scientific symposia and the final meeting that took place in Pamplona from 28 to 30 January 2020.

- Annual consortium meetings at each pilot site: Kick-off meeting in Rennes (France) on the 21<sup>st</sup>-22<sup>nd</sup> July 2014; Brighton (UK) on the 15th & 16th of June 2015; Bordeaux (France) on the 14<sup>th</sup> & 15<sup>th</sup> 2016; Geisenheim (Germany) on the 18th and 19th of May 2017; on 6 and 7th of September 2018 lasi (Romania). These annual meetings made it possible to visit the various pilot sites and, in some cases, to meet the winegrowers involved in the project.
- National workshops and professional days were held on several pilot sites. In France, these workshops were conducted in collaboration with INRA's LACCAVE 2.21 project, whose objective is to develop climate change adaptation strategies for each French wine-producing region. In November 2018, a local meeting of winegrowers and other stakeholders was held in Saint-Emilion to present and validate the results obtained on the local pilot site. This workshop was a great success, with more than 200 participants (please see Box 1). The INRA Bordeaux team organised other technical days with winegrowers in other Bordeaux wine appellations (e.g. Fronsac, ...) and with other winegrowing organisations (e.g. viticultural colleges, cooperatives, winegrowing unions, etc.). A professional day in the Val de Loire was held during the regional meeting on adapting viticulture to climate change, organised by TechniLoire and INRA (March 2019). This meeting was held as part of the LACCAVE 2.21 prospective work on defining adaptation strategies to various climate outcomes. Around 80 wine actors of the Loire Valley attended this meeting. During the final meeting, a technical day was held with the winegrowers of Navarre and La Rioja. The workshop gathered 100 winegrowers and stakeholders, which shows the interest of local actors in the research findings and the importance of the dissemination action. The research topic transferred to winegrowers included adaption tools (on vineyard management, plant material and cultivation practices - canopy management and irrigation). The day ended with a round table with local winegrowers and discussions on the importance to combine adaptation and sustainability (please see Box 2).
- Participation in the organization of the International symposium CLIMWINE "Sustainable grape and wine production in the context of climate change",

Bordeaux, April 10-13, 2016. "Scientists from 20 different countries came to Bordeaux from April 11 to 13 2016 to present their work related to climate modeling, impacts on vines and wines, possible adaptations at different scales, and socio-economic outputs. This symposium was also an important opportunity not only to exchange among researchers, but also with representatives of the industry" (Climwine, 2016). Visits and meetings between winegrowers and scientists were organised on the Saint Emilion-Pomerol pilot site. A book of proceedings was published as a result of this international symposium (Figure 14).

• The final meeting of the LIFE-ADVICLIM was held from 28 January to 30 January 2020 at the Department of Agronomy of the University of Pamplona gathering the different action leaders, some researchers involved in the project, some members of the Advisory Board (please see Box 2).



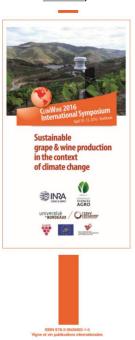




Figure 14: International symposium "Sustainable grape and wine production in the context of climate change, Bordeaux, April 10-13, 2016

#### Box 1.

# LIFE ADICLIM meeting for winegrowers in the Saint-Emilion— Pomerol pilot site (November 12, 2018), by INRA/BSA Team

On November 12, 2018 a meeting on the Life ADVICLIM project has been scheduled in the Saint-Emilion – Pomerol pilot site. The main objective was to inform the wine growers of the area about the progress of the Life ADVICLIM project. The meeting was organized in the "Lycée Agricole de Libourne – Montagne". This community college is located inside the pilot site and trains future wine professionals (enologists, viticulturists and wine trade managers). They own the largest amphitheater in the area (200 places) and appropriate facilities for meetings, including sound and video equipment, a sound engineer and the possibility to organize lunch and wine tastings. The meeting was a great success. It was planned to launch the invitations in three-time series: first to the winegrowers and consultants of the pilot site area as well as a selected group of scientists and students, second to winegrowers from surrounding appellations and third to other winegrowers of the Bordeaux area. It turned out that after the first round of invitations, the number of registrations corresponded roughly to the capacity of the amphitheater. Because there is no bigger venue in the area it was decided not to launch the second and third round of invitations. Instead, it is planned to organize meetings for winegrowers in surrounding appellation early 2019. Contacts have already been established with the association of winegrowers of the Fronsac appellations (which are located West of the pilot site) and later contacts will be taken with the growers' association of the Côtes de Castillon appellation (East of the Pilot site). Finally, 186 people attended the meeting, including 61 % winegrowers, 12 % consultants, 16 % scientists and 5 % students. The meeting was organized over the whole day, starting with a welcome coffee. Lunch was offered to the participants in the form of a cocktail, allowing winegrowers to network and exchange with the scientists working on the Life ADVICLIM project. During the lunch break, a winetasting was offered and included a flight with 3 wines from the same producer (château Franc Le Maine, Saint-Emilion Grand Cru) over three vintages: 2012, 2013 and 2014. Climate information on these vintages was provided, allowing delegates to relate the taste of the wine to the climatic conditions of the vintage. Other wines were presented to show the impact of the spatial temperature variability over the area on wine sensory attributes. All the wines were offered by the growers. A detailed printout of the program was provided, including a description of the Life ADVICLIM project. Furthermore, two full text papers related to the presentations and a flyer presenting the major effects of climate change on viticulture and wine quality were distributed to the participants as take-home information. A journalist of a local newspaper (Le Résistant) was invited and covered the event with a very detailed paper. 12 oral presentations were scheduled, ranging from 10 to 40 minutes depending on the topic. Substantial time was allocated after each presentation to answer questions from the audience. The abundance of questions allowed highly interesting interactions between the presenting scientists and the local winegrowers.



Lycée Agricole de Libourne – Montagne

#### Box 2.

## LIFE ADICLIM final meeting at the *Public University of Navarre* (UPNA) in Pampelona (Spain), by Advisory Board members

The final meeting of the LIFE-ADVICLIM was held from 28 January to 30 January 2020 at the Department of Agronomy of the *Public University of Navarre* in Pamplona gathering the different action leaders, some researchers involved in the project, some members of the Advisory Board as well as a European Union Commissioner for LIFE projects. Each action leaders presented the corresponding action results to the participants, displaying the work progress before the final report issue. A massive work was carried out and was gradually disseminated to the stakeholders.

Day 2 on 29 January 2020 was dedicated to a networking meeting hosted by the Department for Rural Development and Environment of the government of Navarra in Pamplona. Various LIFE projects, including ongoing and/or finished projects, conventional or integrated projects related to adaptation of viticulture to climate change were presented. Keeping in mind that the final objective of LIFE projects is research transfer to help policies making, feedback on the various experience was shared between different LIFE projects leaders and researchers involved in various Interreg and LIFE projects carried out in Navarra and Spain. It led in interesting discussions on how the different projects can contribute to policy making at different scales levels and how to encourage winegrowers to be part of the processes of policy making.

The day ended with the visit of two wine estates in La Rioja which collaborates with the Department of fruit production of the University of Navarra in the framework of the LIFE-Adviclim project.

Finally, a technical day took place on 30 January 2020 at the *Estación de Viticultura y Enología of Navarra* (EVENA). The workshop gathered 100 winegrowers and stakeholders, which shows the interest of local actors in the research findings and the importance of the dissemination action. The research topic transferred to winegrowers included adaption tools (on vineyard management, plant material and cultivation practices - canopy management and irrigation). The day ended with a round table with local winegrowers and discussions on the importance to combine adaptation and sustainability.



LIFE ADVICLIM team at the UPNA



Technical day with the winegrowers of Navarre

# DISSEMINATION TOWARD SCIENTIFIC COMMUNITY

ADVICLIM's partners and members have participated in many scientific events such as conferences, symposia, workshops and seminars at national and international levels.

The objectives, methodologies and results of the LIFE-ADVICLIM project have been presented in the main international scientific events on climate change, agriculture, vine and wine: World Congress of Vine and Wine (OIV), International Terroir Congress, COP21 in Paris 2015, GIESCO, AMOS-ICSHMO, European Geosciences Union General Assembly, International Symposium of Oenology, Agriculture and Climate Change-Adapting Crops to Increased Uncertainty, UNESCO, Climate Smart Agriculture, CLIMWINE Symposium, Meteorological Society of New Zealand, AIC, Exposition Universelle de Milan... (Figure 15 to 17).

Members of the LIFE-ADVICLIM project have been invited as guest speakers to present the project at many events in Europe (France, Spain, Italy, Romania, Germany, England, Switzerland, ...) and internationally (Argentina, Brazil, Chile, Uruguay, China, New Zealand) (Figure 18 to 20).

Two PhD theses have been produced in the framework of the LIFE-ADVICLIM project and numerous scientific articles and book chapters have been published in international journals (Figures 21 and 22).

- **Publications:** 16 papers in scientific journals; 10 books and books chapters.
- **Conferences**: 36 presentations at national and international conferences and 26 project presentations.
- Colloquia and seminars (with seminar papers): 25 seminar papers and 10 seminar presentations.
- **Scientific workshops**: Organization and participation in 8 workshops in Europe, Argentina and New Zealand.

#### **Highlights: scientific events and publications**



Figure 15: Presentation of LIFE-ADVICLIM at the French Embassy in Portugal for European PRIMA program (Partnership for Research and Innovation in the Mediterranean Area)



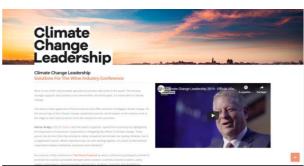


Figure 16: LIFE ADVICLIM at "Climate Change Leadership, Solutions for the Wine Industry" in Porto, 5th-7th March 2019, organized by Vice President Al Gore





Figure 17: LIFE ADVICLIM at the 41<sup>nd</sup> World Congress of Vine and Wine (OIV), Geneva, Switzerland, 15<sup>th</sup>-19<sup>th</sup>
July 2019





Figure 18: Conference and technical visit at "New Zealand Winegrowers Research Institute" on 30th October 2018 in Blenheim (NZ)







Figure 19: Conference at Colmar University, on February 6th, 2020 in Colmar (France)



Figure 20: Presentation of LIFE-ADVICLIM project at Tsinghua University in November 2018





Figure 21: Doctoral thesis of Etienne Neethling (a) and Renan Le Roux (b)

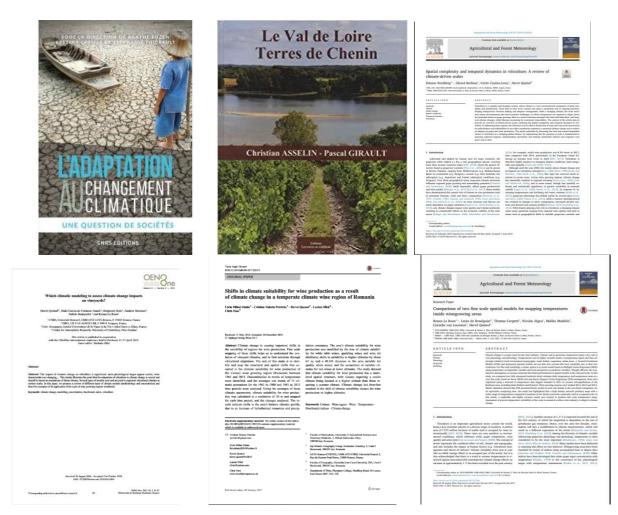


Figure 22: Examples of scientific articles and book chapters

### **DISSEMINATION BY MEDIA**

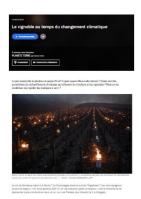
The LIFE ADVICLIM project and its results have been presented in different types of media: TV, Radio, documentaries, general and specialised websites on vineyards and wines, regional, national and international newspapers. The dissemination of the LIFE-ADICLIM project was carried out by the media in the European countries of the project (France, Germany, Romania, England and Spain) but also in other countries (Argentina, New Zealand, ...).

The results of the LIFE-ADVICLIM project were regularly presented in wine magazines. For example, the "*Revue de Œnologues*" published several papers on LIFE-ADVICLIM throughout the project in order to present the evolution of the project and the main results between 2015 and 2019. These papers were published in the national and regional editions concerning the project (Bordeaux Region and Val de Loire Region).

- TV/Radio report: 10 shows or interviews (Figures 23 and 24)
- **Documentary:** 2 documentaries (52mn) (Figures 25)
- **Internet**: 10 articles on websites specialized in viticulture or news websites (Figures 26 to 30)
- Science and Wine magazines: (Figures 30 to 36)
- Local, regional, national and international newspaper

#### Highlights: Media



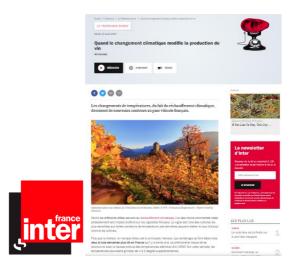


"Le vignoble au temps du changement climatique", « Planète Terre » broadcast on national France Culture channel, on 6th January 2016



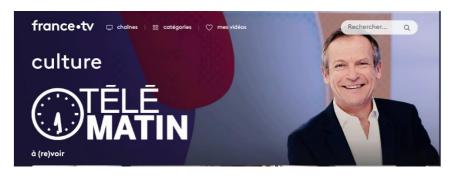


"Dans les vignes du monde", « Le temps d'un bivouac » broadcast on national France Inter channel, on 11th July 2016



<sup>&</sup>quot; Quand le changement climatique modifie la production de vin ", « Le téléphone sonne » broadcast on national France Inter channel, on 15th August 2017

Figure 23: LIFE-ADVICLIM on national Radio channels



" Changement climatique et vignobles de Saint Emilion : le projet LIFE ADVICLIM ", « Télématin » broadcast on national TV France2, on 18th April 2015



"Les vins français sont-ils en danger?", « La Quotidienne » broadcast on national TV France5, on December 2015



TV interview to talk about the issue of adapting viticulture to climate change on a national TV France 3, on November 2018.

Figure 24: LIFE-ADVICLIM on national TV channels



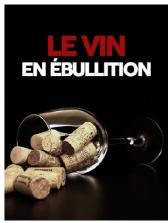


Figure 25: LIFE-ADVICLIM on video documentary: « Le vin en ébullition », (52mn), Écomedia, France 5, Ushuaïa TV, September 2017

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#### Climate change: the next frontier

26 September 2017

Some areas of Chile and Argentina are experiencing changes in the frequency and severity of weather extremes. While many winemaking regions struggle to adapt, there are some visionary producers who see it as an opportunity to explore. Amanda Barnes investigates.



Above: severe forest fires were the result of the extreme heat in Chile in early 2017. Here the flames are on the other side of the hills, adjacent to a plot of 200-year-old País vines belonging to Viña González Bastías in the dry lands of Maule. Photographer: Daniela Lorenzo Bürger

The wine map is undeniably changing. The worldwide phenomenon of climate change is creating new, once-unimaginable wine regions, while at the same time dismantling others in its path. The oxymoron is, of course, that it poses both distressing risk and thrilling opportunity for

Figure 26: LIFE-ADVICLIM in Web: "Climate change: the next frontier", Decanter, 1er juillet 2017.



Support for carbon reduction and other environment-friendly initiatives abound in EU policy, some dating back to 1990s, along with a range of subsidies and other supports for the bloc's 16 wine producing countries. Making sense of wine and climate change policy, however, can take time.

Figure 27: LIFE-ADVICLIM in Web: "The EU climate change initiatives impacting wine", Wine Business International, January 2019



Hervé Quénol: La connaissance du climat local est primordiale. Il faut une viticulture de précision, qui permette à chacun de déterminer quels sont les meilleurs lieux pour planter la vigne. On s'aperçoit, par exemple, que les zones traditionnelles de mi-coteau, très ensoleillées, ne sont peut-être plus les meilleures; dans certains cas, on aurait intérêt à planter plus bas dans les secteurs les plus septentrionaux. En Argentine, en raison de la fonte des glaciers des Andes, l'eau manque et les vignerons cherchent la fraîcheur en altitude, sur les premiers versants de la Cordillère, et même jusqu'en Patagonie ou à la frontière bolivienne! Olivier Poussier: Troisième piste, la plus es tielle, d'après moi : le choix des cépages. Il est nécessaire de remettre au goût du jour certains cépages autochtones, qui ont été abandonnés pour des raisons diverses, parce qu'ils étaient peu aromatiques, difficiles à cultiver... Il serait intéressant de trouver des variétés qui arrivent à maturité complète sans excès d'alcool.

Hervé Quénol: À l'échelle mondiale, on utilise principalement et majoritairement une dizaine de cépages, seulement. Il faut diversifier: Utiliser des variétés plus tardives, résistantes à la sécheresse, aux maladies. Et varier les porte-greffes, également, qui sont les plans soutenant les pieds de



CLIMATOLOGUE HERVÉ QUÉNOL

Climatologue et directeur de recherche au CNRS, spécialiste de la viticulture, Hervé Quénol étudie notamment l'impact du changement climatique à l'échelle locale et coordonne le projet européen Life-Adviclim (une trentaine de vignobles sur 15 aws).

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Figure 28 : LIFE-ADVICLIM in Web : "Climat : le vent du changement", Vente à la Propriété, n°8, 2018

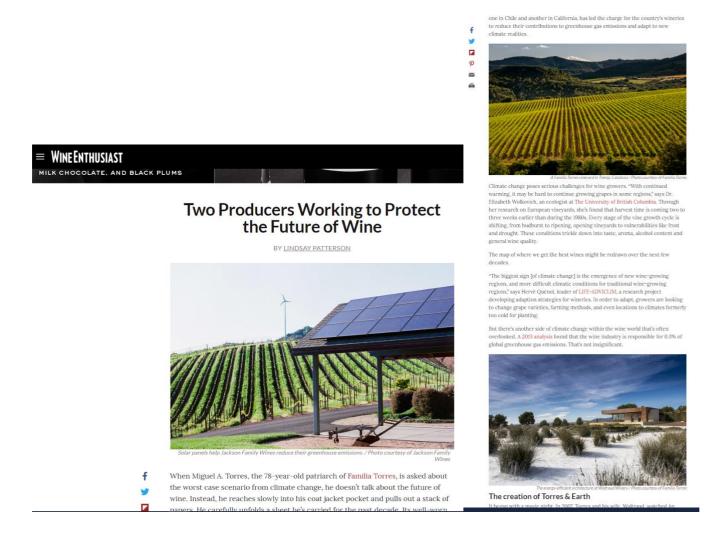


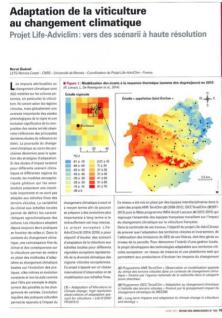
Figure 29: LIFE-ADVICLIM in Web: « Two Producers Working to Protect the Future of Wine », Wine Enthousiast, 05/2019



Figure 30: LIFE-ADVICLIM in Web: « Climate change may change the global wine map », Huffington Post, 12/02/2015







a) National Edition, n°155, April 2015)





b) Regional Editions in Bordeaux and Val de Loire (n°157)

Figure 31: Presentation of the LIFE-ADVICLIM project in the "Revue des Œnologues". National Edition (n°155, April 2015) (a) and regional editions (b)



Figure 32: Results of the LIFE-ADVICLIM project in the "Revue des Œnologues". National Edition (n°173, November 2019.

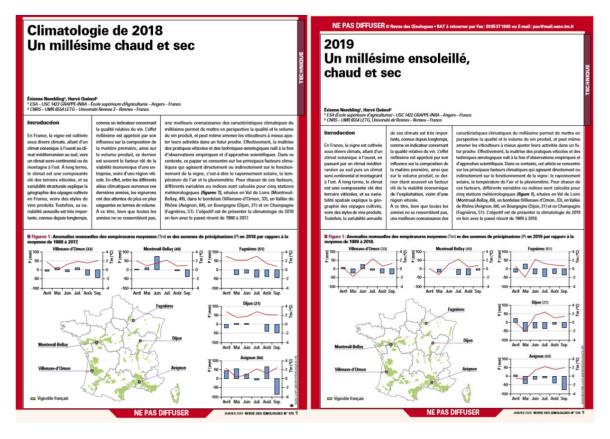


Figure 34: Climate and wine Results of the LIFE-ADVICLIM project in the "Revue des Œnologues". National Edition (n°170, January 2019 and n°174, January 2020).



Figure 35: LIFE-ADVILCIM in La Vigne magazine (n°316, February 2019)



Figure 36: Short article about the growing season of 2014 and 2017 in the Loire Valley and the consequence of climate change on the wine sector. The Life-ADVICLIM project was highlighted as a project to help winegrowers in adapting their practices to climate change. TechniLoire Journal (2015 and 2017)

## STORY MAP

The purpose of building a story map aims to produce a chronological and thematic document describing the whole implementation of the scientific approach associated with the LIFE-ADVICLIM project. Story maps are digital narrative documents that associate static or dynamic illustrative elements with a text. These communication supports have demonstrated their ability to support the valorisation of research results. Here, the objective of the story map is to produce a synthesis document facilitating the dissemination of the knowledge acquired in the LIFE-ADVICLIM project. It allows the dissemination of general information on the project and the main results obtained. The story map is used to communicate with professionals in the wine industry (managers, cooperatives, winegrowers).

The story map contains interactive maps showing the location of the 90 sensors on the Saint-Émilion pilot site (Figure 37) as well as the average actual temperatures (Figure 38). Some of these dynamic elements are supported by graphics and illustrations (Figure 39) in order to provide a better understanding of the techniques used to get to the exposed results. The story map is online at advictim.eu.

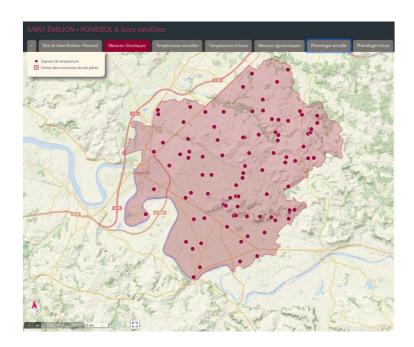


Figure 37: 90 sensors location of the Saint-Émilion pilot site.

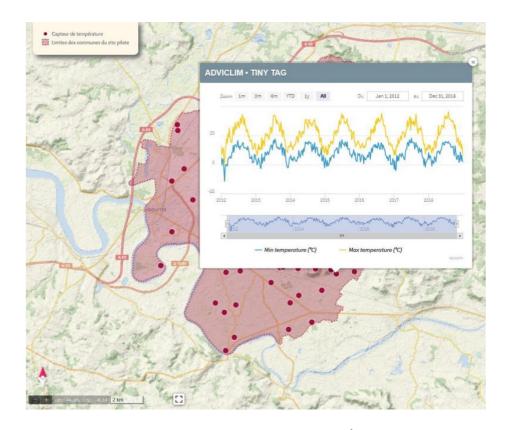


Figure 38: actual temperatures of the Saint-Émilion pilot site.

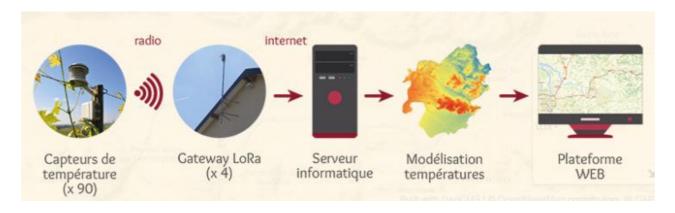


Figure 39: data acquisition for web modelling.



With the contribution of the LIFE financial instrument of the European Union http://www.adviclim.eu/



















