



DELIVERABLE REPORT

WP7 Communication, dissemination and training

D7.4

REPORT ON e-SAFE DISSEMINATION ACTIVITIES

Due date

M24 30.09.2022

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e-SAFE

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Energy and Seismic Affordable rEnovation solutions

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- P - Public
- PP - Restricted to other programme participants & EC: (Specify)
- RE - Restricted to a group (Specify)
- CO - Confidential, only for members of the consortium

TYPE

- R - Report
- DEM - Demonstrator
- DEC Websites, patents filing, videos, etc.
- OTHER
- ETHICS – Ethics requirement
- OPRP - Open Research Data Pilot
- DATA – Data sets, microdata, etc.

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EXECUTIVE SUMMARY

This Deliverable is a report showing the outcomes of the dissemination and communication activities performed by the **e-SAFE** consortium in the first two years of the project.

Following the structure of D7.1 "Communication and Dissemination Plan" [1], this report is divided into two sections: in the first one, the main communication channels will be presented, and their impact on **e-SAFE**'s dissemination will be analysed; in the second one, we will focus more on the consortium's activities to effectively disseminate the project results through the scientific community, the project stakeholders and the general public.

This document will be updated at M48 to report the communication and dissemination activities performed until the end of the project.

GLOSSARY OF TERMS

ACRONYM	DESCRIPTION
AB	Advisory Board
CA	Consortium agreement
DEG	Dissemination & Exploitation Group
EC	European Commission
GAg	Grant Agreement
GA	General Assembly
IP / IPR	Intellectual Property / Intellectual Property Right
IT&FR	Internal Technical and Financial Report
KoM	Kickoff Meeting
KMP	Knowledge Management and Protection
MB	Management Board
NA	Not Applicable
PC	Project Coordinator
PO	Project Officer
PR	Periodic Report
QAP	Quality Assurance Plan
STC	Scientific and Technical Committee
TM	Technical Manager
WP	Work Package
WPL	Work Package Leader

1. INTRODUCTION

Overall, in the first 24 months, the e-SAFE consortium performed **195 activities** to communicate and disseminate the project results. All of them are collected and documented in the monitoring tool developed by Moverim: the **dissemination table**. It has been created to keep track of all activities carried out in the framework of the project. Moverim has therefore organized the table as a shared, living document on SharePoint (managed by Moverim), trying to make it as intuitive as possible (see also Deliverable D7.1 [1]). Partners are encouraged to add the activities performed and planned from time to time.

The dissemination table collects information from partners within four main sections: completed dissemination activities, scientific publications, IPR Management and future dissemination activities.

The main dissemination activities that e-SAFE partners carried out by M24 are press releases (including articles, news and newsletters) and participation and organization of different events (conferences, workshops, webinars and others). A short summary of the activities done is provided below:

Table 1: Completed dissemination activities

TYPE OF ACTIVITY	N°
Organization of Conference	3
Organization of Workshop	11
Websites/Applications	1
Press releases	69
Flyers	13
Exhibitions	0
Non-scientific and non-peer-reviewed publications (popularized publication)	5
Training	12
Social Medias	6
Communication Campaigns (e.g. Radio, TV)	5
Participation to a Conference	33
Participation to a Workshop	9
Participation to an Event other than a Conference or a Workshop	14
Video/Film production	12
Brokerage Event	0
Pitch Event	0
Trade Fair	0
Participation in activities organized jointly with other H2020 projects (clustering)	1
Other (specify in the column NOTE)	1
TOTAL (M1-M24)	195

Below are described more in detail the dissemination activities performed by the e-SAFE consortium up to M24, using the dissemination channels presented in Deliverable D7.1 "Communication and Dissemination Plan" [1].

2. COMMUNICATION AND DISSEMINATION CHANNELS

e-SAFE uses different communication and dissemination channels that ensure good project visibility towards the identified target groups and the general public. Also, these channels are fundamental to engaging with these target groups to disseminate the project outputs effectively.

2.1 Project website

The e-SAFE website is available at <https://esafe-buildings.eu/en/>, a crucial tool for spreading the word about the project, and create awareness about its objectives, goals, and consortium. The website was indispensable for communicating with the scientific, technical and stakeholder communities and the public.

As explained in Deliverable D7.2 [2], the webpage condensed complex ideas into a few images and audio-visual materials as they are essential for communication and leave a lasting impression on viewers. For example, the website's colours (and of e-SAFE) are impactful and unique. Aside from the aesthetic of the web page, specific website sections were fundamental for dissemination purposes, first the «News». Through them, e-SAFE kept the visitors up to date with the project's activities, the scheduled events, the latest technical and regulatory news on energy efficiency, building renovation and seismic retrofitting, and financial incentives for the above-listed topics.

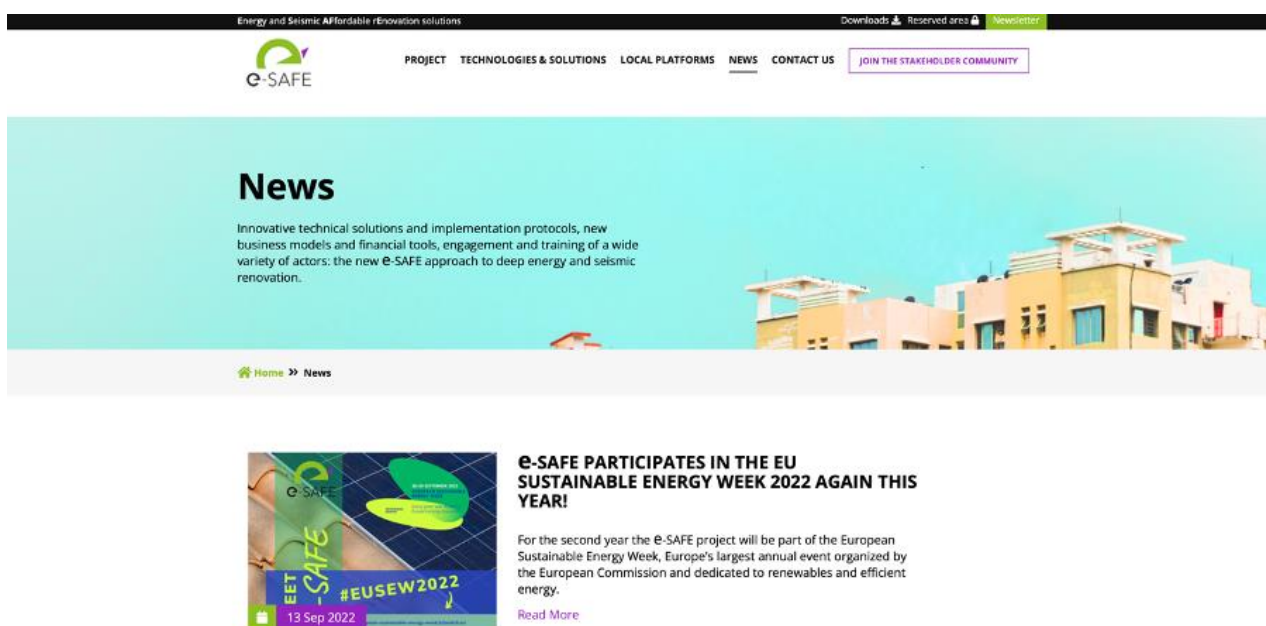


Figure 1: e-SAFE “News” webpage

Throughout the “News” section, the project was able to communicate regarding activities done by the consortium, give highlights of the events attended, and more to keep the public involved.

At the moment, **31 news** are published on the websites. They can be generally divided into two categories: the first is about the events, webinars, surveys, and calls that e-SAFE has organized or taken part in. The second category comprehends news aimed at giving the visitors an update on the project and keeping them involved. News of this latter type was, for example, about technologies developed and their application to real buildings; furthermore, informative news was published to

keep the visitors informed about the project's development and raise awareness for seismic safety and energy efficiency.

All the news was fundamental to attracting our target audiences and stakeholders, and it was also crucial to foster an engagement that will last over time. Furthermore, it kept visitors up-to-date on the latest news on energy efficiency, building renovation, and seismic retrofitting. Seeing the periodicity of the news, our audience felt compelled to come back for more information and come back to the website for further updates. An exhaustive list of the news published so far can be found in the table below. The ones in purple represent those that received more views in absolute terms, analyzed by Google analytics.

Table 2: News published

NEWS TITLE	WEBSITE
Set plan virtual conference 2020	December 2022
Integrated techniques for the seismic strengthening and energy efficiency of existing buildings	December 2022
Energy and seismic renovation: the EUROPEAN H2020 PROGRAMME	January 2021
Participate in e-SAFE's short survey	May 2021
Time to engage with locals: kick-off meeting of the local platform in Catania	July 2021
A new model to engage with locals: Catania local platform	July 2021
Workshop with stakeholders of the e-SAFE Catania Local Platform	September 2021
What is the link between seismic renovation and decarbonization?	September 2021
e-SAFE at the Matrycs Big Data Alliance (BDA) Introduction Webinar	September 2021
The e-SAFE project at the EU Sustainable Energy Week 2021	October 2021
e-SAFE progress meeting in Catania	October 2021
The twin transitions towards equality and clean energy	October 2021
The e-SAFE'S Energy Talk at EUSEW 2021 (recording now available)	November 2021
World conference on timber engineering – call for abstracts 2023	November 2021
Co-design workshops and mutual learning with stakeholders at the pilot site in Catania	November 2021
THE e-SAFE stakeholder community on LinkedIn	December 2021
The 2021 European research and innovation days report. e-SAFE in the shift towards Horizon Europe	January 2022
e-SAFE on FocuSicilia. Interview to the project coordinator Giuseppe Margani	February 2022
e-SAFE applied for the 2022 SHC solar Award call for nominations!	February 2022
e-SAFE and the recast EPBD proposal go hand in hand when it comes to seismic resilience and a fair and just transition towards climate neutrality	February 2022
e-SAFE applied for the festival of the new European Bauhaus!	March 2022
Transform your building with e-SAFE!	April 2022
The e-SAFE decision support system is ready!	May 2022
Application process open: EU-funded project offering free renovation advice and support for energy and seismic safety	May 2022
"Affordability vs sustainability? Not necessarily": the e-SAFE panel discussion at international social housing festival.	June 2022
e-SAFE at the 1st edition of the new European Bauhaus festival!	June 2022
Ensuring safe and energy efficient buildings: how to implement integrated seismic and energy efficiency renovations through the revised EPBD	July 2022
e-SAFE call for virtual pilots: deadline extended!	July 2022

PRO-GET-ONE & e-SAFE cluster event – deep energy renovation of residential buildings with seismic strengthening approaches	August 2022
CET Partnership: the Joint Call 2022 for new projects towards green transition is now open	September 2022
e-SAFE participates in the EU sustainable energy week 2022 again this year!	September 2022

Another relevant tool for dissemination purposes was the «join the stakeholder community» section (Figure 2). By filling out the form, those people interested in joining the e-SAFE stakeholder community get the opportunity to contribute to the project. This option was crucial for dissemination purposes. Please refer to Deliverable D7.2 [2] and Deliverable D2.1 [3] to get deep insights on this tool.



Figure 2: e-SAFE “Join the Stakeholder Community” option

2.2 Social network accounts

So far, the project has opened five accounts on different social media:

- Twitter: <https://twitter.com/eSAFEbuildings>
- Facebook: <https://www.facebook.com/esafebuildings>
- LinkedIn: <https://www.linkedin.com/company/e-safe-buildings>
- Instagram: https://www.instagram.com/esafe_buildings/
- YouTube: <https://www.youtube.com/channel/UCeUVLI9caywN5jBOd42pcA>

Social media are fundamental for dissemination and being active on various social media platforms presents a huge opportunity. On the one hand, the features of different social media platforms enable sharing of a variety of content, including articles, videos, infographics, and news. On the other hand, you can connect with various target audiences using social media, from the broadest to the most specific.

Twitter is used to communicate brief messages. The project uses a different language with more hashtags and links to adapt to the features of this social network. The information presented here is geared toward spreading information about project updates and is used to locate key players, particularly public officials, and policymakers. As well as, to disseminate project news and updates, website content, and recycled content from other sources that are pertinent to e-SAFE goals.

On **Facebook** the project shares its events through dedicated posts, pictures, and videos. It is mostly used for project news, results, and activities in pilot sites to be communicated and disseminated. Communicating with locals, residents, and building owners is simpler. Facebook is the best tool for connecting with local users in Catania.

Being a business network, **LinkedIn** draws a more niche audience by design. Researchers, SMEs, and technicians make up the e-SAFE audience and are likely interested in the project's development and outcomes. Most of the posts are about updates on the project, publications and achievements, and events organized and in which the project took part. This platform seems to be strategic for dissemination and exploitation purposes to businesses and professionals in the e-SAFE target areas across Europe.

Instagram is used for social networking and online photo sharing. It serves as a self-contained repository for all project-related images, which are more searchable and accessible on this channel than on the project website. Mainly used to show people the benefits of e-SAFE solutions by sharing pictures and brief videos of renovation work done in pilot sites. The e-SAFE Instagram page is very active: reels, posts and stories are often used to share the project activities and gather more audience.

Finally, **YouTube** is well known for sharing videos. The goal of the YouTube channel is to share highlights from the project, promotional videos, webinars/training content and interviews, such as the series “Meet the e-SAFE team” which will be better presented in Section 2.7. This series aims to introduce the public to the project and its participants by showcasing their research stories and contributions.

At M24, the progress achieved through social networking is very positive and well beyond expectations, having almost achieved the defined KPIs (see Deliverable D7.1 [1]) by the end of the project's second year. These results are summarized in the table below:

Table 3: Social network progresses

SOCIAL NETWORK	RESULTS	GOAL
Twitter	197 TWEETS	100
	425 FOLLOWERS	400
	273 LIKES/RETWEETS	250
LinkedIn	210 CONNECTIONS	200
	143 POSTS	150
	620 REACTIONS/SHARES	350



Facebook	142 POSTS	200
	114 FOLLOWERS	300
	98 PAGE LIKES	250
YouTube	1385 VIEWS	3000
Instagram	457 FOLLOWERS	300
	43 POSTS	150
	633 LIKES	500

As we see from the table, **Twitter** is the one that already fulfilled the KPIs completely. June 2022 and September 2022 are the months with the most profile visit and tweets impressions, the same month where the NEB and EUSEW 2022 took place.

It is also noticeable the number of reactions, shares, and connections the **LinkedIn** profile had and, by being a business network, **e-SAFE** attracted a more specific audience.

Instagram performed relatively well. The **e-SAFE** page grew in followers and in likes. One of the reels that the account posted reached more than 3k views, and the page's impression grew quite fast in the last months.

Impression **10.376**
rispetto a 1 ago - 31 ago **+500%**

Figure 3: e-SAFE Instagram Impression

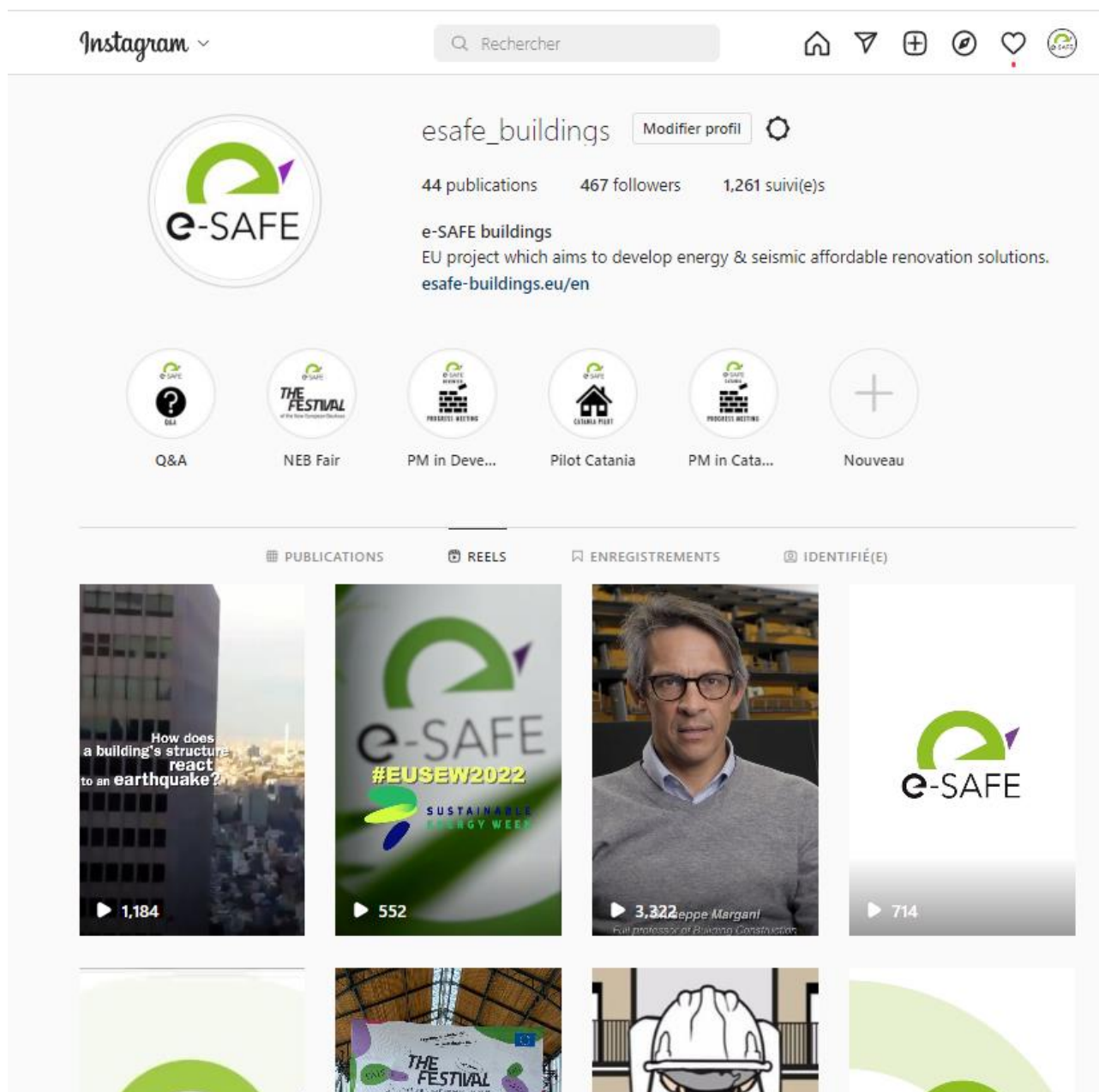


Figure 4: e-SAFE Reels with the number of views

By looking at **YouTube** analytics the channel got 1385 views and 31 new subscribers. Furthermore, the most viewed video was the **e-SAFE** project animated video.

Lastly, **Facebook** performed decently, considering that it is a social network that has lost a lot of popularity in recent years to the detriment of others (first and foremost Instagram).



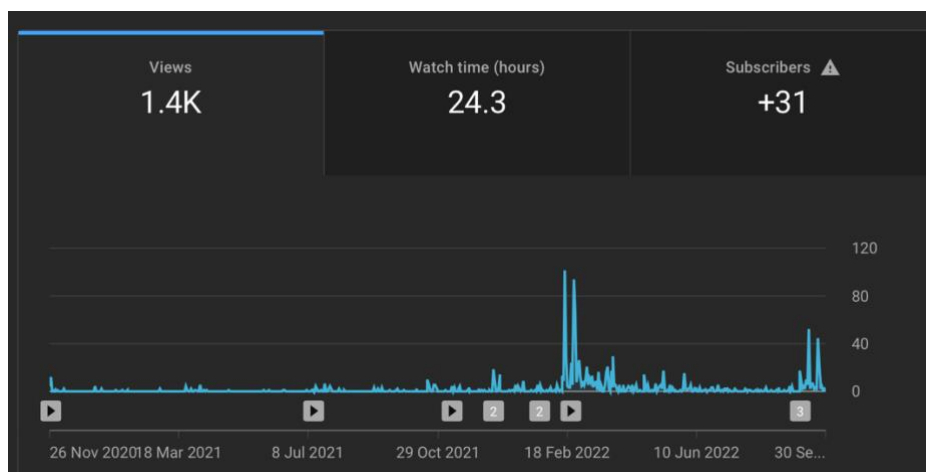


Figure 5: e-SAFE YouTube analytics

2.3 e-Newsletters

e-SAFE published regular digital newsletters that are used to share up-to-date information about the project, generate awareness, and engage with stakeholders. The newsletter is fundamental because it communicates project updates and showcases the most significant deliverables, articles, upcoming events, and the work done at the local level.

Stakeholders who subscribe to the newsletter are public authorities/policymakers, public agencies, associations, researchers, civil society, energy companies, financial services, and actors involved in manufacturing, engineering, and construction.

The project has released three newsletters available on e-SAFE website:

The **first newsletter** provides a first introduction to the e-SAFE project. It introduces the project Coordinator, Giuseppe Margani, and the e-SAFE team. It also informs about the beginning of e-SAFE 's real pilot activities in Catania (Italy) and how they started. Lastly, it gives an overview of the innovative technologies that e-SAFE provides.

The **second newsletter** provides project updates and information about events such as the local platform kick-off meeting in Catania, EU Sustainable Energy Week 2021, and other activities that e-SAFE's representatives participated in and organized, while also informing about the stakeholder community platform launch.

The **third newsletter** provides relevant information about the project's general activities and development. Notably, this newsletter includes information regarding the results of the pilot site in Catania. It informs that the project is looking for two more sites to work with and invites those interested to apply.

The newsletters were written by BPIE and were edited and sent by Moverim using SendinBlue. The table below shows data related to the 3 newsletters:

Table 4: Newsletter

NEWSLETTER EDITION	DATE	RECIPIENTS	OPENING RATE
e-SAFE 1 st Newsletter	21.05.2021	156	29,33%
e-SAFE 2 nd Newsletter	27.10.2021	155	30,2%
e-SAFE 3 rd Newsletter	30.03.2022	202	39,77%

2.4 Press releases

After the project Kickoff Meeting, MOVERIM wrote the first press release, which was then posted on The Community Research and Development Information Service (CORDIS), the European Commission's primary source of results from the projects funded by the European Union. The press release was issued under the title [Energy and seismic renovation: the European H2020 Programme finances the e-SAFE project.](#)

The press release provided a dense and complete overview of the project objectives, goals, technological innovation and other general info. The same press release was modified, published on the partners' websites, and translated into national languages.

As for dissemination purposes, posting on CORDIS – and the other websites – and translating in multiple languages were of fundamental importance to increase the project's long-term visibility and impact.

Another Press release was issued by BPIE on May 2022 outlining the opportunity to apply for the selection of a virtual pilots opened by the e-SAFE project, under the name [Application process open: EU-funded project offering free renovation advice and support for energy and seismic safety.](#)

2.5 Build Up Portal

The Executive Agency for Small and Medium-sized Enterprises (EASME) oversees the European Portal for Energy Efficiency in Buildings (BUILD UP), which offers members a platform to post news, events, and activities related to energy efficiency in buildings. As Work Package Leader for Communication and Dissemination, MOVERIM shared news and articles related to the project on this portal on the behalf of the e-SAFE project. Since the creation of its profile, e-SAFE has kept the audience updated on the latest news, and press releases which were fundamental to improve its impact on the public and share the latest project results.

Two articles have been published so far and the table below shows the data provided by the BUILD-UP portal:

Table 5: BUILD-UP Portal news

NEWS TITLE	DATE	READS
Ensuring safe and energy efficient buildings: How to integrate seismic-safety with energy renovations in the EPBD	July 2022	458
Pro-GET-onE & e-SAFE cluster event – Deep energy renovation of residential buildings with seismic strengthening approaches	August 2022	466

2.6 Media communication

The project planned specific actions to ensure adequate media coverage of e-SAFE and its outcomes. To raise awareness of the project's goals and products, the project partners compiled a list of media contacts, including influential journalists on seismic retrofitting, seismic renovation, and seismic upgrades.

MOVERIM and BPIE oversee the Media relations targeting the general public, residents of the pilot cities, and broader targets like businesses, policymakers, and others. More specifically, MOVERIM, together with the assistance of the partners, created an up-to-date information press kit for all the project's significant events to deliver necessary background information about the project in a clear, concise, and user-friendly manner, fundamental for effective dissemination.

Specifically, in July 2021 an interview in Italian with Prof. Laura Saija was published in the Sicilian newspaper "FocuSicilia" under the title "[Rischio sismico, l'idea di UNICT. Agire dall'esterno e risparmiando la metà](#)". The interview was fundamental to raising awareness of e-SAFE and its activities mostly at a local level. A second interview issued in January 2022 with Prof. Giuseppe Margani entitled "[Catania, il rischio sismico e la rivoluzione tecnologica e-SAFE](#)" was equally important to sensitize the public to the issue the project wants to tackle and to provide information about its innovative technologies.



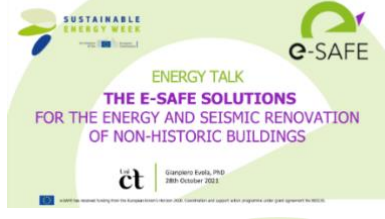
Furthermore, an article under the title "[Banish retrofit blues with one-stop-shop and better living](#)" was issued in the European Commission Horizon Magazine in August 2022. The articles stressed that in seismic-prone countries, homes must be retro-fitted for energy efficiency and seismic events like earthquakes while praising e-SAFE for its work and the effort in overcoming obstacles.






2.7 Videos

Audio-visual materials are an indispensable communication and dissemination tool, for this reason, it was decided to make an audiovisual communication campaign to engage a general audience and especially stakeholders. 11 videos were created by the consortium and uploaded to YouTube, one of which featured an animated presentation on the e-SAFE concept and goals. The ad-hoc communication campaign was prepared by MOVERIM and all the videos were shared on all e-SAFE social networks and by partners in their networks.

Here is a list of the YouTube videos published and the number of views they received:

Table 6: e-SAFE videos on YouTube


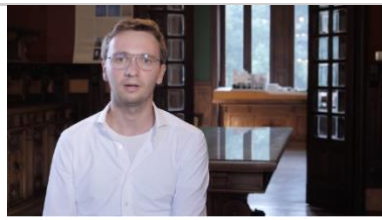

VIDEO TITLE, LINK AND DESCRIPTION	PUBLICATION	IEWS	PREVIEW
e-SAFE project introduction - Prof. Giuseppe Margani Università degli Studi di Catania Presentation and short summary of e-SAFE by the coordinator Prof. Giuseppe Margani - University of Catania	27 November 2020	92	
e-Safe: Catania Local Platform - Launch event Video of the launch event of the Catania Local Platform, hosted by University of Catania, 9 th July 2021.	13 July 2021	93	
EUSEW Energy Talk by Gianpiero Evola (UNICT) Giampiero Evola from UNICT held an Energy Talk at the EUSEW 2021 «The e-SAFE solutions for the energy and seismic renovation of non-historic buildings».	10 November 2021	59	

<p><u>CO-DESIGN WORKSHOP for energy and seismic renovation of public housing</u></p> <p>Video of the workshop</p>	<p>16 December 2021</p>	<p>64</p>	
<p><u>e-SAFE: Innovative solutions for seismic and energy renovation of non-historic buildings</u></p> <p>e-SAFE presentation during the "Improving Safety in Housing" webinar organised by the EU-funded Pro-GET-onE project</p>	<p>21 December 2021</p>	<p>109</p>	
<p><u>e-SAFE @ SIET Conference 2021</u></p> <p>Talk given by Victoria Taranu and Rutger Broer from BPIE at the SIET Conference</p>	<p>25 January 2022</p>	<p>36</p>	
<p><u>Can e-SAFE increase the seismic performance of buildings?</u></p> <p>Video demonstrating how e-CLT panels work</p>	<p>14 February 2022</p>	<p>204</p>	
<p><u>e-SAFE project animated video</u></p> <p>Animated video of e-SAFE</p>	<p>21 February 2022</p>	<p>500</p>	

Apart from these YouTube videos, **e-SAFE** just launched at M24 the series **"Meet the e-SAFE team"** that aims to give a face to the researchers and technicians behind the **e-SAFE** project. Through short interviews realized over the project's second year, the protagonists tell us who they are and their role within **e-SAFE**. This is fundamental for dissemination as it creates a sort of familiarity within the project and among those who are interested. These interviews humanize scientific research by putting the public in direct contact with its protagonists and highlighting the human element that drives projects that the EU supports in terms of research and innovation. So far, we realized 10 interviews and 3 of them are already on YouTube. The others will be published in the next months before the end of the 2022.



Table 7: Meet the e-SAFE team series on YouTube

VIDEO TITLE AND LINK	PUBLICATION	VIEWS	PREVIEW
<u>Meet the e-SAFE team: Prof. Giuseppe Margani</u>	8 September 2022	83	
<u>Meet the e-SAFE team: Bart Voortman</u>	14 September 2022	79	
<u>Meet the e-SAFE team: Prof. Laura Saija</u>	23 September 2022	46	



3. COMMUNICATION AND DISSEMINATION ACTIVITIES

3.1 Scientific Conferences

Over the last two years, e-SAFE participated in **18 scientific conferences** where partners had the opportunity to share the project's developments and results with the scientific community. Among e-SAFE partners, UNICT, UNIBO, NMBU, ENG, BPIE and SAMPAS gave their contributions illustrating specific aspects of the project. Therefore, the events reported below were relevant to the project as important opportunities to disseminate the project results and enhance the project visibility, in particular – but not exclusively – among the scientific community.

Table 8: List of scientific conferences attended

CONFERENCE TITLE	WEBSITE	DATE	PAPER OR PRESENTATION (IF ANY)
8 th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering (COMPDYN 2021)	https://2021.compdyn.org/	28/06/2021	"Impact of retrofit of RC frames by CLT panels and friction dampers"
			"Optimization of The Slip Force in A Novel Friction-Based Connection For The e-CLT Technology"
6 th AIGE/IIETA International Conference	http://www.aigeancona2021.univpm.it/	05/07/2021	"Hygrothermal analysis of CLT-based retrofit strategy of existing wall assemblies according to EN 13788 Standard"
8 th International Building Physics Conference (IBPC 2021)	https://www.ibpc2021.org	25/08/2021	"The e-SAFE energy and seismic renovation solutions for the European building stock: main features and requirements" + presentation of a poster
Carbon Neutral Cities - Energy Efficiency & Renewables in the Digital Era (CISBAT 2021)	https://cisbat.epfl.ch/	08/09/2021	"Preliminary investigation on the transient hygrothermal analysis of a CLT-based retrofit solution for exterior walls"
Colloqui-AT.e 2021 - Artec Conference - Design and Construction. Tradition and innovation in the practice of architecture	https://artecweb.org/2021/it/	08/09/2021	"Technological analysis of prefabricated timber-based panels for the integrated renovation of RC framed buildings"
12 th International Conference on Structural Analysis of Historical Constructions (SAHC)	https://congress.cimne.com/SAHC2020/frontal/default.asp	29/09/2021	"Mechanical characterization of energy dissipation devices in retrofit solution of reinforced concrete frames coupled with solid wood panels"
16 th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES)	https://www.dubrovnik2021.sdewes.org/	10/10/2021	"e-SAFE: energy and seismic affordable renovation solutions for the decarbonisation and seismic safety of the EU building stock"
Assemblea generale Federcasa		20-06-22	Title of the presentation: "Regional and local policy makers; social housing agencies; SMEs; energy companies"

XXIV National Conference SIU (Italian Society of Urbanists). "Worthing values for urban planning"	https://www.societaurbanisti.it/conferences/dare-valore-ai-valori-in-urbanistica/	23-06-22	Title of the paper: "Welfare abitativo e Rigenerazione urbana nella fase di Recovery. Sperimentazioni d'azione collettiva a Catania"
BSA 2022 5 th Building Simulation Applications Conference	https://bsa.events.unibz.it/	29-06-22	Title of the paper: "Energetic optimisation of the domestic hot water system in a residential building by means of dynamic simulations"
		30-06-22	Title of the paper: "Heat and mass transfer modelling for moisture related risks in walls retrofitted by timber materials"
5 th International Conference on Structures and Architecture (ICSA 2022)	https://www.icsa2022.create.aau.dk/	06-07-22	Title of the paper: "Restoration of existing RC frame buildings with CLT panels: experimental and numerical study on innovative connection system"
ANIDIS XIX & ASSISi XVII - 2022	http://convegno.anidis.it/index.php/anidis/2022	11-09-22	Title of the paper: "Experimental tests of aluminum-steel asymmetric friction connections to improve the seismic response of RC structures"
International Conference on Sustainability in Energy and Buildings (SEB 22)	http://seb-22.kesinternational.org/	14-09-22	Title of the paper: "A decision support tool for the preliminary co-design of energy and seismic retrofitting solutions within the e-SAFE project"

3.2 Scientific and technical publications

e-SAFE researchers released **14 scientific publications** in the first 24 months of the project. Starting from M4, Moverim has kept track of the publications related to the project's research activities. All the scientific publications released by e-SAFE partners are collected in the monitoring tool presented above (i.e., the dissemination table) according to different parameters (DOI, Title, Authors, etc.) that are shown in the table below:

Table 9: List of scientific publications

D.O.I.	TITLE	AUTHOR(S)	JOURNAL	PUBLICATION DATE
https://doi.org/10.3390/en14134006	Hygrothermal and acoustic performance of two innovative envelope renovation solutions developed in the e-SAFE project	Evola G.; Costanzo V.; Marletta L.	Energies	02-07-21
https://doi.org/10.5281/zenodo.5560506	e-SAFE: energy and seismic affordable renovation solutions for the decarbonisation and seismic safety of the EU building stock	Evola G.; Margani G.; D'Urso S.; Marino E. M.; Saija L.; Semprini G.; Mazzotti C.; Ferrante A.; Arnone D.; Moran M.; Yumlu S.; Dorizas V.; Zagorianakos C.; Vivani L.; Tomasi R.;	Proceedings of 16 th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES)	11-10-21

		Halmdienst C.; Voortman B.; Baratta I.		
https://doi.org/10.5281/zenodo.5586372	Mechanical characterization of energy dissipation devices in retrofit solution of reinforced concrete frames coupled with solid wood panels	Tardo C.; Boggian F.; Hatletveit M.; Marino E. M.; Margani G.; Tomasi R.	Proceedings of 12th International Conference on Structural Analysis of Historical Constructions (SAHC 2021)	29-09-21
https://doi.org/10.5281/zenodo.5603046	Technological analysis of prefabricated timber-based panels for the integrated renovation of RC framed buildings	Tardo C.; Fiore G.; Margani G.	Proceedings of Colloqui.AT.e 2021. Design and construction. Tradition and innovation in the practice of architecture	08-09-21
https://doi.org/10.5281/zenodo.5506679	Preliminary investigation on the transient hygrothermal analysis of a CLT-based retrofit solution for exterior walls	Costanzo V.; Evola G.; Roccella G.; Marletta L.	Proceedings of CISBAT 2021 Conference	09-09-21
https://doi.org/10.1088/1742-6596/2069/1/012224	The e-SAFE energy and seismic renovation solutions for the European building stock: main features and requirements	Evola G.; Margani G.; Costanzo V.; Tardo C.; Marino E. M.; Semprini G.; Tomasi R.; Halmdienst C.; Voortman B.	Proceedings of 8 th International Buildings Physics Conference (IBPC 2021)	25-08-21
https://doi.org/10.5281/zenodo.5548289	Hygrothermal analysis of CLT-based retrofit strategy of existing wall assemblies according to EN 13788 Standard	Costanzo V.; Evola G.; Gagliano A.; Nocera F.; Marletta L.	Proceedings of 6 th AIGE/IIETA International Conference and 15 th AIGE 2021 Conference (AIGE/IIETA)	08-07-21
https://doi.org/10.5281/zenodo.5576084	Impact of Retrofit of RC frames by CLT panels and friction dampers	Barbagallo F.; Margani G.; Marino E.M.; Moretti A.; Tardo C.	Proceedings of Compdyn 2021, 8 th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering	30-06-21
https://doi.org/10.7712/120121.8631.18620	Optimization of the slip force in a novel friction-based connection for the e-CLT technology	Aloisio A.; Boggian F.; Tomasi R.	Proceedings of COMPDYN 2021 - 8 th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering	28-06-21
10.1016/j.engstruct.2021.103122	Design of a novel seismic retrofitting	Aloisio A.; Boggian F.; Tomasi R.	Engineering Structures	21-01-22

1.11380 Z	system for RC structures based on asymmetric friction connections and CLT panels			
https://doi.org/10.1061/(ASCE)ST.1943-541X.0003313	Experimental cyclic response of a novel friction connection for seismic retrofitting of RC buildings with CLT panels	Boggian F.; Tardo C.; Aloisio A.; Marino E. M.; Tomasi R.	Journal of Structural Engineering	10-03-22
https://doi.org/10.1007/s10518-022-01337-8	Optimization of the structural coupling between RC frames, CLT shear walls and asymmetric friction connections	Aloisio A.; Pelliciaro M.; Sirotti S.; Boggian F.; Tomasi R.	Bulletin of Earthquake Engineering	16-02-22
https://onlinelibrary.wiley.com/doi/10.1002/ege.3724	Experimental and analytical study of Friction Connection for seismic retrofit with Cross-Laminated Timber (CLT) panels	Boggian F.; Aloisio A.; Tomasi R.	Earthquake Engineering Structural Dynamics	01-09-22
https://doi.org/10.1016/j.buildenv.2022.109442	Energy performance of a prefabricated timber-based retrofit solution applied to a pilot building in Southern Europe	Evola G.; Costanzo V.; Urso A.; Tardo C.; Margani G.	Building and Environment	31-07-22

In addition, other 3 publications are forthcoming, as illustrated in the table below:

Table 10: List of forthcoming scientific publications

TITLE	AUTHOR(S)	JOURNAL
Welfare abitativo e Rigenerazione urbana in fase di recovery. Sperimentazioni d'azione collettiva a Catania (Housing Welfare and Urban Regeneration in the Recovery Phase. Collective action experiments in Catania.)	Barbanti C.; Saija L.; Li Destri Nicosia G.	2022 SIU Conference Proceedings
Technological analysis of a prefabricated timber-based system for the integrated renovation of RC framed buildings	Tardo C.; Margani G;	TEMA - Technologies, Engineering, Materials and Architectur
Oltre l'inclusione: prospettive sulla Terza Missione	Li Destri Nicosia G.; Saija L.	Urbanistica Informazioni

3.3 Activities in pilot sites (local level)

e-SAFE dedicated effort to disseminating the activities carried out in pilot sites at a local level, since this is the first step to engaging in a participatory and co-designed process with the local community. With the help of UNICT, BPIE was the partner mainly involved in facilitating participation in the Urban Mapping initiatives within the pilot cities and supporting the engagement and outreach

activities with the local platforms. This included communicating with on-site stakeholders, neighbours, and citizens about the project regularly.

On April 2022 the [Call For Expression Of Interest For Virtual Pilots](#) (see Deliverable D2.4 [4]) was launched and translated into 6 different languages – English and the languages of the target virtual pilot sites (Greek, Romanian, Italian, Bulgarian, and Turkish). The call looked for multi-storey (at least three storeys) non-historical buildings in earthquake-prone areas in Europe and in need of renovation and offered a tailor-made free renovation plans for the selected buildings. To disseminate the Call for Virtual Pilots, the consortium wrote a press release (see paragraph 2.4 above) that has been published on the e-Safe website, spread through some of the partners websites (i.e., Moverim, BPIE, ENG, DELOITTE), and uploaded on BUILD UP (see paragraph 2.5 above). Also, this opportunity has been advertised through direct e-mails to e-SAFE stakeholders' Forum.

3.4 Organisation of training

The training activity started at M19. The e-SAFE partner ENGINEERING, with the support of University of Catania (UNICT) and University of Bologna (UNIBO), has completed the first release of e-DSS, a Decision Support System aimed to assist designers in the preliminary design stage of building renovations based on the e-SAFE technologies. Based on the geo-localisation of the pilot, its geometric features and some information added by the user, the e-DSS guides the designer to choose the most suitable e-SAFE renovation solution. On May 2022, the consortium organized an online webinar to show the e-DSS to early adopters, who tested it and provided feedback on its user-friendliness and usefulness from the perspective of future users. The webinar was organized through Zoom, and 10 experts participated. The event was also disseminated through a [news](#) published on the project website.

3.5 Clustering and networking activities with other EU initiatives

Clustering and networking activities are fundamental for dissemination and exploitation purposes. Through these activities, the e-SAFE consortium was able to discuss the value of combining seismic retrofitting with energy renovation actions with other national, European, or international projects and initiatives. Partners leveraged their networks to increase networking opportunities and took advantage of their involvement in other projects. The e-SAFE partners participated in several EU events where they could establish connections with other projects and initiatives, and they participated in joint information and dissemination activities aimed at increasing synergies and visibility of the various H2020 and EC-supported actions. Below is a brief description of the main initiatives in which e-SAFE was involved.

EUSEW 2021

The project participated in **EUSEW 2021** with an **Energy Talk and a Sustainable Energy Day**. Catania hosted the **Workshop for Engaging Stakeholders in the Field of Deep Renovation** on October 1st, as part of Sustainable Energy Days. Furthermore, Gianpiero Evola held an Energy Talk on October 28th, 2021, under the theme "**The e-SAFE solutions for the energy and seismic renovation of non-historic buildings.**" Moverim, UNICT, and BPIE collaborated in planning and advertising these events through various platforms (both those of the project and those of the different partners).

Moverim wrote two articles regarding this event and published them on the e-SAFE website:

- The e-SAFE project at the EU Sustainable Energy Week 2021
- The e-SAFE Energy Talk at EUSEW 2021 (recording now available)

New European Bauhaus Festival

From 9 to 12 June 2022, **e-SAFE** participated in the first edition of the New European Bauhaus Festival. The event was a great opportunity to bring together a large audience to promote dialogue on a sustainable, inclusive and beautiful future. The Festival was held in a hybrid modality in Brussels and other parts of Europe through the "Side Events" formula. **e-SAFE** participated in the fixed *FAIR* which was held from 9 to 11 June in Gare Maritime (Brussels) with a dedicated booth, showcasing various materials: flyers publicizing the call for virtual pilots, a project roll-up as well as images and videos that were displayed on a screen to explain the main concepts of the project. **e-SAFE** also proposed a 30-minutes workshop entitled «**A seismic shift for retrofit**». It was set up by the University of Catania (UNICT) and held on 9 and 10 June in a dedicated pavilion.

MOVERIM, UNICT and BPIE jointly handled **e-SAFE** participation at the Festival. The European Commission published the call for expression of interest in March, and the three partners took care of the application to the *FAIR*. Once selected, the partners proceeded with the preparation of the virtual on the event platform and the material for the on-site booth, following a series of Info sessions organized by the NEB team.

A further step before the participation to the actual event was the engagement campaign through the Festival's communication toolkit, which came on May 2022. BPIE and MOVERIM curated the latter before and after the event through the **e-SAFE's** communication channels and targeted messages to specific stakeholders.

During the event, **the e-SAFE booth was represented by UNICT on the technical side and MOVERIM and BPIE on the communication side**. Attendance from the public was not as high as expected, especially on 9 and 10 June, while more participants were present on Saturday 11 June. Nevertheless, it was a unique opportunity to showcase **e-SAFE** project and interact with other projects' representatives and visitors in the 1st edition of an event that will become increasingly important and well-known.



Figure 6: the **e-SAFE** team at NEB Festival

Clustering event with ProGETonE

On September 2022, the e-SAFE and Pro-GET-onE projects organized a cluster hybrid event in Athens. As e-SAFE, Pro-GET-onE is a H2020 project that addresses deep energy renovation strategies combined with seismic strengthening approaches; however, Pro-GET-onE is at its conclusion, while e-SAFE will start soon the renovation process in its real pilot in Catania.

The event “**Pro-GET-onE & e-SAFE cluster event – Deep energy renovation of residential buildings with seismic strengthening approaches**” was a fundamental occasion to promote exchanges and synergies between the two EU-funded projects. Furthermore, it was part of the [European Sustainable Week side events](#). The session included presentations and debates addressing technological challenges, regulatory barriers and lessons learnt from both initiatives.

During the event, partners from both projects discussed about seismic and energy renovation, the environmental challenges of sustainable building and final outcomes of ProGETonE and e-SAFE. ProGETonE organized the event, but e-SAFE partners were actively involved in it. MOVERIM oversaw the organization of the online event and its dissemination, the event was shared on social media, in the newsletter and on the e-SAFE website. In addition, SALFO offered support for the stakeholders’ involvement. Researchers from UNICT and UNIBO, Prof. Gianpiero Evola, Prof. Giovanni Semprini and Prof. Giuseppe Margani were a crucial part of the event as well as they delivered speeches, held discussions and presentation. Participation was very good both online and on-site: 38 people joined on Zoom and 45 people were physically present in Athens, including the rector and the vice-rector of the University of Athens, the partner of Pro-GET-onE project, hosted the event.

EUSEW 2022

e-SAFE participated in the 2022 edition of the **European Sustainable Energy Week (EUSEW)** under the theme “Going green and digital for Europe’s energy transition”. More than 14,000 registered participants from over 100 countries discussed how research and innovation could help achieve Europe's online and on-site priorities. e-SAFE applied in May 2022, and in July 2022, the Commission communicated that the project was one of the few selected to have its stand at the **Energy Fair**, one of the key events of the EUSEW.

The event included the Policy Conference, the most important European conference dedicated to renewables and efficient energy use in Europe; the Networking Village; the Sustainable Energy Awards ceremony, and the third European Youth Energy Day. The Networking Village brought together important figures in the field of sustainable energy. In this stimulating context, e-SAFE was one of the projects selected to have its own stand at Village!

e-SAFE took part in the Energy Fair, one of the key events of the Networking Village, where SMEs and start-ups, business and professional associations, networks of national, regional, and local authorities, consumer associations, civic organizations, youth associations, and many more entities come together and to build social ties and foster knowledge exchange.

In the dedicated stand, participants could find numerous pictures and videos to discover the project's main ideas and some roll-ups and mock-ups realized by UNICT and WEBO to give the visitor a direct insight into the technology behind the project. The on-site team, composed of UNICT, BPIE and MOVERIM, explained the main features, objectives, and results of the projects and engaged new potential stakeholders by networking with partners from the other projects on display. The Energy Fair was a unique opportunity to share e-SAFE objectives and innovative technologies, discuss with interested parties on energy efficiency and seismic safety, and networking.



Figure 7: the e-SAFE team at EUSEW22

3.6 Events and policy briefs targeting policymakers

The support of policymakers at the local, national, and European levels is fundamental to e-SAFE. The consortium shared knowledge, know-how, and expertise with these actors to gain their support and add value to the project.

This task started on M13, so very recently. However, on July 2022 BPIE released the first policy brief on *integrating seismic-safety with energy renovations in the EPBD*.

BPIE wrote the policy brief, and after the feedback from the partners, MOVERIM oversaw the media campaign targeting, specially the MEP involved in the plenary discussion. The policy brief was also posted on the BUILD UP portal (see section 2.5 above).

For further information on activities up to M24 please consider Deliverable D7.5 [5].

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REFERENCES

Internal references

- [1] Deliverable D7.1 – Communication and Dissemination Plan
- [2] Deliverable D7.2 – e-SAFE Website
- [3] Deliverable D2.1 – e-SAFE engagement portal
- [4] Deliverable D2.4 – Call for interest for virtual pilots
- [5] Deliverable D7.5 – Report on dissemination to policymakers

