

r3volution

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D6.3 Communication and Dissemination Strategy and Synergies Plan

Version 2

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Communication and Dissemination Strategy and Synergies Plan – Version 2

D6.3: Communication and Dissemination Strategy and Synergies Plan - Version 2

Summary

The communication and dissemination (C&D) strategy and synergies plan of the R3VOLUTION project includes the main target groups, key exploitable results, and key project messages. It also defines communication and dissemination activities, including key performance indicators to monitor the progress of the activities. The second part of the communication and dissemination (C&D) strategy and synergies plan identifies networks, stakeholders, and initiatives for communication and dissemination activities and provides a synergies plan.

This document is the second version of the Plan. It contains everything mentioned above and additional updates to the activities carried out and the materials available. It also updates the table for upcoming conferences and events and provides an executive summary of the first Network Patent Analysis.

The plan will be updated again in M24, M36 and M48. In later versions of this deliverable, the report will also contain a look into the future.

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List of Acronyms and Abbreviations

C&D	Communication and Dissemination
CE	Circular Economy
DPA	Digital Process Assistant / Digital Process Automation
EC	European Commission
ER	Expected Results
EU	European Union
FSC-certified	Forest Stewardship Council - certified
IPP	Intellectual Property Rights
KER	Key Exploitable Result
KM	Key Message
KPI	Key Performance Indicator
LCSA	Life Cycle Sustainable Assessment
M&A	Mergers & Acquisition
OA	Open Access
RDI	Research, development, and innovation
RTO	Research and Technology Organization
SDGs	Sustainable Development Goals
SoA	State of the Art
STEM	Science, Technology, Engineering, Mathematics
TG	Target Group
VE	Venture Capitalists
WP	Workpackage
WW	Wastewater

Executive summary

The communication and dissemination (C&D) strategy and synergies plan of the R3VOLUTION project includes the main target groups, key exploitable results, and key project messages. It also defines communication and dissemination activities, including key performance indicators to monitor the progress of the activities. The second part of the communication and dissemination (C&D) strategy and synergies plan identifies networks, stakeholders, and initiatives for communication and dissemination activities and provides a synergies plan.

This document is the second version of the Plan. It contains everything mentioned above and additional updates to the activities carried out and the materials available. It also updates the table for upcoming conferences and events and provides an executive summary of the first Network Patent Analysis.

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1 Introduction to the project context

The R3VOLUTION project (full name: A rEVOLUTIONary approach for maximising process water REuse and REsource REcovery through a smart, circular and integrated solution) will revolutionize industrial water management in the EU, providing key innovations that enable economic, environmental, and operational water reclamation by addressing solutes and energy recovery challenges. To pave the way towards sustainable and efficient water and resource consumption, R3VOLUTION develops and demonstrates a resource recovery solution that will enable more than 90% water reuse across most intensive water industries, applicable upstream and downstream, while recovering more than 45% effluents solutes, enable more than 50% waste heat reuse and eliminate 100% of hazardous substances.

R3VOLUTION investigates, develops, and demonstrates tailored membrane-based treatment trains coupled with waste heat, and a digital process assistant (DPA) to support the design phase to achieve optimal configuration for different industrial settings, minimising risks in implementation and providing critical support in the operation.

To demonstrate R3VOLUTION solution capabilities and the replicability potential across various process industries, the project includes four physical demo cases at pilot scale targeting several up- and down-streams in a variety of industries with high water discharges and complex effluents: petrochemical, bio-based chemical, pulp & paper, and steel, each led by renowned technological partners in the project.

Work Package (WP) 6 (Exploitation and Communication) aims to maximise the project's visibility and impact by reaching the key audience and target groups defined in the project, supporting the engagement of stakeholder groups, raising project awareness, and promoting the activities, tools, and outcomes. Furthermore, an IPP strategy, a business model, and an exploitation roadmap will be developed.

This Communication and Dissemination (C&D) Strategy and Synergies plan is designed to maximise the impact of the project by ensuring that the most relevant results, outcomes, and knowledge generated are effectively communicated and disseminated to the appropriate audiences right from the start of the project. There are clear key messages, a description, and a timeline for each activity, and the impacts will be monitored.

A quick note: This deliverable will not deal with exploitation issues. This document focuses on Communication and Dissemination activities. The R3VOLUTION IPP strategy, a business model, and an exploitation roadmap will be described in D6.6 (Innovation Management Plan) and D6.7 (Plan for Exploitation).

2 Target groups, key messages, key exploitable, and expected results

Within the R3VOLUTION project, key target groups, key messages, key exploitable results (KERs), expected results (ER), communication channels, and tools for effective communication, dissemination, and engagement efforts have been defined and will be described in this chapter.

2.1 Target groups

The key target groups for the R3VOLUTION project are defined in the following table.

Table 1: Target groups of the project

Target Group (TG)	Relevant stakeholders	Importance
1	Industry consumers – petro-chemical	To drive knowledge and demand for more affordable, safer, sustainable, and environmentally friendly water use in industry
2	Industry consumers – bio-based chemical	To drive knowledge and demand for more affordable, safer, sustainable, and environmentally friendly water use in industry
3	Industry consumers – pulp & paper	To drive knowledge and demand for more affordable, safer, sustainable, and environmentally friendly water use in industry
4	Industry consumers – steel	To drive knowledge and demand for more affordable, safer, sustainable, and environmentally friendly water use in industry
5	Water service providers – Drinking water and wastewater service providers	To provide tools enabling the education of relevant water users on the advantages of R3VOLUTION outputs that drive adoption
6	Special interest groups - Trade associations and environmental protection groups	To pressure the industry and regulators to create the right business conditions for R3VOLUTION's innovations to thrive
7	Other high water use sectors e.g., agriculture	To provide visibility for potential technology transfer

8	Existing synergistic projects and EC, national or regional initiatives, funding programmes, and platforms	Expected Outcomes potential is maximised by providing knowledge of technology potential in a wider approach-benefiting establishment of 'Hubs for Circularity'
9	Policy makers - Local, regional and pan- European legislators, regulators, politicians	To drive policies that push the industry to adopt R3VOLUTION's outputs while encouraging further innovation and market opportunity
10	Downstream supply chain for recovered material resources	To provide knowledge of new sources of various feedstocks within industries seeking specific materials
11	Financial actors - Private investors and public funding professionals	To stimulate financial opportunities around circular solutions - ultimately facilitating the exploitation of R3VOLUTION's innovations
12	Researchers (incl. in other Horizon projects incl. LIFE, SPIRE and TWIN TRAN calls, plus national, regional etc.). Post-doctoral researchers, research group leaders in Universities, RTOs, industrial R&D dept's., and students	To collaborate to accelerate innovations and develop equipment and processes beyond TRL6 after the project in order to achieve outcomes and impacts required. In particular, see synergies with Horizon 2020 topic projects CE-SPIRE-07-2020: Waste2Fresh, iWAYS, AquaSPICE, AccelWater, intelW
13	Consumers – General public	To drive knowledge and demand for more affordable, safer, sustainable and environmentally friendly water use in industry

1-4. Industry - petro-chemical, bio-based chemical, pulp & paper & steel

Europe's Process Industry is at the mercy of increasing water stress. The chemical, pulp & paper, and steel industries produce high-volume, high-complexity wastewater. Challenges of increased energy costs and limited availability of raw materials are threatening EU competitiveness. Current SoA membrane technologies suffer from technological weaknesses at the material and process level - limiting diffusion into many industries. In addition, no knowledge-based, comprehensive digital tools exist that enable users in the industries to make easily accessible decisions on using the best solution economically and technologically in each case. R3VOLUTION responds by providing a toolbox approach solution containing SoA membrane separation processes with wide-ranging materials, configuration, and functionalisation techniques. This is combined with the DPA technology that enables a trustworthy definition of the optimal configuration.

The industries are responsible for planning and aim at saving costs and shifting to more sustainable designs and management techniques while ensuring the reliability and consistency of the selected solutions. They need information on the practical application of research outcomes with a clear focus on the identification of the most appropriate solutions in terms of cost/benefit ratio to a given problem.

They are also responsible for the practical application of new technology solutions and are interested in technical details, focusing on the results of research.

Communication and dissemination aimed at these industries will be making use of specific channels and means to convey the project progress and outcomes:

- Dedicated features on the project website
- Publications in trade journals and magazines (see Table 8, page 31)
- Participation in trade fairs and exhibitions (see Table 5, page 19)
- Technical reports
- Factsheets about the main outcomes of the project
- Themed workshops, webinars, and symposia addressing Circular Economy (CE) and reuse, resource, and recovery topics and bringing together key industrial sectors relevant to CE-related value chains, their trade associations, public sector members, and water treatment associations.
- Participation in industrial conferences related to the use of water in industry and the regeneration and reuse of industrial water (see Table 5, page 19)
- Social media
- Collaboration with water associations at national and European level (see Synergies Plan, page 35ff)

5. Water service providers - drinking water and wastewater service providers

Like the industry, water and wastewater service providers are responsible for planning and aiming at saving costs and shifting to more sustainable designs and management techniques, while ensuring the reliability and consistency of the selected solutions. They need information on the practical application of research outcomes with a clear focus on the identification of the most appropriate solutions in terms of cost/benefit ratio to a given problem. They are also responsible for the practical application of new technology solutions and are interested in technical details, focusing on the results of research.

Communication and dissemination aimed at water managers will be making use of specific channels and means to convey the project progress and outcomes:

- Dedicated features on the project website
- Publications in trade journals and magazines (see Table 8, page 31)
- Participation in trade fairs and exhibitions (see Table 5, page 19)
- Technical reports
- Factsheets about the main outcomes of the project
- Themed workshops, webinars, and symposia addressing Circular Economy (CE) and reuse, resource, and recovery topics and bringing together key industrial sectors relevant for CE-related value chains, their trade associations, and public sector members.
- Participation in industrial conferences (see Table 5, page 19)
- Social Media

6. Special interest groups - specific end-user communities, trade associations, and environmental protection groups

Special interest groups related to Circular Economy, resource management, reuse, recovery, and smart solutions are key for the dissemination and replication of the methods and technologies implemented in R3VOLUTION. Stakeholders in the water sector include different groups, ranging from water organisations to environmental and consumer organisations. They have different needs and

expectations, which include widening the impact of new solutions developed in the EU. They need innovative solutions for the water (and other) sectors to be further replicated in other areas. They require deliverables or materials without scientific or technical content to improve awareness of challenges such as climate change, water scarcity, and the circular economy. This in return drives forward a better social acceptance of CE solutions. The first stage of reaching out to this type of stakeholder is identifying them at the European/International, national, and regional levels. Table 12 (page 39) contains an identification of relevant stakeholders.

Communication and dissemination aimed at networks and stakeholder groups will make use of specific channels and means to convey the project's progress:

- Sending out press releases at key stages of the project
- Dedicated features on the project website
- Targeted articles in trade journals and magazines (see Table 8, page 31)
- Participation in trade fairs, conferences, webinars, and exhibitions (see Table 5, page 19)
- Workshops
- Social Media

7. Other high water use sectors, e.g. agriculture

Agriculture is one of the most water-intensive sectors, consuming approximately 70% of global freshwater resources, primarily due to irrigation needs. This high demand is driven by the necessity to support crop growth in regions with insufficient rainfall, particularly during dry seasons. However, this has led to significant challenges, such as groundwater depletion and pollution, which threaten environmental sustainability and food security. Sustainable water management practices in agriculture therefore are crucial to balance the needs of food production with the preservation of water resources for future generations.

High water sectors have different needs and expectations, which include widening the impact of new solutions developed in the EU. They need innovative solutions for the water (and other) sectors to be further replicated. They too require deliverables or materials without scientific or technical content to improve awareness of challenges such as climate change, water scarcity, and the circular economy, driving a better social acceptance of CE solutions.

Communication and dissemination channels for this target group are:

- Website
- Social media
- Public project materials
- Videos
- Publications in trade journals and magazines (see Table 8, page 31)
- Participation in trade fairs, exhibitions, and events of the farmers' associations (see Table 5, page 19)
- Technical reports
- Factsheets about the main outcomes of the project
- Themed workshops, webinars, and symposia addressing Circular Economy (CE) and reuse, resource, and recovery topics and bringing together key industrial sectors relevant for CE-related value chains, their trade associations, and public sector members.

8. Existing synergistic projects and EC, national or regional initiatives, funding programmes and platforms, international organisations

Associations related to Circular Economy, resource management, reuse, recovery, and smart solutions, are key for the dissemination and replication of the methods and technologies implemented in R3VOLUTION. Stakeholders in the water sector include different groups, ranging from water organisations to environmental and consumer organisations. They have different needs and expectations, which include widening the impact of new solutions developed in the EU. They need innovative solutions for the water (and other) sectors to be further replicated in other areas. They require innovation that will raise awareness of challenges such as climate change, water scarcity, and the circular economy, driving a better social acceptance of CE solutions.

The first stage of reaching out to this type of stakeholder is identifying them at the European/International, national, and regional levels. Table 12 (page 39) contains an identification of stakeholders.

Communication and dissemination aimed at networks and stakeholder groups will make use of specific channels and means to convey the project's progress:

- Sending out press releases at key stages of the project
- Dedicated features on the project website
- Targeted articles in trade journals and magazines (see Table 8, page 31)
- Participation in trade fairs, conferences, webinars, and exhibitions (see Table 5, page 19)
- Workshops

9. Policy makers - international, national, regional, local, and European legislators, regulators, politicians/authorities

R3VOLUTION seeks to transform innovation results into evidence-based practical policy recommendations and communicate them to policy and decision-makers. This will be accomplished at different scales (local, regional, national, European, and global) and focus on executive material and short content with clear and proven conclusions to improve water management, while fulfilling societal goals, always in line with the Sustainable Development Goals (SDGs).

To effectively communicate with this target group, it is first necessary to identify the key policy actors at EU level and in partner countries, such as government agencies, parliamentary commissions, and national and regional government agencies.

Table 2: Key Policy Actors

EU/ international	<ul style="list-style-type: none"> • DG Research • DG Environment • DG Climate Action • DG Regional and Urban Policy • DG AGRI - Agriculture and Rural Development • European Environmental Agency
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	<ul style="list-style-type: none"> • European Parliament (Standing Committee on Environment, Public Health and Food Safety, Standing Committee on Industry, Research and Energy)
Germany	<ul style="list-style-type: none"> • Umweltbundesamt • Niedersächsisches Landesamt für Verbraucherschutz und Lebensmittelsicherheit (LAVES) • Bund/Länder Arbeitsgemeinschaft Wasser (LAWA)
Spain	<ul style="list-style-type: none"> • Ministry for the Ecological Transition and the Demographic Challenge (MITECO) • Agencia Catalana de l'Aigua • Consejería de Sostenibilidad Medio Ambiente y Economía Azul – Regional Government of Andalusia • Conselleria de Agricultura, Desarrollo Rural, Emergencia Climática y Transición Ecológica - Generalitat Valenciana / Regional Ministry of Development • Sustainable Development of the Government of Castilla-La Mancha • City Council of Alicante / City Council of Puertollano (Ciudad Real) • EPSAR (public institution owning the waste water treatment facilities at Rincón de León) • River Basin (river basin management) • Guadalquivir Hydrographic Confederation
Norway	<ul style="list-style-type: none"> • Innovasjon Norge • Norges vassdrags- og energidirektorat (NVE) • The Research Council of Norway • EU Mission cities (in Norway): <ul style="list-style-type: none"> - Stavanger Kommune - Trondheim Kommune - Oslo Kommune
Belgium	<ul style="list-style-type: none"> • Flemish Land Agency VLM • Flemish Environmental Agency VMM • Department of Agriculture and Fisheries • Coördinatiecommissie Integraal Waterbeleid CIW (water Policy Coordination Commission) • Environment and Nature Council Flanders (Minaraad) • Flemish Waste Agency OVAM • Waterboards • Province West Vlaanderen, • Province Antwerpen, • Zijdijzerpolder • De Vlaamse waterweg (for navigable rivers) • Aquaflanders • SPW Secrétariat général • SPW Agriculture, Ressources naturelles et Environnement • SPW Territoire, Logement, Patrimoine, Énergie • Société wallonne des eaux • PSW • Waloon government

Switzerland	<ul style="list-style-type: none"> • Federal Department of the Environment, Transport, Energy and Communications (DETEC) • FOEN Federal Office for the Environment (BAFU)
Finland	<ul style="list-style-type: none"> • Ministry of Economic Affairs • Ministry of Agriculture and Forestry of Finland • Ministry of Education and Culture • Finnish Institute for Health and Welfare • Finnish Environment Institute • Natural Resources Institute Finland • Research Council of Finland • Business Finland
UK	<ul style="list-style-type: none"> • Environment Agency • OFWAT • UKWIR • Department for Environment Food and Rural Affairs • Committee on Climate Change • UKRI • Department for Energy Security and Net Zero • Members of Parliament (MPs) and Members of the House of Lords • Government ministers and their respective departments (e.g., Department for Environment, Food and Rural Affairs - DEFRA) • Regulatory bodies such as the Environment Agency • Devolved government representatives in Scotland, Wales, and Northern Ireland • Regional councils and authorities
Greece	<ul style="list-style-type: none"> • Ministry of the Environment and Energy • EYATH • EYDAP

Communication and dissemination aimed at policy-makers and regulators will make use of specific channels and means to convey the project's progress and evidence-based policy recommendations:

- Dedicated features on the project website
- Policy-oriented articles in trade journals and magazines (see Table 8, page 31)
- Participation in events organised by policy actors and regulators (see Table 5, page 19)
- Invitations for events organised under the umbrella of the project and sister projects (see Synergies Plan, page 35ff)
- At least 2 White Papers on main outcomes of R3VOLUTION
- Dissemination articles, based on research results, written in clear and jargon-free language, aimed at policy-makers and other non-specialists. Preferred outlets for these dissemination articles on an EU level will be the [CORDIS Newsletter](#) and [Horizon Magazine](#).

10. Downstream supply chain for recovered material resources

The downstream supply chain for recovered material resources is a critical component of the circular economy, focusing on the efficient refurbishment and recycling of materials. As demand for rare earth elements grows, driven by the green technology sector, the importance of sustainable recycling practices becomes paramount. Companies are increasingly collaborating with downstream partners to ensure compliance with regulations and to achieve sustainability goals. This approach not only

supports environmental objectives but also addresses the supply-demand imbalance that could threaten the global carbon emissions targets for 2050.

Communication and dissemination channels for this target group are:

- Website
- Social Media
- Public material
- Videos
- Publications in trade journals and magazines (see Table 8, page 31)
- Participation in trade fairs, conferences, and exhibitions (see Table 5, page 19)
- Technical reports
- Factsheets about the main outcomes of the project
- Themed workshops, webinars, and symposia addressing Circular Economy (CE) and reuse, resource, and recovery topics and bringing together key industrial sectors relevant to CE-related value chains, their trade associations, and public sector members.

11. Financial actors - private investors, business partners, and public funding professionals

In the dynamic world of finance, private investors, business partners, and public funding professionals play crucial roles. Private investors bring capital and a willingness to take risks, driving innovation and growth. Business partners contribute with strategic alliances and expertise, facilitating market expansion and operational efficiency. Meanwhile, public funding professionals are key in securing governmental support and subsidies, ensuring projects that may not be immediately profitable but have long-term societal benefits get off the ground. Together, these actors create a robust financial ecosystem that supports a wide range of projects from infrastructure to technology startups.

Communication and dissemination channels for this target group are:

- Website
- Social Media
- Public material
- Videos
- Publications in trade journals and magazines (see Table 8, page 31)
- Participation in trade fairs and exhibitions (sessions aimed at social impact investors, see Table 5, page 19)
- Factsheets about the main outcomes of the project
- Events dedicated to investors with startup pitches
- Private working visits of potential investment partners

12. Research community - innovators, other Horizon projects incl. LIFE, SPIRE and TWIN TRAN calls, plus national, regional, etc., post-doctoral researchers, research group leaders in universities, research and technology organizations (RTO's), students, and industrial research & development departments

Since the research community is particularly interested in the quality, validity, relevance, and novelty of research results, most efforts will be focused on dissemination. However, it is relevant to discuss and fine-tune also methods and preliminary findings. For that, R3VOLUTION will organize seminars

and workshops to share public research findings and breakthroughs with the relevant communities of researchers, higher education students (through academic partners), and other educators. Working papers, Open Access publications, and conference presentations also represent an opportunity to promote discussion. Communication and dissemination channels for the research community are:

- Website
- Social Media
- Factsheets, brochures, and other public materials
- Conference presentations (see Table 5, page 19)
- Articles in peer-reviewed journals (Open Access, see Table 7, page 25)
- The organisation of events aimed at academic audiences (lectures, seminars, workshops)

Research partners will communicate and disseminate project methods and results in their academic teaching to the engineers and scientists of the future, through lectures/seminars for under- and postgraduates whenever possible.

13. Consumers – General public & Civil Society

Civil society and the general public (here considered as consumers) that are potentially interested in the project and its outcomes are another target group for communication and dissemination. We aim to increase their level of knowledge around CE, reuse, resource, and recovery-related services, as well as support citizen awareness and participation to reach acceptance and societal relevance of R3VOLUTION solutions.

Communications channels for this target group are:

- Website
- Social Media
- Public materials (brochures)
- Explanatory videos
- Press releases / Media campaigns

The WP6 leader will regularly provide the project partners with information packages and press releases so that they can function as local dissemination hubs by sending the material to their dissemination networks and publishing them on their websites and channels.

2.2 Key Exploitable Results (KERs) and Expected Results (ER) for dissemination

Europe's Process industry is facing increased water stress. The bio-/petro-chemical, paper & pulp, and steel industries produce high volumes of high-complexity wastewater. Challenges of increased energy costs and limited availability of raw materials are threatening EU competitiveness in addition. Current SoA membrane technologies suffer from technological weaknesses at the material and process level - limiting diffusion into many industries. In addition, no knowledge-based, comprehensive digital tools exist that enable users in the industries to make easily accessible decisions on the use of the best solution economically and technologically in each case. R3VOLUTION responds by providing a solutions toolbox approach containing SoA membrane separation processes with wide-ranging materials, configuration, and functionalisation techniques. This is combined with the DPA technology that enables a trustworthy definition of the optimal configuration.

Table 3: Key Exploitable and Expected Results

Key Exploitable Results (KER)	WASTEWATER PRE-TREATMENT AND FILTRATION	Responsible partner	Related Deliverables and release dates
KER 1	TRL6 Membrane Distillation membrane with high resistance to solvent wettability	VITO	D2.2, M30
KER 2	TRL6 new process for separating and/or recycling organics in high viscous streams	VITO	D4.3, M46
KER 3	TRL6 biodegradable/recyclable bio-(nano) cellulose-based membranes with flat structures and tuneable properties (flux, pore size, rejection, and mechanical properties) tailored for required filtration regimes (from microfiltration to nanofiltration)	VTT	D2.3, M42
KER 4	TRL6 High-performance hydrophobic ceramic-based membrane distillation systems	FRAUNHOF ER	D2.4, M24
KER 5	TRL6 an adaptable and scalable method to achieve >90% water circularity; >45% effluent solutes recovery; and >55% heat reuse across several industries	CET	D1.3, M36
KER 6	Case Study evidence proving economic feasibility and viability of a scalable wastewater treatment solution in which the proven reliable applicability of ceramic components as well as peripheral systems in a practical environment with simultaneous very good performance and economic efficiency parameters that	FRAUNHOF ER	D4.4, M42

	responds to demands of paper, chemical and steel production		
	RESOURCE RECOVERY AND REUSE STRATEGY		
KER 7	Developed and validated trains for water reuse and energy & solutes recovery that are applicable for all medium to large EU and global process industry sites	CET, UPC, FRAUNHOFER, VITO	D4.2, M42 D4.3 M42 D4.5 M42
KER 8	TRL6 Membrane Distillation system with heat recovery at FELIX, driven by >55% recovered waste heat	SINTEF, FRAUNHOFER	D4.4, M42
KER 9	Proven sustainability and circularity performance of the R3VOLUTION technologies under varying scenarios including prioritization of water reuse options according to the corresponding risks	IDE	D5.3, M46
KER 10	R3VOLUTION outputs will make recommendations on standards for industrial water management that will influence the EU's development of regulations surrounding process industry wastewater	CET	D6.7, M46
	DIGITAL TOOLS		
KER 11	TRL6 digital twin recommendation system to extend the concept of the DPA to include further industrial cases using inputs from the data-driven models, XAI's and calibrated process models	CERTH	D3.4 DPA tool, M22
KER 12	TRL6 Machine Learning Models that predict membrane lifespan and cleaning schedules required to extend membrane lifetime and reduce operational downtime	CET	D3.3, M22
KER 13	Varying data driven methodologies related to XAI's and the DPA platform capable of visualising performance data and provide outcomes descriptions that de-risks decisions	CERTH	D3.4, M22
KER 14	An increase of the internal knowledge related to process modelling and a combination of the mechanistic and ML models, which will allow future consultancy services and/or research projects.	IDE, CET, CERTH	D3.2, M20 (IDE) D3.3, M22 (CET) D3.4, M22 (CERTH)

KER15	Sensing tech for advanced process monitoring using sensors and computer vision	CET, REP	D3.3, M22
ADDITIONAL EXPECTED RESULTS (ERs)			
ER 1	Chemical modification of cellulose targeted at capturing and retention of specific materials from WW	VTT	D2.3, M24
ER 2	Design and manufacturing of a series of test membranes with modified surfaces and performance results evaluation against model and real streams for integration with other unitary operations	Task Leader: FRAUNHOF ER Participants: VITO, CET, SIWS, VTT, UPC, SINTEF	D2.4, M24
ER 3	Knowledge of system design, process configurations, their performances and related simulations	CET	D1.3, M36
ER 4	Data-driven digital twin models that analyse relationships between parameters involved in WW treatment	SINTEF	M28
ER 5	Conceptual energy analysis, evaluation of heat recovery potential and suggested heat integration solutions		D1.2
ER 6	Four demonstration pilot systems in the industries of petro-chemical, bio-based chemical, paper, and steel, that demonstrate R3VOLUTION effectiveness for upstream/downstream water circularity, and solutes/energy recovery	CET (D4.2) VITO (D4.3) FRAUNHOF ER (D4.4) UPC (D4.5)	D4.2, D4.3, D4.4, D4.5 Milestone 5: All physical pilots ready to start operation
ER 7	Case study sites improvements impacts: >90% water savings, chemical use reduction, energy saving emissions reduction, recovery of valuable materials present in wastewater, use of smart monitoring technology, and definition of impacts of seasonal changes to R3VOLUTION	CET (D4.2) VITO (D4.3) FRAUNHOF ER (D4.4) UPC (D4.5)	D4.2, D4.3, D4.4, D4.5 Milestone 6: Performance verification for all physical case Studies
ER 8	A transferability assessment that evaluates the applicability of implementation the tools developed during R3VOLUTION in a mining setting in Chile as well as at three additional streams of the demo sites	IDE	D5.2, M48
ER 9	Open-access published results of model streams/non-confidential industrial streams-maximising conversion	All partners	D6.1, M48

ER 10	Practical experience knowledge, a broader data basis for further material technology developments and system integration, knowledge about interaction between own and partners technologies	CET, SIWS	D6.6, M46 D6.7, M46
ER 11	Evaluation of appropriate measures and policies to decrease the risk level of selected water reuse option(s)	CET, UPC, FRAUNHOF ER, VITO	D4.2, M42 D4.3 M42 D4.5 M42
ER 12	A database of the minimum requirements for the R3VOLUTION technologies to be economically feasible considering performance data, projected yields and prices	ICL	M46
ER 13	Digital process Assistant (DPA) tool that illustrates process optimisation options	CERTH	M22
ER 14	Sustainability assessment (LCA) and technoeconomic / circular business model	ICL	M46
ER 15	Dissemination of non-confidential outcomes at conferences, open access scientific publications, etc.	IWW-FO	M48
ER 16	Commercial roadmap for technology exploitation	ICO/IWW-FO	M48
ER 17	Partner commercial/scientific collaboration agreements for continued collaboration beyond the project	CET	M48

2.3 Key Messages (KM) of the project

For each target group, key messages and information about Key Exploitable results to be communicated and disseminated have been formulated.

Table 4: Key Messages of the project

KM	Key Message	Purpose	Target Group	Info to be disseminated
1	R3VOLUTION's toolbox of processing and digital technological solutions that are applicable across the industrial sectors of paper & pulp, steel and chemicals.	Raise awareness and generate demand for the solution. Encourage further development and adoption	TG1-6, TG12-13	KERs 7, 8, 9 ERs 6, 7, 8

2	R3VOLUTION will develop DPA as a smart tool that enables for decision support, risk management & process optimisation.	Raise awareness and generate demand for the solution. Encourage further development and adoption	TG1-6, TG12	KERs 11, 13 ERs 3, 4
3	R3VOLUTION will achieve >90% water reuse, recovers targeted effluent solutes, recovers energy and eliminates 100% of hazardous substances.	Raise awareness and generate demand. Encourage tech adoption	TG1-13	KERs 6, 8, 9 ER 8, 9
4	In leveraging Horizon Europe funding, R3VOLUTION provides a gamechanging solution that provides a solution for industry and responds to global water shortage demands.	Educate about the EU/global benefits and lessons derived from the project	TG5-8, TG13	KER 10 ERs 9, 15
5	How the DPA uses AI effectively to interrogate data and explain how to effectively manipulate the system to gain efficiency enhancements.	Raise awareness and generate demand for the solution - drive adoption	TG1-7, TG12	KERs 11, 12, 13, 14, 15 ERs 9, 10, 11, 12, 13, 14, 15
6	Best practices and recommendations for standardisation.	Raise awareness; ensure adoption of best practices	TG5-9 TG12	KER 10 ER 15
7	R3VOLUTION performance advantages and impacts to society in region, country, Europe and globally.	Ensuring/maintaining social licence to operate	TG5-7, 9, 13	KERs 6, 8, 9 ER 8, 9

3 Communication – promote project and results

Communication activities are designed to reach multiple audiences, also beyond the project's community. The purpose is to inform and reach out to society to show the benefits of research (e.g. social media channels, conference presentations, videos, interviews, materials, project website, etc.).

This is done by:

- Having a well-designed strategy
- Conveying clear messages
- Using the right media channels
- Using easy language

If successful, communication activities can help to engage with stakeholders, attract the best experts to your team, generate market demand, raise awareness on important public topics (such as water-related issues), and show the success of European collaboration.

Communication Channels for the promotion of the project and results are:

- General website
- Social Media channels
- Videos
- Publications in trade journals (see Table 8, page 31)
- Presse releases (incl. infographics) for TV channels, radio stations, newspapers
- Industry/Academic events (see Table 5, page 19)

3.1 Corporate Design – Logos, Infographics, Templates

A main tool for communication is the Corporate Design. To maintain a cohesive image and make the project and its outputs readily identifiable, a project logo and a corporate design have been created.



Figure 1: The R3VOLUTION Logo

This logo is displayed in all project materials, such as the website, social media profiles, brochures, conference presentations, publications, videos, etc.

In addition, a number of templates using our corporate design have been created and are available at the Google Drive repository of the project (deliverable/milestone, signature list, poster, agenda & minutes, empty Word template, and PowerPoint presentation). Additional templates and infographics for internal and external project communication and dissemination are going to be created for project identity and market recognition.

3.2 Project website

The public project website (R3VOLUTION.eu) is the main outlet and information source for the project. It presents the project, objectives, partners, outcomes, and case studies and is continuously updated with project updates, such as the most relevant results for a broader audience (top deliverables), reports about key events, interviews with project members, or testimonials from case owners on success stories from R3VOLUTION.

3.3 Social media

Awareness for the project is raised by using social media channels. Events, publications, and project updates (blog entries) are routinely shared. A social media guideline for the project partners on how to effectively use and support the project's channels has been produced and is available at Google Drive.

LinkedIn channel: <https://www.linkedin.com/in/R3VOLUTION-project-3788b9307>
X (formerly Twitter) channel: @R3VOLUTION_EU

3.4 Videos

Videos showcasing the project will be produced. A general project video will be released to give an overview of the R3VOLUTION project, its purpose, and its intended outcomes. At least two more videos will be released promoting R3VOLUTION's key milestones and case studies. The videos will be available on the project's YouTube channel and shown at conferences, during presentations, etc.

3.5 Publications

At least 10 publications in trade journals related to target markets (water, paper & pulp, bio-/petrochemical, and steel) will be released throughout the project.

3.6 Press releases

At least 6 press releases will be released throughout the project. The partners will function as communication and dissemination hubs and use their networks and media contacts to promote the project wherever possible. Press releases will be timed to promote open access/commercial publications or major outcomes of the project. A first press release about the project start has been released, shared, and published directly after the kick-off meeting of the project.

3.7 Industry/academic events, conferences, workshops, or exhibitions

The project partners will present the project at a minimum of 9 industrial/academic events and representatives of R3VOLUTION will attend at least 20 conferences to identify opportunities by

participating in field-related events targeting industries while increasing awareness and encouraging uptake of R3VOLUTION results at the same time. According to the documentation of the communication and dissemination activities of the project, R3VOLUTION partners have actively participated in 3 conferences/events already.

The table with upcoming events where the project could be communicated or disseminated will be updated regularly.

Table 5: Upcoming events

Name of event	When	Where	Website
World Water Tech Summit	25.- 26.2.2025	London, UK	https://worldwatertechinnovation.com/
IWA Water Reclamation & Reuse	16.-20.3. 2025	Cape Town, South Africa	https://iwareuse2025.com/
IMPS	Annual event, 25.-27.3.25	München, Germany	https://paper-online.de/de/imps-2024
BIOKET	11.-13.3. 2025	Brussels, Belgium	https://bioket.tech/
Essener Tagung	Annual event, 26.- 28.3.2025	Aachen, Germany	https://www.essenertagung.de/
Jahrestagung der Wasserchemischen Gesellschaft 2025	Annual event, 26.- 28.5.2025	Münster, Germany	https://www.wasserchemische-gesellschaft.de/de/veranstaltungen/jahrestagungen/muenster2025
BDEW Kongress	4.-5. June 2025	Berlin, Germany	https://www.kongress.de/veranstaltung/bdew_kongress-64661552
International Conference on Nanotechnology for Renewable Materials (Nano)	8.-11.6.2025	Girona (Spain)	https://www.tappinano.org/
Euromembrane 14th World Filtration Congress	Annual event, 30.6.- 4.7.2025	Bordeaux, France	https://www.emsoc.eu/eventer/14th-world-filtration-congress-june-30-july-4-bordeaux-france/

4th International Workshop on Membrane Distillation and Innovative Membrane Operations in Desalination and Water Reuse	4.-6.6.2025	Cetrao, Italy	https://www.emsoc.eu/eventer/4th-international-workshop-on-membrane-distillation-and-innovative-membrane-operations-in-desalination-and-water-reuse-md-cetraro-2025-cetrao-italy/
22nd Health Related Water Microbiology Conference 2025	15.-29.6.2025	Amersfoort, Netherlands	https://www.iwconferences.com/events/22nd-health-related-water-microbiology-conference-2025/
Zellcheming Expo	1.-3.7.2025	Wiesbaden, Germany	https://www.zellcheming.de/en/events/zellcheming-expo
9th EPNOE International Polysaccharides Conference	25.8.-29.8.2025	Sundsvall (Sweden)	https://www.epnoe.eu/
DVGW Kongress	Annual event, 24.-25. September 2025	Bonn, Germany	https://www.dvgw-kongress.de/2025
Aquarama Trade Fair	Annual event, 23.10.2025	Leuven, Belgium	https://www.aquarama.be/en/tradefair/edition/2025/home
Plant-Based Summit	October 2025	Lille, France	https://www.plantbasedsummit.com
IWA World Water Congress & Exhibition, 2025	Annual event, 1.-5.12.2025	Marrakech, Morocco	https://www.worldwatercongress.com/
Computing & Control Water Industry Conference	Annual event	Not yet announced for 2025	https://wdsa-ccwi2024.it/
DWA Dialog	Annual event, not yet announced for 2025	Berlin, Germany	https://de.dwa.de/de/dwa-dialog-berlin.html
z.wan (Messe für Wasserwirtschaft)	2025, not announced yet	Essen, Germany	https://kdw-nrw.de/unser-angebot/zwan/
Water Innovation Europe	Annual event, dates for 2025 not yet defined	Brussels, Belgium	https://watereurope.eu/event/water-innovation-europe-2024/

Water Market Europe	Annual event, dates for 2025 not yet defined	Brussels, Belgium	https://watereurope.eu/event/water-market-europe-2024/
Aachen Membrane Colloquium	Each 2 years Again in 2026	Aachen, Germany	https://www.emsoc.eu/eventer/membrane-colloquium-amk-december-3-5-2024-aachen-germany/
IFAT (World's Leading Trade Fair for Water, Sewage, Waste and Raw Materials Management)	Every two years, 4.5.-8.5.2026	Munich, Germany	https://ifat.de/de/messe/?gad_source=1&gclid=CjwKCAjw88yxBhBWEiwA7cm6pSRB0O_oooRxIAuXBjyYGg4Zx2ipD-FW7lutOLcfU9YS64GFTZynKxoCo4AQAvD_BwE
Achema	All three years, June 2027	Frankfurt, Germany	https://www.achema.de/en/
IEA (International Energy Agency) Events	Regular events (also webinars)	Different places	https://www.iea.org/events
ESPP events (EU Sustainable Phosphorus Platform)	Regular events (also webinars)	Different places	Annual event, dates for 2025 not yet defined
H4C (Hubs 4 Circularity) workshops & events	Regular events (also webinars)	Different places	https://www.h4c-community.eu/
SPIRE workshops & events of sister projects	Regular events (also webinars)	Different places	https://ima-europe.eu/projects/spire/

3.8 Project brochures

Five project brochures will be produced. One for each case study and one that gives an overview of the project, containing basic information about the project and its main features, timeline, and expected outcomes. It will be distributed at water sector events where R3VOLUTION partners are involved, as well as in scientific and dissemination events to reach out to stakeholders.

3.9 Key Performance Indicators for Communication Activities

To monitor the fulfilment of this plan, a set of Key Performance Indicators (KPI's) and their respective target values for communication activities have been devised (Table 6). This table will be continuously updated throughout the project, in subsequent versions of this plan. Target values will be monitored. If they are not achieved, reasons will be analysed and corrective measures developed.

For that purpose, and also to monitor the communication and dissemination activities of the project partners, a shared spreadsheet has been created, in which all partners must register the communication and dissemination activities they carry out.

Table 6: KPIs for communication activities

Communication Activity	Measurable results	KPIs	Target Audience	Key message	KPIs reached in M12
Logo, visuals, infographic	At least 4 infographics were created and updated throughout the project for project identity and market recognition	4 infographics	All	All	Logo available, infographics not available yet
R3VOLUTION website	300 hits from at least 10 countries in the first year, bounce rate 50%, at least 500 project lifetime views	Created at M6 and updated regularly, blog posts will be recirculated via social media channels to generate website traffic. The website will be kept for at least 4 years after the project.	TG 1-8, TG12-13	KM 1-3	Available, regular updates, over 300 hits from 10 different countries in the first year
R3VOLUTION social media	At least 250 posts during the project with at least 600 followers across all channels by M36	Accounts will be set up by M3 (LinkedIn, X, YouTube). They will be used regularly to promote the project and drive interaction with other projects.	TG 1-7, TG 10	KM 1-3, KM 7	10 posts, 102 followers/connections
Videos	3 videos produced at M6, M20 & M34	Digital video interviews and infographics will be developed to promote R3VOLUTION key milestones. They will be shared through all channels and shown at conferences, etc.	TG 1-7, TG 10	KM 1-3	None yet
Publications	At least 10 publications	Publications in trade journals related to target markets, water, paper & pulp, bio-/petro-chemical, and steel	TG 1-7, TG 10	KM 1-5	None yet
Press releases	At least 6 press releases throughout the project and reshared by everything and everyone	Partners will use existing media channels to share press releases about key milestones to reach a wider audience. These will	TG 1-7, TG 10	KM 1-5, KM 7	1 press release available

		be timed to promote open access/commercial publications.			
Participation in industry/academic events	Partners present the project at a minimum of 9 events. Representatives of R3VOLUTION attend at least 20 conferences.	Participation in industry/academic events	TG 1-12	KM 1-3, KM6	Participation in 3 events
Project brochures	5 brochures created	One overview brochure and one for each case study	TG 1-13	KM 1-6	None yet

After the end of the project, communication activities will be continued by evaluating the possibility of presenting the results at specialised congresses. The project website will be kept during the following four years, together with all communication materials (video, infographics, and brochures, etc) and public outcomes of the project.

4 Dissemination – make results public

Dissemination activities are designed for audiences that may want to use the results in their work, free of charge. Potential users are peers, the industry, professional organisations, policy makers, the scientific community, commercial players, etc. The purpose is to enable the use and the uptake of results (e.g. scientific publications, policy briefs, roadmaps, training activities, demonstration activities, etc.) and sharing results in an online repository.

This is done by:

- Publishing your results in scientific magazines
- Presenting results at scientific and/or targeted conferences
- Using databases
- The use of scientific language

If successful, dissemination activities can help to maximise the impact of results, allow other researchers to go a step forward, contribute to the advancement of the state of the art, and make scientific results a common good. It also can lead to new legislation or recommendations. It is for the benefit of innovation, the economy, and the society, and helps tackle a problem while responding to an existing demand.

Dissemination Channels for the promotion of the project and results are:

- Open Access publications in peer-reviewed journals (see Table 7, page 25)
- Publications in trade journals (see Table 8, page 31)
- White papers on main outcomes
- Scientific workshops/conferences (see Table 5, page 19)
- Posts on the project and other websites
- Clustering/networking activities (see Synergies Plan, page 35ff)
- Tour of demonstration sites
- Online repository for results (e.g. website or Zenodo)

Since the nature of most R3VOLUTION deliverables is sensitive, a factsheet will be produced with key information and a contact person for each key deliverable/result. That way, sensitive information won't be disclosed while dissemination of the main outcomes of the project is still possible.

4.1 Open Access publications in peer-reviewed journals

The R3VOLUTION partners are committed to early and open sharing of research results and providing open access to scientific publications (green or gold), wherever confidentiality is not an issue.

ALL peer-reviewed publications coming from the project **MUST** be Open Access.

Green open-access publishing (also referred to as self-archiving) means that a published article or the final peer-reviewed manuscript is archived (deposited) in an online repository before, alongside, or after its publication. Repository software usually allows authors to delay access to the article ('embargo period') If this route is chosen beneficiaries must ensure open access to the publication within a maximum of six months.

Gold open access publishing (also referred to open access publishing) means that an article is immediately provided in open access mode (on the publisher/journal website). Publishers sometimes charge Article Processing Charges (or APCs) to make articles open. Such costs are eligible for reimbursement during the duration of the project as part of the overall project budget. In the case of gold open access publishing, open access must be granted *at the latest on the date of publication* and you also have to deposit a copy in a repository (Zenodo or project website).

At the time of publication, a machine-readable electronic copy manuscript will be deposited in a general-purpose open-access repository, such as e.g. Zenodo. This approach will ensure immediate open access to all peer-reviewed scientific publications generated. Immediate Open access to deposited information will be under the latest available version of the Creative Commons Attribution International Public Licence (CC BY).

R3VOLUTION also intends to make use of the open-access publication outlet of the European Commission: Open Research Europe. This is an open-access publishing platform for the publication of research stemming from Horizon 2020 funding across all subject areas.

An Open Access publication guide for the project partners was created and is available in the project repository (Google Drive). Following is a table with suggestions for possible Open Access Journals.

Table 7: List of possible Open Access Journals

Journal	Website	Journal subjects	H-Index (Impact)
Frontiers in Water	https://www.frontiersin.org/journals/water	Technology: Environmental technology. Sanitary engineering	21
Hydrology	https://www.mdpi.com/journal/hydrology	Science	34
Applied Water Science	https://link.springer.com/journal/13201	Technology: Environmental technology. Sanitary engineering: Water supply for domestic and industrial purposes	85
Water	https://www.mdpi.com/journal/water	Technology: Hydraulic engineering, Technology: Environmental technology. Sanitary engineering: Water supply for domestic and industrial purposes	102
Drinking water engineering and science	https://dwes.copernicus.org/articles/volumes.html	Technology: Environmental technology. Sanitary engineering	25
Hydrology and Earth System Sciences	https://www.hydrology-and-earth-system-sciences.net/	Technology: Environmental technology. Sanitary engineering, Geography. Anthropology. Recreation: Environmental sciences	170

Environmental Challenges	https://www.sciencedirect.com/journal/environmental-challenges	Geography. Anthropology. Recreation: Environmental sciences	32
Water Science	https://www.tandfonline.com/journals/twas20	Hydraulic engineering, Environmental technology. Sanitary engineering	25
Resources	https://www.mdpi.com/journal/resources	Science	54
Critical Reviews in Environmental Science and Technology	https://www.tandfonline.com/journals/best20	Range of topics in environmental science, including earth and agricultural sciences, environmental toxicology, and risk assessment	144
Drinking Water Engineering and Science	https://dwes.copernicus.org/articles/volumes.html	Technology: Environmental technology. Sanitary engineering	25
Applied Energy	https://www.sciencedirect.com/journal/applied-energy	Innovation, research, development and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, analysis and optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems	292
Climate and Development	https://www.tandfonline.com/journals/tclid20	Publishes research on the interfaces between climate, development, policy and practice to make analysis of climate and development issues more accessible.	54
Environmental Technology	https://www.tandfonline.com/journals/tent20	Research on environmental engineering, biotechnology, the circular economy, wastewater, solid waste management, drinking water treatment and industrial hygiene.	89
Environmental Engineering and Management Journal	https://www.eemj.eu/index.php/EE MJ	Wide range of topics concerning environmental engineering and management in the broad sense, while particularly emphasizing interdisciplinary studies	46

Environmental Modelling and Software	https://www.sciencedirect.com/journal/environmental-modelling-and-software	Environmental modelling and software	167
Environmental Policy & Governance	https://onlinelibrary.wiley.com/journal/17569338	Publishing interdisciplinary environmental research to support novel solutions in environmental governance and policy issues	58
Environmental Science: Processes & Impacts	https://pubs.rsc.org/en/journals/journalissues/em#!recentarticles&adv	A multidisciplinary journal for the environmental chemical sciences	122
Environmental Science & Policy	https://www.sciencedirect.com/journal/environmental-science-and-policy	Environmental Science & Policy advances research in the intersections between environmental science, policy and society	150
Global Environmental Change	https://www.sciencedirect.com/journal/global-environmental-change	Publishing high-quality theoretically and empirically rigorous articles, which advance knowledge about the human and policy dimensions of global environmental change	225
International Journal of Engineering and Innovative Technology	https://ojs.imeti.org/index.php/IJETI/about	Engineering and technology innovation	47
International Journal of Water Resources Development	https://www.tandfonline.com/journals/cijw20	Publishing the latest developments in planning, policy-making and management from all over the world	67
Journal of Environmental Management	https://www.sciencedirect.com/journal/journal-of-environmental-management	Research related to managing environmental systems and improving environmental quality	243
Journal of Hydrology	https://www.sciencedirect.com/journal/journal-of-hydrology	Subfields of the hydrological sciences, including water-based management and policy issues that impact economics and society	274

Local Environment	https://www.tandfonline.com/journals/cloe20	Sustainability planning, policy and politics in relation to theoretical, conceptual and empirical studies at the nexus of equity, justice and the local environment	79
Separation & Purification Technology	https://www.sciencedirect.com/journal/separation-and-purification-technology	Dissemination of novel methods for separation and purification in chemical and environmental engineering for homogeneous solutions and heterogeneous mixtures	202
Urban Water Journal	https://www.tandfonline.com/journals/nurw20	Water systems in the urban environment, directly contributing to the furtherance of sustainable development	57
Water Resources Management	https://link.springer.com/journal/11269	Management of water resources	127
IWA Water resources and industry	https://www.sciencedirect.com/journal/water-resources-and-industry	Social Sciences: Industries. Land use. Labor: Management. Industrial management	47
IWA Water Research X	https://www.sciencedirect.com/journal/water-research-x	Technology: Environmental technology. Sanitary engineering	376
IWA Water Science and Technology	https://iwaponline.com/wst	Technology: Environmental technology. Sanitary engineering	157
IWA Water Reuse	https://iwaponline.com/jwrd	Water Reuse focuses on all aspects of the treatment and use of non-conventional water resources.	30
IWA Hydrology Research	https://iwaponline.com/hr	Surface and groundwater hydrology	57
IWA Water Supply	https://iwaponline.com/ws	Water Quality, Modelling and Management	50

IWA AQUA	https://iwaponline.com/aqua	Water supply such as reclaimed water supply, grey water supply, rainwater harvesting etc.	58
IWA Water & Health	https://iwaponline.com/jwh	Health aspects related to water	70
IWA Water Quality Research Journal	https://iwaponline.com/wqri	Water Quality	52
IWA Water and Climate Change	https://iwaponline.com/jwcc	The journal's scope includes but is not limited to articles relating to climate change and water	36
IWA Water Practice and Technology	https://iwaponline.com/wpt	Water Practice and Technology is an open-access journal presenting papers on all practical aspects of water and wastewater treatment and management throughout the water cycle	23
IWA Hydroinformatics	https://iwaponline.com/jh	Journal of Hydroinformatics is a peer-reviewed Open Access journal devoted to the application of information technology in the widest sense to problems of the aquatic environment	60
IWA Water Policy	https://iwaponline.com/wp	Water Policy is an Open Access journal publishing reviews, research papers, and progress reports about water policy	67
IWA Water, Sanitation and Hygiene for Development	https://iwaponline.com/washdev	Highlighting the science, policy and practice of drinking water supply, sanitation and hygiene at local, national, and international levels	31
Journal of Membrane Science	https://www.sciencedirect.com/journal/journal-of-membrane-science	Structure, function, and performance of non-biological membranes	295
ACS Sustainable Chemistry & Engineering	https://pubs.acs.org/journal/ascecg	Green chemistry, green manufacturing and engineering, biomass or wastes as resources,	173

		alternative energy, life-cycle assessment	
Environmental Science: Water Research & Technology	https://www.rsc.org/journals-books-databases/about-journals/environmental-science-water-research-technology	The journal showcases fundamental science, innovative technologies, and management practices that promote sustainable water	68
ACS Applied Materials & Interfaces	https://pubs.acs.org/journal/aamick	The journal focuses on how newly discovered materials and interfacial processes can be developed and used for specific applications	311
Membranes	https://www.mdpi.com/journal/membranes	Science and technology of both biological and non-biological membranes	69
Journal of Cleaner Production	https://www.sciencedirect.com/journal/journal-of-cleaner-production	Cleaner production and technical processes, Sustainable Development and Sustainability, Sustainable Consumption, Environmental and sustainability assessment, Sustainable Products and Services, Corporate sustainability and Corporate Social Responsibility, Education for Sustainable Development, Governance, legislation, and policy for sustainability	309

4.2 Publications in Trade Journals

At least 10 publications in trade journals for water, paper & pulp, steel, and bio-/petro-chemicals, are published to promote the project and its results.

Table 8: Possible Trade Journals

Where	Title	Field
EU / international	IWA members magazine "The Source"	Water
EU / international	World Water	Water

EU / international	WaterWorld	Water
EU / international	AquatechTrade	Water
Germany	gwf-Wasser Abwasser/Water Solutions	Water
Germany	Zeitung für kommunale Wirtschaft	Water
Germany	KA - Korrespondenz Abwasser	Water
Germany	EUWID	Water
Germany	DVGW energie wasser-praxis	Water
Germany	Wochenblatt für Papierfabrikation	Papermaking technology
Belgium	Aquarama	Water
Belgium	Watercircle	Water
Belgium	Aqua	Water
Belgium	H2O	Water
Spain	RETEMA	Water
Spain	TecnoAqua	Water
Spain	AguasResiduales.info	Water
Spain	eSMART CITY	Water
Spain	iAmbiente	Water
Spain	FuturEnviro	Water
Spain	FuturEnergy	Energy
Spain	Revista Técnica del Mediambiente	Environment
Spain	Energías Renovables	Energy
Spain	Future Power Technology Energética21	Energy
Spain	Industrial Technology	Industry
Spain	Innova Spain	Innovation
Spain	Corresponsables	Industry
Norway	Vann	Water
Norway	Vannspeilet	Water
Norway	Kommunalteknikk	Water
Norway	Byggeindustrien	Water
Norway	Teknisk Ukeblad	Water
Finland	Puunvuoro	Forest bioeconomy
Finland	Vesitalous	Water
International	Steel Times International	Steel
International	Iron & Steel Technology	Steel
International	Chemical Industry Journal	Chemical Industry
International	Pulp and Paper Industry Magazine	Pulp and Paper

4.3 White Papers

Later in the project, at least two white papers will be produced following major project deliverables. One will possibly deal with the results of the demonstration cases will be published by the end of the project.

4.4 Blog posts on website

At least ten blog entries/news will be produced throughout the project, drawing visitors (back) onto the website. They will also be shared on social media to draw (new) visitors to the website. At the time of writing this deliverable, 2 blog entries are available on the project website.

4.5 Clustering activities

Establish synergies with similar or complementary local, national, or international EU-funded projects and initiatives, in particular those under the same call, but also similar projects under previous (SPIRE) H2020 calls for collaboration. More information about this can be found in the Synergies Action Plan in Chapter 5, page 35ff.

4.6 Tours of demonstration sites

At some point later in the project, there will be at least three tours of the demonstration sites. These tours can be directed at interested stakeholders, policy makers, or other target groups. The tours can be carried out virtually or in person.

4.7 Workshops/conferences

Following major deliverables, at least three workshops with at least 25 attendees will be carried out.

4.8 Key Performance Indicators for Dissemination Activities

To monitor the fulfillment of the Plan, a set of Key Performance Indicators (KPI's) and their respective target values for dissemination activities have been devised (Table 9). This table will be continuously updated throughout the project, in subsequent versions of this plan. Target values will be monitored. If they are not achieved, reasons will be analysed and corrective measures will be developed.

To gather all dissemination and communication activities of all project partners, a shared spreadsheet has been created, in which all partners register the activities they carry out.

Table 9: KPI's for dissemination activities

Dissemination Activity	Measurable results	KPI	Target Audience	Key message	KPIs reached at M12
Publish results in peer-reviewed journals	At regular intervals	At least 8 peer-reviewed open-access publications	TG 12	KM 3-5	None yet
Promote results in trade publications for water, paper,	At regular intervals	At least 10 industrial journal publications	TG 1-6	KM 1-5	None yet

pulp, steel, and chemicals					
White papers	Following major deliverables	At least 2 white papers	TG 1-9, TG 12	KM4, KM6	None yet
Share info on project challenges, results, and impacts online	At regular intervals	At least 10 blog posts on website	TG1-7, TG10-13	KM 1-3, KM 7	2 blog entries available
Project demonstration at major industry / academic events	Based on the timing of the events	More than 2 in person or 2 virtual events with a minimum of 120 attendees	TG1-8, TG10-11	KM1-3, KM6	None yet
Clustering activities: establish synergies with similar or complementary local, regional, national or international EU-funded projects and initiatives - supporting setup of H4C	At regular intervals, decided with the Innovation Manager	At least 2 joint events (virtual or physical) with other projects organized and completed. R3VOLUTION presence in at least 6 events organized by other projects	TG1-4, TG11-12	KM 1-6	Collaboration has started with A.Spire (Processe s4Planet)
Tours of demonstration sites	Once the case studies are established and when appropriate	At least three tours carried out	TG1-4, TG12	KM3, KM5	None yet
Workshop sessions	Following major deliverables	3 workshops (in person or virtual) with at least 25 attendees	TG1-5, TG12	KM 1-6	None yet

After the end of the project, dissemination activities will be continued by aiming at publishing the final results in target peer-reviewed journals. During the following years after the end of the project, the possibility of keeping demonstration tours will be evaluated by each case study owner. Through the clustering activities conducted during the project, R3VOLUTION non-confidential results will feed other EU projects and future project proposals thanks to the network created during the project period.

5 Synergies Action Plan

Creating a Synergies Action Plan for a water-related research project involves identifying opportunities for collaboration between different research programs and initiatives. The European Commission's guidance on maximizing synergies between Horizon Europe and the European Regional Development Fund is a valuable resource for this purpose. It emphasizes the importance of legal and implementation details for operational synergies, which can be crucial for water research projects. Additionally, the Strategic Research & Innovation Agenda 2025 provides a roadmap for future water-related RDI actions in Europe, setting out specific research themes and priorities. These resources can help in formulating a comprehensive action plan that leverages existing programs and fosters innovation in water research.

Therefore, connections with other, similar projects, initiatives, clusters, etc. are actively sought. The R3VOLUTION team will assess which H2020 projects, especially in the same and related calls, have commonalities in market domain and technical implementation with the scope of mutual scientific exchange, common dissemination, support in organizing events of mutual interest, and coordination of input to standardization activities.

The first step is identifying related and relevant initiatives, projects, programmes, stakeholders, etc. for possible collaboration. This first step has been carried out and the results are described in this document in the following sub-chapters. The next step is to reach out and establish connections with the identified parties to discuss possible collaborations in the upcoming months and years.

Already established at M10 is a collaboration with the A.SPIRE/Processes4Planet initiative, a co-programmed partnership between the process industries and the European Commission under Horizon Europe (<https://www.aspire2050.eu/p4planet/about-p4planet>). The initiative will function as a communication hub and share R3VOLUTION news, outcomes, and materials. R3VOLUTION is also featured in one of their brochures and on their website.

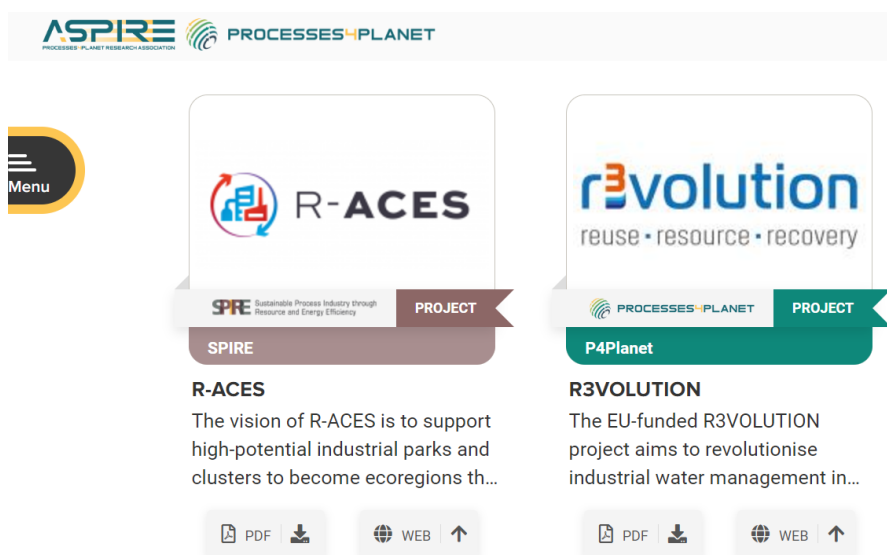


Figure 2: Screenshot of the A.Spire/Processes4Planet website

5.1 International networks and stakeholders for possible collaboration

A collaboration and exchange with international networks and stakeholders is intended whenever possible.

Table 10: International networks and stakeholders for possible collaboration

What	Link	Diss, Comm, Expl
The Innovation Radar for seeking financing or partnerships for getting to market with your EU-funded innovations	https://innovation-radar.ec.europa.eu/	Diss & Expl
The Horizon Results Platform to publish results	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/horizon-results-platform	Diss & Expl
The Horizon Results Booster	https://www.horizonresultsbooster.eu	Diss & Expl
The Horizon Magazine	https://horizon-magazine.eu/	Comm
Cordis news	https://cordis.europa.eu/news	Diss, Comm & Expl
Cordis projects and results	https://cordis.europa.eu/projects/en	Diss, Comm & Expl
To register an event with the EC	https://ec.europa.eu/info/research-and-innovation/events/suggest-event_en	All
European Circular Economy Stakeholder Platform	https://circulareconomy.europa.eu/platform/en	Diss, Comm & Expl
Eugris, the portal for soil and water management in Europe	http://www.eugris.info/	Diss, Comm & Expl
Researchgate, discover scientific knowledge and stay connected to the world of science	https://researchgate.net	Diss, Comm & Expl
To upload water science-related videos	https://thewaterchannel.tv/	Diss & Comm

European Water Resources Association	https://www.ewra.net/	Diss & Comm
European Association of Environmental and Resource Economists	https://www.eaere.org/	Diss & Comm
EurEau	https://www.eureau.org/	Diss & Comm
International Water Association	https://iwa-network.org/	Diss & Comm
European Water Association	https://www.ewa-online.eu/	Diss & Comm
Big Data Value Association (BDVA)	https://bdva.eu/	Diss & Comm
CIRSEAU cluster	https://b-watersmart.eu/cirseau-cluster/	Diss & Comm
Global Water Research Coalition (GWRC)	https://globalwaterresearchcoalition.net/	Diss & Comm
International Association for Hydro-Environment	https://www.iahr.org/	Diss & Comm
Engineering and Research (IAHR)	https://www.iahr.org/	Diss & Comm
Water Reuse Europe (WRE)	https://www.water-reuse-europe.org/	Diss & Comm
Water Smart Territories S3 Partnership	https://ec.europa.eu/regional_policy/policy/communities-and-networks/s3-community-of-practice/partnership_industrial_mod_water_smart_en	Diss & Comm
ICT4WATER Cluster	https://ict4water.eu	Diss & Comm

European Sustainable Phosphorus Platform (ESPP)	https://www.phosphorusplatform.eu/	Diss & Comm, Expl.
Water JPI	http://www.waterjpi.eu/	Diss & Comm
MEP Water Group	https://mepwatergroup.eu	Diss & Comm
EIT Climate KIC	https://www.climate-kic.org/	Diss & Comm
Water Europe	https://watereurope.eu/	Diss & Comm
Cost actions (NexusNet, Watertop, OffSource)	https://nexusnet-cost.com/ https://watertopnet.eu/ https://off-source.eu/	Diss & Comm

5.2 National networks and stakeholders for possible collaboration

A collaboration and exchange with national networks and stakeholders is intended whenever possible.

Table 11: National networks and stakeholders for possible collaboration

Network	Country	Partner
Deutscher Verein des Gas- und Wasserfaches (DVGW)	Germany	IWW
Bundesministerium für Bildung und Forschung (BMBF)	Germany	IWW
European Innovation Partnership on Water (EIP Water)	Germany	IWW
Bundesverband der Energie- und Wasserwirtschaft (BDEW)	Germany	IWW
Deutsche Vereinigung für Wasserwirtschaft, Abwasser und Abfall (DWA)	Germany	IWW
Verband Kommunaler Unternehmen (VKU)	Germany	IWW
German Water Partnership (GWP)	Germany	IWW
Coördinatiecommissie Integraal Waterbeleid CIW (Water Policy Coordination Commission)	Belgium	
Spanish Water and Wastewater Association (AEAS)	Spain	CET
Catalan Water Partnership	Spain	CET

Spanish Association of Desalination and Reuse (AEDyR)	Spain	CET
Norsk Vann	Norway	Sintef
NKF Norsk Kommunalteknisk Forening	Norway	Sintef
IWA Norge	Norway	Sintef
Vannklyngen	Norway	Sintef
Vannforsk	Norway	Sintef
Deutsche Gesellschaft für Membrantechnik e.V.	Germany	Fraunhofer
DECHEMA Gesellschaft für chemische Technik und Biotechnologie e.V.	Germany	Fraunhofer
THURINGIAN WATER INNOVATION CLUSTER	Germany	Fraunhofer
Deutscher Textilreinigungsverband	Germany	Fraunhofer
HSY	Finland	VTT
Bundesamt für Umwelt	Switzerland	Bloom

5.3 Initiatives, projects & programmes, end-users and stakeholders for collaboration

Stakeholder engagement is a two-way process that: i) aids understanding of stakeholder requirements and concerns (which, where appropriate, enables modification of project approaches to ensure solutions meet the needs of a wider population); and ii) enables dissemination and communication of concepts and solutions to target audiences to promote the project, drive adoption and support exploitation. The goal is to build a community of engaged, relevant stakeholders for joint activities and cross-fertilization.

Initiatives, projects, programmes and key stakeholders are going to be contacted to explore the opportunities for cross-dissemination, joint participation as speakers to events, co-organisation of events, cross-project demonstrations, organisation of conferences, workshops, events, crossbreeding, and co-funding.

Table 12: Identification of relevant initiatives, projects & programmes, end-users & stakeholders

Name	What	Website
CORNERSTONE	Sister project. Call: HORIZON-CL4-2023-TWIN-TRANSITION-01 projects Topic: HORIZON-CL4-2023-TWIN-TRANSITION-01-40	https://cordis.europa.eu/project/id/101138504
RESURGENCE	Sister project. Call: HORIZON-CL4-2023-TWIN-TRANSITION-01 projects Topic: HORIZON-CL4-2023-TWIN-TRANSITION-01-40	https://resurgence-project.eu/

A.SPIRE	A.SPIRE is the European Association which is committed to manage and implement the Processes4Planet co-programmed partnership	https://www.aspire2050.eu/aspire/the-association
Ocean and Waters	With a 2030 target, the EU Mission “Restore our Ocean and Waters” aims to protect and restore the health of our ocean and waters through research and innovation, citizen engagement and blue investments.	https://maritime-forum.ec.europa.eu/theme/research/mission-ocean-and-waters_en#:~:text=With%20a%202030%20target%2C%20the,citizen%20engagement%20and%20blue%20investments
The Soil missions	The goal of Mission Soil is to create 100 Living Labs and Lighthouses by 2030 to promote sustainable land and soil management in urban and rural areas. The Mission Soil	https://esdac.jrc.ec.europa.eu/projects/soil-mission-projects#:~:text=The%20EU%20Mission%20%27A%20Soil,in%20Urban%20and%20rural%20areas
Processes4Planets	The Processes4Planet (P4Planet) Partnership aim is to transform the European process industries to achieve circularity and overall climate neutrality at the EU level by 2050 while enhancing their global competitiveness.	https://www.aspire2050.eu/p4planet/about-p4planet
Made in Europe	The Made in Europe Partnership will serve as a platform for national and regional manufacturing technology initiatives and the required disciplines and technologies, creating economies of scale, common understanding, and alignment of objectives and priorities.	https://research-and-innovation.ec.europa.eu/system/files/2020-09/ec_rtd_he-partnership-made-in-europe.pdf
SPIRE 2020 projects	SPIRE aims to integrate, demonstrate and validate systems and technologies capable of achieving a reduction in fossil energy intensity of up to 30% from current levels and a reduction of up to 20% in non-renewable, primary raw material intensity compared to current levels	https://ima-europe.eu/projects/spire/
abonoCARE	Entrepreneurial Regions Programme	https://www.abonocare.de/home-en.html

BeWiser	BMBF- Research project	https://www.umsicht-suro.fraunhofer.de/de/presse/pressmitteilungen/2023/BeWiSer.html
PROWA	Fraunhofer-intern Innopush-Programme BMBF- funding	
abonoCARE	Entrepreneurial Regions Programme	https://www.abonocare.de/home-en.html
iWAYS	Water closed loop in industrial processes	https://www.iways.eu/
IETS Task XV: Industrial Excess Heat Recovery	Industrial Excess Heat Recovery	https://iea-industry.org/tasks/annex-xv-industrial-excess-heat-recovery/
IETS Task XVII: Membrane Processes in Biorefineries	Membrane Processes in Biorefineries	https://iea-industry.org/tasks/annex-xvii-membrane-processes-in-biorefineries/
IETS Task XI: Industry-based biorefineries towards sustainability	Industry-based biorefineries towards sustainability	https://iea-industry.org/tasks/annex-xi-industry-based-biorefineries/
IEA Task 36: Material and Energy Valorisation of Waste in a Circular Economy	Material and Energy Valorisation of Waste in a Circular Economy	https://task36.ieabioenergy.com/
Aceitunas Guadalquivir AGOLIVES	Environmental department	https://www.agolives.com/

6 Acknowledgement of the EU funding

Beneficiaries of EU funding must display the EU flag and funding statement ("Funded by the European Union" or "Co-funded by the European Union") in all their communication and dissemination activities and any infrastructure, equipment, vehicles, supplies, or major result results funded by the grant. The EU flag and funding statement must be visible easily to the public and with sufficient prominence. EU funding must moreover be acknowledged in all types of public outputs (including patent applications, EU standardisation of results), media contacts, and other public statements.



Figure 3: The EU flag

Source: https://europa.eu/european-union/about-eu/symbols/flag_en

For dissemination or communication activities the following Disclaimer always must be displayed: "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 or the European Health and Digital Executive Agency (HADEA). Neither the European Union nor the granting authority can be held responsible for them."

7 Glance to the future

In a later version of this deliverable, this chapter will contain an outlook beyond the project towards continuation opportunities. What steps are to be taken once the research and innovation are complete? What further steps to apply it in actual practice will be taken?

Examples could be:

- Standards to be agreed on
- Financing the testing, scaling up, or production of a tool or technology
- Promoting acceptance by consumers or other partners in a value chain
- Policymakers may also establish follow-up steps to work the results into policies
- Support schemes for follow-up steps could be considered, e.g. national programmes, booster services, further funding, etc.

8 Gender balance in the project

Gender balance is the balance between women and men in research projects. The aim is to have an even, preferably 50/50 participation rate of both men and women amongst teams and in leading roles. At the beginning of the R3VOLUTION project, the gender ratio is 50/50 (24 female & 24 male researchers). Four out of the seven work-packages are led by women.

The gender dimensions of the project will be considered an integral part of the LCSA activities where gender balance will be continuously analysed and pro-actively addressed in terms of sex and gender, project staffing, leadership and decision-making, organisational structure, work-life balance, recruitment, and career progression for people working in the process industries.

Gender balance in research is crucial for several reasons.

Diversity of Perspectives:

- When research teams include a balanced representation of both men and women, they benefit from diverse perspectives, experiences, and problem-solving approaches.
- Diverse teams are more likely to consider a broader range of research questions, leading to innovative solutions.

Equity and Fairness:

- Achieving gender balance ensures that opportunities for participation and leadership are distributed fairly.
- It promotes equal access to resources, funding, and career advancement within research institutions.

Quality of Research:

- Gender-balanced teams enhance the quality of research by minimizing biases.
- Biases can arise from overlooking certain research questions, excluding relevant data, or favouring specific methodologies.
- A balanced team is more likely to critically evaluate research design and results.

Addressing Gender-specific Issues:

- Many research topics have gender-specific dimensions (e.g., health, education, workplace dynamics).
- Gender balance ensures that these dimensions are adequately considered, leading to more comprehensive and relevant research outcomes.

Role Modeling and Representation:

- Having visible role models of both genders in research inspires future generations.
- It encourages young researchers, especially women, to pursue careers in science, technology, engineering, and mathematics (STEM).

Policy and Decision-Making Impact:

- Research informs policies and decisions at various levels (institutional, national, international).
- Gender-balanced research ensures that policy recommendations consider the needs and perspectives of all genders.

In summary, gender balance fosters better research, promotes fairness, and contributes to a more inclusive and equitable scientific community. Researchers, institutions, and funding agencies should actively work toward achieving and maintaining this balance.

The R3VOLUTION project therefore will encourage the presence of women scientists and decision-makers wherever possible and increase the visibility of women in the industry, during and after the project. This will be done by placing a special focus on women when choosing e.g. interview partners for public materials or focusing on women when it comes to recruiting new colleagues for the project.

9 Sustainability and low-carbon communication

All R3VOLUTION activities will be organised in such a way as to minimise environmental impacts while maximising the inclusion of a wide variety of stakeholders and target audiences. The COVID-19 pandemic has forced changes that allowed us to reflect on, and possibly adapt, strategies for stakeholder engagement, communication, and dissemination of project results. In the case of R3VOLUTION, the Project will follow the EU best practices for undertaking low-carbon research and communication activities, seeking certification whenever feasible, including:

- Quantification and compensation of carbon emissions directly related to the project's activities and events (in person case study workshops, conferences, etc.).
- Including sustainability criteria when hiring providers of goods and services (e.g. catering for events).
- Endeavour to avoid excessive flights, giving preference to softer mobility, public transport, and online meetings whenever possible (especially relevant after the COVID-19 pandemic).
- In the case of printed outputs, ensure that only FSC-Certified paper is used.

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