SYMBIO STEEL

# Final Dissemination and Communication report

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| ***Project Acronym*** | **Symbio-Steel** |
|---|---|
| *Project Title* | Fostering Industrial Symbiosis solutions for the steel sector by results monitoring and dissemination from national and EU funded projects coupled to definition of cross-sectorial synergy scenarios. |
| *Number* | 101156509 |
| *Start date* | 01/10/2024 |
| *End date* | 30/09/2026 |

| ***Deliverable No.*** | **2.4 Final Dissemination and Communication report** |
|---|---|
| *Dissemination level* | PU |
| *Work Package* | WP 2. Communication and Dissemination activities |
| *Task* | T 2.1. Communication and dissemination plan |
| *Lead beneficiary* | Swerim AB |
| *Contributing beneficiary(ies)* | SSSA, K1-MET, RINA-CSM, FEHS, ESTEP |
| *Due date of deliverable* | 30/09/2026 (M24) |

# 1 Overview

The dissemination and communication (D & C) activities in Symbio-Steel aims to ensure its findings are widely shared with the relevant target audience and public, with appropriate mechanisms in a timely manner, enabling the exploitation of the project results by disseminating them to the relevant stakeholders, and thereby supporting the advancement of Industrial Symbiosis activities in the steel sector.

Consortium partners are committed to implementing an intensive and clear strategy and conducting effective communication, dissemination, and exploitation activities from the very early stages of the project. In this regard, a global dissemination and communication strategy tailored to different stakeholders has been defined. A Dissemination and Communication plan was made and published in M4 in this project (D2.1). Briefly, the D & C work should be conducted through multiple medias and methods to ensure the efficient communication and information delivery, including presentations and communications in conferences, workshops, webinars, website, LinkedIn posts, newsletters, etc.

During the project period (Oct 2024-Sept 2026), the consortium partners carried out intensive and effective dissemination and communication (D & C) activities. These included organizing 4 workshops on Industrial Symbiosis, contributing to the Resource and Recycling Day webinar hosted by Swerim and Jernkontoret, and participating in 10 conferences and events. In the activities above, 8 oral presentations and 4 posters have been delivered. In parallel, the project maintained an active website and LinkedIn presence, updating project news, activities, other information, etc., and published 6 newsletters to reach stakeholders and wider audiences. We already achieved over 50,000 impressions, over 500 followers in the LinkedIn page, and over 2,100 views on the project website. The detailed D & C activities can be seen in section 2 below.

These efforts have significantly strengthened the visibility of Symbio-Steel, promoted knowledge sharing, and created valuable opportunities for stakeholder engagement, information exchange and possible future collaborations.

## 1.1 Objectives

The primary objectives of these dissemination and communication activities are as follows:

- Raising awareness. Enable potential future exploitation of the project results by disseminating them to the relevant stakeholders.
- Sharing knowledge and first project results. Ensure that the findings of the project are widely communicated to scientists/researchers/engineers, and the public. Facilitate knowledge exchange to promote the adoption of Industrial Symbiosis in steelmaking.
- Engaging stakeholders. Foster engagement with stakeholders (e.g. industry professionals, policymakers, academics, society and the public authorities) to advance the Industrial Symbiosis in the steel sector.
- Documentation of undertaken and proposed dissemination and communication activities.

## 1.2 Target audiences

All partners of Symbio-Steel are committed to mobilizing the appropriate stakeholders to multiply the effects of dissemination and exploitation activities. To maximize the impact of the dissemination and communication of the project results, some main categories of target audiences have been identified, that will be useful to specify the Dissemination and Communication activities, and to customize actions within an integrated Communication and Dissemination strategy.

The target audience is segmented into the following groups:

- European steel industry stakeholders and other connected sectors, i.e., manufacturers, suppliers, and technology providers: implementation of innovative technologies and Industrial Symbiosis approaches through synergies with their stakeholders and other industrial sectors to accelerate the innovation processes.
- European industry: all energy-intensive industries, e.g. the cement industry, or other sectors linked to the steel sector through proactive cross-sectorial cooperation and integrations.
- Academic and research institutions, including experts in Industrial Symbiosis, sustainability, and environmental science: creation of new knowledge and understanding of IS for future scientific activities.
- Policymakers and regulators: government bodies and policymakers driving low-carbon and sustainability agendas.
- General public and advocacy groups: to promote awareness and encourage sustainable practices.

- Overall society: that can benefit from reduced $CO_2$ emissions, conservation of resources, protection of the environment by a wider implementation of IS solutions. This includes social impact and effects on present and future workforce, in terms of skill gaps to be filled for fully exploiting the potential of the developed solution.
- Young people: who are looking for a profession that contributes to facing climate challenges, preserving natural environment and supporting resilience of EU industries and social welfare. This also includes effects on the potential for attracting young talents.
- European Commission and member state policy makers: indications for new policy initiatives regarding resource efficiency and decarbonization in EU industry

# 2 Activities and results

D & C activities mostly aim at promoting the project itself and its impacts among the identified groups.

The key activities in the D & C work will synergize with the progress and plan of the Symbio-Steel project to ensure high-efficiency communication and information delivery, support expanding the impact of the research's outcomes, and, therefore, assist in accelerating the advances in steel symbiosis.

The activities included in-person communications and disseminations such as conferences, presentations, workshops, as well as media publications through websites, newsletters, and LinkedIn account, etc. These varied modes of communication guarantee efficient information delivery and exchange, active engagement of stakeholders and a remarkable outcome for D & C work.

The corresponding D & C activities and results by the end of Symbio-Steel are described in detail in the following subsections.

## 2.1 Conferences

Conferences are crucial for disseminating project findings to a global audience of academics, industry professionals, and policymakers. During the project, Symbio-Steel partners actively participated in relevant conferences to raise awareness about the project, present project scopes, objectives and findings/outcomes, and engage with stakeholders.

In total, Symbio-Steel participated in 10 international conferences and academic events with presentations, posters, flyers, rollup, booths, survey invitation, etc. The detailed activity information is shown in Table 1 below.

*Table 1: Participated conferences and events of Symbio-Steel.*

| **Conferences and event in Symio-Steel** | | | | |
|---|---|---|---|---|
| **Event** | **Place** | **Participants** | **Time** | **Activity** |
| EUROSLAG 2024 | Bilbao (Spain) | SSSA, Swerim, FEhS, RINA-CSM, K1-MET, ESTEP, REA-RFCS | 23-25 October, 2024 | Poster about project ambition and design, with short oral presentation; Communication with audience; Networking. |
| "The role of slags and other by- | Duisburg (Germany) | SSSA, FEhS, | 5-6, March, 2025 | A Symbio-Steel-hosted session |

| | | | | |
|---|---|---|---|---|
| products within circular economy in the steel industry "(conference organized by FeHS and ESTEP) | | Swerim, RINA-CSM, K1-MET, ESTEP | | (Workshop1); Presentation; Communication with audience; Networking. |
| European Biomass Conference and Exhibition (EUBCE) | Valencia (Spain) | Swerim | 9-12, June, 2025 | Project poster "Steel and biomass symbioses"; Networking; |
| ESTEP Spring Dissemination event | Krakow (Poland) | ESTEP, SSSA, RINA-CSM, FEhS | 5-6 June, 2025 | Project poster; Networking; survey invitation; |
| The European Steel Technology and Application Days (ESTAD) | Verona (Italy) | SSSA, Swerim | 06-09 October 2025 | A session on Industrial Symbiosis as workshop 2. Presentation focusing on project progress and outcomes; Networking; Interviews. |
| ESTEP annual event | Udine (Italy) | ESTEP, SSSA, Swerim | 28-30 October 2025 | Flyers and interviews with stakeholders; communication and networking; Interviews |
| EMECR 2026 | Milan (Italy) | SSSA, Swerim | 11-13 May 2026 | Having a workshop for Symbio-Steel; Presentation focusing on project progress and outcomes; booth; Project video display; Rollup; networking; |
| Hubs4Circularity Final Conference | Brussels (Belgium) | Swerim | 27-May-26 | Discussion on project with flyers. |
| EUROSLAG 2026 | Luleå (Sweden) | SSSA, Swerim, FEhS, RINA-CSM, K1-MET | 15-18 June 2026 | Having a workshop for Symbio-Steel; Presentation of the project; networking; Poster; Booth. |
| ISIE-SEM conference | Cambridge (UK) | Swerim | 6-8 July 2026 | Networking, flyers, exchange and introduction of |

| | | | | |
|---|---|---|---|---|
| | | | | SymbioSteel in communication |

In the 1st year, Symbio-Steel participated in 4 international conferences and academic events with presentations, posters and a survey invitation. The four activities include 1 short presentation in EUROSLAG 2024, 1 oral presentation in a co-hosted symbiosis-themed session (Duisburg) and 3 posters. Initial presentations focused on the project design and expected outcomes, but later ones began disseminating preliminary findings, such as insights into existing research into biomass and steel sectors synergies, and the suggested KPIs developed in the project. In addition, 1 survey on activities and trends related to Industrial Symbiosis in the steel sector, prepared by RINA-CSM, has been distributed starting from the ESTEP Spring Dissemination event.

In the 2nd year, Symbio-Steel participated in 6 international conferences and academic events with presentations, posters, booths, etc.

The 6 activities include 5 oral presentations (1 in ESTAD 2025, 1 in EMECR 2026, 3 in EUROSLAG 2026), 2 booths and 1 poster. The presentations introduced the project scope, objective, methods, as well as the updated outcomes, guidelines for stakeholders, next steps, etc. 1 integrated video with project results introduction and highlights of interviews was shared in EMECR 2026 with Symbio-Steel booth. Interviews with industrial experts were conducted in ESTAD 2025, ESTEP annual event 2025 and EMECR 2026, with videos published.

## 2.2 Workshops and webinars

Workshops and webinars were organized to discuss project findings, share knowledge, and focus on challenges, opportunities, and case studies related to Industrial Symbiosis in steelmaking, with a global audience involved. These activities also provided a platform for networking and dialogue, helping to build connections and lay the foundation for future collaboration opportunities.

In the 1st year of the project, 1 workshop and 1 webinar were completed, as shown in Table 2. The workshop was held as a session "Industrial Symbiosis" in the ESTEP& FEhS event "The *role of slags and other by-products within circular economy in the steel industry*", in March. In the workshop, a presentation on Symbio-Steel was given along with 4 other presentations on related topics given by researchers/stakeholders from industrial and academic organizations. In this way, Symbio-Steel contributed to the discussion and dissemination of Industrial Symbiosis research involving steel industries.

The Resource and Recycling Day webinar in September 2025 was hosted by Swerim and Jernkontoret. Symbio-Steel was presented by Valentina Colla (SSSA)

and Han Yu (Swerim), as part of the webinar focusing on topics such as characterization, selection, reuse and recycling of steel and alloys by-products. This served both to present the project to industry and research professionals active in related fields, to disseminate Symbio-Steel outcomes related to definition of IS KPIs, and to invite new participants to the ongoing survey.

In the 2nd year of the project, 3 workshops were completed, 1 webinar was planned, as shown in Table 2. Workshop 2 was held as a session on Circular Economy & Industrial Symbiosis in ESTAD 2025. In the workshop, a Symbio-Steel presentation on "Recent achievements of Industrial Symbiosis in the steel sector based on the Symbio-Steel project" was given along with 3 other presentations on related topics. In EMECR 2026, Prof. Valentina Colla (project coordinator) hosted a session "**Industrial Symbiosis for the steel sector: opportunities, challenges and success stories**" as the workshop 3. A Symbio-Steel presentation titled "Targeting and supporting Industrial Symbiosis in the steel industry through the Symbio-Steel project" was delivered. 5 other presentations on initiative applications/tests, case studies, policy drivers, skills development, etc., related to Industrial Symbiosis were given by various researchers/stakeholders. Prof. Valentina Colla and Dr. Han Yu co-hosted the Symbio-Steel workshop 4 as a session on Industrial Symbiosis in EUROSLAG 2026. 3 Symbio-Steel presentations were delivered on industrial Symbiosis solution analysis, perspectives, KP1-based assessment, guidelines and roadmaps for future development, etc. 3 other related presentations on slag as supply chain interface, biomass utilization, Industrial Symbiosis enabler and policy issues were given by researchers/stakeholders. In these activities, project results were disseminated, knowledge and opinions were exchanged, constructive communication between stakeholders were fully conducted, contributing to the potential collaborations and future exploitations.

A webinar has been planned to be hosted in October 2026, by Swerim, on the Industrial Symbiosis. The webinar has attracted a strong lineup of highly recognized speakers. In this webinar, various works on industrial symbiosis will be introduced, knowledge and opinions will be exchanged, focuses, questions from stakeholders will be discussed, a good foundation for future collaborations can be expected to be formatted. The webinar has been already scheduled for 15 October 2026.

With activities like workshops, conferences, webinars, as well as the assistance from ESTEP, Symbio-Steel also developed connections and communications with EU projects and platforms, where the project knowledge and information have been shared, opinions and ideas have been exchanged, a good foundation for future potential collaboration is formatted.

*Table 2: List of workshops and webinars in Symbio-Steel.*

| **Workshop and webinar** | | | | | |
|---|---|---|---|---|---|
| **Workshop** | **Place** | **Host** | **Time** | **Activity** | **No. of attendees** |
| WS1 | Duisburg (Germany) | FEhS, ESTEP, SSSA | March, 2025 | Presentations; Discussion and Q &A; Networking. | ≈100 |
| Webinar 1 | Luleå (Sweden) | Swerim, Jernkontoret | Sept 2025, the event of Swerim Resource and Recycling Day | Presentations; Discussion and Q &A; | >100 |
| WS2 | Verona (Italy) | SSSA | Oct 2025, during the ESTAD conference | Presentations; Discussion and Q &A; Networking, etc. | >100 |
| WS3 | Milan (Italy) | SSSA | May 2026, during the EMECR conference | Presentations; Discussion and Q &A and networking. | >100 |
| WS4 | Luleå (Sweden) | Swerim | June 2026, during the EUROSLAG 2026 conference | Presentations; Networking; Discussion and Q&A, etc. | >100 |
| Webinar 2 | Online | Swerim | October 2026 | Presentations and project summary, future plan; Discussion and Q & A , panel, networking. | TBD |

## 2.3 LinkedIn Page and website

LinkedIn is the primary social media platform for promoting project activities, engaging stakeholders, and sharing updates. The tasks included sharing project information and updates, announcements for events e.g., webinars,

workshops, and conferences, and reporting their results, share posters and newsletters, etc.

A dedicated project website is a central hub for information for Symbio-Steel, providing accessible and transparent information to all viewers, especially stakeholders. The website provides insight into events, news, outcomes, focuses, etc.

LinkedIn page of Symbio-Steel account has been set up in November 2024. By the end of the 2nd year of the project (Sept 2026), 83 posts were published with over 50,000 impressions and 1300 reactions, as shown in Table 3 below:

*Table 3: Statistics of LinkedIn page of Symbio-Steel.*

| | Impression | Engagement rate | Reactions | Clicks |
|---|---|---|---|---|
| Total | 50454 | - | 1390 | 2613 |
| Average | 607 | 10.42% | 17 | 36 |

The activities on LinkedIn provided significant support to share project progress, engage audiences in relevant areas, build networks and promote our other activities. In the second year of Symbio-Steel, as the project progresses and more results are generated, we will continue to put efforts into developing our LinkedIn presence.

Symbio-Steel website was established and published in March 2025 (www.symbiosteel.eu). The project overview, objectives, and other information have been shared on the website. The update of activities (e.g., conferences, workshops, posters), newsletters and documents (e.g., deliverables) has been ongoing since March 2025. The website also features links that allow visitors to subscribe to our newsletter. In addition, we have promoted our website through LinkedIn and project activities to increase its visibility. So far by the end of the project, over 2100 views/visits to the Symbio-Steel website have been achieved, details as shown in Table 4 below.

*Table 4: Website statistics of Symbio-Steel.*

| Website statistics in the 1st year of Symbio-Steel | |
|---|---|
| Total page view | >2100 |
| Active users | 140 |
| Newsletter page view | >150 |
| Project concept page views | >60 |
| Project background page views | >140 |
| Consortium information page views | >110 |
| News page view | >290 |

As shown in the table, visitors have accessed a wide range of project information on the website, from background and concept to project activities, news, and details of participating organizations. This has created a strong communication and dissemination effect, providing an effective platform for information sharing.

Both the LinkedIn page and website have shown good performance to support D & C work in Symbio-Steel.

## 2.4 Newsletters, paper publications, stakeholder engagement and more activities

A twice-yearly newsletter is used to deliver up-to-date information and updates on project activities and events, maintaining stakeholder engagement.

So far 6 newsletters have been published, in February 2025 (M5), September 2025 (M12), December 2025 (M15), May 2026 (M20), August 2026 (M23), September 2026 (M24), shared as LinkedIn posts, emailed to subscribers, and uploaded to our website. The newsletters have presented project overview, achievements and outcomes, finished and upcoming activities, etc.

So far, newsletters have attracted over 3300 impressions on LinkedIn, and over 1000 clicks and visits on LinkedIn and webpage. Meanwhile, the newsletters have been distributed by e-mail to around 120 individuals from over 50 organizations in relevant sectors.

Publishing in scientific journals will ensure the scientific credibility and longevity of the project's findings. By disseminating results through publications, the project can reach academic researchers, contribute to global knowledge, and establish itself as a leading initiative in the development of Industrial Symbiosis in the steel sector.

In this project, at least 3 journal papers should be published in relevant scientific journals to present reviews or status updates concerning the study of Industrial Symbiosis involving the steel sector.

After the acceptance of the extended abstract to be presented at the ESTAD 2025 Conference, our first paper "***Recent achievements of Industrial Symbiosis in the steel sector based on the Symbio-Steel project***" was submitted, peer-reviewed and published, on a special issue (Advances in Steel Technologies) of the Journal *Matériaux & Techniques*. DOI: https://doi.org/10.1051/mattech/2026002

First journal paper

There are 2 manuscripts being prepared, led by K1-MET and SSSA, respectively, for the special issue of the Journal *Ironmaking&Steelmaking*, dedicated to EUROSLAG 2026 conference. In which, tentative titles of the papers are "Analysis of relevant results, trends and perspectives of Industrial Symbiosis solutions", led by SSSA, and the "A Review and KPI-Based Assessment of Industrial Symbiosis Solutions for Slag Recycling", led by K1-MET.

For the conference papers, Symbio-steel has produced 3 papers.

The first short paper titled "Targeting and supporting Industrial Symbiosis in the steel industry through the Symbio-Steel project" was accepted by EMECR 2026 conference, published in the conference proceeding.

The second conference paper titled "Industrial Symbiosis solutions involving steel, construction and building sectors" was accepted by the Net-Zero Future conference, which takes place from 30 September, 2026 in Darmstadt.

The third paper titled "Linking circularity, industrial symbiosis and sustainability in the steel industry – a biometrics network approach" has been submitted and accepted by ACESD 2026 conference in Japan (November 6-9, 2026). The paper is under adjustments before the final version to be submitted.

Engaging with stakeholders is one of the key jobs of our dissemination and communication strategy, as it ensures that project results reach relevant communities, fosters dialogue with experts and practitioners, and creates opportunities for collaboration and impact. Now, in our approach, meaningful contact is defined as direct communication, through which stakeholders are reached with project information, that enables awareness of or interest, or engagement in the project. This may include subscribing to our newsletter, receiving/viewing our flyers/newsletters, participating in correlated webinars or workshops, or taking part in project-related discussions, etc. Based on this definition, we have contacted around 150 people from over 50 organizations, reflecting steady progress in building a strong and engaged network around the project. This can contribute to efficient communication and exchange, as well as potential post-project collaborations.

Videos: An integrated video with project information, results and interview highlights has been published at the end of the project. An earlier version of this video was made and shown in the booth in EMECR 2026. A total of 10 interviews were conducted with researchers from universities and research institutes, and representatives from industry. These interviews provided insights from a broad range of stakeholders across the research and industrial

landscape. Based on the interview material, 26 video clips were produced and published on LinkedIn, with their links also shared in our website.

Activities for young talents have been also planned in Symbio-Steel. One seminar for PhD students on industrial symbiosis has been prepared by SSSA. In addition, two lessons were proposed by SSSA to the Pianeta Galileo project, promoted by the Regional Council of Tuscany in collaboration with schools, universities, and organizations in the fields of research and scientific education, with the aim of fostering scientific culture and knowledge among younger generations. Both lessons ("*La Simbiosi Industrial nel Settore Acciaio: come la siderurgia realizza l'Economia Circolare*" and "*Viaggio nel cuore dei processi siderurgici e della produzione dell'acciaio*") have been accepted by the scientific committee. After, if there is interest from the high schools involved, with the coordinators dates will be arranged.

# 3 post-project activities

To better share the project outcomes and encourage Industrial Symbiosis related collaborations, post-project activities were planned. As shown in the table below:

*Table 5: Planned post-project activities.*

| Event | Place | Particpant | Time | Activity |
|---|---|---|---|---|
| ESTEP annual event 2026 | Ghent (Belgium) | FEhS, SSSA | Oct, 2026 | Project poster; Discussion and Networking. |
| Webinar 2 | Online | Swerim, SSSA | Oct, 2026 | Project presentation; Q&A; Exchange of ideas and opinions; Discussion of future collaboration opportunities. |
| AISTech 2027 | Nashville (USA) | SSSA | May, 2027 | Abstract submitted, possible project paper and presentation |
| ACESD 2026 | Tokyo (Japan) | Swerim (online) | Nov, 2026 | Presentation and communication, Q&A; |

# 4 D & C work performance

Below, the quantified communication and dissemination targets from project proposal and D&C plan are compared to the achieved outcomes. As can be seen, most goals are met, and there seems to be scope to overperform even more in the final 24 months of the project. The measurement of certain KPIs had to be adjusted, as the follow-up options disappeared. For instance, the technical solution for tracking unique visitors at the website has been discontinued, and "active users" and "total views" were used instead. This KPI will be changed as the D & C plan is updated, but it is estimated that the website has performed at or somewhat above the target. The D & C KPI follow-up for M1-M24 in the project is as shown in Table 6. KPI in Table 6 is described in D&C plan with some targets from the project proposal.

*Table 6: D & C KPI follow-up for M1-M24*

| **Comparison of KPI for the project and actual results** | | | | |
|---|---|---|---|---|
| D & C activity | KPI | Target | Outcome | Status |
| **Website** | Number of unique visitors per month | 20 for 1st year; 30 for 2nd year | Over 2100 views in total, 140 active users (users that have done more than just opening the page, e.g. clicking, scrolling etc.) | =+ |
| **LinkedIn** | Number of likes | 150 in total | Over 1300 reactions, over 50 000 impressions, 10.42% of engagement rate | + |
| **Flyers** | Number of distribution of Flyers electronically | 100 in total | Over 2000 clicks on posts and documents promoting project activities disseminated on | + |

| | | | | |
|---|---|---|---|---|
| | | | website or LinkedIn, over 600 distributions of newsletters by e-mail. | |
| **Stakeholder** | Number of contacts | 50 for 1st year; 100 for 2nd year | Around 150 people from over 50 organizations (including digital correspondence, workshop participation and in-person discussions about Symbio-Steel) | + |
| **Newsletter** | Newsletter numbers | 4 | 6 newsletters published | + |
| **Newsletter** | Newsletter open rate | No concrete target | Roughly 30% (from comparation between click and impression in LinkedIn) | = |
| **Workshop** | Number of Workshop organized | 3 | 4 workshops organized | + |
| **Presences** | Presence in a fair | 2-3 | Symbio-Steel participation in EUBCE, a combined academic conference and industry exhibition; 1 booth in EMECR 2026; 1 booth in EUROSLAG 2026 | + |
| **Conferences** | Number of conferences/events participated | 3-4 | Participated in 10 events | + |
| **Conferences** | Number of conference paper | 2 | 3 papers accepted | + |
| **Paper** | Journal Paper publication | 3 | 1 paper published; 2 papers being prepared | = |

| | | | | |
|---|---|---|---|---|
| **Webinar** | Number of webinars | 1 | 1 webinar of Resource and Recycling day; 1 being planned; | + |
| **Database of stakeholder** | Database of stakeholder | Database of stakeholder built | Database has been built and developed in the 2 years of the project | = |
| **Videos** | Number of videos | 1 | 1 integrated video for project results and interview highlights; Earlier version of this video shown in EMECR 2026; 26 video clips for interviews. | |

# 5 Timetable

*Table 7: D & C plan timetable follow-up.*

*Based on Dissemination and Communication plan submitted in M4 (D2.1) and the updated D&C plans. Blue colour is planned activities, green is activities completed on schedule.*

| Task | Time | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 |
| **D & C plan** | | M 4 | | | | | | |
| **Website establishment** | | M 6 | | | | | | |
| **Website updating** | | | | | | | | |
| **Newsletters** | | 1st | | 2nd | | 3rd | 4th | 5th, 6th |
| **LinkedIn page** | | | | | | | | |
| **Recruit of webinars for recycling day** | | | | | | | | |
| **Recycling day Webinar** | | | | | | | | |
| **Recruiting for Workshop 1** | | | | | | | | |
| **Workshop 1** | | Duisburg | | | | | | |
| **Recruit for Workshop 2** | | | | | | | | |
| **Workshop 2** | | | | | ESTAD | | | |
| **Recruit for Workshop 3** | | | | | | | | |
| **Workshop 3** | | | | | | | EMECR | |
| **Recruit for Workshop 4** | | | | | | | | |
| **Workshop 4** | | | | | | | EUROSLAG | |
| **Gather workshop materials** | | WS 1 | | | WS 2 | | WS3, WS4 | |
| **Dissemination and communication reports** | | | | M 12 | | | | M 24 |
| **Journal Papers** | | | | | 1st journal paper accepted | | 2 papers being prepared | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Conference papers** | | | | | | | 1st and 2nd papers accepted | 3rd paper accepted |
| **Conference participation** | | | | | | | | |

# 6 Deliverables

*Table 8: Planned deliverables in D & C work in Symbio-Steel.*

| **Deliverables** | | | | |
|---|---|---|---|---|
| No | Name | Level | Due date | Description |
| **D2.1** | Dissemination and Communication plan (completed) | PU | M 4 | Electronic document summarizing the plans for D & C of the project outcomes (English) |
| **D2. 2** | Project website (first version) (completed) | PU | M 6 | Project website implemented (English) |
| **D2. 3** | First Dissemination and communication report (completed) | PU | M 12 | Electronic document with updates on dissemination and communication activities developed in the first year of the project, also publicly downloadable from the project website (English) |
| **D2.4** | Final Dissemination and Communication report (completed) | PU | M 24 | Electronic document with final updates on dissemination and communication activities developed during the whole project, also publicly downloadable from the project website (English) |

# 7 Conclusions

During the 2-years period of the project, dissemination and communication activities led a strong foundation for visibility and outreach, and the targets of the D& C work in the project have been reached. The project has included a diverse set of outreach activities, focusing on in-person dissemination at academic conferences, but closely linked to social media and other digital activities to reach an even wider audience. These efforts have ensured broad communication, fostered stakeholder engagement and awareness of the Symbio-Steel project, enhanced knowledge and information exchange and encouraged future collaborations between stakeholders as well as the exploitation of the project results.

From the experience of dissemination and communication works, we believe that timely updates and continuous online presence were shown to be important for maintaining visibility and interest. Meanwhile, a multi-modal approach seems to be successful, especially when directly connecting to target audiences. At the same time, in-person communications indicate high efficiency in terms of information exchange, networking and stakeholder engagement. Moreover, the stakeholder contacts database/community contributes significantly to share project outcomes and activities' information, as well as communication and exchange.

After the project, the consortium team will continue to put effort into spreading the project outcomes, encourage future collaborations and possible joint activities related to the advancing of Industrial Symbiosis in the steel sector and support exploitation of the project outcomes.

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# List of Acronyms and Abbreviations

| Abbreviation/Acronym | Description |
|---|---|
| **D & C** | Dissemination and communication |
| **WP** | Work Package |
| **PU** | Public |
| **KPI** | Key Performance Indicator |
| **WS** | Workshop |