

Deliverable 5.8

FINAL REPORT ON DISSEMINATION AND EXPLOITATION

APRIL 2022



Project's name: IMPACTS9. IMPACTS9 is a Horizon 2020 project (Coordinated and Support Action) funded by the European Commission for 3 years (from 1 May 2019 until 30 April 2022). Its purpose is to accelerate the progress realised within the CCUS SET-Plan and to support delivery of the R&I activities in the CCUS Implementation Plan.

<https://www.ccus-setplan.eu/>

Disclaimer

This document reflects only the authors' view and the European Commission and CINEA are not responsible for any use that may be made of the information it contains.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 842214

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Introduction

The SET-Plan

The [European Strategic Energy Technology Plan \(SET-Plan\)](#) aims to accelerate the deployment of low-carbon technologies, improve new technologies and bring down costs by coordinating national research efforts. The SET-Plan brings together EU countries, the European Commission, industries, and research institutions. The SET-Plan defined ten priority areas, covering a wide range of sectors including CCUS, wind, solar, geothermal, renewable heating and cooling, biofuels, etc. The Implementation Working Group 9 (CCUS SET-Plan or IWG9) has been established to help the progress of Research and Innovation (R&I) activities required to achieve the 2020 targets for CCS and CCU agreed by the European Commission, SET-Plan countries, and industry.

The CCUS SET-Plan

The [CCUS SET-Plan](#) is composed of 11 SET-Plan countries (Czechia, France, Germany, Hungary, Italy, Norway, The Netherlands, Turkey, Spain, Sweden and the UK), industrial stakeholders, non-governmental organisations, and research institutions. The work is chaired by the Netherlands, Norway, and the Zero Emissions Platform.

Reaching climate neutrality by 2050 will require major efforts from all economic sectors and European society. Higher climate goals mean that all low-carbon technologies under the European Commission's SET-Plan will be crucial in contributing to the transition to a climate neutral economy by 2050 and to accelerate knowledge development as well as technology transfer and up-take. CCS and CCU will play an important role in the delivery of climate neutrality by 2050, enabling a cost-efficient trajectory towards a low-carbon economy with EU's climate objectives.

Communication, Dissemination and Exploitation

In accordance with the Communication and Dissemination Plan (see deliverable D5.1), the consortium has undertaken a series of activities to present the projects' activities to a wide audience and convey the project's message to various stakeholders. The following sections provide a summary of those activities:



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Communication, Dissemination and Exploitation activities

Communication was focusing on the project's general activities and not only specifically to its results. Dissemination and exploitation are focusing on the project's results and how they were further presented and how they are also potentially taken-up by policy makers and further stakeholders. An overview of actions undertaken are explained in the following sections:

Project website

For a straightforward follow-up of the project's activities and news, a website was created: <https://www.ccus-setplan.eu/>. The idea was to have a project website linked primarily to the CCUS SET-Plan identity and not to the respective grant that supports the CCUS SET-Plan reach its objectives, i.e. a website that could be maintained after the end of IMPACTS9 and could be further used by successor grants without the need to change drastically its design. Further information about the structure of the website and the visual identity is provided under Deliverable D5.2. Some metrics of the website are presented in Annex I.

Social media

A [LinkedIn](#) page and a [Youtube](#) channel were created to reach out to further audiences. The decision of the CCUS SET-plan consortium was to favour selectivity over broadcasting concerning the information and messages posted so as to not confuse the audience with every kind of information on CCUS, rather the ones that would be most relevant for the CCUS SET-Plan community. The LinkedIn account had 80 followers within a year of operation and more than 180 page views.

Public newsletters

Three public newsletters were developed ([May 2020](#), [February 2021](#), [March 2022](#)). The CCUS SET-Plan consortium favoured rich and informative annual newsletters over lighter semester newsletters. Each newsletter contained sections on important news, events that the consortium organised or where the CCUS SET-Plan was represented, policy updates and progress over the CCUS SET-Plan work streams. Through the website, 38 new visitors have subscribed to the newsletter.

Videos

Recordings of the CCUS SET-Plan final conference are available [here](#). Recording of the CCUS SET-Plan co-chairs in the SET-Plan 2021 conference in Slovenia is available under <https://setplan2021.eu/online-streaming/> (25.11 (Day 1); from 08:36:14 to 08:38:38).

Organisation and representation in events

The CCUS SET-Plan organised 6 plenary (10/2019, 04/2020, 10/2020, 04/2021, 10/2021, 04/2022) sessions for the IWG9 community to ensure a regular follow-up of the targets of the CCUS SET-Plan and to communicate the progress in the implementation of the R&I Activities. Prior to the plenaries, preparation

meetings with the CCUS SET-Plan Strategic Coordination Group took place. The structure of the plenaries followed the same principle with:

- an introduction from the Chairs,
- a policy update from the European Commission,
- an update on the progress of the CCUS SET-Plan work streams with pre-reads on reports and deliverables to be endorsed,
- a session where CCS and CCU projects were presented,
- a communication update and,
- an update of the forward work programme

The members of the CCUS SET-Plan consortium have organised and participated in more than 50 events where the CCUS SET-Plan was presented and discussed. A non-exhaustive list is presented in Annex I. This list doesn't include internal subgroup meetings of the CCUS SET-Plan project which were regular for all five subgroups during the project and have driven the work within the project.

Event	Activity	Goal
European High-Level Conference on Carbon Capture and Storage 5 Sep 2019, Oslo, NO	Attendee	Introducing project, raising awareness on CCUS SET-Plan, attracting members
Innovation Fund workshop for CCS 6 Sep 2019, Oslo, NO	Attendee	Provide inputs to DG CLIMA on the design elements for the Innovation Fund
Workshop on CCU Funding (Innovation Fund H2020) 19 Sept 2019, Brussels, BE	Speakers Co-organiser	Visibility of candidate IF projects, explanation of IF concept / Feedback to DG CLIMA for IF design / Matchmaking and consortium building
ZEP event on Industrial Decarbonisation 8 Oct 2019, Brussels, BE	Organisers	Raise awareness in policymakers, advocate for CCS/CCU and its role in industrial decarbonisation for EU regions
Joint knowledge sharing workshop: SET Plan IWG9 & CCUS Project Network 16 Oct 2019, Den Haag, NL	Co-organisers	Coordination, cooperation and reaching out to the EC, Description of IWG9, large scale projects: Policy
Power2Gas Conference 22-24 Oct 2019, Marseille, FR	Speaker	Introducing project, raising awareness on CCUS SET-Plan, attracting members
NCCS Consortium Days 22-23 Oct 2019, Trondheim, NO	Speaker	Introducing project, raising awareness on CCUS SET-Plan, attracting members
CCUS 2019 Conference: Capturing the Clean Growth Opportunities 06 Nov 2019, London, UK	Speakers Organisers	Reaching wide range of stakeholders; high priority for CCUS in political agenda; Leadership in the energy transition; business case for CCUS, investment along the CCUS supply chain.
European Summit of Industrial Biotechnology 18-19 Nov 2019, Graz, AT	Speaker	Introducing project, raising awareness on CCUS SET-Plan, attracting members



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SET-Plan CCUS series Webinar #1: Industry and end-users perspective 25 Nov 2019, (virtual)	Organiser	Identify industry needs and R&I priorities for enabling CO ₂ capture
1 st national conference on CCU 5-6 Dec 2019, Bari, IT	Speaker	Introducing project, raising awareness on CCUS SET-Plan, attracting members
Event in the European Parliament, MEP Chris Davies “Removing CO ₂ from the Atmosphere” 11 December 2019	Speaker Organiser	Gave input on importance of CO ₂ infrastructure to lead to negative emissions
Joint knowledge sharing workshop: SET Plan IWG9 & CCUS Project Network 23 Jan 2020, Belgium, BE	Speakers Co-organisers	Highlighting key issues around development of large-scale projects (e.g. CO ₂ quality)
Webinar on CCU in IPCEI 24 Jan 2020, (virtual)	Organisers	Raising awareness on IPCEI; mobilising industries for increased collaboration with Member states
ZEP Conference on CO ₂ Transport and Storage Infrastructure 28 Jan 2020, Brussels, BE	Organisers	Outreach to European institutions and partners about the importance of CCS/U in meeting 2050 targets
SET-Plan CCUS series Webinar #2: R&I needs for CO ₂ capture for H ₂ production and transport 18 Feb 2020, (virtual)	Organisers	Identify industry needs and R&I priorities for enabling CO ₂ capture for H ₂ production and transport
Delivering on Net-Zero: Supporting Industrial Decarbonisation with CCS 18 Feb 2020, Brussels, BE	Speaker	Setting the scene on policy developments for CCUS in Europe
SET-Plan Action 6 Plenary meeting 6 Mar 2020, (virtual)	Speakers	Introducing the project, opening the road to collaboration among SET-Plan actions
SET-Plan CCUS series Webinar #3: R&I needs for CO ₂ capture in industry 1 Apr 2020	Organisers	Identify industry needs and R&I priorities for enabling CO ₂ capture at industrial scale
Joint knowledge sharing workshop: SET Plan IWG9 & CCUS Project Network 20 Oct 2020, Belgium, BE	Speakers Co-organisers	Input regarding key enablers and hurdles for large-scale CCUS deployment
Workshop on mineralisation 15 Dec 2020, (virtual)	Organisers	Highlighting the role of mineralisation in reducing CO ₂ emissions in industry
Global Sustainable Technology & Innovation Community (G-STIC) 16 Oct 2020, (virtual)	Speaker	Raising awareness on CCU & SET-Plan
NCCS Consortium Days 4 Nov 2020, (virtual)	Speaker	Presenting the role of CCS in the energy transition, incl. opportunities for alignment of EU and national funding



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Workshop on CCU Funding as part of the 4 th CO2 Value Day 10 Nov 2020, (virtual)	Speaker	Overview of funding possibilities, consortia building
NEGEM Worksp on carbon dioxide removals 18 Nov 2020, (virtual)	Speaker	Principles and implementation of CDR and CCUS contribution
ERTC2020 18 Nov 2020, (virtual)	Speaker	Role of CCUS infrastructure in decarbonising the industry and power sector
SET-Plan Conference 2020 23-24 Nov 2020, (virtual)	Speaker	Progress of the CCUS SET-Plan
CCUS2020: Delivering clean & sustainable growth 2-3 Dec 2020, (virtual)	Organisers	Latest developments in CCUS, knowledge exchange, partnerships
EU Industry Days 2021 23 - 24 Feb 2021	Organiser	The future of CCU deployment: A national and European perspective; Key CCUS projects delivering industrial decarbonisation
Webinar on robust accounting for Carbon Dioxide Removal 10 March 2021, (virtual)	Organiser	Discussing the principles the principles, practices and technologies that fulfil the requirements to be considered effective for successful CDR
Webinar on cross-border, European CO2 transport and storage infrastructure 23 Mar 2021, (virtual)	Organiser	Highlighting the enabling role that a cross-border CO2 infrastructure will play in reaching EU's climate goals
ECCSELERATE webinar 28 April 2021	Speaker	The importance of CCU infrastructure and industrial facilities
Webinar R&I Opportunities for a fossil-free Europe 29 April 2021, (virtual)	Organisers	Funding opportunities including the relevant topics of Horizon Europe, EIC, IF, the European Innovation Council, the Innovation Fund.
EU Green Week 2 June 2021, (virtual)	Organisers	Highlighting the role of CCS to achiven Europe climate neutrality targets
Carbon Pricing Conference 3 June 2021, (virtual)	Moderator Speaker	Highlighting the importance for financing instruments to ramp up CCUS infrastructure
Trondheim CCS conference, 22-23 June 2021, (virtual)	Organisers	Development of CCS among R&D institutions and industry
CCUS SET-Plan Workshop on CCUS Roadmap 08 Oct 2021, (virtual)	Organisers	Feedback gathering for the elaboration of the EU Roadmap for CCUS
CCUS Forum 11 Oct 2021, (virtual)	Moderator	Launching the EU CCUS Forum as a strategic body to develop a EU CCUS Strategy
CCUS2021: Leading on net-zero and clean growth 12-14 Oct 2021, London, UK	Organisers	The role of CCUS in the net zero transition; technical sessions about public perceptions, negative emissions; R&D in CCUS



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Carbon Capture Technology & Expo Europe, 20 Oct 2021, Bremen, DE	Speakers	State of play on CCU and CCS, raising awareness on the SET-Plan
SET-Plan IWGs working seminar 21 Oct 2021, (virtual)	Speakers	Update on progress of IWG9 (CCUS SET-Plan)
EU Sustainable Energy days 2021 26 Oct 2021, (virtual)	Organiser	Paving the way for decarbonised industry with CCS"
17th Carbon Dioxide Utilisation Summit, 27 Oct 2021, Brussels, BE	Speaker	State-of-play for CCU in Europe and policy framework
UKCCSRC Conference – Delivering on COP26 - CCS across the world, 7 Sep 2021, online	Speaker	Global overview of topical CCS developments
Webinar on Policy, business, and social challenges for CDR and CCS and carbon capture & storage 1 Nov 2021, (virtual)	Organiser	Highlighting non-technical issues behind the importance of CDR and CCS
COP26 1-6 Nov 2021, Glasgow, UK	Speakers	CCS for a just transition and the need for cross-border CO2 transport and storage infrastructure in EU legislation
NCCS Consortium days, 10 Nov 2021, Trondheim, NO	Attendee	Raising awareness over CCUS SET-Plan
Greener Manufacturing Show, 10 Nov 2021, Cologne, DE	Speaker	CCU in the Manufacturing industry, raising awareness over the SET-Plan
SET-Plan Conference 25-26 Nov 2021, Bled, SL	Speakers	Progress of the CCUS SET-Plan
EU Industry days 2022 9 February 2022, (virtual)	Organisers	Inputs for a EU strategy for CCS and CCU: Safeguarding European industrial competitiveness
SET-Plan WGs Cooperation conference 8 March 2022, (virtual)	Speakers	Synergies among IWGs within a set of priorities (e.g. energy efficiency, renewables, circularity, LCA)
CCUS SET-Plan Final Conference and future perspectives 01 April 2022, (virtual)	Speakers Co-organisers	Overview of CCUS SET-Plan activities and results, project case studies, EU update

Collaboration with further initiatives

During the course of the CCUS SET-Plan project, a series of partnerships and collaborations with further initiatives has been initiated and developed. The purpose is to share knowledge, create synergies and avoid duplication of work.

Initiative	Involvement
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CCUS Projects Network	Strong, ongoing cooperation with CCUS SET-Plan in several occasions (joint knowledge sharing workshops, participation in CCUS SET-Plan plenary participation, ZEP Advisory Council meetings)
PHOENIX	Participation in IWG9 subgroup “utilisation” meetings
Hydrogen Europe	Collaboration for IPCEI and Innovation Fund (CO2VE) and cooperation with ZEP
CEFIC	Participation in IWG9 subgroup “utilisation” meetings (Oct 2019, Mar 2020)
EERA – Joint Programme on CCS	Strong, ongoing cooperation and continuous involvement between IWG9, ZEP, EERA. SINTEF and BGS are programme coordinators and sub-programme “CO2 storage” coordinators, respectively with regular meetings providing feedback to the work of CCUS SET-Plan for the storage Atlas and the storage appraisal
Accelerating CCUS Technologies	Strong cooperation, knowledge exchange, participation in evaluation panels, presence in CCUS SET-Plan plenaries and ZEP working groups.
Clean Energy Ministerial CCUS Initiative	Ongoing cooperation.
Mission Innovation	Continued cooperation with ZEP on the international missions clean hydrogen and carbon dioxide removal; input in MI events
Global Alliance Powerfuels	Participation in IWG9 subgroup “utilisation” meetings
Global CO2 Initiative	Cooperation on Life cycle assessment and Techno-economic assessment of CCUS technologies
IEA GHG	Strong, continuous cooperation with ZEP and CCSA, participation in CCUS SET-Plan plenaries and reference group support for the study “ Review of CCU and CCS in future EU decarbonisation scenarios ”.
EU Projects	CCUS SET-Plan consortium members are acting as Advisory Board members or speakers in events organised by various EU Projects, thereby making the link with the SET-Plan and raising awareness (e.g. Strategy CCUS, eCOCO ₂ , BioRECO ₂ VER, GENESIS, etc.)
GCCSI	ZEP/CCSA often invited to speak at GCCSI events. Strong, ongoing cooperation and participation in CCUS SET-Plan plenaries
SET-Plan Action 6	CO2VE being member of the SET Plan Action 6; common presence in workshops on synergies among SET-Plan IWGs
Norwegian CCS Research Centre – NCCS	Participation to NCCS Consortium Days 2019
Carbon Circular Network	Index of of companies capturing, using and removing CO2 (CO2VE contributed to the creation of the index)
CINEA informal group of CCUS and alternative fuels projects	Continued participation in CINEA informal group (3 meetings so far) of CCUS and alternative fuels projects for knowledge sharing and synergy creation in common challenges (e.g. LCA, policy framework)



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Strategic inputs

The CCUS SET-Plan has acted as a stakeholder providing inputs in consultations for the development of EU strategies and partnerships:

- Contribution in the elaboration of the [Clean Energy Technology Partnership](#)
- Contribution in the elaboration of the EU Strategy for [Energy Systems Integration](#)
- Annual contributions to the [SETIS](#) Annual Reports for the elaboration of the SET-Plan monitoring progress reports
- Contribution in the design of the Horizon Europe Work Programmes and inputs on [R&D&I priorities](#)
- Contributions to SET-Plan Steering Group meetings, IWGs workshop and H2020 CCUS & Alternative Fuels Cluster meetings

Policy engagement

- An extensive engagement plan with representatives from the European Commission, Members of the European Parliament and Member States to highlight [key enablers and discuss hurdles](#) of CCUS in Europe (funding, policy, strategic approaches), to showcase the [progress](#) on the CCUS SET-Plan targets and the ambition of the [revised targets](#), to highlight with [project case studies](#) the contribution potential of CCS and CCU (see also project databases [here](#) and [here](#)) to Many of these meetings are organised separately by members of the CCUS Consortium and address issues raised by the work conducted within the CCUS SET-Plan.
- Regular meetings among the dedicated working groups and advisory councils of ZEP/CCSA/CO2VE where CCS and CCU developments and challenges were discussed and advanced. A series of policy papers, technical reports and recommendations are the fruit of these discussions. Many of these discussions are initiated and fed by the work conducted within the CCUS SET-Plan project, even if no dedicated resources for these meetings were covered by the CCUS SET-Plan budget.
- Responses to past and on-going EU consultations from the members of the CCUS SET-plan consortium include recommendations and opinions that were developed through the work of the CCUS SET-Plan.

EU Roadmap for CCUS

A significant part of the work within the CCUS SET-Plan has been compiled into a CCUS Roadmap to 2030. The CCUS Roadmap to 2030 aims to identify and stress the actions that will be necessary for the large-scale development and deployment of CCS and CCU in the 2020s, build on the work done within the CCUS SET-Plan, and provide an overview of the status of the technologies today. The roadmap also includes a list of actions to be taken by European and national policymakers to underpin the European development of CCS and CCU.



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The Roadmap to 2030 aims to give as clear as possible information to policymakers at EU and member state levels as well as projects, companies, and the finance community on what needs to be done in the 2020s in order for Europe to be on the right track to become climate-neutral by 2050:

- The role of CCS and CCU for a just and cost-efficient climate transition – delivering decarbonisation for Europe, safeguarding industrial competitiveness and welfare, creating new jobs while preserving existing ones, and delivering climate benefits.
- What will be needed in this decade referring to policy frameworks, business models, R&D&I, enablers, and barriers to tackle, etc.
- Showcasing Europe as a global leader on low-carbon technologies and just transition.
- A clear action plan for policymakers.

The roadmap is connected to a set of annexes - deliverables D3.1 to D3.8 - that provide recommendations on the steps necessary to deliver the CCUS SET-Plan R&I Activities.

Legacy for IMPACTS9 successor

The exploitation of the results of the CCUS SET-Plan grant (IMPACTS9) in a successor grant is a natural outcome of the project. Conscious of the need for continuity and of the requirements of the new grant (responding to the Horizon Europe topic HORIZON-CL5-2021-D3-02-15: Support to the activities of the ETIPs and technology areas of the SET Plan; deadline 05/01/2022; results not known yet), the current grant undertook the following activities:

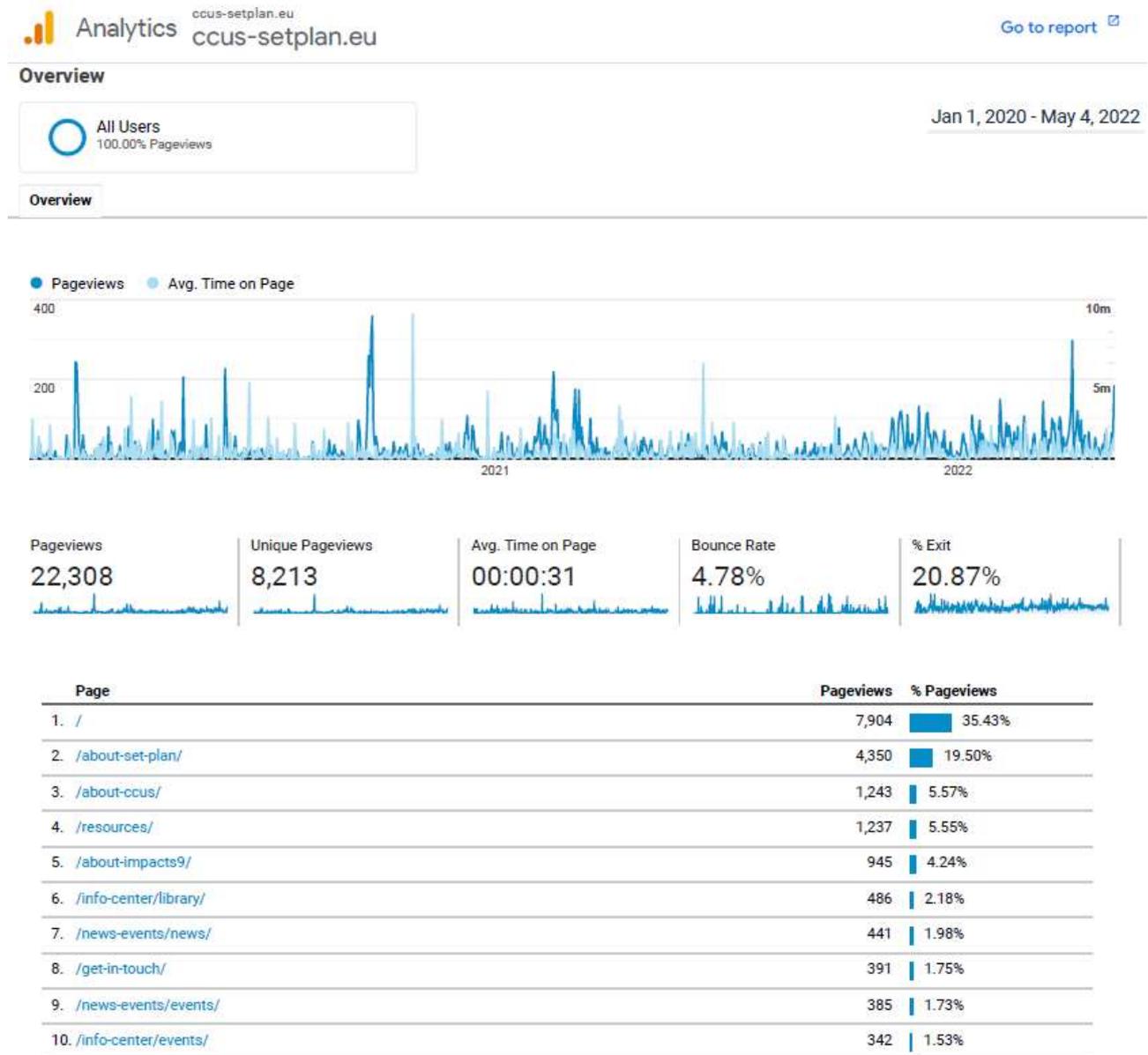
- A visual identity and website that focuses on the CCUS SET-Plan and not on IMPACTS9 for a swift and interrupted take-over by the successor grant
- A guide for applicants submitting a project proposal, approved by the CCUS SET-Plan plenary and summarising recommendations for focus areas for the next three years, as a result also from lessons learnt during the current grant period.
- A series of deliverables and a EU Roadmap for CCUS that provide a solid basis for the future grant to update the CCUS SET-Plan Implementation Plan and follow the [revamping of the SET-Plan](#) and the role of CCUS accordingly.



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Annex I

Website metrics

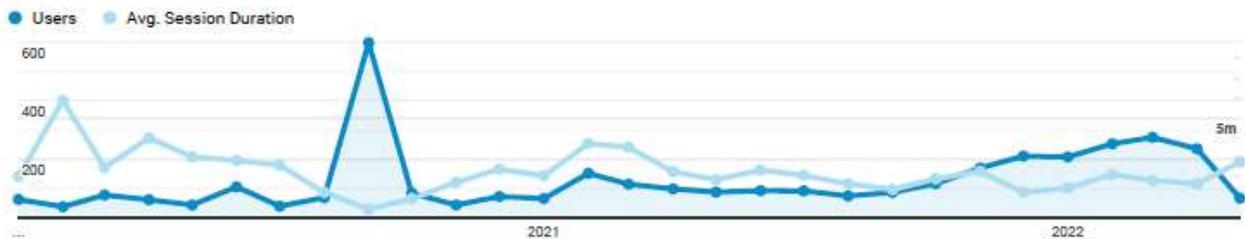


Audience Overview

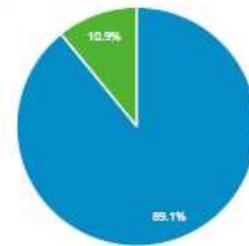
All Users
100.00% Users

Jan 1, 2020 - May 4, 2022

Overview



New Visitor Returning Visitor



Country	Users	% Users
1. United States	466	13.50%
2. Belgium	446	12.92%
3. China	263	7.62%
4. Norway	244	7.07%
5. United Kingdom	195	5.65%
6. France	175	5.07%
7. Germany	171	4.95%
8. Netherlands	147	4.26%
9. Spain	128	3.71%
10. Italy	110	3.19%



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