
Research Fund for Coal and Steel

Project acronym Waste2CRM**Project title**

Determination of the potential for sourcing critical raw materials from mining wastes, and development the method for their effective recovery

Grant Agreement N° 101157810 — Waste2CRM — RFCS-2023

Deliverable – D1.2

DISSEMINATION, EXPLOITATION AND COMMUNICATION PLAN

Co-funded by
the European Union

Deliverable number – D.1.2	
Due date of deliverable	28 th February 2025
Deliverable responsible partner	GIG-PIB has overall responsibility for the deliverable.
Dissemination level	Open access
Work-package	WP1 – Project Management, Coordination, Dissemination and Exploitation
Task	Task 1.4. Results dissemination.
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Table of contents

TABLE OF CONTENTS	1
1. EXECUTIVE SUMMARY	3
SECTION A: DISSEMINATION PLAN	4
2. DISSEMINATION STRATEGY	4
2.1 Subject of dissemination	5
2.2 Target Audience	5
2.2.1 Dissemination within the Waste2CRM partners (Internal dissemination)	5
2.2.2 Waste2CRM external Stakeholders	6
2.2.3 Dissemination activities timing	7
2.3 Dissemination management	7
2.3.1 Distribution of responsibilities	7
2.3.2 Dissemination policy and rules	8
2.3.3 Dissemination monitoring and reporting	9
2.4 Dissemination basic tools	10
2.4.1 Graphic Identity logo	10
2.4.2 Website	10
2.4.3 Poster	11
2.4.4 Official presentation	11
2.4.5 Social Media	12
2.4.6 Contacts database	12
2.4.7 Press releases	12
2.4.8 Workshop and webinars	12
3. PROJECT COMMUNICATION PLAN	12
3.1 Publication in international peer-reviewed journals and conference proceedings	14
3.2 Participation and presentation to conferences	15

waste2CRM

Determination of the potential for sourcing critical raw materials from mining wastes, and development the method for their effective recovery

3.3	Networking with other EU-funded projects	16
SECTION B: EXPLOITATION PLAN		17
4.	EXPLOITATION PLAN.....	17
4.1	Exploitation results	17
4.2	Exploitation management	17
5.	IPR MANAGEMENT.....	18
5.1	IPR and Strategy for Knowledge Management and Protection	18
5.1.1	Input.....	18
5.1.2	Output.....	18
5.1.3	Access to knowledge.....	18
5.1.4	Open access publications	19

1. Executive Summary

The Waste2CRM dissemination plan is designed to communicate the project's progress and results effectively to a diverse audience, ensuring significant impact and engagement. The primary goals are to raise public awareness, share experiences with similar projects, exploit developed knowledge through various channels, and prepare for the commercial exploitation of project outcomes.

The strategy focuses on disseminating information about the project's scope, research results, and innovations to a range of target audiences, including internal partners, academia, industry, regulatory bodies, and more. It employs various methods, such as websites, social media, publications, and events, to reach these audiences. The dissemination activities are structured across different phases: initial awareness, targeted dissemination, and pre-launch.

Management of the dissemination involves clearly defined responsibilities and adherence to policies that ensure compliance with grant agreements and protection of intellectual property. The plan integrates both internal and external communication efforts, using partners' networks to achieve global reach. Activities include the development of a project website and promotional materials, participation in relevant events, and maintaining a comprehensive contacts database for effective communication campaigns. Through continuous monitoring and reporting, the dissemination plan is kept flexible and responsive, ensuring that activities align with the project's objectives and meet the needs of stakeholders. The report will be updated at the time of the project's mid-term report (M21) and final report (M42).

The two key areas addressed by this deliverable are as follows.

Section A (Dissemination Plan) describes the dissemination measures and activities that are going to be performed. This deliverable aims at the presentation of a suitable dissemination plan for making the project known all over Europe as well as global mining community. The management, as well as the tools and activities, are defined and the partner roles are shown. As the resources dedicated to dissemination are restricted, cost-effective ways are chosen to achieve a maximum of publicity for the project and its results.

Section B (Exploitation Plan) describes the routes for the exploitation of results that project partners have envisioned at the beginning of the project and which are being redefined as the project technically progresses. As the EP will be developed along with the project, this document only contains the general EP strategy which was outlined during the proposal phase.

SECTION A: DISSEMINATION PLAN

2. Dissemination Strategy

The objectives of the dissemination are:

- i. To deliver Waste2CRM's expected results and progress to the defined professional groups using effective communication means and tools;
- ii. To raise public awareness about Waste2CRM;
- iii. To exchange experience with projects and groups working in the fields of circular economy in the mining industry in order to join efforts, minimize duplication and maximize potential;
- iv. To exploit the fundamental knowledge, the methodologies and technologies developed during the project will be exploited also through scientific and educational publication, thematic symposia and workshops for professionals and technicians working in the different fields targeted by the project; educational outreach will also be taken care of through the preparation of lectures on selected contents;
- v. To open the way for future commercial exploitation of the resulting technologies and validated Waste2CRM products.

The dissemination strategy and activities will follow **principles and best practices** successfully tested by the partners in other projects and in line with the EC Guidelines for successful dissemination:

- All research results/reports will be duly reviewed and a copy will be sent to relevant partners involved in the project before these are published or disseminated. When appropriate, the reports will refer to other research projects and build on the existing results and literature.
- The research will be conducted following sound analysis and scientific practice principles, taking into account as much as possible policy requirements and needs.
- All partners who will contribute to the project activities will be duly informed about the outcomes and the implications stemming from project results by the use of the Collaborative Platform.
- All public results will be accessible from the project website and usable by all parties who may benefit from them.

The definition of the dissemination strategy is based on the identification of the following milestones, which are described in the following chapters:

- the subject of dissemination (what will be disseminated),

- the identification of the target audience (who will most benefit from the project results and who would be interested in learning about the project findings),
- the definition of methods and tools (what is the most effective way to reach the target audience),
- the timing (when dissemination will take place),
- the dissemination management and policy (who is responsible for and how dissemination is ruled).

2.1 Subject of dissemination

The following general subjects of dissemination have been identified:

- Waste2CRM project itself (general scope, coverage, goals and milestones and plans to reach them)
- publishable research results (reached objectives and achievements)
- developed techniques and methodologies (in view of pre-industrial research impacts)
- developed tools and technologies (in respect of industrial IPR issues)
- innovation aspects (in an “open innovation” perspective)

2.2 Target Audience

2.2.1 Dissemination within the Waste2CRM partners (Internal dissemination)

Ensuring effective internal communication and dissemination among the Consortium partners represents an important key success element for Waste2CRM.

Partners’ organizations are important for dissemination for two reasons. Firstly, they are potential users of Waste2CRM project results themselves and secondly, they represent “influencers” because of their huge impact on the associated research community and industrial sectors.

This supports broad dissemination to potential customers and scientific dissemination in high impact journals (with a focus on open access) and supports the organisation of workshops or dedicated conference sessions on Waste2CRM results.

The European nature of the Waste2CRM partnership will be exploited in full to gain maximum global reach for dissemination. The status of each international partner is made up as either an industry research centre with direct links to the market, regulatory bodies or research centres with strong international stakeholder networks and nationally-recognised reliable and relevant facilities. Partners’ extensive international network of collaborators, strong links with a wide variety of stakeholders, and extensive experience in method and data dissemination will be used to reach a large international audience for global dissemination.

Methods of internal dissemination will vary from providing links from partners' web pages to the Waste2CRM's website, to seminars or workshops showcasing, to articles in partners' internal newsletters and publications etc. will be extensively promoted and effectively developed in the project Collaborative Platform. The internal communication strategy also pursues the objective to maintain all partners fully informed about planning, work in progress and existing or potential problems.

2.2.2 Waste2CRM external Stakeholders

To structure the external dissemination activities in the dissemination plan and to be able to analyse the impact of dissemination on a comparable basis a more accurate definition of the stakeholder groups:

➤ Academic and research community

All research communities interested in the Waste2CRM project's developments, results and innovation can be beneficiary for their research activities.

➤ The industrial sector, Professional Associations

A major objective of Waste2CRM is to address and trigger the active involvement of industrial and user communities. WASTE2CRM is of utmost relevance for organisations in mining industry sectors, which will be approached individually in the dissemination activities.

➤ EU technology Clusters

This group refers to activities addressing external task forces that can be relevant to Waste2CRM and which will offer a quite big and reusable knowledge base for implementing the Project and solving commonly addressed issues by injecting knowledge and experience on topics such as practices, technologies, platforms, components, standards, etc.

Waste2CRM partners have interesting and significant links with European and international activities:

- Most of the Waste2CRM partners already participated, and currently participate, in EU projects which are related to the Waste2CRM proposal.
- Some Waste2CRM partners are members of international committees/boards of important symposia which can ensure and facilitate the dissemination of Waste2CRM results.
- Finally, many Waste2CRM partners have consolidated pre-existing collaborations with each other (research or industrial), even in funded EU projects. This will certainly strengthen the cooperation within the Waste2CRM proposal which is requested to successfully finalize the project.

At the national level, Waste2CRM Project will be disseminated among:

- All industrial sectors identified,
- Academia,
- Relevant local public bodies, since they are important regulators,
- Relevant professional associations, as they can inform their members and contacts on the Waste2CRM project and its results, being therefore important local influencers.

2.2.3 Dissemination activities timing

The dissemination activities will be performed according to the following logical schedule:

1. Initial awareness phase (month 0-6): this especially includes the establishment of Waste2CRM project website, analysis of relevant information resources, identification of dissemination opportunities and creation of basic dissemination tools including the graphical identity of the project (i.e. project logo, project website, templates for project documents and project presentations), initial drafting of the first training activities to foster initial knowledge exchange.
2. Targeted dissemination phase (month 9-30): the consortium will enrich the website, publish a project poster, issue the first press release and attend selected events. Preliminary project results will be presented to the target audiences.
3. Pre-launch phase (month 30-42): this represents the second period of the project when Waste2CRM consortium partners will deliver the majority of project outputs. This phase will be focused on informing the target audience of the exploitable results.

2.3 Dissemination management

2.3.1 Distribution of responsibilities

According to Article 17 of the Grant Agreement:

“The beneficiaries must disseminate their results, as soon as this is possible, in a publicly available format, subject to any restrictions due to the protection of intellectual property or legitimate interests.

In addition, where the call conditions impose additional dissemination obligations, they must also comply with those.”

The beneficiaries must engage in the following additional communication activities:

present the project (including project summary, coordinator contact details, list of participants, European flag and funding statement and special logo and project results) on the beneficiaries’ **websites or social media accounts**.

Therefore, every possible opportunity will be embraced by individual partners or on a collective basis through a joint appearance by more than one partner to make Waste2CRM known among professionals and the general public as well.

All partners of the consortium must contribute to the dissemination according to their foreseen role and effort and using all available tools, thus for instance by participating and giving presentations at conferences, publishing papers, holding press conferences, networking and similar activities and will strive to maximize the existing dissemination channels for project result adoption and successful future commercialisation of Waste2CRM outputs.

The partners are also widely involved in publishing/serving as editors in global science journals and communication organisations/events. This supports broad scientific dissemination in high impact journals (with a focus on open access) and the reliably successful organisation of workshops or dedicated conference sessions on Waste2CRM results.

The Coordinator is the central contact point for external communication.

Each partner has nominated an internal contact point who is responsible for dissemination issues and reporting.

2.3.2 Dissemination policy and rules

Grant Agreement (GA) Article 17 and internal partners agreement define specific dissemination policy and rules for Waste2CRM.

Subsequent articles regulate the justification of raised objection and on ways to agree on a satisfactory solution for all the Parties.

For the avoidance of doubt, **no Signatory Party shall have the right to publish or allow the publishing of any data which includes Foreground, Background or Confidential Information of another Signatory Party.**

Where publications relate to jointly-developed results, each Signatory Party involved must be asked for its consent to publish and such consent not to be unreasonably withheld, delayed or conditioned.

Besides: **all draft articles must be sent to the project coordinator before publication or production for reporting and archiving purposes.** This will allow checking if they fulfil the dissemination requirements or whether they conflict with other existing papers.

All publications based on work funded by EC within the activities of the Waste2CRM Project will acknowledge their affiliation to Waste2CRM and bear recognition of the EC funding - RFCS.

Communication activities of the beneficiaries related to the action (including media relations, conferences, seminars, information material, such as brochures, leaflets, posters, presentations, etc., in electronic form, via traditional or social media, etc.), dissemination activities and any infrastructure, equipment, vehicles, supplies or major result funded by the grant must acknowledge EU support and display the European flag (emblem) and funding statement (translated into local languages, where appropriate) as specified Grant Agreement (GA) Article 17.

Any communication or dissemination activity related to the action must use factually accurate information.

Moreover, it must indicate the following disclaimer (translated into local languages where appropriate):

“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 [name of the granting authority]. Neither the European Union nor the granting authority can be held responsible for them.”

The project will make a press release when the project launches and also when the project has reached a significant milestone.

Project communications such as project press releases, workshop announcements, websites or brochures will respect the principle of fair visibility. If the logo of any individual beneficiary is included, then the logos of all beneficiaries will be included.

2.3.3 Dissemination monitoring and reporting

All consortium partners are encouraged to report the results of each dissemination activity immediately after they are presented. The reports shall include feedback gathered by the respective partner from the target audience (if applicable), eventually gained contacts to be listed in the contact repository used for further dissemination purposes.

All partners are invited to share the dissemination material (this can be a paper, a conference presentation or the audio file of an interview for example).

For monitoring purposes, the dissemination activities will be reassessed regularly during the project progress meetings.

The information gathered during the entire lasting period will be incorporated into the Waste2CRM website, which includes periodically updated dissemination info on project progress.

The Final Report to be delivered to the EC at the end of the project will include the final compiled information based on the contributions of all partners.

2.4 Dissemination basic tools

2.4.1 Graphic Identity logo

A graphic identity logo has been designed. Its graphics intends to capture the attention of the audience, and it contains the elements to represent the core concepts of the Waste2CRM project.



Figure 2-1: Logo of the Waste2CRM Project

2.4.2 Website

To ensure maximum visibility to the Waste2CRM objectives and results we have set up a project website registered in the project coordinator domain and with an intuitive URL to increase hit rates.

The website can be found in the following URL:

<https://waste2crm.itpe.pl/>

The design of the website builds upon the following criteria and considers suggestions given in the EU Project Websites – Best Practice Guidelines (EC, 2010):

- i. **Visual communication:** use of colours and/or photos, web pages are easy to browse, information is kept short and links are included to websites, publications, and so on.
- ii. **Verbal communication:** the website uses simple phrasing, no jargon is used to attract the widest possible audience, e-devices are user friendly.
- iii. **Visibility:** maximum use of free or affordable methods to increase page ranking on search engines, Webmaster Tools provided by search engines to check indexing status, good crosslinking between the different pages of your site and other sites, adding keywords to the web page metadata; use of frequently used keyword search phrases both in the metadata and in the contents pages.

- iv. **Regular update of contents:** The update will be regularly done upon inputs from the Project coordinator and partners, and the use of social media (e.g., social networks such as LinkedIn and Facebook) has been considered.

The public section of the Waste2CRM website provides:

- a brief overview of the project and further details about its objectives, contents and structure;
- the composition of the project consortium, the links to the partners' websites and the contacts of the people involved in the project;
- access to the project public deliverables and the dissemination material prepared (e.g. leaflets, posters, press release and presentations);
- information about Waste2CRM events, such as Waste2CRM meetings and workshops, as well as conferences and external events where the project will have an active role (e.g. presentation of paper(s), organisation of sessions, stands with demos, etc.).

A well-structured and user-friendly website is essential for a strong online presence. The website has been designed in line with the visual identity of Waste2CRM and is based on the content included in the project proposal.

2.4.3 Poster

A Waste2CRM poster will be developed. It would be available for all partners to display at the event, as a dissemination tool. The main purpose of the poster is to catch the audience attention, thus it will focus on the visual aspects. The content of the poster has to be clear and easily understandable by the target endusers.

From the content point of view, the poster of Waste2CRM will illustrate its objectives and include basic information on the project and the Consortium.

The Waste2CRM official poster will be updated one or two times within the Waste2CRM lifetime if necessary.

2.4.4 Official presentation

A Waste2CRM official slides-presentation has been prepared already during the first months of the project and provided to partners. The Waste2CRM official presentation will not be published on the website, but it will be used as a tool for partners, who will be able to add further slides to the basic general presentation for their specific dissemination uses.

2.4.5 Social Media

Social media tools such as Facebook, LinkedIn or X accounts will be set up, aiming at reaching the audience of professionals, students and young researchers, constantly updated with the latest news from the project.

2.4.6 Contacts database

The project will create and maintain a list of contacts for dissemination and classify them by target group, type of organization and user profile, to allow targeted communication campaigns and support analysis of dissemination results.

2.4.7 Press releases

Press releases will be published along with the life of the project, starting from the beginning. Activities within this topic have already started in relation to an interview about the Project concept and structure. At least 3 press releases is planned to be released during the project.

2.4.8 Workshop and webinars

It is planned to organise 2 workshops (including one meeting for stakeholders) and 3 webinars during the project implementation in order to widely disseminate and promote the project results.

3. Project Communication Plan

The Project Communication Plan (PCP) outlines the communication activities to be performed. The approach is based on the identification of specific communication needs of different user groups, addressing how to maximise awareness of project results among users in each of those groups.

This builds on knowledge acquired by partners' participation in other active EU projects of relevance. In order to ensure that our PCP remains appropriate and effective throughout the lifetime of the project, we will monitor communications reach and evaluate it against our communication objectives. Adaptations and refinements will be made to the PCP as and when necessary to ensure that these objectives are achieved.

The new knowledge arising from Waste2CRM will have to be effectively communicated to industry, regulators and policymakers through appropriate channels and in a timely manner. Communication measures, where necessary, specifically target the broader scientific community and the general public. As such, the planning of the communication

activities reflects the needs and preferences of the target user group(s) in terms of the methods used and the language, style and tone adopted.

The strategy of our PCP is summarized in the following table, where we associate the specific type of message to each stakeholder (Target) group.

Target audience	Why this audience?	Key message(s)
Coal mining industry: 5 coal mining companies - SRK SA, JSW SA, PGG SA, TAURON SA, WĘGŁOKOS SA from POLAND Kozanis' Mining Co G.P. and PPC SA. from Greece	Key players in the coal mining industry are the primary users of Waste2CRM results in order to plan future plants for the recovery of CRM from mining waste dumps and newly created from current production	Identify new collaboration path towards circular economy of coal mining waste. Demonstration of innovative ways for the recovery of CRM from mining waste.
Scientific community	Key players follow up the research	Encourage the continuation of research on that topic and the emergence of new ideas.
Authorities and NGOs	Key player on the regulation topics	Sensitize to the key roles authorities (through regulation) are going to play in coal transition regions especially on the details of estimations the phase-out periods and potential transition towards recycling sector.
General Public	Inform and reach out to society on the coal closure and recovery critical raw materials from coal mining waste in order to broaden their knowledge on the topic and increase acceptance of industrial project on EU territories	Inform and reach out to society on the coal phase-out and recovery critical raw materials from coal mining waste to broaden their knowledge on the topic. Increase acceptability of such project on EU territories. Promote the benefits of the project for citizens.

Table 3-1: Waste2CRM main stakeholders groups

As Waste2CRM is a project co-financed through RFCS, the EU is naturally interested in the project results being disseminated all over Europe, and also globally. Dissemination at the European level will require close interaction with the EC and with European initiatives.

3.1 Publication in international peer-reviewed journals and conference proceedings

The partners will individually and in collaboration publish and present scientific advances in technical papers as well as in journals (peer-reviewed or not) and magazines. Scientific publications are an effective way to disseminate high-level project information and to attract the interest of representatives of the various target groups. Publications in specialised magazines, papers sent to related events will attract the attention of technicians and researchers as well as allow collaborating within the purposes of Waste2CRM. To support this activity, whenever possible, project publications will be archived or linked on the Waste2CRM website. The beneficiaries will encourage “open access” publications for all the other types of scientific publications (some of which may not be peer-reviewed) including monographs, books, conference proceedings and highly specialized branch literature. To comply with the “open access” requirement, the beneficiaries will ensure that their publications can be read online, downloaded and printed. This will be implemented by depositing publications into a repository (online archive) and providing open access to it. The following journals and magazines are especially relevant for the communication strategy of the project, as suggested by all partner of the Waste2CRM consortium, and they will be considered for publications:

Kind of publication	Journal titles
Scientific/Technical Journals:	Journal of Sustainable Mining Archives of Mining Science Environmental Science and Technology Waste management Journal of Cleaner Production International Journal of Coal Processing and Utilization, Industrial Minerals, Minerals Engineering, Resources, Conservation and Recycling, Minerals
Selected Industry Magazines	TG Magazine

Table 3-2: WASTE2CRM target publications

3.2 Participation and presentation to conferences

Waste2CRM promotes oral and poster presentations at scientific conferences targeting relevant domains for the project. The impact of presentations at this kind of events is very high because of the attendance of scientists and industrial experts. National and international conferences are an excellent opportunity to share the results with experts in the field and, therefore, to achieve effective dissemination of the project.

Workshops, meetings and other large events (exhibitions, trade fairs, showcases) represent relevant opportunities for dissemination.

Partners will participate in at least 3 international conferences in the field.

The following events are especially relevant for the communication strategy of the project.

Kind of event	Event titles
Relevant Congresses, Conferences and events	Mineral Engineering Conference Annual Mineral Resources & Energy Congress (SEP) Annual Mining Natural Hazards Conference (GZN) Periodic World Mining Congress Conferences International Mineral Processing Congress, RawMaterials Summit, TMS, Mineral Engineering Conference etc.
Relevant fairs	Periodic World Mining Congress Exhibition

Table 3-3: WASTE2CRM target conferences and events

3.3 Networking with other EU-funded projects

A number of national or international research and innovation activities are linked to the project and their outputs feed into the project:

Waste2CRM will seek opportunities for exchange of scientific knowledge and dissemination activities with other EU-funded projects, such as:

ACRONYM	Website	Relevance to WASTE2CRM
OPTIMINER	-	The problem addressed by the OPTIMINER project is multi-faceted and significant in the European context. Europe's mining industry is grappling with the pressing need to efficiently and sustainably recover CRMs from increasingly complex and low-grade ores. One of the project pillars is REMINER. REMINER focuses on advanced technologies for efficient CRM recovery. These include smart ore sorters, membrane-based hydrometallurgical processes, bioleaching, and phytomining. They will comprise a marketplace of technologies that will be offered to the extractive industry through an innovative AI-enabled CRM Recovery Selector.
MASTERMINE	https://www.mastermine-project.eu/	MASTERMINE aspires to become the go-to ecosystem for mines that envision digitalisation, environmental sustainability, productivity monitoring and public acceptance within their strategic goals. One of the main pillars of the project is GREENMINE that addresses waste and water management , through raw material and water recovery from wastewater and ore sorting during magnesite ore processing, monitors air quality (e.g. intelligent methane drainage system for coking coal mines) and introduces solutions for energy and load optimisation.

Table 3-4: EU projects for networking activity with WASTE2CRM

SECTION B: EXPLOITATION PLAN

4. Exploitation Plan

4.1 Exploitation results

Waste2CRM foresees the production of following Key Exploitable Results:

Key exploitable results	Potential users	Owners	Routes to exploitation	Proposed IPR tool
The Concept of efficient technical&technological project	Coal mining, companies recovering raw materials	ITPE, GIG, IMN	Technology transfer, licensing	Patent, licensing to interested companies, the participation of individual project partners will be determined based on their actual contribution to the developed technology
Database and Mapping the location and properties of waste deposited	Coal mining, Local and regional environmental authorities, Enterprises and public authorities, Scientific community	Project Partners	Open data	Scientific publications
Guide to "good practices"	Coal mining, Local and regional environmental authorities, Enterprises and public authorities, Scientific community	Project Partners	Open data	Scientific publications

Table 4-1: Key Exploitable Results of WASTE2CRM

4.2 Exploitation management

According to “Annex 5, Article16, “Exploitation of results” of the Grant Agreement: Beneficiaries must — up to four years after the end of the action (see Data Sheet, Point 1) —use their best efforts to exploit their results (or to have them exploited by another legal entity, in particular through transfer or licensing).

WASTE2CRM is structured to ensure effective exploitation. All results will be adequately transferred to enable their use beyond the lifetime of the project, using the dissemination and communication tools identified in the dissemination plan.

5. IPR management

In terms of the project IPR, we follow the standard Grant Agreement general rules (Articles 16 and 17) for background and foreground IP. We are conscious that we need to follow the general rules for dissemination of the foreground, and make sure that this dissemination must not interfere with the IP protection actions that the partners shall take. The partners' intentions to exploit the project results are implicitly incorporated in the "Dissemination Plan"

5.1 IPR and Strategy for Knowledge Management and Protection

To safeguard project Intellectual Property Rights, without decreasing the impact of the project results within the wider community, it is important to find the right balance between public information and private information – both as inputs to the project and that disseminated or for later reuse. Thus, as part of the project, the knowledge produced will be continually tracked and registered to the respective owner.

5.1.1 Input

On input knowledge provided to the project, the consortium partners will ensure that all existing knowledge that is required for proper execution of WASTE2CRM, will become available to all relevant partners.

5.1.2 Output

Concerning output generated by the project IPRs on the results of the project will be in alignment with the policies and context for EU funded projects. When needed it will be specified on separated agreement how and under which terms and conditions partners get access to existing and created IP owned and generated by other partners. The agreements will also specify the terms and conditions of access to such IP in the case of exploitation beyond the scope and duration of the project.

5.1.3 Access to knowledge

The main interface for external knowledge access, will primarily be achieved through the project website which will contain an open project area that is available to everybody. The primary goal is to inform about the project, and to disseminate research results. It will give access to a section where deliverables can be downloaded. Furthermore, for the internal (within the Consortium) access to knowledge, a closed, cloudbased, project area is created within the Waste2CRM project website. This is only available to Consortium Partners. It will contain the deliverables, the working documents, a contact list, an internal project calendar (includes planning) and functionalities to post, read and download documents.

5.1.4 Open access publications

For maximizing the potential impact of the project's activities, the consortium will publish its research outcomes in conference papers, journals and/or book chapters. The consortium is convinced that an open strategy will help not only other projects to benefit from the results of Waste2CRM but also lead to a better exchange with others which will in return benefit the project. As such, the project commits to explore possibilities for Open Access approach for its scientific publications.