



European Cluster EMF and Health

Deliverable Joint stakeholder list

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| Lead Project | GOLIAT | Deliverable Editors | Mònica Guxens (GOLIAT), Nikolaos Petroulakis (NextGEM) |
| Contributors | SEAWave: Theo Samaras GOLIAT: Agostina Bianchi, Mònica Guxens ETAIN: Anna Higueiras, Anke Huss, Silvia Ariccio, Arno Thielens NextGEM: Nikolaos Petroulakis, Maarten Velghe, Mathieu Pruppers | | |



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Executive Summary

The main scope of the deliverable “Joint stakeholder list” is to provide a list of relevant stakeholders such as national, EU and international regulatory communities, NGO’s, industry, the scientific community in order to be able to inform them regarding the current topics and results of the project outcomes.



1 Introduction

In order to optimise synergies, prevent overlaps, and enhance the impact of projects funded under the call HORIZON-HLTH-2021-ENVHLTH-02-01 (Exposure to electromagnetic fields and health), a cluster was formed. The cluster is composed of the following Horizon Europe projects: 101057622 SEAWave, 101057527 NextGEM, 101057216 ETAIN, and 101057262 GOLIAT. This initiative aims to facilitate collaboration and streamline efforts among these projects. Common cluster activities include annual meetings, joint dissemination and communication efforts, thematic workshops, working groups, and the establishment of a cluster advisory board, all organised in partnership with the Directorate-General for Research and Innovation.

As one of the joint activities of the cluster, a stakeholder mapping has been created. A stakeholder mapping is a document that reflects on the process of identifying and analysing different stakeholders who are involved or affected by a particular topic. The goal of the stakeholder mapping is to gain a deeper understanding of the stakeholders' interests, needs, expectations and influence, so a strategic plan for engaging with them effectively can be developed. Scientific research and innovation projects often involve multiple stakeholders with diverse interests and perspectives. Stakeholders in these projects may include academia, industry, citizenship, and regulatory bodies (what is known as “quadruple helix”). By properly mapping the stakeholders in the quadruple helix landscape, The CLUE-H cluster aims to build a foundation that will serve the overall goals across the different projects involved:

- Research outcomes definition: effective stakeholder engagement with members of the quadruple helix can help to ensure that the research and innovation outcomes are relevant, feasible, and impactful, and that they meet the needs of different stakeholders. Academia and regulatory stakeholder types may have a more prominent role in this goal.
- Risk perception and risk communication: by engaging with citizenship stakeholders, research projects can gain insights into societal needs, expectations. Citizenship stakeholder types may have a more prominent role in this goal. Particularly, GOLIAT will engage with young adults and workers, while other projects in the EMF cluster will cover other segments of the population. SEAWave will co-design and co-create with a citizens' advisory board a serious game that will be used by national and european authorities to communicate potential risks.
- General barrier identification: a stakeholder mapping can also help to identify potential barriers or challenges to project success, such as conflicting interests or lack of stakeholder support. By understanding the stakeholders and their perspectives, project teams can anticipate and address these issues proactively, thereby increasing the likelihood of project success.
- Communication and dissemination: by identifying and analysing the different stakeholders, project teams can develop targeted communication strategies that address the specific needs, interests, and expectations of each stakeholder group. This can help to ensure that the project outcomes are communicated effectively and in a way that resonates with the stakeholders, which can increase their engagement, support, and uptake of the project outcomes. In the case of GOLIAT, a proper stakeholder mapping is expected to help in fine-tuning the communication strategy as well as selecting the list of events and initiatives that GOLIAT will engage with for dissemination purposes.



2 Stakeholder list

The CLUE-H stakeholder mapping introduced in this document has been developed collaboratively by the different parties of the cluster.

The following stakeholder list is focused in 4 different areas, according to the quadruple helix model: public sector, citizens, academia and industry. Each table contains the following details:

- Name (as browsable title): Name used to refer to the stakeholder. It can be a broad concept like “teachers” or a very specific name like “ICNIRP”.
- Stakeholder description: brief description to the stakeholder.
- Country
- Type
- Website

| Name | Description | Country | Type | Website |
|--------------------------|--|---------------|-------------------------------------|---|
| 3G PP | 3rd Generation Partnership Project | International | Public sector /Policy makers | https://www.3gpp.org/ |
| 5G PPP | 5G Infrastructure Public Private Partnership | Europe | European organization | https://5g-ppp.eu/ |
| 5G Barcelona | South European 5G Hub | Spain | Public sector /Policy makers | https://5gbarcelona.org/es/ |
| ADAE | Greek Authority for Communication Security & Privacy | Greece | Government | http://www.adae.gr |
| ADICONSUM | Associazione Difesa Consumatori APS | Italy | Citizen / worker | https://www.adiconsum.it |
| ADOC | Association for the Defense and Orientation of Consumers | Italy | Citizen / worker | https://adocnazionale.eu |
| Altroconsumo | Organizzazione di consumatori | Italy | Citizen / worker | https://www.altroconsumo.it |
| AENOR | Asociación Española de Normalización | Spain | Industry | https://www.une.org |
| AGCOM | Autorità per le Garanzie nelle Comunicazioni | Italy | Government | https://www.agcom.it |
| AIRM | Italian Association of Medical Radioprotection | Italy | Citizen / worker | https://airm.name |
| AIRP | Associazione Italiana di Radioprotezione | Italy | Academia/Research | https://www.airp-asso.it |
| Amici della Terra | Associazione ambientalista riconosciuta | Italy | Citizen / worker | https://www.amicidellaterra.it |



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|-------------------|---|-------------|--------------------------------------|---|
| ANCI | Associazione Nazionale Comuni Italiani | Italy | Citizen / worker | https://www.anci.it |
| ANFR | The French national frequency agency | France | Public sector / Policy makers | https://www.anfr.fr |
| ANPCI | Associazione Nazionale Piccoli Comuni di Italia | Italy | Citizen / worker | http://www.anpci.it |
| ANSES | Agence Nationale Sécurité Sanitaire Alimentaire Nationale | France | Public sector / Policy makers | https://www.anses.fr/en |
| ASRC- CUNY | Advanced Science and Research Center, CUNY | USA | Academia/Research | https://asrc.gc.cuny.edu/ |
| Asstel | Association of TLC Operators | Italy | Industry | https://www.asstel.it |
| AUTH | Aristotelian University of Thessaloniki | Greece | Academia/Research | https://www.auth.gr/en/ |
| BAG | Bundesamt für Gesundheit | Switzerland | Government | https://www.bag.admin.ch |
| BFS | The Competence Centre for Electromagnetic Fields | Germany | Government | https://www.bfs.de/ |
| BSC | Barcelona Supercomputing Center | Spain | Research | https://www.bsc.es/ |
| CCARS | Comité Científico Asesor en Radiofrecuencias y Salud | Spain | Academia / Research | https://ccars.org.es/ |
| CEA | The French Alternative Energies and Atomic Energy Commission | France | Government | https://www.cea.fr/ |
| CEI | National Electrotechnical Committee (member of IEC and CENELEC) | Italy | Industry | https://www.ceinorme.it |
| CEN | European Committee for Standardization | Europe | Standardization | https://www.cencenelec.eu/about-cen/ |
| CENELEC | European Electrotechnical Committee | Europe | Standardization | https://www.cencenelec.eu/about-cenelec/ |
| CHUV | Le Centre hospitalier universitaire vaudois | Switzerland | Academia / Research | https://www.chuv.ch/ |
| CNIT | Consorzio Nazionale Interuniversitario per le Telecomunicazioni | Italy | Academia/Research | https://www.cnit.it/en/ |
| CNR | Consiglio Nazionale Delle Ricerche | Italy | Academia/Research | https://www.cnr.it |
| CNSA | Centro Nacional de Sanidad Ambiental | Spain | Academia/Research | https://www.isciii.es/ |



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|--------------------------|---|----------------|-------------------------------------|---|
| COMARE | Committee on Medical Aspects of Radiation in the Environment | United Kingdom | Public sector /Policy makers | https://www.gov.uk/government/groups/committee-on-medical-aspects-of-radiation-in-the-environment-comare |
| Cosmote/OTE | Hellenic Telecommunications Organization S.A. | Greece | Industry | https://www.cosmote.gr/ |
| Cittadinanzattiva | Active citizenship network | Italy | Citizen / worker | https://www.cittadinanzattiva.it |
| DG Connect | European Commission's Directorate-General for Communications Networks, Content and Technology | Europe | Public sector /Policy makers | https://eufordigital.eu/library/dg-connect-strategic-plan-2016-2020/ |
| EEAE | Greek Atomic Energy Commission | Greece | Government | https://eeae.gr/en/ |
| EEKT | Union of Mobile Telecommunication Providers | Greece | Government | http://www.eekt.gr/ |
| EETT | Greek Telecommunications Commission | Greece | Government | https://www.eett.gr/en/ |
| ELINYAE | Greek Institute for Occupational Health & Safety | Greece | Citizen / worker | https://www.elinyae.gr/ |
| EMHET | Union of Telecommunications Scientists & Engineers OTE | Greece | Citizen / worker | https://emietote.gr |
| ENEA | Agenzia nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile | Italy | Government | https://www.enea.it/it/ |
| ETSI | European Telecommunications Standards Institute | Europe | Standardization | https://www.etsi.org |
| ETZH | Eidgenössische Technische Hochschule Zürich | Switzerland | Academia/Research | https://ethz.ch/de.html |
| EZK | Ministry of Economic Affairs and Climate Policy | Netherlands | Government | https://www.government.nl/ministries/ministry-of-economic-affairs-and-climate-policy |
| EU-OSHA | European Agency for Safety and Health at Work | Europe | Public sector /Policy makers | https://osha.europa.eu/en |
| Federconsumatori | Associazione di Promozione Sociale | Italy | Citizen / worker | https://www.federconsumatori.it |
| FEMP | Federación Española de Municipios y Provincias | Spain | Government | https://www.femp.es |



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|-------------------|--|----------------|-------------------------------------|---|
| FOEN/BAFU | Swiss Federal Office for the Environment/Bundesamt für Umwelt | Switzerland | Government | https://www.bafu.admin.ch/bafu/de/home.html |
| FOR | Fondazione Ottimisti e Razionali | Italy | Citizen / worker | https://www.ottimistierazionali.it |
| FORTH | Foundation for Research and Technology - Hellas | Greece | Academia/Research | www.forth.gr |
| GGD | Municipal Health Services | Netherlands | Government | https://www.ggd.amsterdam.nl/ |
| GSMA | Global System for Mobile Communications Association | International | Private sector / Industry | https://www.gsma.com/ |
| GTTI | Gruppo Telecomunicazioni e Tecnologie dell'Informazione | Italy | Academia/Research | https://www.gtti.it |
| Hellas Sat | Satellite Communication & Connectivity Solutions Company | Greece | Industry | https://www.hellas-sat.net |
| HSE | UK Health and Safety Executive | United Kingdom | Public sector /Policy makers | https://www.hse.gov.uk/ |
| IARC | International Agency for Research on Cancer | International | Public sector /Policy makers | https://www.iarc.who.int/ |
| ICCS | Institute of Communication and Computer Systems | Greece | Academia/Research | https://www.iccs.gr |
| ICEmB | Inter-University Centre for the study of the Interaction between Electromagnetic Fields and Biosystems | Italy | Academia/Research | http://www.icemb.org/home-en/ |
| ICNIRP | International Commission for Non-Ionizing Radiation Protection | International | International Commission | https://www.icnirp.org |
| IEC | International Electrotechnical Commission | International | International Commission | https://www.iec.ch/homepage |
| IEEE | Institute of Electrical and Electronics Engineers | International | Professional organization | https://www.ieee.org/ |
| IEEE-ICES | International Committee on Electromagnetic Safety | International | International Committee | https://www.ices-emfsafety.org |
| IenW | Ministry of Infrastructure and Water Management | Netherlands | Government | https://www.government.nl/ministries/ministry-of-infrastructure-and-water-management |
| IMEC | Interuniversity Microelectronics Centre | Belgium | NPO / Research | https://www.imec-int.com/ |



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|-------------------------|--|---------------|----------------------------------|---|
| INAIL | Istituto nazionale per l'assicurazione contro gli infortuni sul lavoro | Italy | Government | https://www.inail.it/ |
| INSHT | Instituto Nacional de Seguridad e Higiene en el Trabajo | Spain | Citizen / worker | https://www.insst.es |
| INSST | Instituto Nacional de Seguridad y Salud en el Trabajo | Spain | Citizen / worker | https://www.insst.es |
| IRPA | International Radiation Protection Association | International | International Association | https://www.irpa.net |
| ISCIII | El Instituto de Salud Carlos III | Spain | Government | https://www.isciii.es |
| ISG | Instituto para la Salud Geoambiental | Spain | Citizen / worker | https://www.saludgeoambiental.org/ |
| ISGLOBAL | Barcelona Institute for Global Health | Spain | Academia/Research | https://www.isglobal.org |
| ISPRA | Istituto Superiore per la Protezione e la Ricerca Ambientale | Italy | Government | https://www.isprambiente.gov.it/it |
| ISS | Istituto Superiore di Sanità | Italy | Government | https://www.iss.it |
| IT'IS | Foundation for Research on Information Technologies in Society | Switzerland | Research | https://itis.swiss/who-we-are/ |
| ITEAM | Institute of Telecommunications and Multimedia Applications, Universidad Politécnica de Valencia | Spain | Academia/Research | https://www.iteam.upv.es |
| ITEM | Fraunhofer Institute for Toxicology and Experimental Medicine | Germany | NPO / Research | https://www.item.fraunhofer.de/ |
| ITU | International Telecommunication Union | International | International Agency | https://www.itu.int |
| IU | International University of Applied Sciences | Germany | Academia / Research | https://www.iu.org/ |
| i2CAT Foundation | CERCA Research Center | Spain | Research | https://i2cat.net/ |
| Legambiente | environmental association | Italy | Citizen / worker | https://www.legambiente.it |
| MASE | Ministry of Environment and Energy Security | Italy | Government | https://dgsaie.mise.gov.it/ |
| MHS | Ministerio de Sanidad (Ministry of Health) | Spain | Government | https://www.insst.es |



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|----------------|---|-------------|----------------------------------|---|
| MIMIT | Ministry of Enterprises and Made | Italy | Government | https://www.mimit.gov.it/en/ |
| Monet | Dutch association of network operators KPN, Vodafone and Odido | Netherlands | Industry | https://monet.nl/ |
| MWF | Mobile and Wireless Forum | Belgium | Private sector / Industry | https://www.mwfai.org/ |
| NCSR | National Centre for Scientific Research 'Demokritos' | Greece | Academia/Research | https://www.demokritos.gr |
| NEC-EMF | National Electrotechnical Committee (member of IEC and CENELEC) | Netherlands | Industry | https://www.nen.nl/en |
| NOVA | Greek mobile provider | Greece | Industry | https://nova.gr |
| NKUA | National and Kapodistrian University of Athens | Greece | Academia/Research | https://en.uoa.gr |
| NTUA | National Technical University of Athens | Greece | Academia/Research | https://www.ntua.gr/en/ |
| NVS-NIS | Nederlandse Vereniging voor Stralingshygiëne, afdeling Niet-Ioniserende Straling (member of IRPA) | Netherlands | Academia/Research | https://www.nvs.nl/ |
| NVVK | Nederlandse Vereniging voor Veiligheidskunde (occupational hygienists) | Netherlands | Citizen / worker | https://www.veiligheidskunde.nl/ |
| OCU | Organización de Consumidores y Usuarios | Spain | Citizen / worker | https://www.ocu.org |
| PAF | Physical Agents Portal | Italy | Citizen / worker | https://www.portaleagentifisici.it/ |
| PEPRI | National Platform of Radiological Protection – Non-ionizing radiation Area | Spain | Government | https://www.pepri.es/ |
| RIVM | National Institute for Public Health and the Environment | Netherlands | Government | https://www.rivm.nl/en |
| SCHEER | Scientific Committee on Health, Environmental and Emerging Risks | Europe | European Organization | https://health.ec.europa.eu/scientific-committees/scientific-committee-health-environmental-and-emerging-risks-scheer_en |
| SECO | Staatssekretariat für Wirtschaft | Switzerland | Government | https://www.seco.admin.ch |



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|---------------------------|---|----------------|--------------------------------------|---|
| SIEM | Società Italiana di Elettromagnetismo | Italy | Academia/Research | https://www.elettromagnetismo.it |
| SIMA | Società Italiana di Medicina Ambientale | Italy | Academia/Research | https://www.simaitalia.org/en/ |
| SIML | Italian Society of Occupational and Industrial Medicine (occupational hygienists) | Italy | Citizen / worker | https://www.siml.it/ |
| SIRR | Italian Society for Radiation Research | Italy | Academia/Research | http://www.sirr2.it |
| SPEAG | Schmid & Partner Engineering AG | Switzerland | Private sector / Industry | https://speag.swiss/ |
| SSK | German Commission on Radiological Protection – Committee “Non-ionizing Radiation” | Germany | Government | https://www.ssk.de |
| SSM | Swedish ‘Radiation Safety Authority - Scientific Council on Electromagnetic Fields’ | Sweden | Government | https://www.stralsakerhetsmyndigheten.se/ |
| STOA | Panel for the Future of Science and Technology | Europe | Public sector /Policy makers | https://www.europarl.europa.eu/stoa/en/home/highlights |
| Swissinfo | Multilingual international news and information company | Switzerland | Citizen / worker | https://www.swissinfo.ch/en/g/ |
| THUAS | The Hague University of Applied Sciences | Netherlands | Academia/Research | https://www.thuas.com |
| TP-IPP | Institut Mines-Telecom | France | Academia / Research | https://chairec2m.wp.imt.fr/ |
| TPH | Tropical and Public Health Institute | Switzerland | Academia/Research | https://www.swisstph.ch/en/ |
| TSC-UNIOVI | Universidad de Oviedo, donde es el responsable del Grupo de Investigación “Teoría de la Señal y Comunicaciones” | Spain | Academia/Research | https://tscuniovi.grupos.uniovi.es/ |
| TUD | Technical University Delft | Netherlands | Academia/Research | https://www.tudelft.nl/en/ |
| TUE | Technical University Eindhoven | Netherlands | Academia/Research | https://www.tue.nl/en/our-university |
| UGent | Ghent University | Belgium | Academia/Research | https://www.ugent.be/ |
| UKHSA Non-Ionising | United Kingdom Health Security Agency | United Kingdom | Public sector / Policy makers | https://www.ukhsa-protection-services.org.uk/nir |



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|-------------------|---|----------------|---------------------------------------|---|
| Radiation Service | | | | |
| UKTIN | UK Telecoms Innovation Network | United Kingdom | Private sector / Industry | https://uktin.net/ |
| UoA | University of Athens | Greece | Academia/Research | https://en.uoa.gr |
| UoC | University of Crete | Greece | Academia/Research | https://www.uoc.gr |
| UPM | Universidad Politécnica de Madrid | Spain | Academia/Research | https://www.upm.es |
| UU/IRAS | University Utrecht/Institute for Risk Assessment Sciences | Netherlands | Academia/Research | https://www.uu.nl/ |
| U.Di.Con. | Union for the protection of consumers | Italy | Citizen / worker | https://www.udicon.org/en/ |
| UNCEN | Unione Nazionale Comuni Comunità Enti Montani | Italy | Citizen / worker | https://uncem.it |
| UoP | University of Patras | Greece | Academia/Research | https://www.upatras.gr/en/ |
| Vodafone | Vodafone greece | Greece | Industry | https://www.vodafone.gr |
| VWS | Ministry of Health, Welfare and Sport | Netherlands | Government | https://www.government.nl/ministries/ministry-of-health-welfare-and-sport |
| WHO | World Health Organization | International | Intergovernmental organization | https://www.who.int |



3 Conclusion

The stakeholder mapping is an essential tool for identifying and analysing stakeholders involved in a project. This document is the initial result of a collaborative stakeholder mapping exercise contributed by the CLUE-H cluster, becoming part of its strategic knowledge commons. This deliverable aims to provide an overall picture of communication and dissemination activities, as well as any other type of synergy with relevant stakeholders that may be identified in the future. This information can be used to develop appropriate communication and engagement strategies tailored to each stakeholder group. It's important to note that stakeholder mapping is not a one-time exercise. This document serves as a foundation, providing basic structure and processes for working on an iterative and collaborative deliverable that must be regularly reviewed and updated throughout the project's lifecycle to ensure that all stakeholders are accounted for and their needs and expectations are being addressed appropriately, so all consortium members should engage in its collaborative feeding and maintenance.