



Economic and Social Considerations for the Future of Nuclear Energy in Society

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Work Package 4

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Glossary

AB – Advisory Board

CC – Coordination Committee

CSA - Coordination and Support Actions

CS – civil society

DMP – Data Management Plan

EP - Exploitation Plan

GDPR – General Data Protection Regulation

GMF - Group of European Municipalities with nuclear facilities

IAEA – International Atomic Energy Agency

IEA – International Energy Agency

IRENA – International Renewable Energy Agency

IPR – Intellectual Property Rights

NGOs – Non-Governmental Organisations

OECD/NEA - Organisation for Economic Co-operation and Development / Nuclear Energy Agency

PEDR - Plan for the Exploitation and Dissemination of Results

SHARE – Social sciences and HumAnities in ionizing radiation REsearch

SMRs - Small Modular Reactors

SoP - System of Provision

SSH – Social Science and Humanities

WPs – Work Packages

WPLs – Work Package Leaders

Executive Summary

ECOSENS project (Economic and Social Considerations for the Future of Nuclear Energy in Society) is focused on analyses of citizens' views and risk perceptions, benefits and potentials of current and new nuclear technologies in the context of major societal challenges (climate crisis, sustainable energy policies, energy security). It will review through a socio-ethical lens the uptake of recommendations on stakeholder engagement and transdisciplinarity (notably integration of social sciences and humanities) in nuclear research and decision making, developing recommendations to overcome challenges. Societal stakeholders (authorities, industry, academia and civil society) are engaged to explore and co-construct possible energy futures and the role of nuclear energy therein.

Sustainability assessment of current nuclear energy technologies will take into account the entire life of the nuclear investment including the nuclear fuel cycle. Integration of new technologies (Gen III+, IV, SMR) is then explored in the context of the future energy market and societal developments to identify the possible roles of nuclear energy in the climate neutral economy targeted for 2050. Multiple perspectives (nuclear experts, social scientist, stakeholder, society) are integrated and methodological recommendations for sustainability assessment are agreed. To address the weaknesses of existing economic models, ECOSENS develops a novel model based on the system of provision approach in order to create and calculate indicators relevant for a plethora of stakeholders (consumers, governments, suppliers). The model will include the “social discount rate” and considers the limits of our planet, as reflected in the “circular economy” system. A series of national case studies evaluates the model and provides relevant recommendations to stakeholders.

There are three main Work Packages (1, 2 and 3) which will provide the analyses and exchanges on the content. The cross-cutting topic of dissemination, communication and exploitation of results will be addressed in WP 4. The management of ECOSENS will be the responsibility of Work Package 5.

WP4 will enable communication, dissemination and exploitation of the ECOSENS results in the most effective way with the highest impact throughout the project lifetime, and also beyond. To achieve best results the WP leaders will be involved in WP4 and will contribute to most of the tasks. Coordination of activities will be ensured, to optimise the resources, to ensure consistency of the dissemination activities and maximise the public outreach.

The present deliverable is the first version of communication, dissemination and exploitation plan of the ECOSENS project and provides basis for both external and internal communication, dissemination activities and approach to the exploitation of results. The overall aim of this document is to identify the most efficient means and set a plan for the implementation of dissemination, exploitation and communication activities. ECOSENS's outreach activities aim at communicating and disseminating the project results during the project lifetime and increase the impact after the end of the project.

The external communication strategy will use a synergetic combination of several channels and tools:

- a project website linked with social media networks;
- newsletters and other information materials;
- two-way interaction tools and channels with different stakeholders;
- conferences and other event opportunities;
- publications in various media including peer-reviewed scientific journals and popular science publications.

The internal communication plan defines responsibilities among project partners and consortium bodies and describes internal communication flows and monitoring instruments. Internal communication will be conducted via emails sent out by the coordinator and work package (WP) leaders and periodic electronic or face-to-face meetings. Project communication, documentation (including project minutes, deliverables etc.) is stored and shared in the internal repository on the ECOSENS webpage. The internal communication plan also provides information on templates made available to all partners.

This document will serve as a “living document” throughout the project, guiding the communication and dissemination effort carried out by the consortium. The updates of the deliverable will be provided on yearly basis as milestone reports. At the end of the project, a final version will be presented, together with the results of each dissemination activity, reporting also future-oriented dissemination and exploitation activities, foreseen by each partner, after the end of the project.

1 Introduction

1.1 Aim of the document

According to the Grant Agreement Number 101 — ECOSENS [1] the objectives of WP4 Communication, Dissemination and Exploitation of Results is to:

- enable two-way communication about the ECOSENS and its results¹ to multiple audiences and show its impact and benefits by addressing and providing possible solutions to challenges for the future of nuclear energy and society;
- establish fruitful contact with stakeholder representatives and networks, and contributing to the consolidation of networks at European level;
- make the ECOSENS results transferable for audiences that may use the new knowledge, data and information in their own work, enable use and uptake of results and maximise the impact of EU-funded research;
- utilise the ECOSENS results in developing, creating and giving visibility to products, processes, services or any other activities (policymaking) to effectively exploit the project's results for society.

These objectives are also part of obligations related to communication, dissemination and exploitation, and are formally outlined in Grant Agreement. More specifically, by signing the EC ECOSENS Grant Agreement participants agree to:

- Promote the action and its results, by providing targeted information to multiple audiences (including the media and the public), in a strategic and effective manner and possibly engaging in a two-way exchange (Article 17 of the Grant Agreement),
- Disseminate results - as soon as possible - through appropriate means, including in scientific publications (Article 17, Annex 5 of the Grant Agreement),
- Ensure open access (free of charge, online access for any user) to all peer-reviewed scientific publications relating to its results (Article 17, Annex 5 of the Grant Agreement),
- Take measures aiming to ensure 'exploitation' of the results - up to four years after the end of the project - by using them in further research activities; developing, creating or marketing a product or process; creating and providing a service, or using them in standardisation activities (Article 18, Annex 5 of the Grant Agreement)
- Acknowledge EU funding in all communication, dissemination and exploitation activities (including IPR protection and standards) as well as on all equipment, infrastructure and major results financed by the action by using the wording and criteria specified in the Grant Agreement (Articles 16, 17, 18, Annex 5).

In order to achieve the objectives of WP4, the Plan for the Exploitation and Dissemination of Results (PEDR) is part of the Deliverable 4.1 where a well-planned strategy for protection, exploitation and dissemination of results is given. The Communication plan is integrated in the PEDR to increase the reciprocal impacts and includes proactive engagement with different stakeholder based on the stakeholders mapping. To fulfil the objectives, different tools and channels for communication and

¹ Results are "any tangible or intangible output of the action, such as data, knowledge and information whatever their form or nature, whether or not they can be protected, which are generated in the action as well as any attached rights, including intellectual property rights" (Source: EC Research & Innovation Participant Portal Glossary).

dissemination are established along with activities for involvement of target groups. Different opportunities are given: online communication and feedback, specific materials to promote key messages, events and participation in other relevant actions. Also support for other Work Packages in communication and dissemination of their research to scientific and non-scientific audiences is provided.

The plan will also ensure that the members of the consortium will take a proactive role in the effort to maximize the outreach of the project by participating in relevant workshops, conferences and exhibitions, as well as publishing project results in relevant scientific journals and conference proceedings to allow for high international visibility of ECOSSENS. This task will also track publications to ensure compliance with open access requirements.

The definitions and distinctions between the terms communication, dissemination and exploitation of results are given in Figure 1 *Communication/Dissemination/Exploitation definitions and distinctions*, as presented in the Horizon – Europe guide on communication, dissemination and exploitation [2].

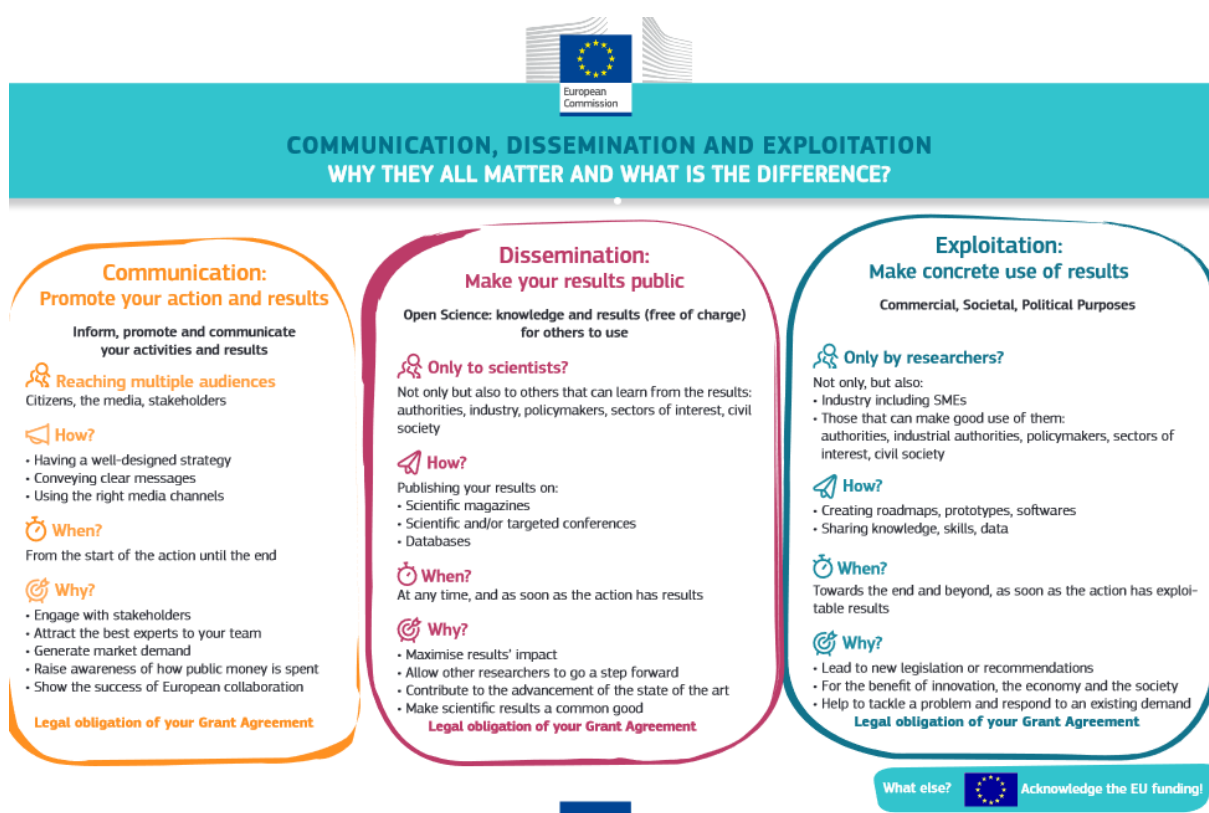


Figure 1 – Communication/Dissemination/Exploitation definitions and distinctions [2]

1.2 Purpose and scope of this deliverable

The purpose of deliverable D4.1 Strategy and plan for communication, dissemination and exploitation of results is to establish and agree upon strategic approach for communication, dissemination and exploitation of results at the ECOSSENS project level and at the participants' level for the duration of project. This deliverable includes also the deployment plan and serves as a guide to perform in the most effective ways all related activities. The strategy and plan include the stakeholders identification,

development of different channels and tools, preparation of tailored material to address stakeholder needs, organizing online and face to face events, active stakeholder engagement, and development of platform for use and reuse of collected data and other results. In addition, evaluation and feedback is proposed to be used for regular updates of activities. Liaisons with related organisations and events is used to enlarge the project's impacts. This will ensure that the work done within this project is brought to the attention of, and where possible actively involves, as many relevant stakeholders as possible. Establishing mechanisms through which two-way communication and knowledge exchange can occur between individual groups and our project is central to our success. The communication, dissemination and exploitation plan will ensure that information is shared with relevant external stakeholders in a timely way using effective communication tools. Measures agreed on in the communication plan focus on gaining a significant impact of ECOSENS and include outreach actions for deliverables and any other promotional material.

Since there are numerous overlaps between communication and dissemination in terms of target audiences, key messages to convey, channels, tools and activities, it was adopted that one single strategy plan covers both communication and dissemination approaches. Exploitation plan includes first approach to what results are to be exploited, exploitation management and IPR management.

This deliverable aims to formalise communication, dissemination and exploitation of results within ECOSENS progress with describing:

- How to maximise ECOSENS's ambitions and expected impacts towards the potential users,
- How to raise awareness of ECOSENS's activities and results as added value these will bring to all identified stakeholders in the project,
- How to promote the exploitation of ECOSENS's results to further guide related policies, strategies and activities in planning of future nuclear energy in society.

Communication activities will inform about and promote the ECOSENS and its results to the multiple audiences, including the media and the public, in a two-way exchange. They will demonstrate how EU-funding contributes to tackling social challenges. Dissemination activities will describe and ensure that the results are available for others interested, like scientific communities, industrial partners, policymakers and other end users. Exploitation activities will enable concrete use of project results through scientific, economic, political or societal routes by interested organizations within project partners or other user groups outside the project. ECOSENS results will be public unless the decision to protect the outputs (IPR) will be taken.

Green open access at the ECOSENS's website online repository will be used to publish all deliverables, and also other results, like scientific papers. In addition, also gold open access for limited number of publications, developed as part of the project on important findings is foreseen. Concretely, ECOSENS will provide open access to all scientific publications reporting project results on novel economic model and new indicators proposed and validated by civil society participants, sustainability assessment of the nuclear energy for whole fuel cycle, current public views on the nuclear energy role in the future energy market. The articles will be published in peer-reviewed journals (such as Progress in Nuclear Energy, Energy Policy, Journal of Nuclear Research and Development, etc.), adequate resources being allocated in the budget to ensure open access. Preference will be given to Open Research Europe (<https://open-research-europe.ec.europa.eu>) for publishing scientific articles of the project, using the most appropriate gateways (*Science with and for Society, Societal Challenges*). European Data Portal (<https://data.europa.eu/en>), a pan-European repository of public sector information open for reuse in the

EU) has been identified as a trusted repository for data, information and project outputs to be made available for reproducibility or reuse.

The general strategy is to progressively increase communication and dissemination activities as the project's results appear, moving from creating awareness of ECOSENS to creating favourable conditions to prepare wider uptake and exploitation of results. Special attention will be devoted to the engagement of stakeholders and creating favourable conditions for their interaction as this is one of the pillars of the ECOSENS. Activities are directed and coordinated by dedicated WP4, in which all other WPLs are involved, and with this also all consortium participants. The implementation of plan will be monitored and evaluated which will enable regular updates and improvements, foreseen throughout the project lifetime.

It is foreseen that the updates of strategy and plan for communication, dissemination and exploitation of results will be developed on yearly bases as milestone reports, and at the end of the project final report as deliverable D4.4 based on the lessons learned and feedback from the activities, but also as result of project development.

1.3 Structure of the deliverable

The deliverable 4.1 is structure in 5 sections. After Section 1 with general introduction, purpose and scope, Section 2 identifies stakeholders and networking groups for communication and dissemination activities. Section 3 highlights the key messages of ECOSENS linked with its objectives, ambitions and expected impacts. Section 4 provides communication and dissemination plan with details on channels, tools, activities, describes open access strategy with access to research data and results, and sets the deployment plan with time distribution of activities. In separated subchapter it deals with monitoring, reporting and evaluation. Separate section 5 describes the routes for the exploitation of results that project partners have envisioned at the beginning of the project and which are being redefined as the project technically progresses. As the exploitation plan will be developed along the project, this document only contains the general exploitation strategy which is outlined at this stage. IPR management strategy is briefly outlined. The Appendices contain functional additional material.

2 Stakeholders and networks

Stakeholder involvement in ECOSENS project is the key to address the objectives of the coordination and support action. ECOSENS aims to create a neutral space where specialists in social sciences (including economics, sociology, Science and Technology Studies, among others) and humanities and in nuclear energy research and policy will meet, exchange views and collaborate with civil society and other relevant stakeholders. In order to perform the analyses of their views, needs and expectations, active stakeholders' engagement is planned. All WPs will seek for the participation, exchanges and other communication opportunities with stakeholders to produce meaningful results. The dissemination and exploitation of the project findings and results are to be tailored to the specific needs of interested and affected groups, workers and other stakeholders.

In terms of communication, dissemination and results' exploitation for the future of nuclear energy in society the following steps are taken:

- Identification of related and relevant stakeholders for the project and for project's uptake,
- Mapping of stakeholders in view of their interest, attitude, needs and their interactions, and
- Engagement activities to address their particular needs and requirements.



This document focuses on the identification of stakeholders which are important for the ECOSENS project and grouping them in the potential networks to be actively involved in the project's activities based on their interests and needs. It is foreseen that separate document with more precise information on stakeholders, their interests and needs will be prepared as milestone report MS 4.3 Stakeholder mapping and establishment of stakeholders' networks in month 4.

The ECOSENS results will include deliverable reports, different recommendations for interactions between stakeholders, for future assessment of the sustainability and policy, reports from performed workshops, new models and methodologies for development of nuclear energy in EU, scenarios for climate neutral sector identification for future and their sustainability, novel model based on System of Provision, Social Discount Rate model for socio-economic analysis in the energy sector and many others. By sharing the results with the broader scientific community, and beyond, like business partners, policymakers and other interested, the ECOSENS will contribute to the progress of science in the area of economy, society and nuclear energy, and in particular to the future nuclear energy development as potential part of the energy security.

In general, there are two target audiences for ECOSENS project: internal ECOSENS participants and external audiences.

2.1 ECOSENS participants

The ECOSENS consortium includes 12 partners from 8 EU countries plus United Kingdom (see Appendix A). In particular, ECOSENS partners have competences to support triple scope of the project: social, economic and nuclear energy. The participants are coming from nuclear research institutes, Technical Support Organisations in the nuclear field, academia (faculties of social sciences and humanities and of management) and specialized SMEs with knowledge on stakeholders' engagement in nuclear sector.

What makes this consortium special and guarantees the fulfilment of the project's objectives is its transdisciplinary expertise and track record in previous successful collaborations between social scientists and nuclear researchers and developers. Several partners (RATEN, SCK.CEN, SYMLOG, CIEMAT, UMB, MERIENCE, EIMV, UA, UNEXE) collaborated in previous European projects dedicated to socio-technical integration, social and ethical aspects of nuclear energy and exposures to ionising radiation, and stakeholder involvement in nuclear decision-making. Indeed, the ECOSENS project will build on the results and outcomes of the European projects COWAM, COWAM2, CIP, IPPA, PLATENSO, EAGLE and ENGAGE², in which these partners have contributed to the elaboration of specific recommendations and strategies for public involvement, gaining both experience and trust among the civil society and institutional actors of the European landscape.

Natural and social science researchers and practitioners participating in the project implementation share a common understanding of the role and importance of public engagement in energy governance, including nuclear energy, in the state-of-the-art methods implementing public participation, being aware of the success and failure stories in radioactive waste disposal programmes, radiological protection, nuclear energy, and other nuclear policy areas. The consortium members cover a large diversity of European cultures, different democratic histories and various nuclear energy strategies and sizes of

² All EU-funded projects related to socio technical issues of nuclear and radiation activities: <https://cordis.europa.eu/projects>

nuclear programmes. This diversity enables broad capture of societal, cultural and ethical influences associated with nuclear energy, as well as diverse perspectives on the related economic aspects.

Consortium members also have built a common approach to stakeholder engagement in nuclear decision making and created links with civil society organisations (NGOs, Local Committees, GMF) and other relevant stakeholders (local authorities, regulatory bodies,) which will be activated in this project in the stakeholder engagement. The links with the SHARE International platform for Social Sciences and Humanities in Ionising Radiation Research, important assets of this consortium, and other technical platforms (e.g. SNETP, IGDTP, SHARE-decommissioning, EURAD, NERIS) will support the organisation of participatory activities within ECOSENS and the dissemination of project results, will strengthen the impact of the project, and will create links with the key stakeholders, including civil society actors. Thus, the composition of the ECOSENS consortium provides the multiplying impacts and guarantees the best possible dissemination and use of the ECOSENS results for identified stakeholders on national, European and international level.

2.2 External stakeholders

The objective of the ECOSENS project is to support European Union Member States, Associated Countries and the European Commission in alignment with societal values, needs and concerns of society regarding the nuclear development (existing and new nuclear technologies, in the context of major societal challenges, sustainability of entire life cycle) and provide a radically new economic model for the assessment of nuclear energy in order to guide policies in the nuclear field, by including new ways of engaging the public and ensuring that a plurality of stakeholders and disciplines can weigh in on sustainability assessments.

Based on the objectives, the following stakeholders are identified:

- relevant scientific communities in the nuclear, energy and social science sector, like SNETP, IGDTP, SHARE-decommissioning, SITEX.Network, and professional associations, such as NERIS, SHARE,
- researchers from academia in energy sector, sustainability and social science, including well established events, like RICOMET,
- international organisations in the field, like IAEA, NEA/OECD, IEA, IRENA, WNA and their activities,
- related regulatory authorities, also at the European level like ENSREG or EC DG, responsible national ministries, implementing authorities at national and local level,
- related EU level projects and programmes: INSOTEC, MODERN2020, ENGAGE, EURAD, PIANOFORTE,
- decision makers and politicians, at different levels, EU, national and local,
- business, connected to development of nuclear sector and other energy technologies,
- civil society organisations (NGOs - NTW and related, working in the nuclear field, Local Committees established at nuclear facilities, GMF, ...),
- future scientific community, like students, PhD candidates, young researchers in the area,
- media,
- broader civil society (citizens science networks and similar) and general public.

The identified stakeholders can cover the whole cycle of communication, dissemination activities and exploitation of results. The involved consortium partners will produce the scientific and technical

outputs, interact with stakeholders and spread the results to the wider scientific community, responsible authorities, decision makers and operational bodies at different levels. The target audiences, like civil society organisations, researchers, citizens, international organisation representative and others will be involved in many to obtain the feedback on the outputs. The media will be used as a broadcast source for all involved, including general public.

Coordination and support measures through which ECOSSENS objectives will be implemented combine awareness-raising and communication, networking, policy dialogues, mutual learning exercises and studies, and dissemination.

All these stakeholders will be identified on variety of levels: from national, even municipality level, to the European and pan European level, to the international level. All these levels are important to be identified as the impacts of ECOSSENS outcomes will be amplified.

2.3 Network groups

These stakeholders can be grouped in networks based on their interests and needs to be actively involved in the project's activities. The following network groups are proposed:

- **Scientific community and researchers:** ECOSSENS community, young researchers, related research platforms (like NBETP, IGDTP, SITEX.Network, SHARE), associations IAEA, NEA/OECD, IEA, IRENA
- **Authorities:** EC with bodies, regulators (ENSREG, HERCA,...), responsible ministries (energy, environment, climate changes, ...), regulatory authorities, municipalities and implementing authorities,
- **Policy makers:** decision makers and politicians,
- **Business:** nuclear, renewable and other energy sector,
- **Related:** similar past and going projects and programmes with the representatives,
- **Civil society organisations** (NGOs, like NTW and related, working in the nuclear field, Local Committees established at nuclear facilities, GMF, ...),
- **Media** and
- **General public.**

The collection of data about stakeholders and network groups will respect Regulation (EU) 2016/679 of the EU Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data (GDPR). The collected data will include information such as name, email, institution, stakeholder group, country and will be based on proactive policy, however based on consent and option to change the mind and withdraw from the database. The management of the collected data will be organized carefully for purpose of ECOSSENS project only, based on advice from data protection officer. The collection of data will focus first on the already established networks (associations, platforms,) from project partners, from past activities/projects or ongoing related projects.

3 Key messages

3.1 The ECOSSENS project

ECOSSENS will analyse citizens' views and risk perceptions, benefits and potentials of current and new nuclear technologies in the context of major societal challenges (climate crisis, sustainable energy policies, energy security). It will review through a socio-ethical lens the uptake of recommendations on stakeholder engagement and transdisciplinarity (notably integration of social sciences and humanities) in nuclear research and decision making, developing recommendations to overcome existing challenges. Societal stakeholders (authorities, industry, academia and civil society) are engaged to explore and co-construct possible energy futures and the role of nuclear energy therein.

Sustainability assessment of current nuclear energy technologies will take into account the entire life of the nuclear investment including the nuclear fuel cycle. Integration of new technologies (Gen III+, IV, SMR) is then explored in the context of the future energy market and societal developments to identify the possible roles of nuclear energy in the climate neutral economy targeted for 2050. Multiple perspectives (nuclear experts, social scientist, stakeholder, society) are integrated and methodological recommendations for sustainability assessment are agreed.

To address the weaknesses of existing economic models, ECOSSENS develops a novel model based on the system of provision approach in order to create and calculate indicators relevant for a plethora of stakeholders (consumers, governments, suppliers). The model will include the “social discount rate” and considers the limits of our planet, as reflected in the “circular economy” system. A series of national case studies evaluates the model and provides relevant recommendations to stakeholders.

3.2 The ECOSSENS objectives

Climate changes, like heat waves and droughts, fires, dramatic floods and tornadoes have become everyday facts confronting EU citizens. Reaching Zero Net Emissions by 2050 should concentrate the efforts of all responsible parties, from policy makers and industry, to research, academia, civil society and the general public, and must cover all economic sectors to reduce the impacts of climate changes.

Current and innovative nuclear energy technologies, notably Gen IV nuclear systems and advanced Small Modular Reactors (SMRs), are presented as promising means to support decarbonisation of power generation, increased safety and sustainability and may complement the fluctuating renewable energy supply.

However, nuclear research, development and decision-making need to better address societal views and ensure that a plurality of stakeholders and disciplines can weigh in on sustainability assessments.

In this challenging context, ECOSSENS - Economic and Societal Considerations for the Future of Nuclear Energy in Society - aims to create a neutral space where specialists in social sciences (including economics, sociology, Science and Technology Studies, among others) and humanities and in nuclear energy research and policy will meet, exchange views and collaborate with civil society and other relevant stakeholders in order to:

- Provide a societal perspective on the development and use of existing and new nuclear technologies, in the context of major societal challenges: climate crisis, sustainable development and energy security, by opening up the technoscientific issues to the social, political, cultural and ethical context, in order to guide policies in the nuclear field.

- Provide an assessment of nuclear energy sustainability considering the entire life cycle of the current nuclear technologies, possible evolutions of the energy markets and nuclear technologies in the transition toward climate neutrality, and the societal perspective in order to reveal and evaluate the possible roles of nuclear power in the future;
- Provide a radically new economic model, based on the System of Provision (SoP), for the assessment of nuclear energy, overcoming the key weaknesses of existing economic models, providing a suite of indicators relevant not just for the investors (e.g. equity holders) but for a broad variety of stakeholders (e.g. consumers, governments, suppliers).

To reach its goals ECOSENS has five Work Packages (WPs). The WP1 “A collaborative assessment of (imagined) energy worlds” groups all activities dedicated to social investigations. The actions on the societal aspects of energy futures will provide insights into the perceived risks, benefits and potentials of nuclear energy technologies, which will be further deepened through studies on citizens’ motivations for engaging with the issue in the context of major societal challenges: climate crisis, sustainable energy policies, energy security. Furthermore, WP1 will identify challenges for the uptake of existing recommendations on stakeholder engagement and transdisciplinarity (notably integration of social sciences and humanities) in nuclear research and policy and develop practical recommendations for these challenges. By engaging with relevant societal stakeholders, WP1 will explore and co-construct with them possible futures for nuclear energy taking into account ongoing energy transitions and climate change and other major societal challenges, all results feeding the assessment WPs 2&3.

The WP2 “Assessment of the sustainability of the whole cycle of nuclear power” will provide methodology in support of a better understanding of economic, environmental, and social/ethical aspects of the entire fuel cycle and of the different phases of the investment as applied to different generation of nuclear systems including emergent nuclear technologies. Methodologies and tools for assessment will be reviewed and selected along with a set of assumptions. They will be applied in an investigation of the possible evolution of the energy market (demand, structure, rules, etc), in the frame of the climate neutrality proposed for mid-century. The market impact of identified driving factors will be analysed in order to understand the role of nuclear power, with explicit consideration of the new nuclear systems. The analysis of market and societal evolutions under e.g. crisis conditions will engage nuclear experts, SSH researchers, and stakeholders to evaluate criteria and methods and formulate recommendations for sustainability assessment.

The WP3 “A System of Provision approach for nuclear power” addresses the key weaknesses of the most relevant recent assessments of total costs of nuclear (and non-nuclear) energy, providing/enlarging a suite of indicators relevant for a variety of stakeholders and not just the investors. Review of the main industrial and scientific literature on the System of Provision (SoP) approach, will enable development of a new SoP model for the energy sector which will leverage the perspective from relevant stakeholders. An overall architecture of a SoP approach allowing application of the social discount rate (or rates) in feasibility studies of energy infrastructures, particularly in the commercial nuclear sector will be proposed. The SoP model will be further improved considering the Circular Economy Principles. The newly developed economic model will be then applied to multiple case studies in different European countries with different nuclear energy programmes and strategies. The results obtained, including feedback from stakeholder interviews and consultation, will be synthesised in a series of policy recommendations for policy and decision makers.

The cross-cutting topic of dissemination, communication and exploitation will be addressed in WP4. The management of ECOSENS is the responsibility of WP5, where also special attention for interdisciplinary dialog will be taken.

3.3 ECOSENS measures and methodology

ECOSENS will address the divide between the techno-scientific content and the societal and environmental context of technology development, in relation to energy and climate governance, and in particular to nuclear energy governance. Important questions will be tackled: How do we choose to live with energy in today's society? Which societal energy choices may be made by European citizens tomorrow and in the far future? A transdisciplinary approach will be conducted to evaluate "the (energy) world we live in", providing data and a test space for sustainability assessments (economic, environmental, societal, ethical) of nuclear energy technology. In the spirit of Responsible Research and Innovation, co-constructive analyses will reflect on the techno-scientific issues of energy choice and governance from a societal perspective and contextualise them by taking into account social, political, cultural and ethical aspects of energy futures that include the possible application of nuclear energy technologies.

Public perception of and attitudes towards nuclear energy have been investigated for decades showing for instance that perceived costs, risks and benefits, and affective imagery associated with nuclear energy are important influencing factors. However, the character and context of public engagement has been evolved, especially with the climate changes and other energy emergency. The nuclear industry has positioned itself in the climate change debate as a low-carbon energy technology option and various civil society movements (e.g. ecomodernism) are emerging to support this position. Understanding the positions of different stakeholders in relation to nuclear energy is thus more complex than ever before. In-depth insight is missing regarding how European citizens view the role of existing and emerging nuclear energy technologies in the context of the climate crisis and increasing focus on energy security and sustainable development. Perception of SMRs or generation IV reactors has not yet been addressed in a systematic way. There is a need for actions that enable representatives of civil society to engage directly with technologists and policy makers. Furthermore, the impact of the new social movements and interest groups on general attitudes towards nuclear energy has not yet been investigated; there is a need for not only broad-based opinion research but also a systematic approach to grasping 'who' protests, 'why' and 'how'. ECOSENS will address these gaps through national and international, quantitative and qualitative investigations of public attitudes towards existing and emerging nuclear energy technologies, as well as of motivations for engagement with the issue in the context of climate crisis, sustainable development and energy security. In particular ECOSENS will illuminate the politicisation of nuclear energy issues - how and why actors (particularly political parties) take different positions on the issues, and which themes and strategies are selected by various lobbies.

An assessment of the actual uptake of recommendations from different previous EU-funded projects in countries with different nuclear energy policies (e.g. phase-out, new-build), as well as outcomes, will be performed with the justification, effectiveness and sustainability evaluations. In ECOSENS we will consult different stakeholders and perform case studies (interviews, media analysis) to develop practical recommendations for enhanced mechanisms of interaction between citizens, civil society, decision-makers and researchers (in particular in social sciences and humanities, SSH). Several deliberative engagement workshops will be organised to explore the plurality of evidence- and value-based perspectives on sustainability and energy governance assessments and on the role of nuclear energy therein.

ECOSENS will approach the evaluation of the total cost of nuclear energy from the perspective of sustainable development, thus integrating the economic, environmental and social/ethical dimensions, and taking into account the entire nuclear fuel cycle. ECOSENS recognises that understanding the potential contribution of nuclear energy to a climate-neutral EU should be the result of a co-constructive exercise among researchers, the industry, policy-makers and civil society, and will target the entire cycle, extending the analysis to current and new technologies selecting and testing economic, environmental and social/ethical assessment tools. ECOSENS will engage with specialists and a diversity of stakeholders to co-construct assessment outcomes, judge the relevance of hypotheses and criteria, and issue recommendations on a generalisable assessment approach.

The possible place of nuclear energy in the future energy market will be investigated considering the need for supply security and under societal development hypotheses. The selected sustainability methodology will be adapted to cover the entire life cycle of current and new nuclear technologies based on extensive study of the literature, policies and strategies as well as on exchange of views among experts and stakeholders. Expected major changes in global and national energy consumption market structure due to different influences (e.g. development and large-scale implementation of disruptive technologies; possible influences of various crises; intensification of electrification, especially in the transport sector; introduction of energy efficiency measures) will be considered. The results of the sustainability assessment will be finally validated by experts and stakeholders in a dedicated workshop and transposed in a set of recommendations for stakeholders and policy-makers on sustainability assessment methodology.

A new SoP model for the energy sector will develop which will address and overcome three key weaknesses (i.e., existing assessments typically take the perspective of investors of existing full costs assessments, discount rates applied have been predominantly market-driven, traditional economic models ignore planet constraints) of existing full costs assessments. Multiple case studies in different European countries with different nuclear energy programmes and strategies will be based on this new model, obtained results will be synthesized in the recommendations for policy and decision makers.

ECOSENS activities and results will be subject to a large dissemination and communication programme, elaborated early in project implementation. At the centre of this programme is the consolidation of stakeholder networks, which will be informed and directly involved through ECOSENS in the project workshops and scientific events (held in person, on-line or hybrid). Throughout the ECOSENS project stakeholders' ethical views will be taken into account in qualitative activities and in sustainability assessment. The relevant ethical requirements and issues, including General Data Protection Regulation, as well the ethical rules of conduct in Social Science and Humanities research will be applied.

3.4 ECOSENS expected impacts

ECOSENS activities exploring public attitudes, views and concerns related to current and new nuclear energy technologies, using state-of-the-art social investigation methods (national representative surveys, in-depth interviews, focus groups), and comparisons at European level, will contribute directly to the first expected outcome of the call: analysis of the different dimensions of societal perceptions of nuclear energy in the context of major societal challenges. Connected to this, ECOSENS will also improve the understanding of motivations for citizens' engagement with nuclear energy issues and factors driving public acceptance of nuclear technology practices.

The deliberative workshops involving different stakeholders in which different perspectives on sustainability and energy governance assessments and the role of nuclear energy herein will be co-

elaborated, will increase the engagement with key stakeholders on the challenges and opportunities for current and future development and use of nuclear energy technologies. This will result in more inclusive assessments of the social, economic and sustainability aspects of nuclear energy, and better integration of social and ethical considerations, as well as documentation and recommendations allowing further reflection and engagement to take place elsewhere.

Assessing the uptake of existing recommendations on stakeholder engagement and transdisciplinary collaborations and formulating collective recommendations for overcoming standing challenges, ECOSENS will enhance and strengthen the engagement of stakeholders (including citizens and civil society) in the process of nuclear policy development and implementation.

The analysis of nuclear energy sustainability will help a large range of stakeholders to understand the characteristics of nuclear energy in terms of sustainability, including a clearer view on the total costs of different phases of the nuclear fuel cycle and of the entire life cycle of the nuclear investments. With the co-elaboration and publication of these results, ECOSENS will bring important contributions to the analysis of global total costs of nuclear energy, and to the assessment of nuclear energy's contribution to a climate-neutral EU energy system by 2050.

Analysis of the evolution and development of the energy market, co-constructed and published, will contribute to a better prediction of energy demand and of possible paths to satisfy the needs of consumers, under climate change mitigation conditions. ECOSENS analyses will take into account crisis evolutions (e.g. pandemic, migration, global warming, etc.) as well as the large impacts of some factors such as the implementation of disruptive technologies, energy efficiency measures, and the electrification of transport, among others.

Energy market discussions and societal development with the horizon of 2050 will reasonably have to consider the implementation of new nuclear technologies (Generation IV and SMR systems) with impacts to capitalize on opportunities such as progressive investment, compact construction schedule, acceleration of return on investment, adaptability to non-electric applications, economy of multiples, standardisation, modularity, inherent safety, and smaller emergency planning zone. The innovations should be closely interpreted by the new understanding of climate changes and risk perceptions. It is expected that the ECOSENS co-constructed analysis and recommendations, by providing a diversity of high-quality information to feed into market anticipation and investment decisions, will produce some impacts at the level of research, development and innovation, stimulating R&D and E&T in nuclear, as well as the integration of social sciences and humanities in this research. Dissemination activities including international events and network actions will bring these data and reasoning to stakeholder attention.

Historically, nuclear reactors have not been deployed for a return on investment, but for the intrinsic advantages of this technology (e.g. dispatchable generation, low generation cost, fostering of science and industrial development). However, current economic models and electricity markets do not adequately value dispatchable generation, do not adequately value security of supply (particularly in the medium-long term) and penalise long life cycles. Discounted cash flow methods do not entirely overlap with Life Cycle Assessment methods reflecting all the pillars (economic, environmental, social/ethical) of sustainability. Energy policies cannot be guided only on the basis of return on investment but should incorporate the wider perspective of stakeholders and the limits of our planet. The SoP approach developed in ECOSENS and validated through deliberative stakeholder activities will bring a new framework and indicators into visibility, enabling a rethink of energy policy criteria.

The transdisciplinary and participatory approach involving variety of stakeholders in developing and disseminating findings, coupled with its firm Open Science philosophy, it is expected that ECOSENS will:

- contribute to the democratisation of European energy policy;
- stimulate awareness of and sensitivity to the complexity of the (nuclear) energy challenge and trigger debate on responsibilities of the various actors relevant to dealing with that complexity;
- inform stakeholders and policy makers of the impact of new social movements and interest groups on energy policy in general and on nuclear energy policy in particular;
- generate new synergetic knowledge that can inspire social innovation in energy policy, in particular related to stakeholder engagement;
- potentially inspire academies and high schools on how to integrate courses on energy, climate change and sustainability into their education programmes.

4 Communication and dissemination plan

4.1 General

The draft Plan for the Exploitation and Dissemination of Results (PEDR) and draft Communication Plan were developed already as part of the ECOSENS proposal and now part of GA [1] according to the EC reference documents Fact Sheet - the Plan for the Exploitation and Dissemination of Results in Horizon 2020 [3] and Communicating EU research and innovation guidance for project participants [4]. The strategy gives an orientation towards the organisation of the ECOSENS project activities and therefore addresses the following questions:

- What kind of needs does the project respond to?
- What kind of problems the proposed solutions will solve and why these solutions will be better than existing ones and in which areas?
- What new knowledge (results) the project will generate based on assessment of the state of the art?
- Who will use these results?
- What benefits will be delivered and how much benefit?
- How will end users be informed about the generated results?

The Strategy and plan for communication, dissemination and exploitation of results provides the answers to the identified questions in all sections of deliverable to the appropriate level of details, so the plan can be implemented from beginning. The following timing of activities is foreseen:

- Initial awareness phase (month 0-6): this especially includes establishment of ECOSENS project website, analysis of relevant information resources, identification of communication and dissemination opportunities (activities and channels), stakeholders' mapping and engagement, creation of basic communication and dissemination channels and tools including graphical identity of the project (i.e. project logo, project website, templates for project documents and for project presentations, databases), development of related plans including Data Management Plan and first activities to foster initial knowledge exchange.
- Targeted communication and dissemination phase (month 7-24): the consortium will enrich the website, use the social media, publish a project's documents designed to the target groups

(poster, brochures, leaflets, newsletters, press releases), conduct events (with proceedings) and attend other related events. Preliminary project results will be presented to the target audiences.

- Deliverable phase (month 25-36): this represents the mature period of the project, when ECOSENS consortium partners will deliver the majority of project outputs. This phase will be focused on informing the target audience of the exploitable results.

As stated, the plan will be annually updated to ensure the integration of feedback from communication and dissemination activities, to assure improved alignment with the project development and to respond to the contextual changes (from inside the project or from other related developments in the field of nuclear energy and society).

Within the ECOSENS the following issues will be communicated and disseminated:

- ECOSENS project itself (general scope, coverage, goals, milestones and plans to reach them),
- publishable research results (reached objectives and achievements as in open access policy for publications and research data),
- developed tools, methodologies and technologies (with respect to IPR),
- innovation aspects (in an “open innovation” perspective),
- developed recommendations (as mechanisms for improved policy).

Focus of the communication activities is to inform about and promote the ECOSENS and its results to the multiple audiences, including the media and the public, in a two-way exchange. The dissemination activities describe and ensure that the results are available for others interested, like scientific communities, industrial partners, policymakers and other end users. The exploitation activities enable concrete use of project results through scientific, economic political or societal routes by interested organizations within project partners or other user groups outside the project. WP4 enables open access policy as presented by Open Research Europe (<https://open-research-europe.ec.europa.eu>) for publishing scientific articles of the project and European Data Portal (<https://data.europa.eu/en>) for research data as a pan-European repository of public sector information open for reuse in the EU. The ECOSENS results will be to a majority or in totality public, and it is not anticipated that further intellectual property protection will be required beyond publication authorship; all perimeters will be detailed and justified in the Data Management Plan. Green open access at the website project online repository will be used and also gold open access for limited number of publications.

4.2 Communication & Dissemination strategy

4.2.1 Open access

According to the guidance on open access for the Euratom Research and Training Programme³, the appropriate measures to grant open access to all scientific publications and research data resulting from ECOSENS will be adopted by the consortium. Each beneficiary must ensure open access (online access for any user, free of charge) to all peer-reviewed scientific publications relating to their results. The ECOSENS website will serve as a platform to enable open access of the project outputs.

In particular, each partner must:

³ Horizon Europe Programme Guide: V2.0, 2022, https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/guidance/programme-guide_horizon_en.pdf

- i. As soon as possible, and at the latest upon publication, send an electronic copy of the published version or final peer-reviewed manuscript accepted for publication to the coordinator (WP5) and WP4-leader to be posted on the ECOSENS website.
- ii. Ensure open access to the scientific publications via the ECOSENS website:
 - a. Immediately upon publication if a free electronic version is available via the publisher, or
 - b. Within six months of publication in any other case that involves delayed access.

The Gold Open Access in Open Access Journals for three scientific articles is foreseen in the project as part of WP4 activities.

4.2.2 EU identity

Unless the European Commission requests or agrees otherwise or unless it is impossible, any dissemination of results (in any form, including electronic) must:

- a) Display the EU emblem and
- b) Include the following text: “This project has received funding from the Euratom research and training programme HORIZON-EURATOM-2021 under grant agreement No. 101060920.”.

When displayed together with another logo, the EU emblem must have appropriate prominence. For the purposes of their obligations under the Article 17 of GA [1], the beneficiaries may use the EU emblem without first obtaining approval from the Commission.

This does not however give them the right to exclusive use. Moreover, they may not appropriate the EU emblem or any similar trademark or logo, either by registration or by any other means.

4.2.3 Disclaimer and IP rights

Any communication and dissemination activity related to the ECOSENS must indicate that these only reflect the author's view and that the European Commission is not responsible for any use that may be made of the information it contains.

The following sentence shall be used for this purpose and is included at the beginning of each project deliverable:

‘Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union, which cannot be held responsible for them.’

Consequences of non-compliance

If a beneficiary breach any of its obligations under Article 28 of the Grant Agreement, the grant may be reduced.

IP rights

Dissemination activities in ECOSENS project are deeply linked to the intellectual property (IP) rights protection which is clearly stated in General Agreement Articles 16 and in Annex 5 [1]. Practical application of IP rights protection agreed among ECOSENS project partners is adjusted in the Consortium Agreement (CA) [5] in Section 8: Results, Section 9: Access Rights and Section 10: Non-disclosure of information. The IP rights in ECOSENS follow the proposals as given in the EU IP Helpdesk [6].

4.2.4 Communication and dissemination approach

All partners of the consortium must contribute to the dissemination and communication according to their foreseen role and effort and using all available tools. The WP4 and the WP4 leader will be the central point for the coordination of activities. It is foreseen that the proposals from WPs are transferred by WPLs to the WP4 leader because all WPLs are members in WP4. The final approval will be given by the project coordinator (also WP5 leader).

The following will be undertaken:

- Dissemination plan will be continuously developed and implemented to ensure that all the milestones of the project have an accurate broadcasting and reach the targeted audience having the expected impact.
- Communication plan will be integrated in dissemination plan, with focus on two-way exchange and proactive stakeholder's engagement.
- ECOSENS channels and tools will be established for effective communication, dissemination and exploitation of research data and results.
- Intensive follow-up plan of the deployment of communication, dissemination and exploitation activities, ensuring its correct functioning and making the necessary corrections when it is needed.
- Coordination of the communication and dissemination activities among all partners to ensure a correct deployment of the strategy.
- Coordination with external stakeholders, such as related projects, institutions and media to ensure a high outreach of the related activities.

It is proposed to communicate between project partners in cascades:

- Coordinator to all WP Leaders (WPLs),
- WPLs to WP members in their particular WP,
- Coordinator to all partners' main contacts in case of information important to all.

However, for the more effective internal communication still the emails of all participants with regards to WPs, tasks and subtasks will be established on the internal ECOSENS webpage and regularly updated by coordinator.

The main contact point for the ECOSENS communication and dissemination as well as exploitation of results is WP4 leader.

To increase efficiency, a standard email subject title shall be used. This will allow the project partners to quickly recognise ECOSENS related emails. These should include in the subject title the project name ECOSENS and WP number (if applicable), followed by a more specific description of the subject and a deadline for feedback or reply (if applicable).

4.3 Communication & Dissemination activities, channels and tools

A wide range of activities, channels and tools can be used specifically or commonly for communication and dissemination purposes. Different activities, channels and tools are briefly described bellow, in separate subsection the indication is given for which purpose the activity/channel/tool is used and for which targeted audience they are suitable for.

4.3.1 ECOSSENS Website

The main communication and dissemination tool of ECOSSENS project targeting all audiences is a public website. The ECOSSENS website was registered in the “eu” domain with intuitive URL to increase the hit rates: <https://www.ecosens-project.eu/>. It is the main channel for the provision of information and updates about the ECOSSENS project and serves as a repository for all public deliverables of the project and other project’s results as part of the open access policy (green open access).

It has a public area, external for anybody to be able to connect and a non-public area intended for internal communication and dissemination between project partners which is protected with login and password.

Public ECOSSENS website

The ECOSSENS website has the following architecture menus:

- *Home* with basic overview information about the project,
- *Participants* with overview of the geographical coverage and short information about all members of consortium and with links to their home websites,
- *Structure*, with short description of each Work Package objectives and tasks,
- *Publications*, divided to the deliverables, other contributions (like scientific articles and presentations) and videos (with links to the YouTube ECOSSENS site),
- *News* with ECOSSENS’s interesting information and updates,
- *Events* with monthly and yearly calendar of different events that are of ECOSSENS interest (ECOSSENS events, ECOSSENS related events – events that ECOSSENS is a part of, and internal project events for members only),
- *Stakeholders* with groups of networks based on interests and needs, who will be actively involved in the project’s activities,
- *Important links* with connections to related platforms and associations,
- *Contact* with information about how to get in touch with the project,
- *Direct access* to the social media (Twitter, LinkedIn, YouTube).

At the bottom of the ECOSSENS website there is a legal notice and privacy statement to inform the users about the terms and conditions of use of the internet website, and to inform about the personal data management. The European Green Deal policy is supported with special statement:

“When planning your activities please consider the possibility of reducing the carbon footprint. Actions to be considered include preferential choice of train transportation and minimising printing of any paper material.”

According to the GA a separate deliverable D4.2 Data Management Plan will be prepared in month 6. It will include information about research data, which will be collected, generated or processed within the project and beyond, which methodology & standards will be applied, whether data will be shared/made open access and how data will be preserved & curated after the end of the project. It will also include the information about the repository where the research data will be available to assure open access to research data.

The website will regularly be updated with on-going activities (about the progress in WPs), public reports/deliverables, publications, upcoming events (3 categories: ECOSSENS, related to ECOSSENS, internal for ECOSSENS partners), scientific meetings and workshops. The new information will be updated at least once per month. All participant and WPLs are expected to contribute to feed the ECOSSENS website with news about their work package (like issue of an important deliverable and other

results, reach of an important milestone, planned workshops and other events related to the WPs). The website administrator is RATEN in collaboration with WP4 lead (EIMV). New contents for the ECOSENS website are managed by RATEN and EIMV (as WP4), and approved by RATEN (WP5).

Website hits, page views and deliverables/documents' downloads will be monitored in order to measure the impact of the ECOSENS website. The collected information will be used anonymously (without the personal data of the users) for the purpose of the ECOSENS project.

Internal website (Member space)

The non-public area is intended for common file-sharing, for the collection of the various reports produced during the project as well as a central element of the communication between Consortium partners. All reports, deliverables, results and relevant material will be accessible to all project partners at all time. The internal website will have the general structure:

- General folder with General Documentation (include GA, CA, ...), Deliverables (it will be linked with public Publication area), Milestones, Meetings, Scientific Publications, Contact Database (ECOSENS participants and stakeholder groups), Logo and Templates.

Project partners have the permission to upload any digital file (documents, pictures) by simple drag and drop. Documented user guide and online training to partners are available upon request.

To keep the repository functional the following guidelines are considered:

- Creation of directories/folders when needed,
- When communicating on uploaded/changed documents, indicate in which folder, if not obvious, e.g. ECOSENS/Meetings/...,
- If it is needed to upload Word and/or Excel files containing complex formatting, figures, graphs etc. it must be checked whether these features are preserved when uploaded. If not, convert to pdf before uploading,
- Notifications on changed documents by email is an option, but preferred way is to include relevant authors only (to avoid notification spamming).

4.3.2 Social media

In addition to the internet website, also other online tools are established for the communication and dissemination activities of ECOSENS project as in H2020 Social media guide for EU funded R&I projects [7]. The following web based social media are formed:

- **Facebook** <https://www.facebook.com/ecosensproject/>
- **LinkedIn** <https://www.linkedin.com/company/ecosensproject/about/>
- **Twitter** @ecosens_project https://twitter.com/ecosens_project
- **YouTube** <https://www.youtube.com/@ecosensproject>

They are available from the ECOSENS website and follow to the extent possible the ECOSENS graphical design. The Twitter account is intended for short messages up to 280 characters to be posted for some specific audiences like media, policy makers, but also general public. Besides the ECOSENS twitter name #ECOSENS, the contributions are encouraged also to include related hashtags such as #nuclearenergy, #nuclearsociety, #nuclearfuture, #Horizon Europe, #EUCollaboration etc. The LinkedIn account has no limitations for the publishing and the profile can include many interesting information, like important results, events or development, and also links to the ECOSENS website. This social media is mainly used for professional networking, including participants of the ECOSENS. The Facebook

account builds on communication the news and main messages from ECOSENS to the networks of broader audiences with special attention to the presentation of the ECOSENS results and events. The YouTube account enables to share interesting videos about the project, with special attention to the presentation of the ECOSENS events and results.

All the online tools will be regularly maintained and updated with on-going activities. The general policy is the information is harmonised between website and social media. The new information will be uploaded few times per month, more intensively with Twitter, and less with LinkedIn, Facebook and YouTube. All participant and WPLs are expected to contribute to feed the ECOSENS social media with news about their work packages. The social media administrator is RATEN with EIMV. New contents for the ECOSENS website are managed by RATEN and EIMV and approved by RATEN as Coordinator.

4.3.3 *ECOSENS material*

As part of the communication and dissemination activities, ECOSENS material will be prepared including the project's visual identity and logo to be used within different channels and tools depending on the targeted group.

The official **ECOSENS leaflet** will be produced to inform about ECOSENS project objectives and expected results as well the methods which will be used. It will be used for on-line communication and dissemination, and also to be distributed to the different stakeholder networks. The level of details will be generic, therefore it will be intended mostly for most of the stakeholders network groups. The ECOSENS leaflet will be electronical (as PDF), and could be also printed to be used during different events. The ECOSENS leaflet will be reviewed and upgraded on yearly bases to provide information on the ECOSENS development.

The **ECOSENS poster** (A0 format) will be another form of the information about ECOSENS project. It will have the similar content as leaflet but will be prepared in PPT format in order to be used more for different events. The content could be more oriented for different professionals, like scientific community and researchers, public, social scientists, economists, The ECOSENS poster will be in electronical form (as PPT or PDF) so it could be also modified for the particular purpose and printed.

The **ECOSENS presentation** will be further form of presentation about ECOSENS project and will consist of approximately 15 slides in ppt to be used for the events where participants would promote ECOSENS and the results from beginning. In time it will be modified and enriched with the results from the project so it could serve for continuous communication and dissemination activities within ECOSENS.

The **WPs brochures/leaflets** are the forms of material with more specific content devoted to the particular scientific areas which are covered by WPs 1 to 3. Such brochures and leaflets are intended for the stakeholders' networks and will be used during ECOSENS events.

The **WPs videos** will be recorded as short movies for the purpose of particular activity in the project, also to attract participants for the ECOSENS workshops organised for WPs. They could present the WPs objectives and planned activity in a short 2-3 minutes video. The WPs videos will feed the social media, especially YouTube as modern and attractive inputs about the project and expected results. These contributions will be recorded during entire period of project duration to be used for communication and dissemination activities.

An annual **ECOSENS E-Newsletter** will be developed as a main source of information about updates and news of the ECOSENS project, like results in WPs, past and upcoming events, publications, trainings, etc. The content will be incorporating latest developments of the project as well as recent or upcoming dissemination activities; success stories; presentations, workshops; reports, publications and media interest, etc. The E-Newsletter will be published on ECOSENS website as electronic version, promoted also by other social media and distributed to the ECOSENS contact database. All together 3 issues will be developed, first one after the end of first year.

In order to achieve a broader distribution and facilitate the engagement of as many stakeholders as possible, the ECOSENS partners will be encouraged to distribute the newsletters to their contacts who may be interested in the project. A specific option for subscription to the list of newsletter recipients, has been included on the ECOSENS website.

As a tool for important news, the **ECOSENS Press releases** will be used to be published on ECOSENS on-line channels, but also to be distributed to stakeholder groups, in particular to media, or to other identified group. It is expected that such releases, especially if properly prepared (use of understandable language, interesting information, supported by photos, graphs, videos or other material) will be re-published and with this increase the impacts of ECOSENS.

The ECOSENS material will be developed during the first year of the project, first the basic leaflet, poster and slides (until month 6) and later the Newsletters, WPs brochures/leaflets and videos (until month 12). In the second year of the ECOSENS it is planned that material will be continuously developed, based on the first issues. All participant and WPLs are expected to contribute to the ECOSENS material development with news about their work package. The activity is coordinated by RATEN and EIMV with contributions from WPLs. The ECOSENS material is approved by RATEN.

4.3.4 Deliverables and scientific publications

The ECOSENS project foresees a number of milestones and deliverables which will be developed during the project within each of the WPs. Each of the milestone or deliverable is already briefly described in the GA [1] with lead participant and other participants which will be involved. The milestone documents will be reviewed and approved, and will be published on internal ECOSENS website. The deliverables will be reviewed, approved and submitted to the EC according to the adopted timetable in GA [1]. Only when approved by EC, they will be uploaded on the public ECOSENS website under the Publications/Deliverables. With such approach the Green Open Access will be assured for all interested with aim to make research outputs more transparent and their use more efficient. Other publications, like scientific articles, presentations or papers, will be also uploaded to the ECOSENS website under Publications/Others to assure Open Access policy as soon as possible (and in line with GA).

For a limited number of peer reviewed publications summarising the ECOSENS results the Gold Open Access in Open Access Journals will be assured presumably near the end of the ECOSENS project. It is foreseen to publish 3 scientific articles covering the results from WP 1, 2 and 3. The selection of the scientific journals with such option will be detailed in the next version of the strategy, after the discussion with WPLs.

4.3.5 Events

Events are the most engaging activities because they provide the possibility to have direct or indirect contact with a wider audience and increase ECOSENS visibility (physical and online) across branding



identities through the use of e.g. the logo etc. Opportunities to take part in events organized by ECOSENS, the European Commission and other partners will be continuously sought after.

The partners will participate at conferences, events, workshops etc. relevant to the project in order to:

- present the project and project results to the audience,
- promote the project on a formal basis, through a presentation at the conference/event, participation in a workshop panel discussion etc., and
- increase the project visibility.

A number of **ECOSENS events** are planned as part of the project. One scientific ECOSENS event per year (in total 3 events) is foreseen at the end of each project year. It will start with kick-off workshop around month 12 with the aim to present the project, the results from the first year of research and investigation and the plans for further work. The next annual ECOSENS events will have different forms, depending on the content, either seminars (smaller event, presentations and discussions) or workshops (bigger event, presentations, discussions, also exercises). The final ECOSENS event (at month 60) will have the form of the scientific conference, where the ECOSENS results and recommendations will be also complemented by other developments in the field of radon and NORM, or with further development of the research in the radiation protection.

Additionally, **online ECOSENS events** will be organised once a year to attract also related target audiences (like, younger generation, other related scientific communities, building professionals, citizen science members).

The programme committee will be established 6 months before the meetings consisted by WPLs, the organisation will be managed by EIMV with assistance of local partner, depending on the location. For each of the events the proceedings will be developed (either as milestone documents, or with overview of all events as final deliverable). The events will take into account the needs of different stakeholders' networks, defined in previous section: Scientific community and researchers, Authorities, Policy makers, Implementers, Related, Impacted and Media. More precise plan for events will be prepared annually in related WP4 documents.

Apart from ECOSENS events, also **participation in thematically associated events** will be promoted as far as possible, organised by other related platforms, associations or organisations. Already established connections with events will be used to obtain the information (like RICOMET, related platforms' events (SNETP, SHARE), associations' events (IGDTP, NERIS, SITEX.Network), activities of NEA, IAEA, IEA, projects like EURAD, SHARE-decommissioning). As the ECOSENS participants are members of many, event could be also co-organised with ECOSENS project. The main aim of such involvement will be to communicate and disseminate ECOSENS project and results. All WPLs will be involved in collection of information and prioritisation of participation.

4.3.6 Contact Database

To assure active stakeholder engagement the Contact Database will be developed and regularly maintained as a basic tool for communication and dissemination activities, as well as for some actions within WPs (like planned workshops in WP1 and scientific events). It will be uploaded on the internal ECOSENS website and will follow the stakeholders network groups division: Scientific community and researchers, Authorities, Policy makers, Business, Related, Civil society organisations, Media and General public.

The collection of data about stakeholders network groups will respect Regulation (EU) 2016/679 of the EU Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data (GDPR). The ECOSENS Privacy policy (published at ECOSENS website) with regards to data protection management will be applied. The Database will be structured to provide possibilities for effective interactions and engagement, so it will include following data: name, email, institution, stakeholder group and country. The network groups will be than involved in ECOSENS activities to engage, to obtain feedback, to be used in the pilot tests, always based on their consent. The option to change the mind and to withdraw from the database will be also given. The management of the collected data will be organized carefully for purpose of ECOSENS project only. The collection of data will focus first on the nuclear energy and related stakeholder, including the scientific community, representatives from regulatory authorities and other responsible ministries, municipalities and implementing authorities, business, civil society organisations and media representatives. The updates and further collection of data will follow the development of ECOSENS project.

All WPLs and project partners will contribute to development of active stakeholder engagement. The activity will be continuously further improved and implemented.

4.4 Channels/tools/activities vs networks

A broad diversity of channels, tools and activities will be used for communication and dissemination of ECOSENS project and its results to different stakeholder network groups: Scientific community and researchers, Authorities, Policy makers, Implementers, Related, Impacted, Media, and General public. Most of the measures will be used both for communication about the project and its results, and dissemination of ECOSENS results and knowledge as an input for further use. The exception used for dissemination only are ECOSENS events and scientific articles.

The Contact Database will be used as a basic tool to support the measures implementation. The table 1 below presents main results to be communicated/disseminated to a particular group and connects with appropriate measures presented in previous subsection.

Table 1 – Measures for communication and dissemination to targeted groups

Target group	Results to be communicated/disseminated	Measures
Scientific community and researchers	<ul style="list-style-type: none"> • societal perception of nuclear energy • recommendations on improved mechanisms of interaction between citizens, civil society, decision-makers and researchers • methodology, models, scenarios, impact factors to be used in the sustainability assessment of nuclear energy • System of Provision (SoP) approach 	<ul style="list-style-type: none"> • Publications and reports, ECOSENS material • ECOSENS events and other face-to-face meetings • Social Media and Website, online events • Green and Gold Open Access
Authorities	<ul style="list-style-type: none"> • recommendations on improved mechanisms of interaction between citizens, civil society, decision-makers and researchers • recommendations for future development of sustainability assessment methodology 	<ul style="list-style-type: none"> • Publications, reports and recommendations • ECOSENS material • Devoted events • Feedback from involvement • Social Media and Website, online events

	<ul style="list-style-type: none"> new model based on the System of Provision (SoP) approach to develop and calculate indicators relevant for consumers, governments, suppliers, etc., 	<ul style="list-style-type: none"> Green Open Access
Policy makers	<ul style="list-style-type: none"> recommendations on improved mechanisms of interaction between citizens, civil society, decision-makers and researchers recommendations for future development of sustainability assessment methodology new model based on the System of Provision (SoP) approach to develop and calculate indicators relevant for consumers, governments, suppliers, etc., 	<ul style="list-style-type: none"> Publications, reports and recommendations Devoted events ECOSSENS material Feedback from involvement Social Media and Website Green Open Access
Business	<ul style="list-style-type: none"> methodology, models, scenarios, impact factors to be used in the sustainability assessment of nuclear energy novel model based on the System of Provision (SoP) approach to develop and calculate indicators relevant for consumers, governments, suppliers, etc., discussed and validated by stakeholders. 	<ul style="list-style-type: none"> Publications, reports and recommendations Devoted events ECOSSENS material Feedback from involvement Social Media and Website Green Open Access
Related	<ul style="list-style-type: none"> new knowledge supporting the research activities and directions for future research issues resulted from ECOSSENS and interested for related projects 	<ul style="list-style-type: none"> Publications and reports ECOSSENS events and other face to face meetings Social Media and Website, online events Green and Gold Open Access
Civil society organisations	<ul style="list-style-type: none"> Events interesting for civil society recommendations on improved mechanisms of interaction between citizens, civil society, decision-makers and researchers 	<ul style="list-style-type: none"> Publications, reports and recommendations Devoted events ECOSSENS material Feedback from involvement Social Media and Website
General public	<ul style="list-style-type: none"> recommendations on improved mechanisms of interaction between citizens, civil society, decision-makers and researchers 	<ul style="list-style-type: none"> Publications, reports and recommendations ECOSSENS material Social Media and Website Citizens science
Media	<ul style="list-style-type: none"> Findings and recommendations from ECOSSENS, relevant for general public to promote and enable information for all 	<ul style="list-style-type: none"> Publications, reports and recommendations Devoted events Press releases and other ECOSSENS material Social Media and Website Citizens science

4.5 Reporting, monitoring and evaluation

Several approaches will be used for reporting, monitoring and evaluation of the communication and dissemination activities in the ECOSSENS project with the aim to improve the activities and to advance the used material. Although the WP4 will coordinate the communication and dissemination activities, all ECOSSENS project partners are expected to actively participate in activities.

The results of each communication/dissemination activities will be reported after their implementation. The reports are part of the GA and consist of milestones and deliverables as presented in the Appendix B - WP4 milestones and deliverables. The reports should include beside the content feedback gathered from the target audience (if applicable) and eventually gained contacts to be added to the Contac Database (as a separate, confidential part) to be used for further communication and dissemination activities. All partners should send the communication and dissemination material (any type of material, like papers, articles, presentations or the audio file of an interview for example) to the WP4 leader. The material should be elaborated according to the procedure uploaded on ECOSSENS website.

For monitoring purposes, all communication and dissemination activities will be followed-up, and registered in an excel file (Table 2) where related information will be collected. The excel file will be available for all partners on the internal ECOSSENS website.

Table 2 – Communication/Dissemination monitoring

N o	Type of activity	Main leader	Title	Date	Location or publication	Network group	Size of audience	Countries addressed
1								
2								
3								

In addition, also publications (Journal, Proceeding, Book contributions, ...) developed in the ECOSSENS project will be collected with information about the DOI, type of publication, link to the repository, information about the publication (number, date, title, ISBN, publisher), title of contribution with authors and similar. The excel file will be uploaded and continuously updated on the ECOSSENS internal website to be used by participants and for project reporting.

The WP4 meetings will be organised every 6 months to reassess the activities based on the collected data from monitoring. The information gathered throughout the duration period will be incorporated to the updates of the communication and PEDR report (foreseen as milestone and deliverables).

The collected information from reports and monitoring will serve as a basis for ECOSSENS impact evaluation. The effectiveness of communication and dissemination activities will be reviewed during WP4 meetings, on the basis of quantitative and qualitative criteria: quality of media references, number and impact factors of scientific publications, video views and comments (neutral, positive, negative), website visits, social media feedback, attendance numbers at ECOSSENS events, e-newsletter distribution, interactions with related initiatives and projects. These measures will help to achieve the expected impact of the project by addressing the full range of potential users and uses.

4.6 Networking with other EU funded projects

ECOSSENS will collaborate and liaise with other projects (previous and ongoing) and initiatives that could complement its activities and provide synergies in order to avoid overlaps and taking advantage of possible new ideas that could arise from such communication. Furthermore, it will enhance the dissemination of the project results to a specialised and professional audience.

In particular, interactions will be initiated with WP UMAN of EURAD, FSC (Forum of Stakeholders Confidence) and other groups of the NEA/OECD, related IAEA initiatives (such INPRO) and JRC.

After the adoption of this deliverable, the contacts with on-going and previous projects/initiatives/groups will be established to benefit from synergies and to exchange the information. Each WP leader will identify the contacts and coordinate the respective interactions.

4.7 Visual identity and templates

4.7.1 ECOSSENS Logo

The ECOSSENS project logo must be placed on all the project dissemination materials, documents and communication tools throughout the project lifetime. The ECOSSENS project logo is developed in two variants as presents in Figure 2, one with the explanation title and the other with just sign and name. Both variants are intended to be used in the ECOSSENS project.

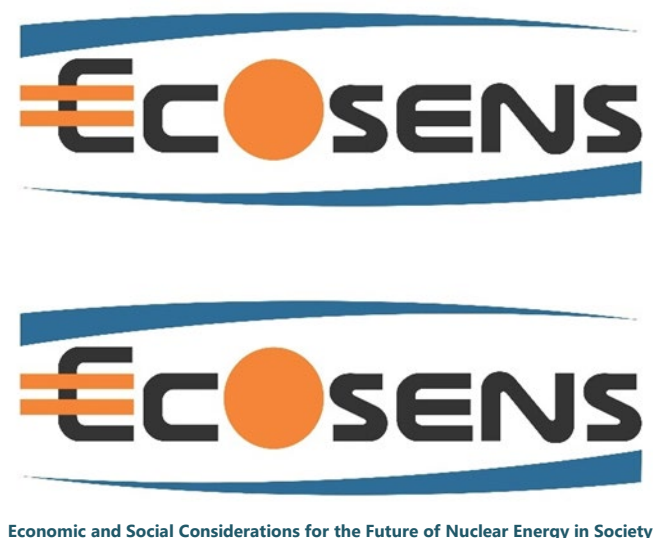


Figure 2 – ECOSSENS logo variants

The main colours of ECOSSENS project are defined in Figure 3 and are used in all ECOSSENS channels/tools/activities.



Figure 3 – ECOSSENS basic colours

4.7.2 ECOSSENS additional graphical elements

Some other graphical elements (illustrated in Figure 4) are proposed to be used in presentations, posters, leaflets, brochures and all other ECOSSENS material and as background for documents. Internal ECOSSENS websites includes several graphical elements to be used in the development of material.



Figure 4 – ECOSSENS graphics and examples of backgrounds

4.7.3 ECOSSENS templates

ECOSSENS will be presented in several events, conferences, meetings as well as other occasions to disseminate project developments and results, enhancing the overall dissemination efforts. Different templates have been made available to Consortium partners via the project's internal repository to be used for milestones, deliverables, presentations (PPT), meeting minutes, poster or any other product in order to have a homogeneous strategy and approach to execute dissemination activities as well as to report on them. It is recommended that participants agree with WP4 leader and project coordinator any modified version of templates.

Additionally, as required per Article 17.2 of the Grant Agreement [1], all material used for communication and dissemination purposes of ECOSSENS, will demonstrate the EU emblem along with along with the statement that the project has received funding by the European Union:



This project has received funding from the Euratom research and training programme HORIZON-EURATOM-2021 under grant agreement No. 101060920.

A disclaimer that excludes the responsibility of the European Commission for any use of the information contained in any communication and dissemination activity related to the ECOSSENS as required by Grant Agreement Article 17 shall be added as well.

5 Exploitation plan

According to Article 16 and Annex 5 of Grant Agreement [1] beneficiaries must assure possibilities for exploitation⁴ of results:

⁴ The use of results in further research and innovation activities other than those covered by the action concerned, including among other things, commercial exploitation such as developing, creating, manufacturing and marketing a product or process, creating and providing a service, or in standardisation activities.

- Beneficiaries which have received funding under the grant must — up to four years after the end of the action — use their best efforts to exploit their results directly or to have them exploited indirectly by another entity, in particular through transfer or licensing.
- If, despite a beneficiary's best efforts, the results are not exploited within one year after the end of the action, the beneficiaries must (unless otherwise agreed in writing with the granting authority) use the Horizon Results Platform to find interested parties to exploit the results.
- If results are incorporated in a standard, the beneficiaries must (unless otherwise agreed with the granting authority or unless it is impossible) ask the standardisation body to include the funding statement (see Article 17) in (information related to) the standard.

The ECOSSENS will take measures aiming to ensure 'exploitation' of its results (either directly or indirectly, in particular through transfer or licensing by:

- (a) using them in further research activities (outside the action);
- (b) developing, creating or marketing a product or process;
- (c) creating and providing a service, or
- (d) using them in standardisation activities.

The Exploitation Plan (EP) has the objective to define the strategy to multiply the impact of the proposed solutions or innovations of ECOSSENS project (as presented in section 3) to be prepared for the transition towards the uptake in order to fully achieve the expected impacts. The EP will describe the activities to be undertaken (how and by whom) in order to ensure the exploitation beyond the project itself. The exploitation of the results will be organised through a Data Management Plan (DMP) developed at the beginning of the project and updated yearly. This will describe the management life cycle for collected, processed and/or generated data to meet FAIR (findable, accessible, interoperable and re-usable) principles.

The exploitation strategy will reflect and will be built-up as a result of the analysis of ECOSSENS products, potential users, and financial sustainability if applicable. All WPLs will be involved in such analyses with tasks leaders. A special seminar will be devoted in first half of the first year to explore the possibilities for exploitation of ECOSSENS results. The target users of the ECOSSENS results will be precisely identified and analysed in terms of specific needs and objectives. Any related IP rights plan will be recognised in relation to the availability of results and any potential limitation (like confidentiality). The exploitation possibilities will be analysed and recorded. It is also foreseen to focus than the dissemination activities to the identified users. The exploitation activities will be coordinated by the Project Coordinator and supported by WP4 leader.

During the ECOSSENS project research data will be collected and generated. The approach to data management will be given in the deliverable 4.2 Data Management Plan to be prepared in Month 6. The outcomes of the deliverable will be included in the next exploitation plan.

6 References

- [1.] Grant Agreement Number 101900009 — ECOSSENS as from 24.05.2022
- [2.] Horizon Europe – Dissemination and exploitation, https://rea.ec.europa.eu/horizon-europe-dissemination-and-exploitation_en
- [3.] Fact Sheet - the Plan for the Exploitation and Dissemination of Results in Horizon Europe
- [4.] Communicating EU research and innovation guidance for project participants
- [5.] ECOSSENS Consortium Agreement, September 2022
- [6.] EU intellectual property rights (IPR) Helpdesk
- [7.] Social media guide for EU funded R&I projects

Appendix A. ECOSSENS consortium

Participant No.	Participant organisation name	Country
1 (Coordinator)	REGIA AUTONOMA TEHNOLOGII PENTRU ENERGIA NUCLEARA - RATEN	Romania
2	STUDIECENTRUM VOOR KERNENERGIE / CENTRE D'ETUDE DE L'ENERGIE NUCLEAIRE - SCK.CEN	Belgium
3	INSTITUTE OF SOCIOLOGY OF THE ACADEMY OF SCIENCES OF THE CZECH REPUBLIC PUBLIC RESEARCH INSTITUTION - ISAS CR	Czech Republic
4	INSTITUT SYMLOG DE FRANCE - SYMLOG	France
5	POLITECNICO DI MILANO - POLIMI	Italy
6	INŠTITUT ZA ELEKTROGOSPODARSTVO IN ELEKTROINDUSTRIJO - EIMV	Slovenia
7	CENTRO DE INVESTIGACIONES ENERGETICAS, MEDIOAMBIENTALES Y TECNOLOGICAS - CIEMAT	Spain
8	MERIENCE SCP	Spain
9	UNIVERSITEIT ANTWERPEN - UANTWERPEN	Belgium
10	UNIVERZITA MATEJA BELA V BANSKEJ BYSTRICI - UMB	Slovakia
11	UNIVERSITA DEGLI STUDI DI CASSINO E DEL LAZIO MERIDIONALE	Italy
12	THE UNIVERSITY OF EXETER - UNEXE	United Kingdom

Appendix B. WP4 milestones and deliverables

Following milestones and deliverables are planned for the WP4 Communication, Dissemination and Exploitation of results (information includes number, title, responsible, month to be developed and for deliverables also type of deliverable, which are all public):

Milestones:

MS4.1	Establishment of project website (external – project repository, internal – project place)	RATEN	M3
MS4.2	Establishment of web based social media for ECOSENS: Twitter, LinkedIn and YouTube	RATEN	M4
MS4.3	Stakeholder mapping and establishments of stakeholders' networks	EIMV	M4
MS4.4	1st Update of Strategy and plan for communication, dissemination and exploitation of results	EIMV	M13
MS4.5	Revision of the Data Management Plan	EIMV	M13
MS4.6	2nd update of Strategy and plan for communication, dissemination and exploitation of results	EIMV	M25
MS4.7	Final Revision of the Data Management Plan	EIMV	M36

Deliverables:

D4.1	Strategy and plan for communication, dissemination and exploitation of results	EIMV	Report	M3	PU
D4.2	Data Management Plan	EIMV	DMP	M6	PU
D4.3	Report on stakeholder engagement	EIMV	Report	M35	PU
D4.4	Communication, dissemination and exploitation final report	EIMV	Report	M36	PU
D4.5	Printed and digital materials' final report	RATEN	DEC	M36	PU
D4.6	Proceeding from project events	EIMV	Report	M36	PU