	Document	D7.4. Scientific articles published in peer-reviewed scientific and technical journals, and presentations on application of research, results and activities in European and international conferences		
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**SUSTAIN
OLIVE**



Co-funded by the
Horizon 2020 Framework
Programme of the European Union

This project is part of the PRIMA programme supported by the European Union


SUSTAINOLIVE

Scientific articles published in peer-reviewed scientific and technical journals, and presentations on application of research, results and activities in European and international conferences


Deliverable D 7.4

WP7. Dissemination, communication, training and demonstrative events

Novel approaches to promote the SUSTAINability of OLIVE cultivation in the Mediterranean

	Document	D7.4. Scientific articles published in peer-reviewed scientific and technical journals, and presentations on application of research, results and activities in European and international conferences		
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DELIVERABLE FACTSHEET

Deliverable nº: D 7.4

Deliverable type: Report

Responsible Partner: UNIPR

WP nº and title: 7. Dissemination, communication, training and demonstrative events

Version: 1

Version Date: 15/9/2023

Dissemination level	
	PU = Public, fully open
X	CO = Confidential, restricted under conditions set out in Model Grant Agreement

Approvals

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Document change record

Deliverable	Version	Date	Status	Author	Description
Provisional deliverable (midterm report 2021)	v1	28-5-2021	Draft	Elena Maestri, Luca Pagano, Riccardo Rossi, Nelson Marmioli	First version
	v2	12-5-2021	Draft	Executive Committee SUSTAINOLIVE	Review and comments
	v3	20 to 27-5-2021	Draft	General Assembly SUSTAINOLIVE	Review and comments
	v4	30-5-2021	Final	Elena Maestri, José Liétor	Finalised draft
Final deliverable (2023)	v5	3-7-2023	Draft	Elena Maestri, Riccardo Rossi, José Liétor	Consensual design of an Excel table to collect exhaustive information on publications and scientific and divulgative contributions of SUSTAINOLIVE
	v6	3-7-2023	Draft	José Liétor	Preparation of a detailed protocol on data collection for the preparation of the final Deliverable
	v7	9-9-2023	Draft	Elena Maestri, Riccardo Rossi	Filling in Excel with data on SUSTAINOLIVE publications and contributions
	v8	15-9-2023	Draft	José Liétor	Design of infographics and graphics and assembly of the preliminary version of the final Deliverable
	v9	20-9-2023	Draft	All partners	Review by partners to provide suggestions and corrections
	v10	25-9-2023	Final	José Liétor	Amedments incorporated and final version produced

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Acknowledgement

The work described in this report has been funded by PRIMA Foundation H2020 Section 1 Framework Programme.

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Executive Summary

This document contains the scientific and technical publications of the SUSTAINOLIVE consortium during the period 01-06-2019 to 10-09-2023 (52 months of activity after project extension).

The document has been prepared as part of SUSTAINOLIVE Work Package WP7 and correspond to the updating of the deliverable 7.4 of SUSTAINOLIVE uploaded during the middle term of the project

It should be emphasized that the COVID-19 pandemic complicated the number and format of many of the activities (e.g., contribution to congress) related to this deliverable during the first half of the project. As an example, many of the contributions that usually are face-to-face were conducted online. Also, it should be remarked that young researchers of the different institutions participating in this project played a leading role in the scientific production shown in this report. This deliverable include annex 1 and 2.



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	Reference	D7.4		25/09/2023

TABLE OF CONTENTS

1. Methodology	7
2. Scientific production: an overview	11
2.1. Indexed papers.....	12
2.2. Posters in Congresses.....	12
2.3. Oral communications in Congresses	12
2.4. Conference abstracts/proceedings	16
2.5. Book chapters	16
2.6. Informative articles	16
3. Keywords: a way to understand the legacy of SUSTAINOLIVE	19
Appendix 1. List of titles of contributions and publications during SUSTAINOLIVE lifetime	
Appendix 2. PDF compilation of all contributions and publications during SUSTAINOLIVE lifetime	

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	Reference	D7.4		25/09/2023

1. Methodology

The SUSTAINOLIVE project aims at a widespread dissemination of the principles underlying the sustainable technological solutions (STs) applied to the olive farms. All partners have been involved in dissemination and communication activities as outlined in the communication plan prepared in WP7 (deliverable 7.1).

A specific type of dissemination concerns the outreach to scientific communities, experts, and technicians. To this aim, all partners have been encouraged to prepare scholarly papers in English, to participate in conferences at national and international level, and to prepare technical papers in the national languages when possible.

The present Deliverable collects all the main scientific outputs produced during the lifetime of the project.


Collection of outcomes has stopped in September 2023, and therefore some publications and conference participations arriving at or after the end of the project will be excluded from the analysis. In particular, the book collecting contributions from all partners of the SUSTAINOLIVE project: “The Olive Landscapes of the Mediterranean” edited for Springer by Roberto Garcia Ruiz and Jose Muñoz-Rojas, is currently being reviewed by Springer.

The methodology used for preparation of the Deliverable is outlined as follows.

i) Collection of entries

For the whole lifetime of the project, partners have been encouraged to publish and disseminate results to a technical-scientific audience. Periodically, UNIPR has requested from partners information about their activities.

Additional searches have been performed in literature databases (Scopus, Web of Science) for recovering papers published in scientific journals. Only papers and products acknowledging the contribution of SUSTAINOLIVE and PRIMA have been considered.

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	Reference	D7.4		25/09/2023

ii) Recovery of materials

Files corresponding to the outcomes have been collected either from public repositories or through direct request to the partners. The files collected and assembled for this deliverable are all in pdf format, as shown in Table 1.

Table 1. Description of files available for each outcome category

Category of output	File content
Papers	Pdf file of the original paper, with supplementary information when needed
Books and book chapters	Pdf file of books and book chapters, provided by the authors
Posters	Pdf file of the posters presented to conferences
Oral presentations	Pdf file prepared from the presentation slides
Technical papers	Pdf file of the journal or extracted article, or printout of the website publishing the article
Conference proceedings	Pdf files of the proceeding' s books, or pdf files of the abstracts extracted from books

Outcomes which were not supported by a pdf files, were exclude from the deliverable. As example, a participation to a conference certified by a letter of acceptance was not included if the abstract, or poster, or presentation were not available. This has resulted in a decreased in the number of reported outcomes. On the other hand, in some cases, the same outcome have been shown two times but in different categories; for instance as a conference proceeding and poster, or conference proceeding and oral presentation.

The list of titles of all contributions is compiled in Appendix 1 and the corresponding pdf files are available in the Appendix 2.

iii) Classification and analysis

Outcomes were analysed and classified per categories according to a series of descriptors. The approach is outlined in Table 2.

In addition, a list of keywords was selected (one per publication) with the aim of obtaining a broad vision of the topics addressed by the dissemination activity of SUSTAINOLIVE (Table 3).


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	Reference	D7.4		Date UNIPR UJA 25/09/2023

Table 2. Descriptors of the outcomes and approach for classification.

Descriptor	Possible states		Approach
Scope	-International -National/Regional/Local		The content of the outcome refers to data obtained in the project encompassing more than one country – or else limited to a specific Region or country (e.g. Alentejo, Andalusia, Portugal)
Authors	-A quantity		The number of "authors" involved (see Figures 2,3,4,5,7 and 8) does not represent a count of researchers but instead the SUSTAINOLIVE countries appearing in the affiliations.
Date of publication or presentation	-2019 -2020 -2021	-2022 -2023	The choice is made based upon the date of the paper publication in a journal (or online), the date of conference, the date of oral or poster presentation
Potential audience	-Non-academic/ informative -Academic		For most of the outcome, the audience is academic: papers, books, poster or oral presentations, conferences in a scientific context. Some presentations and technical papers are considered divulgative
Country of the authors	-Spain -Italy -Greece -Portugal -Morocco -Tunisia		The classification is based upon the affiliation of the authors of the outcomes, considering the partners of the SUSTAINOLIVE consortium. Collaborative efforts prepared by authors from different countries have been classified accordingly, choosing more than one country and each country is counted only once. In the case of oral presentations, usually the country refers to the attender.
Language	-English -Spanish -Italian -Arab	-Greek -French -Portuguese	Based on the outcome, only one value was chosen. The scientific papers and books were written in English, whereas posters, presentations and conference proceedings can be in National languages.
Topic	-Climate change -Cover crops -LCA -Oil quality -Soil erosion	-Soil functionality -Stress -Sustainability -Waste	The classification of each outcome in one topic was based upon the content of the paper, presentation, abstract using specific keywords. The correspondence between topics and keywords is reported in Table 3. Each outcome was classified according the main topic.
Impact factor	-Q1 -Q2 -Q3 -Q4 -Not applicable		For each scientific paper, the Journal Citation Reports database at Clarivate (accessed lastly in September 2023) was consulted (https://jcr.clarivate.com). Based on the most recent impact factors (2022) the “ranking” of the journal was selected, expressed in quartiles. The choice “not applicable” was used for journals with no impact factor.



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	Reference	D7.4		25/09/2023

Table 3. Mapping of keywords from the outputs to specific topics used for classification.

TOPICS									
	Climate change	Soil functionality	Cover crops	LCA	Soil erosion	Sustainability	Waste	Oil quality	Stress
Keyword 1	adaptation	organic carbon	cover crops	LCA	erosion	sustainable	olive pomace	oil quality	pathogens
Keyword 2		nutrient retention	organic carbon	social metabolism	gully	landscape	mills	antioxidants	stress
Keyword 3		fertilization	seeded	agri-food systems	models	fragmentation	recovery	polyphenols	insects
Keyword 4		carbon balance	stabilization	barriers	soil loss	agroforestry	natural solutions	consumption	resilience
Keyword 5		soil health	biodiversity			agroecology	biochar	phenolic fraction	moth
Keyword 6		biomass				intensification	nanomaterials	flavonoids	
Keyword 7		nitrogen				ontology	leaf extracts		
Keyword 8		biological function				indicators	residues		
Keyword 9		microbial communities					olive stones		
Keyword 10		biodiversity					wastewater		

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	Reference	D7.4		25/09/2023

iv) Showing the results


Following classification, infographics describing the distribution of outcomes and their characteristics have been produced.

2. Scientific production: an overview

All SUSTAINOLIVE partners have made a considerable effort to bring research results closer to society. Until September 10, 2023, scientific production of SUSTAINOLIVE amounted 112 publications and contributions, both in the academic and divulgation fields (Figure 1). During 2020 and until most of 2022 participation to congresses, with posters or oral presentations, were almost exclusively online and limited in number, due to COVID-19 pandemic.



Figure 1. Distribution of scientific and informative publications and contributions to conferences of SUSTAINOLIVE

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	Reference	D7.4		25/09/2023

27% of the outcomes corresponds to indexed papers and 28% to participations in congresses; 14 %, 14% and 30 % of which were oral communications, posters and proceedings of different scientific events (meetings, symposiums, congresses, etc.), respectively. Articles in informative magazines and journals represented 12% of SUSTAINOLIVE publications, while the remaining 3% corresponded to book chapters (Figure 1). Appendices 1 and 2 shown in detail all the publications.

2.1. Indexed papers


The production of indexed articles from SUSTAINOLIVE can be considered reasonably good, with a total of 30 publications, half of them with the maximum impact factor (Q1 category) and with a clear international projection as demonstrated by the fact that all of them were drafted in English. The group of Spanish partners was the most active, participating in 83% of a scientific articles that addressed a wide range of topics (Figure 2).

2.2. Posters in Congresses

A total of 15 posters produced in 4 different languages were presented at 11 Congresses, 10 in Europe and one in the United States (Atlanta, Georgia). They were focused on 5 main topics, being soil functionality, valorization and use of olive grove waste and sustainability of olive grove cultivation the most relevant (Figure 3).

2.3. Oral communications in Congresses

A total of 16 oral communications performed in 3 different languages were presented in 10 Congresses, 9 in Europe and one in Changsha (China). The oral presentations in 2019 concerned the presentation of the whole project, whereas from 2021 onward, they showed results of the project. They were focused on 5 main topics, being sustainability of olive grove cultivation the most relevant. The contributions had predominantly a local/regional character rather than international, with the Portuguese teams being the most active (Figure 4).

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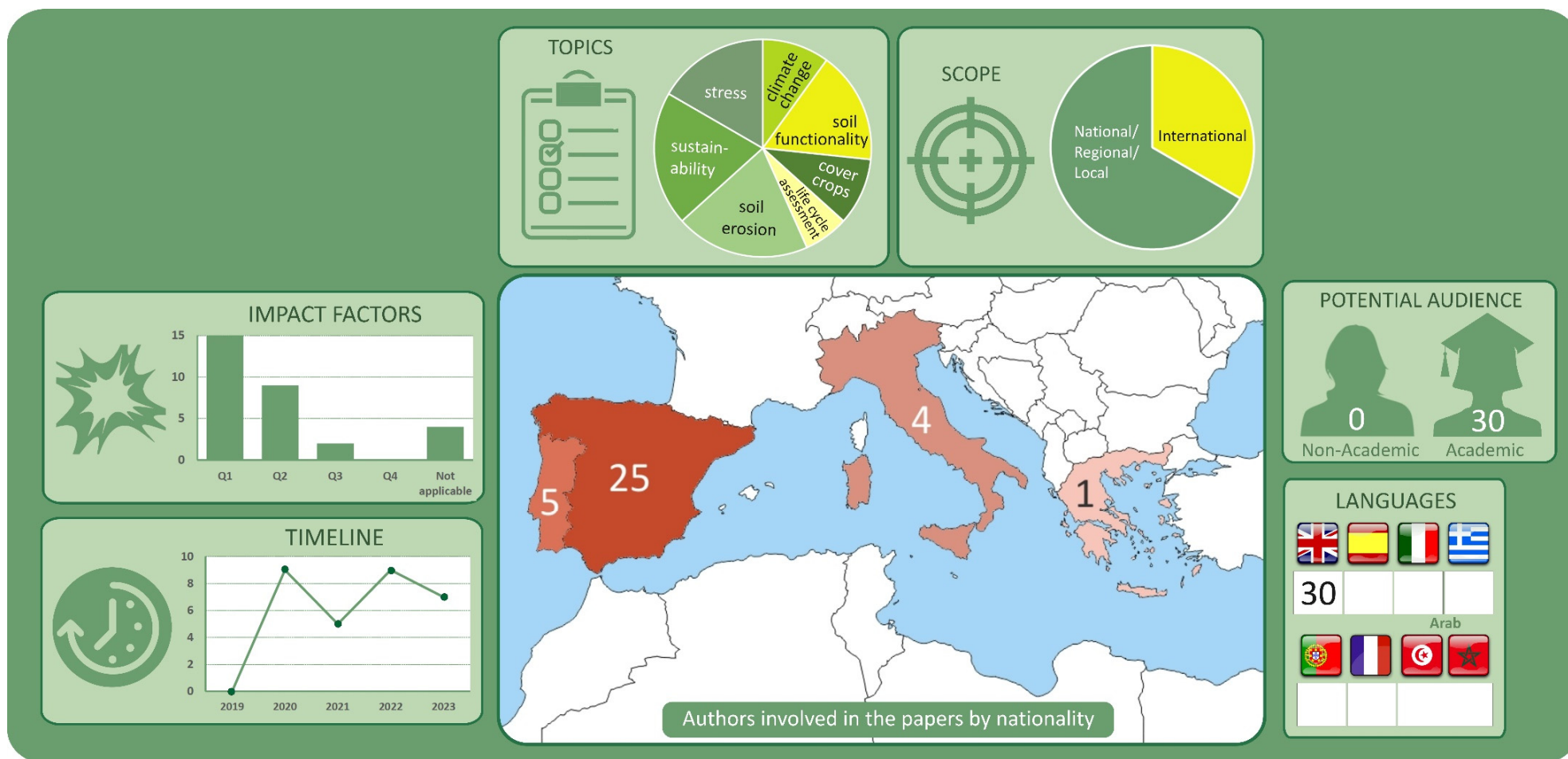



Figure 2. Some statistical data on SUSTAINOLIVE scientific paper production. The timeline represents the quantity of papers.

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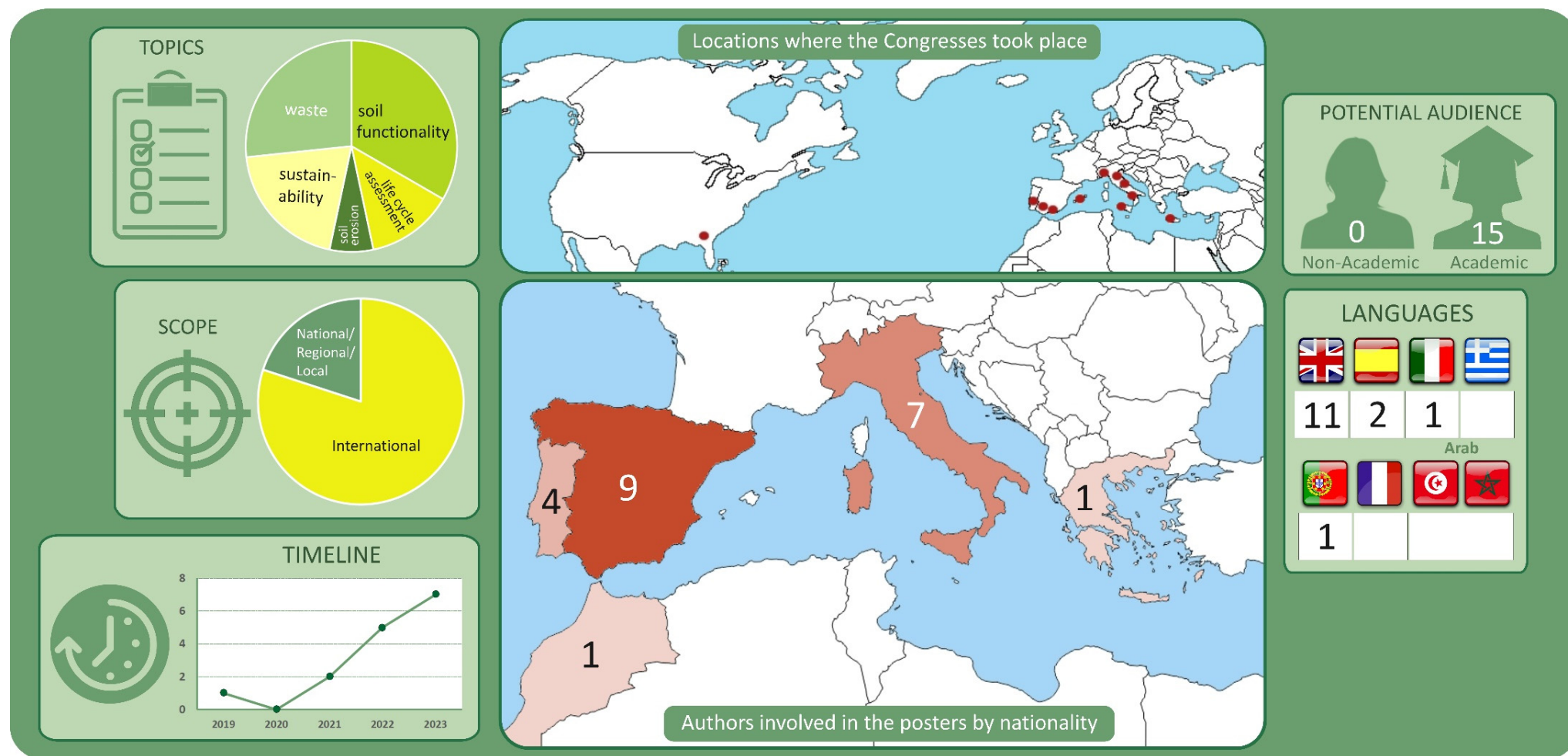



Figure 3. Some statistical data on SUSTAINOLIVE scientific poster and the geographic location of the Congresses. The timeline represents the quantity of posters.

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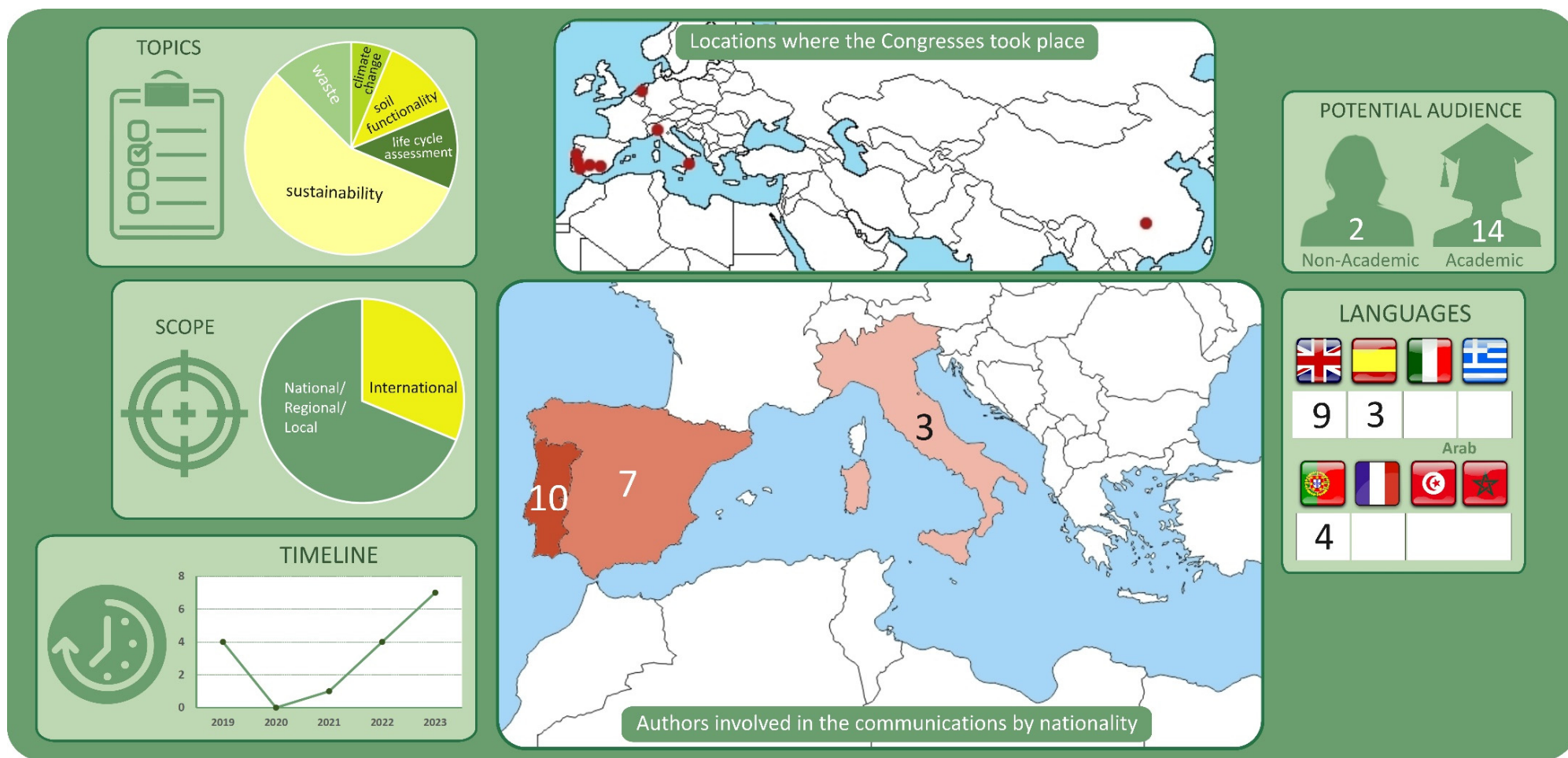



Figure 4. Some statistical data on SUSTAINOLIVE oral communications and the geographic location of the Congresses. The timeline represents the quantity of oral communications.

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	Reference	D7.4		15/09/2023

2.4. Conference abstracts/proceedings

A total of 34 contributions as abstracts/proceedings in 3 different languages were presented in 19 events, 17 in Europe, one in Changsha (China) and one in the United States (Atlanta, Georgia). They were focused on 7 main topics, being sustainability of olive grove cultivation and valorization and use of olive wastes the most relevant (Figure 5).


Figure 6 shows the geographical locations where the outcomes of sections 2.2, 2.3 and 2.4 were presented. The main olive oil producers countries (Italy, Spain and Portugal) concentrated a majority of the events.

2.5. Book chapters

Figure 7 shows some interesting data related to the 4 book chapters published during the development of SUSTAINOLIVE.

2.6. Informative articles

A total of 13 informative articles were published in journals and magazines related to olive oil industry from 3 of the countries participating in SUSTAINOLIVE (Spain, Italy and Portugal). The topics addressed are classified within the categories cover crops, climate change, and above all, sustainability of olive cultivation (Figure 8).

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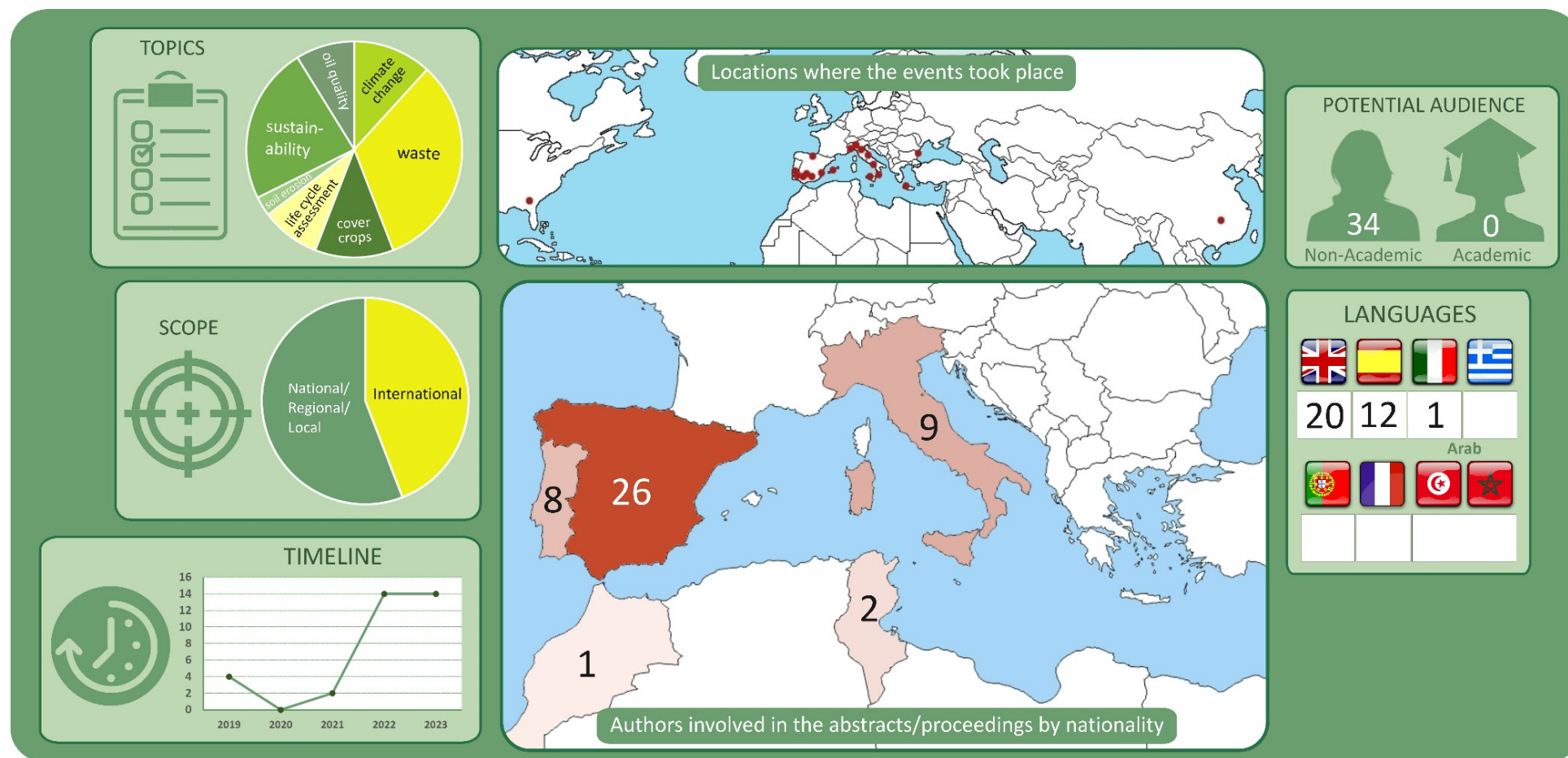



Figure 5. Some statistical data on SUSTAINOLIVE abstracts/proceedings and the geographic location of the events where they were presented. The timeline represents the quantity of abstracts/proceedings.

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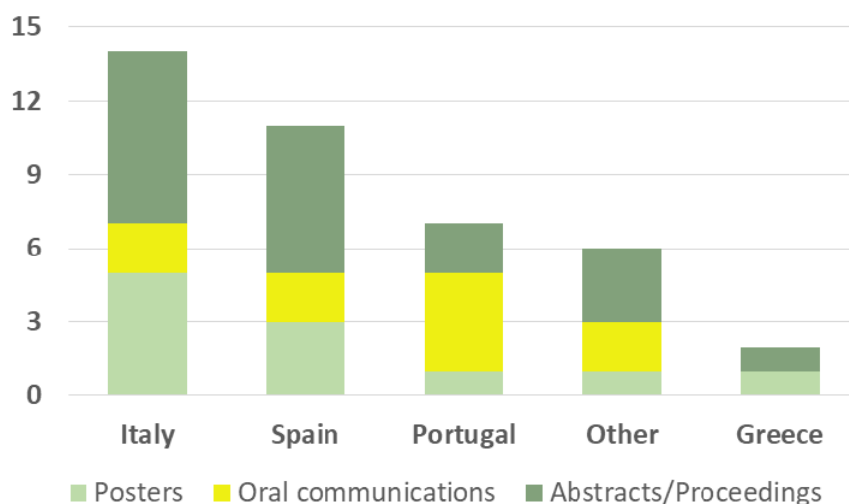


Figure 6. Countries where the scientific events of sections 2.2, 2.3 and 2.4 were organised. The category “other” involves the Netherlands, China, Bulgaria and the United States.

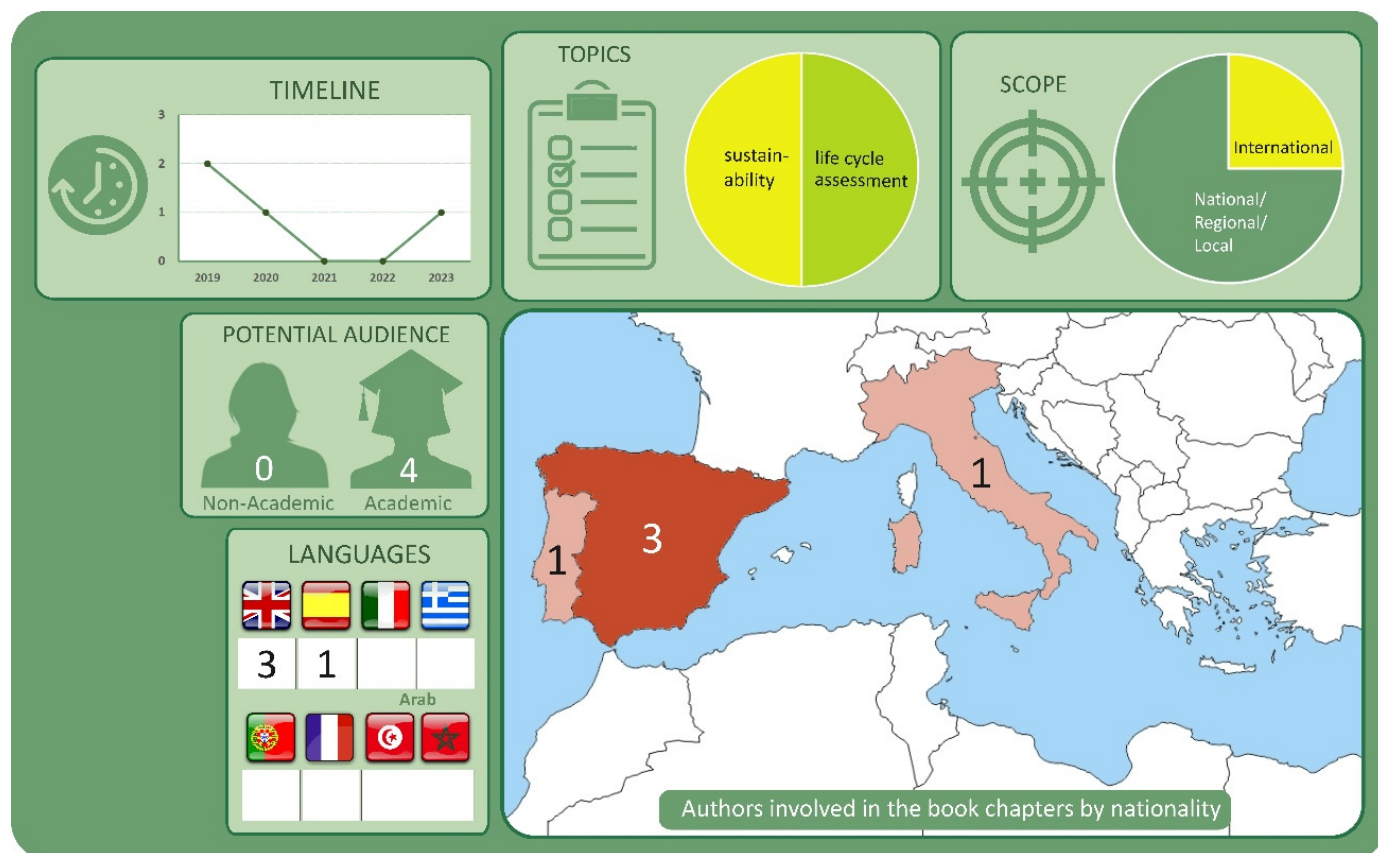



Figure 7. Some statistical data on SUSTAINOLIVE book chapters. The timeline represents the quantity.

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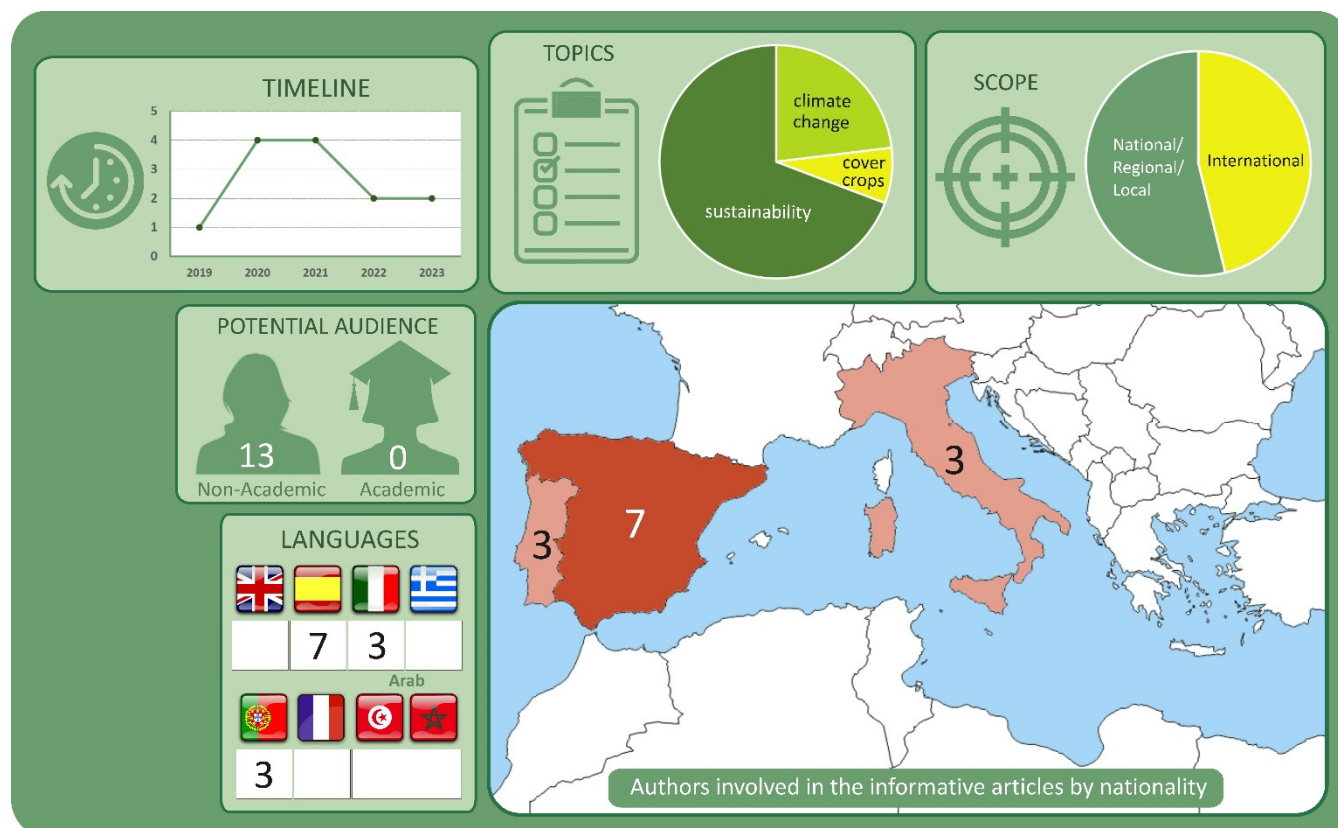


Figure 8. Some statistical data on SUSTAINOLIVE informative articles.
The timeline represents the quantity.

3. Keywords: a way to understand the legacy of SUSTAINOLIVE

When the topic categories considered in the previous analysis are combined with the keywords identified in the set of SUSTAINOLIVE publications and contributions, a clear image of the objectives and challenges aimed in SUSTAINOLIVE (Figure 9).

Considering all the topics studied and evaluated in SUSTAINOLIVE, there are some that clearly stand out from the rest: the valorization/reuse of olive grove wastes, the eco-friendly practices that lead to a more sustainable olive grove management model, through improving functionality of soils and reducing soil erosion rates (especially thanks to the maintenance of cover crops), and the improvement of the olive oil quality.

