



H2020-FNR-2020-2 LC-FNR-13-2020

CREATING ADDED-VALUE CHEMICALS FROM BIO-INDUSTRIAL CO₂
EMISSIONS USING INTEGRATED CATALYTIC TECHNOLOGIES

D7.2 – Dissemination and Communication Plan

Lead Contractor: Sustainable Innovations (SIE)

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This document corresponds to D7.2 and describes the Communication and Dissemination Plan (contract no. 101000580) to be adopted by the CATCO2NVERS project, whose main objective is to ensure that the project's outcomes (concepts, scientific results, models and simulation tools, validated work, problem awareness) are consequently disseminated to the appropriate target communities.



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1 Executive summary

This document contains a detailed Dissemination and Communication Plan that outlines the project's audiences, and communication channels for dissemination. It also answers the questions WHO? WHAT? WHEN? HOW? and provides an integrated, accurate, and efficient dissemination strategy. In addition, it highlights potential audiences, roles and responsibilities, and methods of communication to be used for the CATCO2NVERS tool promotion.

Task 7.1 aims at proactively promoting the CATCO2NVERS project and its results by providing targeted information to various audiences. The promotion activities will be part of the dissemination and communication plan, and this document presents the first step in achieving the partial objective.

2 Acronyms and abbreviations

SIE	Sustainable Innovations Europe
FDME	Furan Dicarboxylic Methyl Ester
NADH	Nicotinamide Adenine Dinucleotide
FME	Furfural Methyl Ester
IP	Intellectual Property
BIOR	Bio-refineries
SC	Scientific Community
CD	Catalyst developers
TD	Technology developers
RPMCA	Regulators, Policy Makers & Community Associations
GP	General Public
GDPR	General data protection regulation
WP	Work package
KER	Key exploitable result
DoA	Deed of agreement
DCP	Dissemination and communication plan

3 Introduction

This document describes the Communication and Dissemination Plan to be adopted by the CATCO2NVERS project, whose main objective is to ensure that the project's outcomes (concepts, scientific results, models and simulation tools, validated work, problem awareness) are consequently disseminated to the appropriate target communities.

It, first of all, presents the objectives of the communication and dissemination plan, the main target audiences to follow with the tools and channels. Within these tools and channels, different means and platforms, such as the website, the social media channels, printed materials, newsletters, press releases, scientific journals, and trade media are explored. In addition, it is also commented the participation in conferences, workshops, and events. The stakeholders' engagement is also explored, to then proceed to evaluate which indicators and targets are set to evaluate the communication efforts.

The communication and dissemination will involve different levels (European level, international level, regional level, etc.) and it will work both externally and internally. These realms are also considered in the plan below.

A timeline with the main three communication phases is presented, to finish with an overview of the actions carried out from M1 to M6.

3.1 Context of WP7

The main objective of this WP is to maximise the impact of the project results during its lifetime and after the project's end. More in detail, the specific objectives are:

- To disseminate the project results among relevant industrial and academic stakeholders.
- To raise awareness among the public about the potential of using CO₂ utilisation technologies coupled to bio-based industries.
- To map and evaluate the market size of CATCO2NVERS technologies and products within the EU bio-economy.
- To design novel and effective business models to enhance economic profitability of bio-based industries while reducing CO₂ emissions.
- To ensure the exploitation of the project's KER through adequate exploitation plans.



3.2 Objectives of T7.1

The DoA contemplates that a detailed Dissemination and Communication Plan should be produced at the beginning of the project (M6), based on the preliminary indications given in Section 2.2. and in collaboration with all the consortium; this plan will outline the project's audiences, and communication channels for dissemination. It will provide an integrated, accurate, and efficient dissemination strategy, highlight the potential audiences, roles and responsibilities, and methods of communication to be used. The first list of stakeholders and end-users will be prepared at month 6, to be updated during the project lifetime to include all relevant actors in consultations devoted to better explore the local contest and adapt the technologies. The involvement of stakeholders from the beginning of the project will be crucial to raise awareness about related problems and to enhance the community's acceptance of the proposed efficient exploitation strategies.

4 Objectives of the DCP

The main objective of the CATCO2NVERS dissemination strategy is to ensure that the project's outcomes (concepts, scientific results, models and simulation tools, validated work, problem awareness) are consequently disseminated to appropriate target communities. It is anticipated that contributors to CATCO2NVERS development, evaluation, market uptake, and exploitation are identified and motivated to proactively participate.

A multistep and multichannel approach will be used in the CATCO2NVERS dissemination strategy in order to reach and engage different stakeholders and target groups with adjusted information for needs and interests. Awareness will be raised to all possible project beneficiaries.

The key specific objectives to achieve the CATCO2NVERS goals are:

- To disseminate the project results among relevant industrial and academic stakeholders.
- To raise awareness among the public about the potential of using CO₂ utilisation technologies coupled to bio-based industries.
- To build a strong network of stakeholders interested in the project results
- To ensure effective knowledge transfer of CATCO2NVERS outcomes,



5 Target audiences

CATCO2NVERS has preliminarily identified a significant list of stakeholders to which the dissemination and communication materials and tools will be directed

Table 5 : Target groups & contents

TARGET GROUP / STAKEHOLDER	TARGETED RESULTS/ CONTENT
Bio-refineries (BIOR)	<ul style="list-style-type: none"> Reduction of their emissions & integration of CO₂ in their processes Synergies between industry sectors Modelling of decentralized pre-treatment, new processes Additional yields through carbon conversion technology integration.
Catalyst developers (CD)	<ul style="list-style-type: none"> Preparation of new bi-functional heterogeneous catalysts based on organic/inorganic supports Development of novel immobilized biocatalysts
Technology developers (TD)	<ul style="list-style-type: none"> Novel route to lactic acid from CO₂ and bioethanol feedstocks CO₂ conversion to FDME from Furfural - two-step one-pot process Models for flexible facilities
Regulators, Policy Makers & Community Associations (RPMCA)	<ul style="list-style-type: none"> New resources available through the integration of carbon conversion technology in the bio-based industries and its application potential Potential of carbon conversion technology and advancements for the circular bioeconomy Need for further scientific research
Scientific Community (SC)	<ul style="list-style-type: none"> Results on novel system for production Lactic acid from CO₂ and ethanol Results on novel NADH regeneration methods Logistics modelling of bio-based streams in decentralized system, different feedstocks & circularity assessment of bio-CO₂ based products Synthesis and characterization of new bi-functional heterogeneous catalysts based on porous organic polymers

	<ul style="list-style-type: none"> • Synthesis and oxidative esterification of furfural to obtain furfural methyl ester (FME) in soft conditions • Carboxylation of FME with CO₂ to obtain FDME in soft conditions • Furfural to FDME using CO₂ by a two-steps one-pot process
General Public (GP).	<ul style="list-style-type: none"> • Knowledge of the development of a new technology that allows the use of CO₂ to obtain a precursor of bioplastics • New resources without land-use change or food/feed controversy, CO₂ as feedstock, connection to climate change, • Circular economy concept

Several key stakeholders have been already detected by consortium partners, such as Turkish Cosmetics Manufacturers and Researchers Association (Küad), Turkish Quality Association (Kalder), Istanbul Chamber of Industry - European Enterprise Network, Sarten Packaging, Iff (International Flavors & Fragrances Inc), Parkim Group, Sfa Arge, Antimikrop Lab, Plastic Move; and others

Trade media have already been identified as well: Technology Review, Popular Mechanics, Technology Review, Engineering & Technology, RQ Magazine, Ingenieur, Horizon Magazine, Innovators Magazine, Econoticas, RETEMA, Industria Ambiente and others.

Likewise, similar European projects have been identified to search for synergies such as CO₂SMOS, CO₂PERATE, eCOCO₂ or BIOCON-CO₂.

6 Tools and channels

Different tools and channels will be used to disseminate and communicate the activities carried out by CATCO2NVERS and its results. Each tool and channel will be used appropriately to address different target groups at different stages of the proposal implementation, thereby increasing the efficiency of the DCP. The relationship between the tools and channels, the target groups, and the expected results are presented in Table 6.

Table 6 : Channels / Tools / Target groups/ Expected impacts

Channels	Tools	Target Groups	Expected Results	Impact and	
Printed Materials	Brochure	Industry, Academia, Manufacturers, End consumers, Associations, Environmental Organisations, Standardisation bodies and policy makers	Inform about the project scope, objectives, impacts, methodology and results.		
	Leaflet				
Online	CATCO2NVERS project website		(1) Inform about the project scope, objectives, impacts, methodology and results. (2) Keep the audience updated with regular news. (3) Share the public deliverables. (4) Raise awareness on the project technologies.		
	Social Media (Twitter & LinkedIn)				
	Videos			Scientific community, industry, technology developers, G.Public	Inform about the project scope, objectives, impacts, methodology and results.
	Newsletters	All target groups/ stakeholders		Inform about the project scope, objectives, impacts, methodology and results.	
	Press Releases	Media groups and journalists/ General public	Raise awareness among on the economic and environmental impacts of the project.		
Publications	Scientific Publications	Industry, Academia, Manufacturers, End consumers, Associations, Environmental Organisations	To raise awareness on the economic and environmental impacts of the project. To persuade on the benefits resulting from an uptake of CATCO2NVERS innovations.		
Events (Organized)	Workshop				To communicate the results obtained.
	Webinars				
Events (Attended)	Workshops	Standardisation bodies & policy makers			
	Conferences	Industry, Academia, Manufacturers, End consumers, Associations, Environmental Organisations			
	Tradeshows				

Several dissemination tools and channels will be used, including a project website, articles targeted at both a lay and a technical audience, press releases, e-newsletters, scientific papers and leaflets, social media presence, and participation in workshops/conferences.



Any dissemination activities and publications in the project, including the project website, will specify that the project has received funding from the European Union's Horizon 2020 programme, as well as displaying the European emblem. When displayed in association with a logo, the European emblem will be given appropriate prominence. All publications will reference the grant agreement number.

The communication activities within the project are both periodic (management group meetings, newsletters, project group meetings, and reporting to the commission) and online (project restricted area on the website).

Communication activities to stakeholders outside the project group are based on the dissemination plan presented in section 2.2 of the Grant Agreement. The journal articles are primarily intended to communicate the recent findings to the scientific and academic communities. However, the project will also publish in trade journals and magazines important to the industry to disseminate new relevant solutions to other possible end-users. Project presentations at technical conferences are intended to reach the same audience.

6.1 Project identity

A recognisable project identity was developed to build a visual brand and ultimately offer a package of templates that will facilitate the building of notoriety progressively through the project. This includes creating a project logo and an accompanying style guide. These will be consistently used for the project website and all other communication templates, such as PowerPoint, Word, posters, and EC Reports : <https://catco2nvers.eu/documents/>



6.2 Project website

CATCO2NVERS has been given an up-to-date and user-friendly project website (<https://catco2nvers.eu/>) It will be the primary source of information for external parties, providing updates on project activities and achievements to all target audiences. The website aims to inform the scientific community and associated industries about project developments, but also to present the project's achievements and novel pilot lines to the public.

All partners will contribute to the website by providing relevant project information in accessible language (laymen's terms). All communication efforts by project partners and social media will always be redirected to the CATCO2NVERS website. Traffic to the website will be increased by creating mutual links between the partners' websites and other relevant websites.

The project website contains:

- Latest news about the project progress and results
- Details about the project partners
- Informative materials (newsletter, infographics, articles)
- Contact information
- Social media links
- At least two videos (embedded from Youtube). The first one will explain the main objectives and scope of the project. The last one will serve as training material for stakeholders and will be produced by the end of the project.
- Privacy policy, cookies policy, and legal terms to comply with general data protection regulation (Regulation (EU) 2016/679) on the protection of natural persons about the processing of personal data and on the free movement of such data.

The project website is set up by SIE and will be managed, maintained, and hosted for the duration of the project and a further 2 years after the completion of the project. Statistical data will be collected about the website visitors that subsequently will be analysed by Google Analytics software and included in the project reports. The website will be responsive to work on a variety of devices and screen sizes, such as smartphones.



6.3 Content management system

For internal dissemination purposes, consortium partners will have access to a password-protected site (SharePoint established by the coordination, FUNDITEC) which will contain the proposal, consortium agreement, grant agreement, budget, deliverables, periodic reports, meeting, and workshop reports, and other relevant documents. Regular updates on the progress of the project will allow both internal monitoring of the project as well as rapid dissemination of the achievements.

6.4 Social media

The project has social media presence on Twitter (<https://twitter.com/Catco2N>), LinkedIn (<https://www.linkedin.com/company/catco2nvers>) and Youtube (<https://www.youtube.com/channel/Catco2nvers>) to ensure wider dissemination to different age groups and target audiences. Social media will be used as a tool to announce project developments, but most importantly drive traffic to the project website.

Twitter, LinkedIn, and Youtube accounts have been established and content related to CATCO2NVERS has been posted regularly beginning M1 to increase outreach.

For the first phase of the project, the social media accounts will share posts related to the project scope and post on events where CATCO2NVERS is to be presented to build a community of interest, creating an audience for when there are project results to share.

Online media platforms will be monitored to provide information on the analytics, sources, types of content, and individuals/organisations that promote or disseminate project messages, allowing optimisation and targeting of communication to ensure maximum outreach of news or results. These results will also be included in interim reports and the final dissemination report. The social media accounts will be managed by SIE with support from the partners.

Consortium partners will follow the project's social media channels and engage with them as much as possible. Whenever possible, the partners will share posts on their corporate websites and social media networks. If they need assistance, SIE can guide them on the best ways to do so.



CATCO₂NVERS

6.5 Printed materials

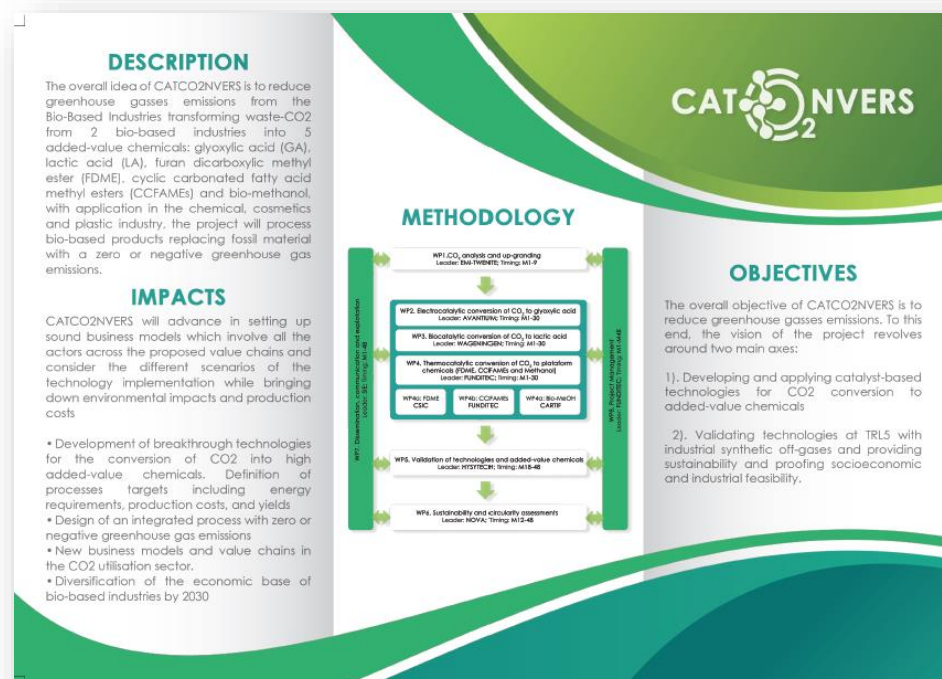
A poster, a factsheet, a roll-up, and a brochure have been developed for distribution to partner networks and at conferences, exhibitions, and other events. The first project poster and brochure version contains general information about the research activities, participants, and expected results. In addition, a general PowerPoint presentation has also been created, presenting the project's objectives, methodology, partners, etc.

Image 6.5.1: CATCO₂NVERS poster (left) and factsheet (right)



CATCO₂NVERS

Image 6.5.2: CATCO₂NVERS brochure



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CATCO₂NVERS

Image 6.5.3: CATCO₂NVERS Roll-up



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CATCO₂NVERS

Image 6.5.4: CATCO₂NVERS PowerPoint



6.6 Newsletter and press releases

Electronic newsletters will be prepared every 6 months and will include project updates, announcements, interviews, and other information related to CATCO₂NVERS, to be distributed to stakeholders and partner networks and posted on the project website. Moreover, project updates may appear in partners' respective newsletters, which are distributed electronically to their contacts within their specific industry.

Press releases will be published to announce newsworthy developments during the project. They will be written in English and sent to the European press and national journalists, with the help of the project partners.



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Image 6.6: CATCO2NVERS Press release



CATCO2NVERS, a project that seeks to reduce greenhouse gas from the bio-based industries, kicks off

- CATCO2NVERS is led by FUNDITEC and formed by fifteen partners from eight countries.
- CATCO2NVERS has received €6.6 million funding from the European Union's Horizon 2020 Research and Innovation Programme.

Madrid (Spain), May 27th, 2021. A European consortium is working on the implementation of CATCO2NVERS, a new Horizon 2020 research and innovation project that kicked off this month and which aims to create added-value chemicals from bio-industrial CO₂ emissions using integrated catalytic technologies.

The consortium is formed by fifteen partners from eight European countries that will work for 48 months to bring the use of CO₂ for the production of chemicals a step closer to industrial implementation taking into account their market projection and public perception to support the European Union in becoming a global leader in CO₂ re-use technologies.

The core purpose of CATCO2NVERS is to reduce greenhouse gas emissions (GHG) from the biobased industry by developing five innovative and integrated technologies based on three catalytic processes (electrochemical, enzymatic, and thermochemical). The project objective is to transform waste-CO₂ from two biobased industries into five added-value chemicals: glyoxylic acid, lactic acid, furan dicarboxylic methyl ester, cyclic carbonated fatty acid methyl esters, and bio-methanol, with application in the chemical, cosmetics, and plastic industries.



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6.7 Scientific journals and trade magazines

At least eight scientific papers will be prepared by the technical and academic partners. The project's results will be published in international scientific journals and trade magazines, such as the Journal of CO₂ Utilization, Journal of the American Chemical Society, Journal of the American Chemical Society, ChemSusChem, Journal of Power Sources, International Journal of Hydrogen Energy, Energy and Fuels, Waste and Biomass Valorization, Green chemistry, Advanced materials, Journal of separation and purification technology, Biomass and Bioenergy and Catalysis today

6.9 Participation at conferences, workshops, and events

Project partners will attend sector-related events, conferences, workshops, to meet target groups, other stakeholders, public authorities, and the scientific community and to raise awareness about the project objectives and results. These events provide access to target audiences at local, national, European, and international levels.

Conferences and trade fairs of interest identified for the CATCO₂NVERS project are as follows:

Table 6.9: List of events and conferences

EVENT	DAY	LOCATION	LINK
2nd Carbon Dioxide Conversion Catalysis	November 8-9 2021	Online	https://www.rsc.org/events/detail/47592/2nd-carbon-dioxide-conversion-catalysis-virtual-conference
11th International Conference on Computer Science, Engineering and Applications	November 20-21, 2021	Zurich	https://iccsea2021.org/
European Blockchain Convention	December 13-16, 2021	Online	https://eblockchainconvention.com/
Global Experts conference on Materials Science & Nanotechnology 2021	December 2-4, 2021	Amsterdam	https://www.ms-scholarconferences.com/GECMN21/6/home.html#organizers
International Conference on Cellulose Fibres	February 2-3, 2022	Cologne	https://cellulose-fibres.eu/
JEC World	March 8-10, 2022	Paris	https://www.jec-world.events/
Biofuel Intl. Conferece & Expo	March 15-16, 2022	Brussels	https://biofuels-news.com/conference/biofuels/biofuels_index_2022.php
EUBCE: The Leading Platform for Global Biomass Innovation	May 9-13, 2022	Florence	https://www.eubce.com/
The Renewable Materials Conference	May 10-12, 2022	Cologne	https://renewable-materials.eu/

International Symposium on Relations between Homogeneous and Heterogeneous Catalysis	June 26-29, 2022	Oslo	https://www.mn.uio.no/ishhc19
Renewable, resources and biorefineries	June 8-10, 2022	Ghent	https://rrbconference.com/news/
XXII International Symposium on Homogeneous Catalysis	July 24-29, 2022	Lisbon	https://xxii-ishc.events.chemistry.pt/
Nordic Wood Biorefinery Conference 2022	October 25-27, 2022	Espoo	https://ispt.eu/events/nordic-wood-biorefinery-conference/ https://www.vttresearch.com/en/news-and-ideas/nordic-wood-biorefinery-conference-2022
ECOMONDO	November 8-11, 2022	Rimini	https://www.showsbee.com/fairs/77889-Ecomondo-Rimini-2022.html

At the end of the project, a final conference will be organised where the partners will present the project results and perspectives to relevant stakeholders from the industry, the scientific community, regulatory bodies, and others with an interest in the field. The presentations will analyse and reflect upon the developments of CATCO2NVERS. Industry events are also contemplated to spread knowledge on the project upbringings.

7 Key Performance Indicators (KPIs)

The social media activities will start as the project kicks off while the website waits to be activated. The publications and conferences presentations will take place as the project progresses and be published in the relevant locations on the website.

Publications and conference presentations are subject to project IP policy. Dissemination activities can be delayed as securing the business interests of any partner needs to be considered first.

The developed dissemination strategy will be continuously updated to ensure the maximum measurable project impact is achieved and the project website will be the central tool to track the progressive efficacy of the communication efforts.

Ambitious CATCO2NVERS indicators have been established :

Table 7.1: Indicators and targets

Tool/ Channel	Indicator	Target Number	Information Source
Brochure	N° of copies distributed	Material distribution: <300 poor; 300-500 good; >500 excellent	Consortium information, number of copies distributed to target groups / stakeholders
Leaflet			
Poster, Roll Up			
Project Website	Number of visits	Visits per year: <600 poor; 600 – 1,200 good; >1,200 excellent	Website statistics
Social Media (LinkedIn, Twitter)	Number of followers Number of impressions Engagement rate	Twitter; (a) Followers: < 50 poor; 50 – 100 good; > 150 excellent. (b) Engagement rate: <0.2% poor; 0.2% - 0.9% good; > 0.9% excellent LinkedIn; (a) Followers: <50 poor; 50 – 100 good; >150 excellent. (b) Engagement rate: <2% poor; 2- 3% good; >3% excellent	Social media analytics
Videos	Number of views	At least 2 in the project. Views: <100 poor; 100 – 200 good; >200 excellent	Website / YouTube Analytics
Newsletter	Subscriber & Readers	1500 views (500 subscribers x 3 Newsletter)	Recording of e-mail sent, website download, analytics
Press Releases	Number of media stakeholders addressed Number of views on the website and social media	25 Media stakeholder; 1000 views per Press Release	Recording of e-mails sent, Media list, consulting media website
Scientific Publications	Number of Publications	8 scientific papers	Consulting site where publication is placed Contemplate ResearchGate as a platform

CATCO2NVERS Workshops	Number of attendees	3 EU workshop (M24, M30 & M36) 100 attendees	Registration list
CATCO2NVERS Webinars		2 Webinars x 10 participants (from M30)	Registration List
Conferences	Number of conferences attended	12 Conferences 1800 participants (12 conferences x 150 participants)	Registration List
Trade Fairs	Number of trade fairs attended	6 trade fairs 30000 participants (6 trade fair x 5000 participants)	Certificate of participation; Proof of registration; Event information, Business Trade fairs Cards exchanged

8 Levels of dissemination

Key targets groups operate at different geographic levels, which will influence which communication tools and media will be employed.

8.1 European level – EC

The European Commission will be informed about the results via the periodic reporting of the project (mid-term review, minutes of periodical meetings, updates of this document) in order to modify related regulations if necessary and to propose collaboration with other ongoing projects on dissemination activities.

8.2 International level – Industry, scientific community

The relevant international organisations will be informed of the results. Scientific knowledge can be translated into practical information, guidelines, and regulatory policies.

Direct mailing to specific organisations and stakeholders will be used to distribute electronic resources to raise public awareness.

Technical journals, conferences and workshops at both national and international levels, industry meetings, and participation in industrial forums will also be used for the dissemination of knowledge both at research and industrial levels.

9 Methodology

The following internal and external communication activities will be undertaken during the project's lifetime and afterward to ensure that the results of CATCO2NVERS are efficiently and effectively communicated to the project partners, stakeholders, and broader audiences.

9.1 Internal communication

Effective internal communication is key to sharing information and ensuring that the deliverables are met. Therefore, regular face-to-face meetings and conference calls will take place to exchange project information, update progress, and share results. Consortium and technical meetings will take place two times a year, while Microsoft Teams and/or teleconferencing services will be used to facilitate collaboration within WPs.

Apart from specific emails, taking advantage of the at least 6-monthly meetings, SIE will ask partners for their support on the upcoming dissemination and communication activities and events to update the Communication & Dissemination Plan and streamline a content curation process. This will allow the partners to take a more focused and systematic approach, strengthening actions taken to communicate and report on the project. A delegate from all consortium partners of CATCO2NVERS will attend this meeting.

To facilitate efficient communication among partners, SIE will create a section within the website that will link to the project documentation and data exchange SharePoint created by the project coordinator FUNDITEC. This platform will host project materials for internal use, including regular updates on the project development, a project calendar, meeting documents (agendas, minutes, and presentations), manuscripts in progress, and project reports. The platform will have a content management system, allowing all partners to upload content themselves.

9.2 External communication

Every effort will be made to publicize the work of the consortium via the media, publications, conference presentations, trade fairs, and workshops, as well as through the Commission and industry bodies. Results of the project will be disseminated via reports, scientific papers, and technical articles. All public communication, and in particular scientific publications, will be made open access, to facilitate scientific exchange.

All project partners are expected to support dissemination, to ensure that stakeholders will be engaged throughout the lifetime of the project. Partners' activities may include

but are not limited to: engaging with relevant national and local media (print, radio, television, web-based), contributing to SIE's inputs on social media, proactively sharing information with SIE about project results, listing their communication activities in a shared file, and providing SIE with translations of lay materials in their local language. Where possible, partners will translate press releases into their national languages and keep SIE informed about plans, by creating lists of national media channels they will try to reach.

10 Timeline

As the project has different development phases, the communication focus would be different across each of them.

10.1 Phase I: Awareness phase

The first phase of the project is the Pre-Development phase. It will take place during the first year of the project, from M1 to M12. No results have been generated yet, so the main communication activities will focus on raising awareness about the project, its objectives, and expected impacts. This will be done by making use of the project identity developed that includes the project logo and graphical visual identity; promoting the project website among stakeholders, and distributing communication and dissemination material such as the project's brochure. It is also key to identify the relevant stakeholders for CATCO2NVERS as well as to establish contact with similar initiatives. In this phase, the consortium partners will also participate in relevant events and conferences, will build strong networking relationships, and will contribute as well to the communication actions.

10.2 Phase II: Knowledge transfer

The second phase (M12-M36) aims to provide the different stakeholders with the first results of the project and to raise interest in the upcycling capacity of products and materials. The first workshops, webinars, and technical papers will start to be produced.

10.3 Phase III: Replication and exploitation

The third phase (M36-M42) consists of supporting the replication and exploitation actions of CATCO2NVERS. With the project coming to an end, it will be essential to link the exploitation and dissemination activities to guarantee the future replication of results. The final event will be celebrated openly in this period and all the knowledge and materials gathered in the project life will be made available online.



11 Actions M1-M6

11.1 Project identity and materials

In the first phase of the project, a visual identity for CATCO₂NVERS was created. It included the logo of the project, and the brand guidelines (typography, colors, iconography, photography style). Different communication materials were also developed, including a brochure, a roll-up, a poster, and a project presentation. A template for the deliverables, a word document template, and a PowerPoint template was produced and shared with the partners.

The first brochure, poster, factsheet, roll-up, and project presentation were produced and made available on the website of the project as soon as it was operative: <https://catco2nvers.eu/documents/>

Image 11.1.1: CATCO₂NVERS Word Template



Title 1

1 Title 2

1.1 Title 3

1.1.1 Subtitle 1

1.1.1.1 Subtitle 2

Text: Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

11.2 Press Releases

A press release was launched at the beginning of the project. It was sent to approximately 200 local and trade media by SIE and several consortium partners.

It was published in more than 10 different media outlets, including Cordis, the partner's websites and social media, and trade media. Likewise, it was also uploaded to the CATCO2NVERS website.

Table 11.2.1: Media and partners publications

Media	Link
RETEMA	https://www.retema.es/noticia/catco2nvers-un-proyecto-que-busca-reducir-los-gei-de-las-industrias-de-base-biologica-Zl05m
CORDIS	https://cordis.europa.eu/article/rcn/430167_en.html
InterEmpresas	https://www.interempresas.net/Plastico/Articulos/352727-Dan-na-pone-marcha-planta-piloto-produccion-bioplasticos-sector-biomedico-tecno.html
Parc Científic de Barcelona	https://www.pcb.ub.edu/es/danna-pone-en-marcha-una-planta-piloto-de-produccion-de-biomateriales-al-pcb/
Partner	Link
FUNDITEC	https://funditec.es/funditec-suma-4-nuevos-proyectos-europeos-ademas-de-ser-responsable-de-la-coordinacion-de-uno-de-ellos/
SIE	https://sustainableinnovations.eu/catco2nvers-project-reduce-greenhouse-gas-co2/
AVT	20210527-Avantium-awarded-E1.78-million-in-total-from-EU-grants-for-the-development-of-electrochemical-processes-and-CO2-based-polymers_final.pdf
CARTIF	https://www.cartif.es/en/catco2nvers-en/
CARTIF	https://www.cartif.es/en/catco2nvers-reduce-greenhouse-gases-biobased-industries/
CARTIF + FUNDITEC	https://atlastecnologico.com/hacia-la-economia-circular-de-la-mano-de-los-centros-tecnologicos-siete-iniciativas-transformadoras/

CATCO₂NVERS

ALC	https://www.alchemia-nova.net/projects/catco2nvers/
WR	https://research.wur.nl/en/projects/eu-21025-catco2nvers-creating-added-value-chemicals-from-bio-indu
HYSYTECH	https://www.hysytech.com/News/catco2nvers-kom-eng
EMI	https://www.emi-twente.nl/emi-twente-is-proud-to-participate-in-catco2nvers/



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CATCO₂NVERS

Image 11.2: Example of publication

European Commission

CORDIS
EU research results

English

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News

CATCO₂NVERS, a project that seeks to reduce greenhouse gas from the bio-based industries, kicks off

CATCO₂NVERS is led by FUNDITEC and formed by fifteen partners from eight countries. CATCO₂NVERS has received €6.6 million funding from the European Union's Horizon 2020 Research and Innovation Programme.

NEW PRODUCTS AND TECHNOLOGIES

© CATCO₂NVERS

Madrid (Spain), May 27th, 2021. A European consortium is working on the implementation of CATCO₂NVERS, a new Horizon 2020 research and innovation project that kicked off this month and which aims to create added-value chemicals from bio-industrial CO₂ emissions using integrated catalytic technologies.

The consortium is formed by fifteen partners from eight European countries that will work for 48 months to bring the use of CO₂ for the production of chemicals a step closer to industrial implementation taking into account their market projection and public perception to support the European Union in becoming a global leader in CO₂-reuse technologies.

The core purpose of CATCO₂NVERS is to reduce greenhouse gas emissions (GHG) from the bio-based industry by developing five innovative and integrated technologies based on three catalytic processes (electrochemical, enzymatic, and thermochemical). The project objective is to transform waste-CO₂ from two bio-based industries into five added-value chemicals: glyoxylic acid, lactic acid, furic dicarboxylic methyl ester, cyclic carbonated fatty acid methyl ester, and bio-methanol, with application in the chemical, cosmetic, and plastic industries.

CATCO₂NVERS will process bio-based products replacing fossil material with zero or negative greenhouse gas emissions, which will contribute to setting up sound business models involving all the value chain stakeholders, and bringing down environmental impacts and production costs.

In summary, CATCO₂NVERS is focused on reducing industrial CO₂ emissions while exploring new procedures to produce bioproducts. With this aim, a bottom-up approach is used by the design and development of innovative catalytic technologies for the valorisation of CO₂ in the fabrication of different bio-based products, including monomers for bioplastic production, using CO₂ streams from biorefineries.

About CATCO₂NVERS

Coordinated by Foundation for Development and Technological Innovation (FUNDITEC), CATCO₂NVERS is formed by Acheria-rock, Avantium Chemicals B.V., DAN'NA Artificial Nature, CARTIF, CSIC, EVYAR University of Twente, KVA Biochem, Hysitech, Nova-Institute, Johnson Matthey, PERGO Biotechnology, Stichting Wageningen Research, and Sustainable Innovations.

The project has received €6.6 million funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No. 101000580.

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HORIZON 2020

CATCO₂NVERS
Creating added-value chemicals from bio-industrial CO₂ emissions using integrated catalytic technologies

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11.3 Conferences attended

The CATCO₂NVERS consortium partners were encouraged to participate actively in the communication and dissemination actions and, as part of that, attendance at events, conferences, and shows is one of the main activities of the strategy. However, due to COVID-19 restrictions the participation in conferences and events has been low. Nevertheless, a list of upcoming events has been identified as displayed in Table 6.9 where partners will be encouraged to participate.

CATCO₂NVERS has been showcased in the PTECO₂ conference where the project coordinator spoke about the project to internal and external audiences.

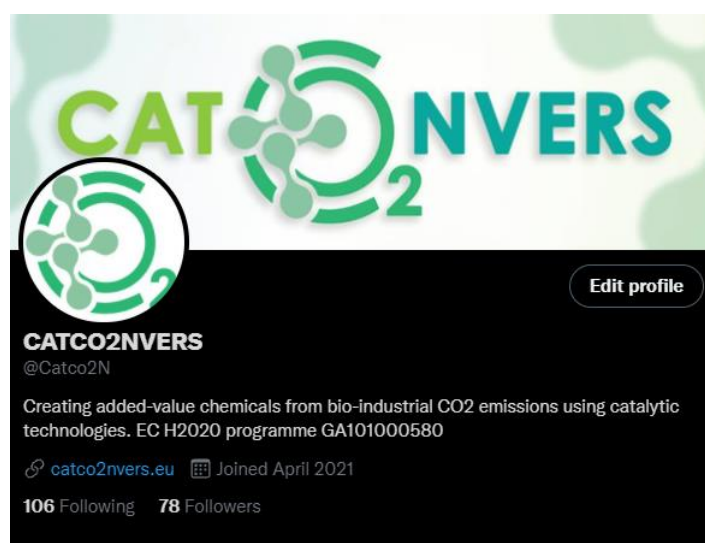
The session was recorded and uploaded to CATCO₂NVERS's YouTube account and also to the website.

11.4 Social Media

The social media accounts on Twitter <https://twitter.com/Catco2N> LinkedIn <https://www.linkedin.com/company/catco2nvers/> and Youtube <https://www.youtube.com/channel/CATCO2NVERS> were set up at the beginning of the project and inaugurated with content on the kick-off meeting.

During this period, we shared 21 publications, achieved 78 followers, and our publications reached a total of 14,9K impressions on Twitter, as of October 13.

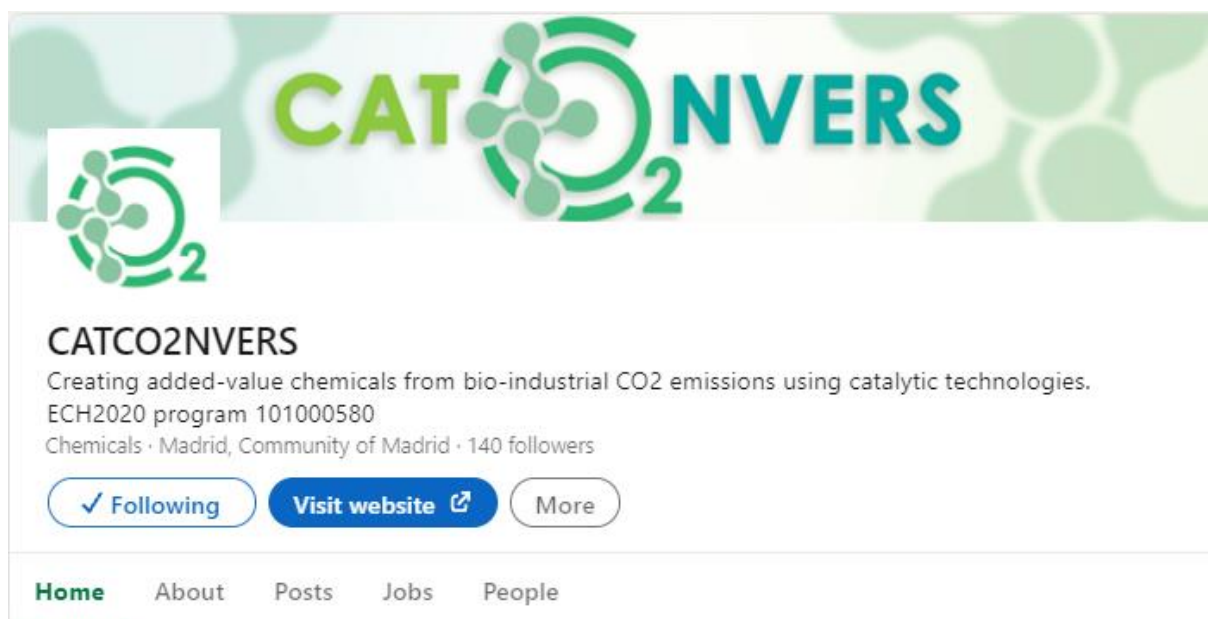
Image 11.4.1: Twitter Account





We began the activity on LinkedIn on August 31st, 2021. In this period, and until September 30, we have published 21 posts and achieved 140 followers. The publications reached more than 13.500 impressions.

Image 11.4.2: LinkedIn Account



Additionally, a video has been uploaded to CATCO2NVERS's Youtube channel

Image 11.4.3: YouTube channel



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CATCO₂NVERS

11.5 Newsletter

The first newsletter of CATCO₂NVERS' project was released on September 28 and published on the [website](#)

Image 11.5.1: Newsletter



NEWSLETTER 1 | SEPTEMBER 2021

CATCO₂NVERS, A PROJECT THAT SEEKS TO REDUCE GREENHOUSE GAS FROM THE BIO-BASED INDUSTRIES, KICKS OFF



KICK-OFF MEETING

From 8 to 9 June



Transforming waste-CO₂ into 5 added-value chemicals with application in the chemical, cosmetics and plastic industry

CATCO₂NVERS consortium members were reunited to present the future work each one is going to develop to achieve the goals of the project.

During the teleconference, hosted by [FUNDITEC](#), the partners were able to explain their future responsibilities within the project, as well as to show their corporate presentations.

The core purpose of CATCO₂NVERS is to **reduce greenhouse gas emissions** (GHG) from the biobased industry by developing five innovative and integrated technologies based on three catalytic processes.

The consortium is formed by **fifteen partners** from eight European countries that will work for 48 months to bring the use of CO₂ for the production of chemicals a step closer to industrial implementation.

[READ MORE](#)

HAVE YOU ALREADY SEEN THE CATCO₂NVERS MATERIALS?

We have prepared a set of **dissemination materials** to raise the awareness about our project objectives and goals. Download them by clicking below



[DOWNLOAD NOW](#)

CATCO₂NVERS AT THE PTECO₂ TECHNICAL WEBINAR



On June 22, the [Spanish CO₂ Technology Platform](#) (PTECO₂) counted on the presence of CATCO₂NVERS project. There, [Dulce Muñoz](#), Scientific & Technical Manager from [FUNDITEC](#), showcased CATCO₂NVERS, on behalf of the consortium, the project scope, and approach under the topic of **catalytic conversion of CO₂ into chemical intermediates of industrial value**.

PTECO₂ webinar was held virtually in Spanish language in collaboration with [AEI](#) and [INCAR-CSIC](#). The session was structured in several lectures delivered by recognised speakers, both from academia and industry, in the framework of the **potential uses and transformations of CO₂ in Spain**.

[WATCH NOW](#)

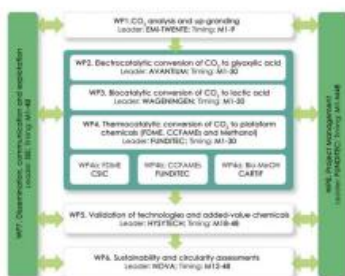
CATCO₂NVERS IMPACTS & METHODOLOGY

Development of breakthrough technologies for the conversion of CO₂ into high added-value chemicals. Definition of processes targets including energy requirements, production costs, and yields.

Design of an integrated process with zero or negative greenhouse gas emissions.

New business models and value chains in the CO₂ utilisation sector.

Diversification of the economic base of bio-based industries by 2030.



CATCO₂NVERS PARTNERS

Coordinated by Foundation for Development and Technological Innovation (FUNDITEC), CATCO₂NVERS is formed by Alchemia-nova, AVA Biochem, Avantium Chemicals BV, CARTIF, CSIC, DAN*NA Artificial Nature, EVYAP, University of Twente, Hysytech, Nova-Institute, Johnson Matthey, PERSEO Biotechnology, Sustainable Innovations and Wageningen Food & Biobased Research.



VISIT OUR WEBSITE AND FOLLOW ON SOCIAL MEDIA!

We will be posting all the project developments, actions and news on our website and social media channels. Follow us to make sure you do not miss anything out!



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CATCO₂NVERS

11.6 Website

The website <https://catco2nvers.eu/> was launched on June 25 (M2) with essential information of the project that will be updated constantly with progress and news from the project and partners.

Image 11.6.1: CATCO₂NVERS website



11.6.1 Website analytics

Since the website has been operative until 12/10/2021, it has accounted for 2370 visits and the average time that a user spends in it is 5:38 minutes. These numbers are very good and indicate that the project is getting very qualified website traffic.

Figure 11.6.1: Web analytics. Source: Google Analytics

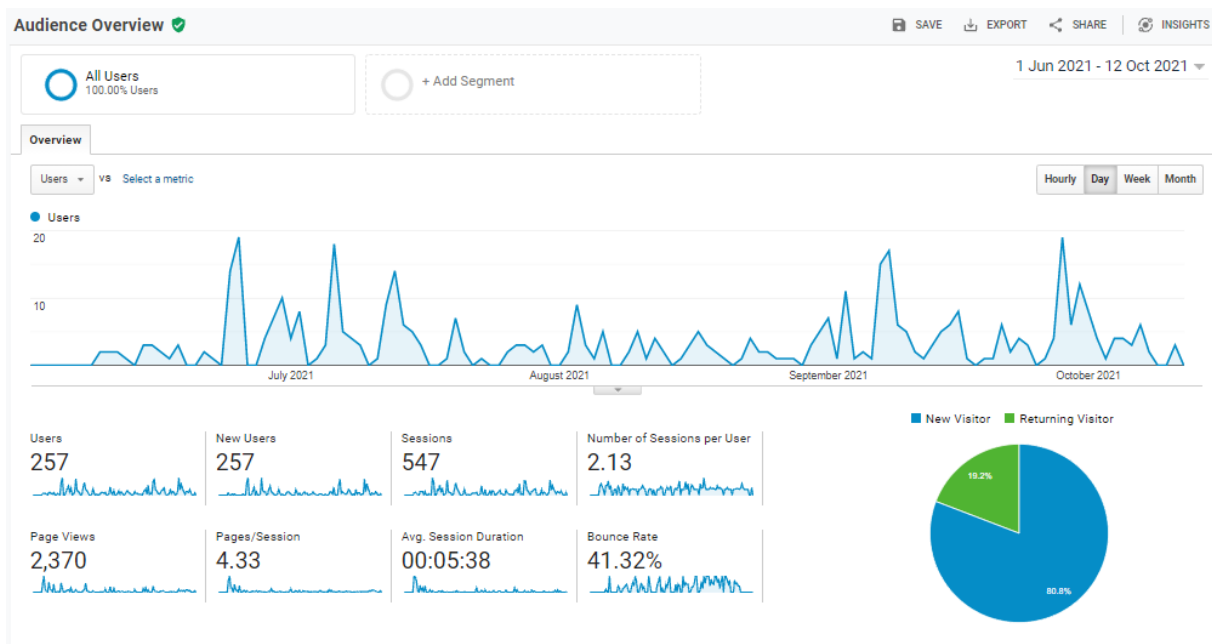


Figure 11.6.2: Website top locals

