

**Recycling carbon dioxide in the cement industry to produce added-value additives: a step towards a CO<sub>2</sub> circular economy**

# **Deliverable D8.4**

## **Dissemination Plan Update**

WP 8 – Dissemination, communication, training & education

Version 1.0

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**Dissemination level:** Public

**Type:** Report




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## Revision History

| Author Name,<br>Partner short name  | Description       | Date         |
|-------------------------------------|-------------------|--------------|
| G. Traverso, IIT                    | Draft deliverable | January 2019 |
| S.Bocchini, IIT<br>S.Hernandez, IIT | Extra inputs      | 28/01/2019   |
| P.Pescarmona, RUG                   | Reviewed version  | 08/02/2109   |
| G.Traverso,IIT                      | Final version     | 11/02/2019   |

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## 1 Aim of the document and overview of the progress

This document is meant to provide a report on communication, dissemination and Exploitation activities of the RECODE project and to detail the further steps to be taken with respect to these aspects. The report refers to the first year and a half of the project: from August 2017 to January 2018. The present document includes statistics on the reaching potential of the project information by far. It shows also a spreadsheet that collects details regarding the articles news and events where the Project concept and partial results have been shared.

Communication has been conducted mainly through the website ([www.andy-project.eu](http://www.andy-project.eu)) and social media channels (e.g. Twitter), while Dissemination had a more target-specific focus and developed through conference and event participation.

## 2 Communication


Since the beginning of the project RECODE, communication activities aimed to raise awareness among the general public about the project main goals and the allover approach which is leading RECODE research. The key messages have pivoted around general ideas as: Environment preservation, circular economy, carbon emission reduction, alternative fuels, and innovative raw materials.

The activities followed the communication plan and were mainly conducted by IIT, with the occasional participation of the other partners. The partners were encouraged to communicate project activities towards the general public, either via general events (e.g.: European CCS Forum, European Researchers' Night) or social media channels.

It was acknowledge by the coordinator that the inputs from partners shall be required and do not come spontaneously. This critical aspect will be addressed with ad hoc guidelines and measures in the next year.

Current results are still limited but improving:

1. In 18 months RECODE news coverage counted around 20 news, mainly on local or regional magazines.
2. The website was published at the beginning of the project and is periodically updated with news and results.
3. The graphics for a visual identity was realized by IIT and it comprises: logo, leaflet and poster, ppt slides for presentations.
4. RECODE Twitter account has 50 followers and reached more than 25.000 people.

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## 2.1 Project Website

The Project website was online in October 2017 (M3) and is hosted by IIT servers. Its structure is fully described in Deliverable D8.3.

The general structure and content of the Website did not change so far, apart for some specific sections, as described below.

The “News and Gallery” Section is divided in two sub-sections: the “News” has been periodically updated thanks to its automatic link with the Twitter account and with few extra news. The “Gallery” was revised by adding photos and pictures taken during the meetings. This section also hosts some photos of the Titan Cement-Kamari plant that will host the pilot site.

The site also shows the RECODE “Results” that can be communicated. Due to confidentiality reasons, the availability of material has been negligible. Nevertheless, all the Open Access deliverables are accessible in the “Deliverables and publications” area.

In the upcoming months, the other sections will be updated along with the dissemination and disclosure of the RECODE results, both partial and complete. In addition, every new Open Access deliverables and document will be made fully available.

Moreover, as the project progresses, all the beneficiaries will increase their participation to events, conferences and workshops. Their feedbacks and updates will be used as base to improve not only the research itself, but also the communication messages present in the website.


## 2.2 Twitter account

Social media are useful to create an online community interested in the project, both in terms of scientific results and research life. The main goal of RECODE Twitter account was, therefore, to tell people about RECODE project by showing its interdisciplinary and international consortium, mainly composed by young researchers, and its activities. Posts were mostly related to:

- Lab life: group pictures from labs and from WP meetings;
- News or retweets of interest for Recode or connected to RECODE threads

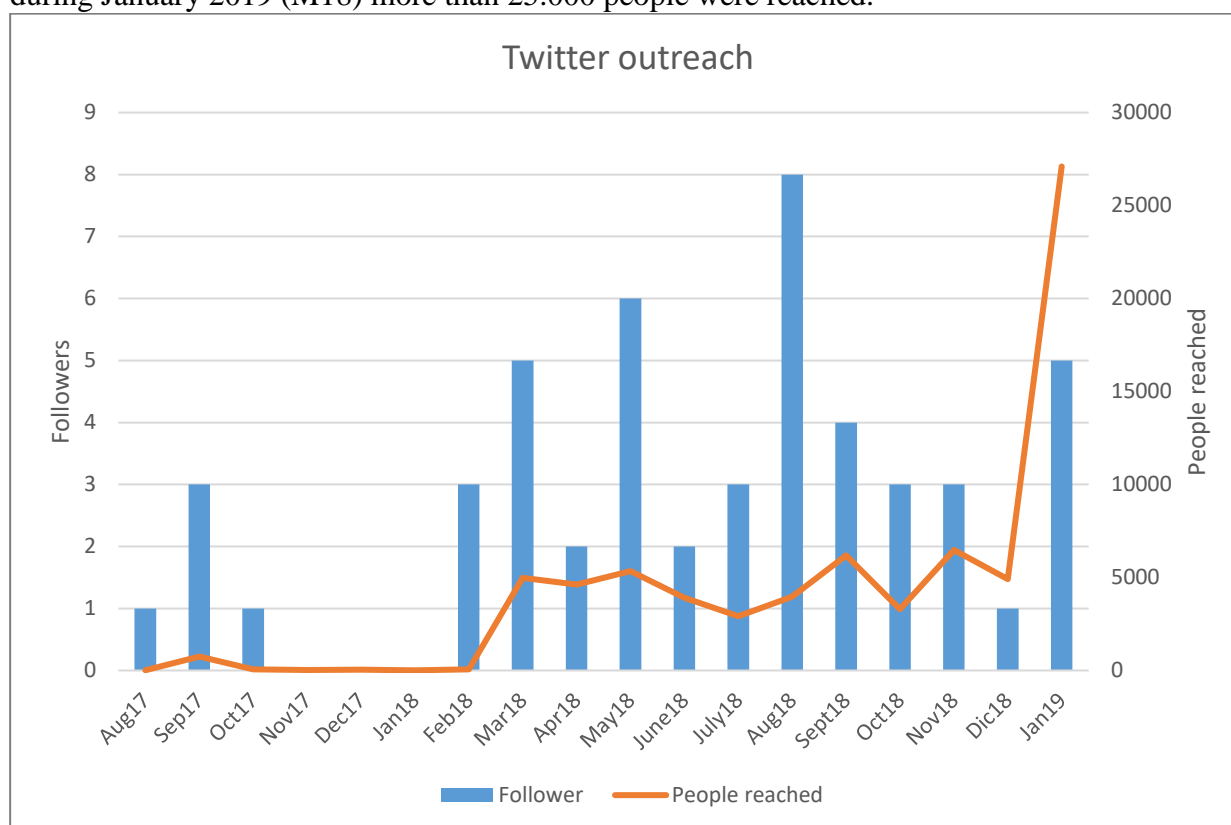
The new twitters will keep up with the aim to create awareness regarding the projects, but tweets will increasingly regard also:

- Research results: with posters, publications and video of demo;
- Events: announcements related to conferences, participation of public events, and live twitting
- News: extracts from newspapers, magazines and TV shows showing RECODE Progress.

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RECODE Twitter account was opened in October 2017 and it is managed by IIT; it is taken care of by the RECODE Coordinator with the support and inputs by researchers. Neither members owning private accounts nor institutional profiles have been very involved in the communication actions so far, still a strong incentive on using side accounts will be given by the coordinator.

The RECODE Twitter page counts 50 followers, but despite the limited number, it reached an average of 5000 people. Nevertheless, encouraging results have been achieved recently as during January 2019 (M18) more than 25.000 people were reached.




## 2.3 Press and News

### 2.3.1 State of the art

During the first 18 months of the RECODE project, only a limited number of press releases and news was issued.

A press release was realized by IIT, translated and was presented at the Italian Institute of Technology center in Torino. It informed the public about European Commission funding and presented the main goals of the project. The coverage was mainly local (Piedmont region) and national, by magazines and newspapers. The news circulated are written in Italian.

Another initiative was led by the Industry Relations office of the University of Groningen (RUG) (<https://www.rug.nl/society-business/industry-relations/> in Dutch), which conducted a survey

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regarding important research projects connected to the topics of Circular Economy and Sustainability, in which the University of Groningen is involved together with companies and institutes. RECODE fitted very well in this context.

| Type        | Country | Newspaper                             | Title  |
|-------------|---------|---------------------------------------|--|
| News        | IT      | Repubblica Torino                     | Envipark, dove le aziende lavorano alla sostenibilità  |
| News online | IT      | e-gazette.it                          | La CO <sub>2</sub> diventa un additivo per il cemento: al via un progetto a Torino   |
| News        | IT      | Corriere Torino                       | A Envi Park il centro delle tecnologie green   |
| News        | IT      | Giornale del Piemonte e della Liguria | Inaugurati 1100 metri quadri per la ricerca sull'economia «green»  |
| News online | IT      | lastampa.it                           | L'Environment Park si rinnova: progetti e laboratori per il futuro dell'economia green   |
| News online | IT      | ansa.it                               | CO <sub>2</sub> additivo cemento, progetto a Torino  |
| News online | IT      | ansa.it                               | La CO <sub>2</sub> diventa additivo per cemento, al via progetto a Torino  |
| Video news  | IT      | ecodallecitta.it                      | Centre for Sustainable Future Technologies, nasce a Torino il nuovo centro di ricerca per le tecnologie sostenibili   VIDEO(         |
| News online | IT      | gassinotorinese.virgilio.it           | CO <sub>2</sub> additivo cemento, progetto a Torino  |
| News online | IT      | notizie.tiscali.it                    | CO <sub>2</sub> additivo cemento, progetto a Torino  |
| News online | IT      | quotidianopiemontese.it               | Istituto Italiano di Tecnologia, Environment Park e Politecnico: nasce a Torino il nuovo centro per le tecnologie future sostenibili |
| News online | IT      | torinoggi.it                          | Il futuro dell'economia green prende casa a Envipark, grazie a IIT e Politecnico   |
| News online | IT      | alternativasostenibile.it             | Environment Park di Torino: positivo il bilancio 2017 e al via nuovi progetti eco-sostenibili  |
|             | ND      | RUG Industry Relations office-        |  |

### 2.3.2 Future Press releases and news letters

During the following 18 months, the consortium will try to release a piece for each partner. The news of broader interest will be translated into different languages, and shared by the other partners on their institutional sites.

Besides project scientific goals, news will cover also the stories of RECODE researchers and their vision about the future development of the project and circular economy.

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News will provide also insights and feedback on the International conferences

### 3 Dissemination

Researchers participated to events targeted to the general public, industry, customers and policy makers. Events were located all around Europe.

| Title  | Date             | Place                      | Target                         | Estimate size |
|--|------------------|----------------------------|--------------------------------|---------------|
| Nanoinnovation2017   | 27Sept2017       | Rome                       | Scientific Community           | >1000         |
| Industrial leadership (leit) part under Horizon 2020: nanotechnologies, advanced materials, biotechnology and advanced manufacturing & processing“ organized by Lithuanian Agency for Science, Innovation and Technology | 09Nov2017        | Brussels                   | Policy makers                  | 50-100        |
| "P4P validation workshop ""Low Carbon Process Industries through Energy Efficiency and Carbon Capture & Utilisation  | 06Nov2018        | Vilnius                    | Other                          | 50            |
| Forum on Smart Energy Carriers for Distributed Energy Production   | 22-23 March 2018 | Belgrade, Serbia           | Scientific Community           | 30            |
| The 2nd Advances in Green Chemistry Conference, AGChem 2018  | 16-19April 2018  | Poznan, Poland             | Industry<br>Research Community | 60            |
| Student approach to nanocatalysis  | May 2018         | Messina                    | Civil Society                  | 30            |
| ACHEMA 2018  | 11-15June2018    | Frankfurt am Main, Germany | Industry                       | >500          |
| 15th International conference on nanosciences and nanotechnologies (NN18)  | 3-6 July 2018    | Thesaloniki, Greece        | Scientific Community           | 500           |
| "SPIRE projects on the utilisation of CO2 and CO" in the context of Raw Materials week   | 12 Nov2018       | Brussels, Belgium          | Industry, Scientific Community | >250          |
| Merck – Elsevier Young Chemist Symposium 2018  | 19Nov2018        | Rimini ,Italy              | Scientific Community           | 500           |
| 69th ISE conference  | 2-7Sept 2018     | Bologna, Italy             | Scientific Community           | >500          |




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| GRICU 2018 PhD National School - Pisa May 2018.             | 16-19 May 2018 | Pisa, Italy        | Scientific Community | >250 |
| Phoenix Initiative (European Industry Stakeholder Workshop, | 22Mar 2018     | Frankfurt, Germany | Industry             | 150  |
|   |                |                    |                      |      |
|   |                |                    |                      |      |

### 3.1 Targets

| Type                        | Description   | Involvement up to date   |
|-----------------------------|---|--|
| Industry and/or commercial  | <ul style="list-style-type: none"> <li>European industry <ul style="list-style-type: none"> <li>Cement industry</li> <li>European chemical and energy industry</li> <li>Biogas industry</li> </ul> </li> <li>Industrial Associations and other entities operating at EU and national level, such as: <ul style="list-style-type: none"> <li>CEMBUREAU (European cement association),</li> <li>European Chemical Industrial Council (CEFIC)</li> </ul> </li> </ul> | The Industrial representatives have been addressed through participation to dedicated conferences and events specifically focused at innovation and new technologies targeted to Industry or innovators.   |
|                             | <u>Future targets</u> <ul style="list-style-type: none"> <li>Mineral/Fillers industries</li> <li>Others as relevant</li> <li>Financial institutions</li> <li>CONCAWE (Environmental Science for Refining industries)</li> <li>EFCA (European Federation of Concrete Admixture Associations)</li> </ul>  | Future aims: RECODE partners will work at organizing short demos, workshops and site visits aimed at raising the interest of industries in order to encourage future take-ups.<br>Key messages<br>1. RECODE Process and results are recommended by trusted peers, backed by proven results<br>2. Products can reduce cost, enhance environmental preservation, offer better performance (added value CO <sub>2</sub> ) |
| Policy making/institutional | <ul style="list-style-type: none"> <li>Institutional and political entities at EU level: <ul style="list-style-type: none"> <li>European Commission (DG Energy), SPIRE PPP etc</li> </ul> </li> <li>Clean Technology Clusters, etc.</li> </ul>  | The RECODE project has been involved in the Raw Material week organized by the EC. More specifically the event was aimed at targeting SPIRE Community. RECODE partners have strengthened the network around the project with a special focus on SPIRE participants.  |

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|  | <u>Future targets</u> <ul style="list-style-type: none"> <li>• Institutional/political entities at national/regional level: <ul style="list-style-type: none"> <li>- National governments, line ministries (e.g. industry, environment, etc)</li> </ul> </li> <li>• Regional governments, Research Energy clusters, Lobby associations</li> </ul> | Future aims: provided the upcoming technical and scientific results, but also thanks to the network that the RECODE consortium is building, it will be possible to steer regional governments or clusters to adopt or to promote several of the outcomes of these projects. |
| <b>Research and scientific community</b>                     | <ul style="list-style-type: none"> <li>• Universities</li> <li>• Research centers</li> <li>• Research alliances/networks: <ul style="list-style-type: none"> <li>- The European Cluster on Catalysis</li> <li>- Others</li> </ul> </li> </ul>   | Dissemination of RECODE results via conferences and workshops (PPTs & poster submissions)<br>Future aims: Educate and train researchers and engineers on the effective implementation processes similar to RECODE<br>Provide research recommendations                       |
|  | <u>Future targets</u> <ul style="list-style-type: none"> <li>• Research alliances/networks: <ul style="list-style-type: none"> <li>- EERA</li> <li>- ECRA</li> </ul> </li> </ul>  |   |
| <b>Entities involved in related projects and initiatives</b> | <ul style="list-style-type: none"> <li>• Consortium closed and ongoing relevant projects</li> <li>• Related external projects</li> <li>• EU wide initiatives</li> </ul>   | RECODE consortium has established connections with several other EU projects. RECODE is working to organize a common summer School involving other 5 projects (see Sect 4.3.1)  |
| <b>Civil society</b>   | <ul style="list-style-type: none"> <li>• Non-profit organisations and foundations, such as: <ul style="list-style-type: none"> <li>- Green/Environmental associations: SUSCHEM, ZERI, Legambiente (Italy), etc.</li> <li>- Others</li> </ul> </li> </ul>  | Environmental associations have been addressed thanks to events and social media action.  |
| <b>General public</b>  | <ul style="list-style-type: none"> <li>• EU citizens and beyond</li> </ul>  | General Public was involved mostly thanks to Social Media (Twitter)   |


### 3.2 Key messages

Consistently with the RECODE objectives, expected impact and technological challenges, the following key messages were identified:

- RECODE boosts circular economy
- RECODE: a step towards circular economy
- RECODE: contributing towards a sustainable future

In order to facilitate and support the present research development and to introduce the impacts aimed at in the work plan, tailored threads of discussion have been selected:

- CO<sub>2</sub> Absorption activities

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- Electrochemical activities
- Chemical conversion activities
- Compression of CO<sub>2</sub>
- Simulations

Despite the specificity of these topics, RECODE Consortium reckons that a parallel use of common language and jargon will be a good balance in order to meet the particular aim and audience of the activities.

### 3.3 Future dissemination milestones

Future dissemination milestones are here defined. These will be considered by the Consortium as specific objectives to be developed in parallel to scientific milestones:

- 1) **First dissemination milestone.** During the second year of the project, the RECODE process processes and preliminary results will be presented at international Bioeconomy and green-chemistry exposition (e.g. International Symposium on Green Chemistry (ISGC), AICHEMA tradeshow).
- 2) **Second dissemination milestone.** Approximately, at end of the second year of the project, Presentation Video (details in Sect. 4.3.4) shall be ready and it will be circulated both via Social media and fairs or exhibitions. The quantitative target RECODE aims is to reach 5000 views by one year after the release of the video.
- 3) **Third dissemination milestone.** Approximately, during the fourth year of the project, either the different RECODE processes and a DEMO campaign will be shown at an international fair or congress on Circular economy and CO<sub>2</sub> utilization (CCU).
- 4) **Fourth dissemination milestone.** Approximately, during the fourth year of the project, a visit to the RECODE Plant shall be organized for stakeholders and primary users.


## 4 Activities

### 4.1 Publications

The most common and efficient method to disseminate project results to the scientific community are publications. These usually have the purpose to presenting the project in major scientific journals and describing its results.


During the early stage of the project, the RECODE Consortium presented a preliminary analysis of target papers, identified target journals, Open access compliance and interested partners.

In the submission phase, priority will be given to journals with higher journal impact factor and open access (OA) journals. Gold OA will be preferred to ensure higher visibility but green OA

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will also be considered. Publications will be tracked on the project's website and made available according to the open access rules.


All the publications will be subject to the Consortium Agreement. Specifically they all will include the Project and EU funding Disclaimer. In fact, once the DOI is assigned to the publication this shall automatically upload on the portal.

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In the next 18 months, RECODE Consortium plans to distribute at least 10 publications. These will focus on scientific results and on preliminary technical/integrated results. Among the possible subjects, we foresee material synthesis, material characterization, material performance and

| Journal/Paper                                   | Partner |        |         |         |         |        |           |        |        |         |         |         |           | Editor                              | Journal Impact Factor (2016) | ISSN      | Open access  |   |  |
|---|---------|--------|---------|---------|---------|--------|-----------|--------|--------|---------|---------|---------|-----------|-------------------------------------|------------------------------|-----------|--------------|---|--|
|   | 1. IIT  | 2. AVT | 3. CETH | 4. ERIC | 5. DVGW | 6. KIT | 7. POLITO | 8. RUG | 9. HST | 10. IOL | 11. MET | 12. MTM | 13. TITAN |                                     |                              |           | RoMEO colour | Version   | (*) Embargo (highlighted: non EU compliance) |
| Chemical Communication                          | ✓       |        |         |         |         |        |           |        |        |         |         |         |           | ROYAL SOC CHEMISTRY                 | 6,319                        | 1359-7345 | Yellow       | • Author - pre-print<br>• Author - post-print (*) | 12 m   |
| Chemical Engineering Journal                    | ✓       |        | ✓       |         |         |        |           |        |        |         |         |         |           | ELSEVIER SCIENCE SA                 | 6,216                        | 1385-8947 | Green        | • Author - pre-print<br>• Author - post-print     |  |
| ChemSusChem                                     | ✓       |        |         | ✓       |         |        |           | ✓      |        |         |         |         |           | WILEY-V C H VERLAG GMBH             | 7,226                        | 1864-5631 | Yellow       | • Author - pre-print<br>• Author - post-print (*) | 12 m   |
| Energy Environment Science                      | ✓       |        |         |         |         |        |           |        |        |         |         |         |           | ROYAL SOC CHEMISTRY                 | 29,518                       | 1754-5692 | Yellow       | • Author - pre-print<br>• Author - post-print (*) | 12 m   |
| Green Chemistry                                 |         |        |         | ✓       |         |        |           | ✓      |        |         |         |         |           | ROYAL SOC CHEMISTRY                 | 9,125                        | 1463-9262 | Yellow       | • Author - pre-print<br>• Author - post-print (*) | 12 m   |
| Journal of Catalysis                            |         |        |         | ✓       |         |        |           | ✓      |        |         |         |         |           | ACADEMIC PRESS INC ELSEVIER SCIENCE | 6,884                        | 0021-9517 | Green        | • Author - pre-print<br>• Author - post-print     |  |
| ACS Catalysis                                   |         |        |         | ✓       |         |        |           | ✓      |        |         |         |         |           | AMER CHEMICAL SOC                   | 10,614                       | 2155-5435 | White        | • Author - pre-print<br>• Author - post-print     |  |
| Appl. Catalysis B Environmental                 |         |        |         | ✓       |         |        |           | ✓      |        |         |         |         |           | ELSEVIER SCIENCE BV                 | 9,446                        | 0926-3373 | Green        | • Author - pre-print<br>• Author - post-print     |  |
| Separation and Purification Technology          |         |        |         |         | ✓       |        |           |        |        |         |         |         |           | ELSEVIER SCIENCE BV                 | 3,359                        | 1383-5866 | Green        | • Author - pre-print<br>• Author - post-print     |  |
| Fuel  |         |        |         |         | ✓       |        |           |        |        |         |         |         |           | ELSEVIER SCI LTD                    | 4,601                        | 0016-2361 | Green        | • Author - pre-print<br>• Author - post-print     |  |
| Cement and Concrete Research                    |         |        |         |         |         |        | ✓         |        |        |         |         |         | ✓         | PERGAMON-ELSEVIER SCIENCE           | 4,762                        | 0008-8846 | Green        | • Author - pre-print<br>• Author - post-print     |  |
| Construction and Building Materials             |         |        |         |         |         |        | ✓         |        |        |         |         |         |           | ELSEVIER SCI LTD                    | 3,169                        | 0950-0618 | Green        | • Author - pre-print<br>• Author - post-print     |  |
| Materials&Design                                |         |        |         |         |         |        | ✓         |        |        |         |         |         |           | ELSEVIER SCI LTD                    | 4,364                        | 0264-1275 | Green        | • Author - pre-print<br>• Author - post-print     |  |
| Advanced functional materials                   |         |        |         |         |         |        | ✓         |        |        |         |         |         |           | WILEY-V C H VERLAG GMBH             | 12,124                       | 1616-301X | Yellow       | • Author - pre-print<br>• Author - post-print (*) | 12 m   |
| Chemical Engineering Science                    |         |        | ✓       |         |         |        | ✓         |        |        |         |         |         |           | PERGAMON-ELSEVIER SCIENCE LTD       | 2,895                        | 0009-2509 | Green        | • Author - pre-print<br>• Author - post-print     |  |
| Chemical Engineering Journal                    |         |        | ✓       |         |         |        | ✓         |        |        |         |         |         |           | ELSEVIER SCIENCE SA                 | 6,216                        | 1385-8947 | Green        | • Author - pre-print<br>• Author - post-print     |  |
| Catalysis Science & Technology                  |         |        |         |         |         |        |           | ✓      |        |         |         |         |           | ROYAL SOC CHEMISTRY                 | 5,773                        | 2044-4753 | Yellow       | • Author - pre-print<br>• Author - post-print (*) | 12 m   |
| ChemElectroChem                                 |         |        |         |         |         |        |           | ✓      |        |         |         |         |           | WILEY-V C H VERLAG GMBH             | 4,136                        | 2196-0216 | Yellow       | • Author - pre-print<br>• Author - post-print (*) | 12 m   |
| Journal of CO2 Utilization                      |         |        |         |         |         |        |           |        |        |         |         | ✓       |           | ELSEVIER SCI LTD                    | 4,292                        | 2212-9820 | n/a          |   |  |
| Environmental Science & Technology              |         |        |         |         |         |        |           |        |        |         |         | ✓       |           | AMER CHEMICAL SOC                   | 6,198                        | 0013-936X | White        | • Author - pre-print<br>• Author - post-print     |  |
| Chemical Engineering Research and Design        |         |        | ✓       |         |         |        |           |        |        |         |         |         |           | INST CHEMICAL ENGINEERS             | 2,538                        | 0263-8762 | Green        | • Author - pre-print<br>• Author - post-print     |  |
| Energy  |         |        |         |         |         | ✓      |           |        |        |         |         |         |           | PERGAMON-ELSEVIER SCIENCE LTD       | 4,52                         | 0360-5442 | Green        | • Author - pre-print<br>• Author - post-print     |  |
| Applied Energy                                  |         |        |         |         |         | ✓      |           |        |        |         |         |         |           | ELSEVIER SCI LTD                    | 7,182                        | 0306-2619 | Green        | • Author - pre-print<br>• Author - post-print     |  |
| International Journal of Multiphase Flow        |         |        |         |         |         | ✓      |           |        |        |         |         |         |           | PERGAMON-ELSEVIER SCIENCE LTD       | 4,52                         | 0360-5442 | Green        | • Author - pre-print<br>• Author - post-print     |  |
| International Journal of Heat and Mass Transfer |         |        |         |         |         | ✓      |           |        |        |         |         |         |           | PERGAMON-ELSEVIER SCIENCE LTD       | 3,458                        | 0017-9310 | Green        | • Author - pre-print<br>• Author - post-print     |  |

toxicology. Error! Reference source not found. papers


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## 4.2 Scientific events

As for journals, a preliminary analysis of target events, expected contribution and related timeline and partners in charge has been performed (see **Error! Reference source not found.**) the Coordinator will periodically update the table with precise dates and additional event( if applicable).

Table2: Scientific events identified

| Event title   | Expected timeline<br>(underlined: EU located events,<br>highlighted: events held/approved) |      |      | Partner |        |         |         |         |        |           |        |        |         |         |         |           | Field  | Scope<br>(International,<br>European,<br>national, local) | Website   |
|---|--|------|------|---------|--------|---------|---------|---------|--------|-----------|--------|--------|---------|---------|---------|-----------|--|---|---|
|   | 2019   | 2020 | 2021 | 1. IIT  | 2. AVT | 3. CETH | 4. ERIC | 5. DVGW | 6. KIT | 7. POLITO | 8. RUG | 9. IHT | 10. IOL | 11. MET | 12. MTM | 13. TITAN |  |   |   |
| Carbon Dioxide Utilisation Summit   | 27-28 February, Houston  |      |      |         | ✓      |         |         |         |        |           |        |        |         |         |         |           | Chemistry & other                                      | International   | <a href="http://www.wplgroup.com/aci/event/co2-us/">http://www.wplgroup.com/aci/event/co2-us/</a>   |
| Congresso Nazionale della Società Chimica Italiana  | tbd  |      |      | ✓       |        |         |         |         |        |           |        |        |         |         |         |           | Chemistry (General)                                    | International   | <a href="http://sci2017.org/">http://sci2017.org/</a>   |
| IUPAC congress  | 5 - 12 Jul.  |      | tbd  | ✓       |        |         |         |         |        |           |        |        |         |         |         |           | Chemistry (General)                                    | International   | <a href="https://iupac.org/event/iupac-2019-paris-france/">https://iupac.org/event/iupac-2019-paris-france/</a>   |
| Nanoinnovation  | 11-14th June, Rome   | tbd  | tbd  | ✓       |        |         |         |         |        |           |        |        |         |         |         |           | Science/Technology                                     | International   | <a href="http://www.nanoinnovation.eu/2017/">http://www.nanoinnovation.eu/2017/</a>   |
| European biomass conference and exhibition (EUBCE)  | 27-30 May - Lisbon   | tbd  | tbd  |         |        |         |         | ✓       |        |           |        |        |         |         |         |           | Biomass and Energy                                     | International   | <a href="http://www.eubce.com/home.html">http://www.eubce.com/home.html</a>   |
| IA-FramCoS : International Association of Fracture Mechanics for Concrete and Concrete Structures | 24-26 June, Bayonne, France  |      |      |         |        |         |         |         |        | ✓         |        |        |         |         |         |           | Fracture Mechanics of Concrete and Concrete Structures | International   | <a href="https://framcos-x.sciencesconf.org/">https://framcos-x.sciencesconf.org/</a>   |
| EuropaCat   | 18 - 23 Aug  |      |      |         |        |         |         |         |        |           | ✓      |        |         |         |         |           | Chemistry and Chemical Engineering                     | European  | <a href="http://europacat2019.eu/">http://europacat2019.eu/</a>   |
| Netherlands' Catalysis and Chemistry Conference (NCCC)  | March 4-6 2019 in Noordwijk  |      |      |         |        |         |         |         |        |           | ✓      |        |         |         |         |           | Chemistry and Chemical Engineering                     | European  | <a href="https://n3c.nl/">https://n3c.nl/</a>   |
| International Symposium on Green Chemistry (ISGC)   | 13-17 May  |      | tbd  |         |        |         |         |         |        |           | ✓      |        |         |         |         |           | Chemistry and Chemical Engineering                     | International   | <a href="https://www.isgc-symposium.com/">https://www.isgc-symposium.com/</a>   |
| ISE meetings  | 7 - 10 April, 12 - 15 May  |      |      |         |        |         |         |         |        |           | ✓      |        |         |         |         |           | Chemistry and Chemical Engineering                     | International   | <a href="http://www.ise-online.org/ise-conferences/next_ISE-meetings.php">http://www.ise-online.org/ise-conferences/next_ISE-meetings.php</a>   |
| COIL 8  |  |      |      |         |        |         |         |         |        |           |        |        | ✓       |         |         |           | Ionic liquids  | International   | <a href="http://www.engconf.org/conferences/chemical-engineering/conference-on-ionic-liquids-coil/">http://www.engconf.org/conferences/chemical-engineering/conference-on-ionic-liquids-coil/</a>               |
| 8th EuCheMS Chemistry Congress  | 30Aug2020 - 03Sept20   |      |      |         |        |         |         |         |        | ✓         |        |        |         |         |         |           | Molecular frontiers & global challenges                | International   | <a href="https://www.euchems2018.org/">https://www.euchems2018.org/</a>   |
| World Polymer Congress - Macro 2018   | 5-9 July, Jeju, Island   |      |      |         |        |         |         |         |        | ✓         |        |        |         |         |         |           | Polymeric materials                                    | International   | <a href="https://iupac.org/event/48th-world-polymer-congress-macro2020/">https://iupac.org/event/48th-world-polymer-congress-macro2020/</a>   |
| 12th EUROPEAN CONGRESS OF CHEMICAL ENGINEERING 5th EUROPEAN CONGRESS OF APPLIED BIOTECHNOLOGY     | 15-19 September, 2019 - March 31, 2019   |      |      |         |        |         |         |         |        | ✓         |        |        |         |         |         |           | Reaction Engineering                                   | International   | <a href="https://www.aidic.it/ecce12/">https://www.aidic.it/ecce12/</a>   |
| ACS National Meeting & Exposition   | March 31 - April 4, 2019   |      |      |         |        |         |         |         |        |           |        | ✓      |         |         | ✓       |           | Chemistry & other                                      | International   | <a href="https://www.acs.org/content/acs/en/meetings/national-meeting.html?sc=meetings_170818_mtg_NO18_od">https://www.acs.org/content/acs/en/meetings/national-meeting.html?sc=meetings_170818_mtg_NO18_od</a> |
| International Conference on Negative CO2 Emissions  |  |      |      |         |        |         |         |         |        |           |        |        |         |         |         | ✓         | Chemistry & other                                      | International   | <a href="http://negativeco2emissions2018.com/">http://negativeco2emissions2018.com/</a>   |
| 20th International Conference on Building Materials "ibautil"                                     |  |      |      |         |        |         |         |         |        |           |        |        |         |         |         | ✓         | Cement   | International   | <a href="https://www.uni-weimar.de/de/bauingenieurwesen/institute/fib/ibautil/">https://www.uni-weimar.de/de/bauingenieurwesen/institute/fib/ibautil/</a>   |
| International Conference on Inorganic Membranes (ICIM)  | 29 June- 2 July, Taipei  |      |      |         | ✓      |         |         |         |        |           |        |        |         |         |         |           | Membrane Technology                                    | International   | <a href="http://www.icim2020.org/">http://www.icim2020.org/</a>   |
| Euromembrane 2018/2020  |  | tbd  |      |         | ✓      |         |         |         |        |           |        |        |         |         |         |           | Membrane Technology                                    | International   | <a href="https://www.emsoc.eu/ems/site/events/list_events.php">https://www.emsoc.eu/ems/site/events/list_events.php</a>   |
| Filtech   | October 22 - 24   Cologne  | tbd  |      |         | ✓      |         |         |         |        |           |        |        |         |         |         |           | Filtration and Separation                              | International   | <a href="http://www.filtech.de/">http://www.filtech.de/</a>   |
| 15TH INTERNATIONAL CONGRESS ON THE CHEMISTRY OF CEMENT (ICCC 2019)                                | 16-20 September, Prague  |      |      |         |        |         |         |         |        |           |        |        |         |         |         |           | Cement   | International   | <a href="https://www.unibw.de/werkstoffe-en/events/15th-iccc-2019">https://www.unibw.de/werkstoffe-en/events/15th-iccc-2019</a>   |
| International Centre for Heat and Mass Transfer meetings  | 19 august 2019   | tbd  | tbd  |         |        |         |         |         | ✓      |           |        |        |         |         |         |           | Mass Transfer  | International   | <a href="http://www.ichmt.org/page/14/ichmtf">http://www.ichmt.org/page/14/ichmtf</a>   |

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### 4.3 RECODE Training activities

#### 4.3.1 Summer school

The RECODE Consortium is organizing (IIT and RUG), together with other EU project Consortia, a Summer School during the first week of September. The event will be hosted in Amsterdam. The event will prompt our dissemination and training strategy.

RECODE, along with ENGICOIN, will be the leading project in the organization of the event.

The event will include the participation of other EU-funded projects that focus on circular economy, CO<sub>2</sub> capture and storage or reutilization, and on green chemistry.

The projects that have already been contacted and that accepted to participate in the Summer School are:


- ENGICOIN (G.A.760994) Engineered microbial factories for CO<sub>2</sub> exploitation in an integrated waste treatment Platform.
- STORE&GO (G.A. 691797) Innovative large-scale energy STOragE technologies AND Power-to-Gas concepts after Optimisation
- CELBICON (G.A. 679050) Cost-effective CO<sub>2</sub> conversion into chemicals via combination of Capture, ELeCtrochemical and BI-ocHEMical CONVersion technologies
- Carbon4PUR (G.A.768919): Turning industrial waste gases (mixed CO/CO<sub>2</sub> streams) into intermediates for polyurethane plastics for rigid foams/building insulation and coatings

These projects are connected to each other both for their research targets and for overlapping and cross-links between the teams. Joining forces in this Summer School will strengthen the contacts, will allow reaching a broader audience and amplifying the impact. An additional goal of this Summer School is to rise awareness and interest regarding Circular Economy and to disseminate our results.

The School will be articulated in two days. The draft agenda is currently (M18) under construction. In order to attract a greater audience, the school will be free of charge. IIT is already working at setting up a dedicated Website that will be used to communicate info regarding the school and for registration and poster submissions.

The preferred target is PhD and students Post-Docs. Nevertheless, we strongly believe that the several projects involved will gather also a pool of stakeholders and professionals at different levels.

Apart from the dissemination, the aim will be to create interest into possible future workforce, get involved into discussion and collect feedback from other experts out of our consortium.

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Parallel and embedded in the Summer school, site visit to Dutch companies involved in the mentioned projects will be organized, with the aim to provide a better understanding of the processes and to further involve young scientists into the company's environment.

The draft agenda of the School may include additional items dedicated to transversal topic such as:

- Social Science and Humanities in Science
- Responsible Research and Innovation
- Dissemination & Communication: how to communicate science
- EU policy focus: EU environment strategies

#### 4.3.2 Training Event M36

The RECODE Consortium is planning to organize a further training seminar most oriented to the industrial side of the project, whereas the first event is oriented mainly to PhD, post-docs and other scientific audience. This industry-driven event will discuss the application of the technologies developed to industrial cases. The aim is to develop awareness on sustainable processes and low impact technologies.

The main topic will be the point of view and the technical advance from industrial partners of the RECODE project and selected speakers from other projects in the same field or proposing similar technologies. The proposal will be discussed with partners in the 18<sup>th</sup> month general meeting, and the focus points will be:

- CO<sub>2</sub> capture and utilisation in the cement industry: current status and future trends
- Integration of RECODE technology in other industrial contexts for CO<sub>2</sub> recycling
- Advances of CO<sub>2</sub> electrochemical conversion to C<sub>2</sub> platform products

#### 4.3.3 Education material


The effectiveness of Education material, as well as all communication material, deeply relies on both its content and visual appeal.

Recode Consortium will particularly focus on the above-mentioned target audience (Students in the School and Companies in the training events) and, with the help of dedicated staff from several partners, RECODE will carefully reshape the messages and consequently PPTs and Leaflets in accordance to the final receivers.

The reorganization and editing of selected presentations held during the training event of M24, M36 would be possibly reshaped on the bases of possible feedback.

The material will be distributed at the final workshop *via* digital support (e.g. USB memory stick) to training participants and will be made available for download from the project web page.



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#### 4.4 Videos

In the next 6 months, the RECODE Consortium will produce a video: it will provide a general presentation of RECODE and of the project goals and their link with the EU strategic objectives.

IIT photographers will realize individual and group pictures, while most video inputs will be self-managed by the different beneficiaries. The video is planned to be issued within M24.

In addition, individual partners will be encouraged, according to their possibilities and role in the project, to produce short footages aimed at showing RECODE scientific approach and technological concept. Despite the subjects that are planned to be treated, the aimed target will be the wide public. For this reason the videos will avoid the use of jargon and of highly technical terminology.

## Conclusions

This dissemination plan is intended to increase awareness, interest, and acceptance of RECODE processes and project in the broader community. Although being the present an updated version of Deliverable 8.3, this plan still shall be seen as working document and so open for updates as market forces shift and priorities become clearer. The future updates may include up-to-date media references and opportunities for disseminating project information.