



# LEAP-RE

Long-Term Joint EU-AU Research  
and Innovation Partnership on Renewable Energy

## WP4

# Maximising Outcomes

## Deliverable D4.7

List of LEAP-RE dissemination activities – M21 monitoring

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## ACRONYMS

WP	Work Package
WPs	Work Packages
M	Month
DX.X	Deliverable X.X
TRL	Technology Readiness Level
E-book	Electronic Books
M&E	Monitoring and Evaluation

## 1. Introduction

Deliverable 4.7 (D4.7) relates to the monitoring of dissemination activities produced by the work packages (WPs) under LEAP-RE Pillar 2, updated to M21 (June 2022). This would help to monitor the changes in terms of scientific contributions provided by the project, together with its spill overs onto the external academic community. This report is a living document, subject to review on an annual basis, and is structured as follows:

- the first section describes the methodology adopted for the research, taking into consideration the nomenclature employed in accordance with D3.1 – Guidelines for communication, dissemination, scientific publication, and exploitation in Pillar 2;
- the second section briefly outlines the mapping obtained; and
- the conclusion provides some recommendation for the upcoming publications and the subsequent monitoring efforts for D4.7, to be undertaken by M39 (December 2023) and M63 (end of project, December 2025).

## 2. Methodology

The methodology adopted to monitor and map the scientific contributions at LEAP-RE Pillar 2 level embeds the taxonomy stated in D3.1 - Guidelines for communication, dissemination, scientific publication, and exploitation in Pillar 2. The said report, in fact, constitutes the reference document for the scientific dissemination strategy of Pillar 2 and presents an in-depth baseline analysis of the scientific asset represented by Pillar 2 members and institutions. Moreover, the guidelines reported there are intended to support LEAP-RE researchers in the publication process. The taxonomy is here summarized as follows:

- **Conferences:** as a part of building a scientific network and increasing visibility of research, attending to international scientific conferences is a fundamental action. Most conferences require submission of an abstract, acceptance of the abstract by the organizational board, submission of the full-length article, peer review of the article, acceptance of the article, and subscription to the conference. The author will be able to present their research in front of an audience of similar research authors, increasing their visibility among other researchers in the field and building a network of experts.

- **Scientific articles:** a main out-reach activity of LEAP-RE Pillar 2 envisages the publication of 24 high impact peer-reviewed journal articles. These can be:
  - Original Research Articles which are of high-quality, and published in high-impact journals, presenting novel research findings.
  - Review Articles, which are either comprehensive overviews or meta-analyses of relevant research in a specific area or topic that has experienced significant scientific development or progress in recent years. Reviews should include a critical presentation of the state-of-the-art and are expected to extend well beyond summarizing the literature by discussing underpinning principles or concepts; presenting issues, approaches, or methods; current research gaps, challenges, and opportunities and potential future developments in the field, amongst other.
  - Short Communications, which are aimed at the rapid dissemination of recent research, more focused than Original Research Articles, and without the completeness expected of a full-length research paper.
- **E-books:** Part of the Pillar 2 scientific dissemination plan might be the publication of a peer-reviewed E-Book around the theme of renewable energies in Africa. There are many scientific publishers that offer options for E-Book publishing, among others, one of the most known is Springer Nature, and it will be used as demonstrative example of the procedure for publishing high impact e-books. Springer Nature offers to researchers the possibility to publish different categories of books and e-books.

Accordingly, D4.7 maps both the submitted and published contributions of four categories: conferences, scientific articles, e-books, and other materials (e.g., online non-peer reviewed articles, policy briefs, online toolkits, etc.). The main source of information used for the mapping exercise consists of the technical reports delivered by the 8 WPs of Pillar 2 (i.e., WP9, WP10, WP11, WP12, WP13, WP14, WP15, WP16) on M18 (March 2022). The periodic technical reports should contain detailed information on the scientific dissemination contributions carried by each WP. However, to complement the information to the latest contributions, a brief literature review has been conducted on Google Scholar and Scopus at the end of the reporting period (M21). The text strings searched have been: “LEAP-RE” and “Financial support from the European Commission H2020 funded project LEAP-RE (Long-Term Joint EU-AU Research and Innovation Partnership on Renewable Energy), Grant Number 963530 is gratefully acknowledged”. Consistently, the content of the monitored contributions is expected to be strictly related to the activities of the WPs. The findings are summarised in the following section.

### 3. Mapping of scientific contributions at LEAP-RE Pillar 2 level (M21)

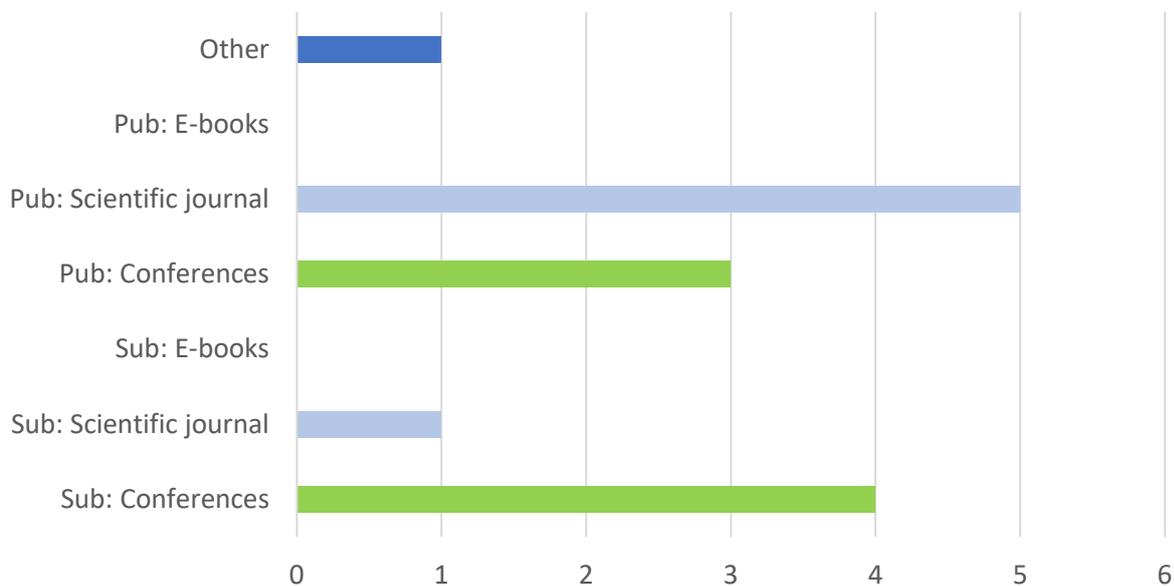
The following list comes from the methodology described in the previous section. The contributions, whose nature is reported in *italic* into brackets, have been organized by WPs:

- WP9
  - Khairy et al., Sensitivity of oil shale particle surface to the applied load in ball mill, 2021, *Int. J. Coal Prep. Util.*, vol 1 n.1 (*scientific journal publication*). Available at <https://doi.org/10.1080/19392699.2021.1946801>
  - B. Sanjuan, "Auxiliary chemical geothermometers applied to waters from some East African Rift geothermal areas (Djibouti, Ethiopia, and Kenya) for geothermal exploration" for the 9<sup>th</sup> African Rift Geothermal (ARGeo) ARGeo Conference in the Republic of Djibouti, November 4 to 6, 2022 <https://theargeo.org/> (*conference submit*)
  - "Development of simplified models for the individuation of the proper exploitation method for African Geothermal resources" for ECOS 2022 35th International Conference on Efficiency, Cost, Optimisation, Simulation and Environmental Impact of Energy Systems, <https://ecos2022.dtu.dk/> (*conference submit*)
- WP10
  - Online article, <https://www.lneg.pt/en/lneg-is-part-of-the-leap-re-consortium-on-two-projects-dealing-with-energy-sustainability-and-development-in-africa/> (*others*)
- WP12
  - Falchetta, A Research Agenda for Planning and Financing Nexus Development Objectives in Rural Sub-Saharan Africa. Available at <http://dx.doi.org/10.2139/ssrn.4024065> (*scientific journal submit*)
  - Falchetta et al., M-LED: multi-sectoral latent electricity demand assessment for energy access planning, 2021, *Environ. Res. Letters*, vol 16 n.7 (*scientific journal publication*). Available at <https://iopscience.iop.org/article/10.1088/1748-9326/ac0cab>
  - Falchetta, Energy access investment, agricultural profitability, and rural development: time for an integrated approach, 2021, *Environ. Res.: Infrastructure and Sustainability*, vol 1 n.3 (*scientific journal publication*). Available at <https://iopscience.iop.org/article/10.1088/2634-4505/ac3017>
- WP13
  - D. Poli (UNIFI), D. Fioriti (UNIFI), R. Mereu (POLIMI), AEIT - Sezione Toscana e Umbria - "Le minigrid ibride come strumento per l'elettificazione sostenibile delle aree rurali del mondo Ecosystem" [https://www.aeit.it/aeit/eventi/aeit\\_20220318ww\\_598.pdf](https://www.aeit.it/aeit/eventi/aeit_20220318ww_598.pdf) (*conference publication*)
  - UH, Business Model Evaluation Framework for rural Micro-Grid business ecosystem" Applied Energy Journal IEEE conference EEM22 <https://www.eem22.eu/> (*conference submit*)
  - "Technological Innovation System of Private Mini-Grids in Kenya" <https://www.eem22.eu/> (EEM2022) (*conference submit*)

- POLIMI, Minigrad sizing and the issue of data-paucity in developing countries. A case study in rural Rwanda at IEW 2022 conference <https://iew.conexio-pse.de/> (*conference publication*)
- UH, "Analysis of Private Mini-Grid Development for Rural Rwanda" (IEEE PES & IAS PowerAfrica Conference5 <https://ieee-powerafrica.org/>) (*conference publication*)
- Fioriti et al., Multiple design options for sizing off-grid microgrids: A novel single-objective approach to support multi-criteria decision making, 2022, *Sust. En.*, vol 30, ISSN 2352-4677, (*scientific journal publication*). Available at <https://doi.org/10.1016/j.segan.2022.100644>
- Dibaba et al., Feasibility of rural electrification and connectivity—A methodology and case study, 2022, *Ap. En.*, vol 315, ISSN 0306-2619, (*scientific journal publication*). Available at <https://doi.org/10.1016/j.apenergy.2022.119013>

The information collected above has been organised and clustered to better represent the status of scientific contributions of Pillar 2. It is evident that most of the contributions come from research-oriented WPs, namely those WPs whose purpose is the production of new research evidence, opposite from innovation-oriented WPs, aimed to produce pilot projects characterized by higher technology readiness levels (TRL).

### Scientific dissemination contributions - Pillar 2 (M21)

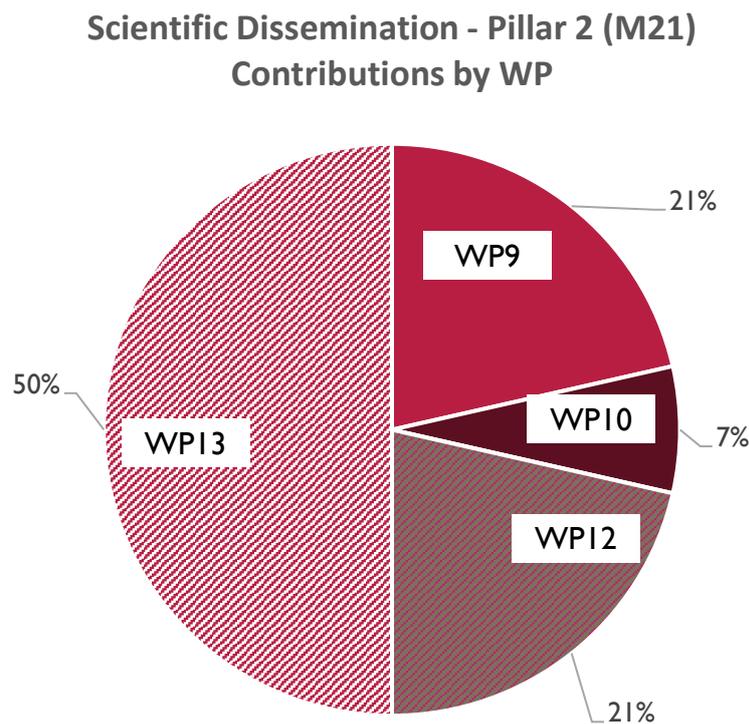


**Figure 1**

**Figure 1** illustrates that most of the scientific dissemination contributions carried to date consist of conference submissions and publications (in green). The former ones refer to published conference proceedings or to conferences attended during the monitoring period. A total of 4 articles have been published on scientific peer-reviewed international journals, acknowledging LEAP-RE as supporting project. To the date, no E-books have been published, even though some LEAP-RE partners have already planned to publish by next year in high-level scientific book series.

It is worth highlighting that these and more contributions come from the joint work of LEAP-RE researchers of different institutions, representing tangible outputs of the cross-fertilizing partnerships within LEAP-RE. This trend is expected to continue in the upcoming months and ad-hoc monitoring is to be performed.

Finally, **Figure 2** represents the share of each WP to the scientific dissemination contributions of Pillar 2. A large portion of the contributions (more than the 90%) comes from WP9, WP12 and WP13, while half of the WPs have not reported of any relevant publication related to LEAP-RE. This figure shows much room for scientific dissemination at Pillar 2 level, which should be balanced and shared among partners. However, the total number of 14 relevant contributions reflects LEAP-RE scientific commitment.



**Figure 2**

## 4. Conclusions and recommendations

It is understandable that at year of LEAP-RE programme, the scientific dissemination is still relatively low due to ongoing data collection and peer-review processes. However, as already highlighted, most of the contributions at Pillar 2 level has been carried by only two WPs. Therefore, this report advocates LEAP-RE partners to keep embracing high quality scientific work, coordinated by WP leaders.

A second recommendation relates to the dissemination of the research results. All the contributions are invited to embed the string: “Financial support from the European Commission H2020 funded project LEAP-RE (Long-Term Joint EU-AU Research and Innovation Partnership on Renewable Energy), Grant Number 963530 is gratefully acknowledged” in the acknowledgement section. This string allows the trackability of LEAP-RE outputs, and makes our contributions visible to external researchers to LEAP-RE. It is also to be noted that all research articles within the LEAP-RE programme should be published with an open-access license enabling the wider readership and applicability of the results.

Finally, it is worth mentioning that the periodic technical reports produced by the WPs have sections devoted to the scientific dissemination monitoring at WP level. The following mapping exercises (M39, M63) would be facilitated if such sections were properly and actively compiled, reporting all the meaningful contributions of the WP, with adequate attribution of authors of conference submissions, too. Moreover, dissemination contributions other than conference participations and scientific publications must be accounted in future technical reports and deliverables; these include policy briefs, result presentations to local community groups and stakeholders, didactic materials or toolkits, open-source databases, and coding structures. Future analyses could also expand the mapping towards the quantification of the impact achieved by the contributions (e.g., assessing the H-index at LEAP-RE level), together with a tracking consistent with the indicators reported in the M&E framework of Pillar 2.



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**LEAP-RE**

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**List of LEAP-RE Dissemination Activities**

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Authors : Pr. Emanuela COLOMBO (POLIMI)

LEAP-RE - Contract Number: 963530

Project officer: Bernardo Luis ABELLO GARCIA

Document title	List of LEAP-RE Dissemination Activities
Author(s)	Pr. Emanuela COLOMBO
Number of pages	8
Document type	Deliverable
Work Package	WP4
Document number	D4.7
Issued by	POLIMI
Date of completion	2022-07-28 15:45:40
Dissemination level	Error (13) !

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### Summary

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### Approval

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