Enabling Positive Tipping Points towards clean-energy transitions in Coal and Carbon Intensive Regions

www.tipping-plus.eu

D6.1: Plan for Dissemination and Outreach of Results (PDOR)

Work Package: 6

Leader Organization: UPRC

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Preface

TIPPING+ will provide an empirical in-depth social science understanding of fundamental changes in sociodemographic, geographical, psychological, cultural, political, and economic patterns which give rise to Social-Ecological Tipping Points (SETPs), both positive and negative in relation to socio-energy regional systems. Such empirical and theoretical insights will shed new light on the interdependencies between changes in regional socio-cultural structures and the technological, regulatory and investment-related requirements for embracing (or failing to embrace) low-carbon, clean-energy and competitive development pathways in selected coal and carbon-intensive case study regions (CCIRs). The overall goal is to understand why and under which conditions a given social-ecological regional system heavily dependent on coal and carbon-intensive activities may flip into a low-carbon, clean energy development trajectory – or on the contrary may fall into an opposite trajectory with all its negative implications. Towards this goal, the main focus of TIPPING+ is the participatory co-production of knowledge on the driving forces and deliberate tipping interventions leading to the emergence of positive tipping points toward clean energy transitions in European CCIRs.

Who We Are

	Participant Name	Short Name	Country	Logo
1	Global Climate Forum e.V.	GCF	DE	
2	Delft University of Technology	TUD	NL	
3	CIRPA - Università Degli Studi di Roma La Sapienza	UR	IT	
4	Institute for Advanced Sustainability Studies e.V.	IASS	DE	
5	Paris School of Economics	EEP PSE	FR	
6	Nordland Research Institute	NRI	NO	
7	Universitaet Graz	UG	AT	
8	University of Piraeus Research Center	UPRC	GR	
9	Palacky University Olomouc, Faculty of Science	PUO	CZ	
10	Westport Consulting	WPC	BA	
11	National School of Political Studies and Public Administration	SNSPA	RO	
12	Institute for Structural Research	IBS	PL	
13	Aalborg Universitet	AAU	DK	
14	PT Sustainability and Resilience	Su-Re.Co	ID	
15	Eco-union	Eco-union	ES	
	International Partners			
16	University of Greenland	Ilisimatusarfik	GL	
17	Innolab Space Canada – Center of Urban Transitions	Innolab Space	CA	

Executive Summary

This deliverable presents how TIPPING+ Plan for Dissemination and Outreach of Results, drafted as Deliverable 6.1 has been implemented and enhanced since its second submission in M12 of the project. The purpose of this report is to describe the adopted approach as well as the progress of the implemented activities for the dissemination of TIPPING+ and its outcomes during the second year of the project.

The purpose of the Dissemination and Outreach activities is to:

- ***Raise awareness*** among broad, equitable, policy relevant and diverse groups of regional stakeholders, about the project's activities and the concept related to identifying positive or negative tipping points in CCRIs;
- Share and ***promote results and outputs*** to the appropriate audiences using tailer-made dissemination means, in order to guarantee the widest possible outreach and application of project outcomes to potential beneficiaries (external exploitation);
- Increase the ***experience of partners*** in subjects related to CCRIs and Social Ecological Tipping Point, which will in turn enhance the exposure of project outcomes (internal exploitation)

The production of this update of the Plan for Dissemination and Outreach of Results follows the previous update submitted in April 2021. In the last 12 months, the focus of the dissemination and communication activities was to support the progress of the case studies, promote participation in relevant events and conferences and showcase the project's publications and case studies' work. The communication material is finalized and has already been used to share the scope and results of the project with its audience.

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1 Introduction

TIPPING+ objective is to further the scientific and practical understanding of why and under which conditions regional systems heavily dependent on coal and carbon-intensive activities flip into low-carbon, clean energy development trajectories; or on the contrary, go in the opposite direction with all their negative social-ecological implications. TIPPING+ have brought together an international transdisciplinary team of scientists working closely with practitioners and civic organisations to understand and bring about the emergence of positive Social Ecological Tipping Points in coal and carbon-intensive regions (CCIRs).

The Plan for Dissemination and Outreach of Results (PDOR) supplemented by the Plan of Stakeholders Engagement (PLAS) establishes a comprehensive strategy to convey TIPPING+ messages and gather appropriate feedback regarding the popularity of the activities and outcomes that emerge as a result of the more than 20 case studies analyzed in the context of TIPPING+. Constant and targeted dissemination is essential for take-up and take-up is crucial for the success of TIPPING+ and for the sustainability of its outcomes in the long term.

This report is the second update of PDOR, and the plan itself can be found online at: https://tipping-plus.eu/sites/default/files/deliverables/D6.1_Plan_for_Dissemination_and_Outreach_of_Resuts.pdf. The report is structured as follows. In Section 2, the concept of the PDOR in TIPPING+ is presented. In Section 3, the Dissemination and Outreach Task Force (DOTF) and the decisions that have been taken during the second year of the project as presented. In Section 4, the target audience of TIPPING+ is described and mapped to communication means. In Sections 5 and 6, the dissemination tools produced during the project as well the implemented and planned dissemination activities are illustrated respectively. In Section 5, the Performance Indicators and Dissemination Targets and the achieved progress to this date are monitored.

2 The concept

The PDOR of TIPPING+ provides the foundation for the dissemination and exploitation activities that have been and will be implemented during the project in order to transfer the knowledge generated and maximize its impact. Efficient dissemination is a fundamental activity since it will enable the various target groups interested in clean-energy transitions of CCRIs, to be informed and utilize the project's results and outcomes.

Maximum impact can only be achieved with carefully designed dissemination activities and direct access to the target audiences, in particular those of the case study regions. In the case of TIPPING+, where partners from different disciplines are involved and the audience consists of academic and non-academic individuals, the design of dissemination activities required a tailor-made, multi layered approach. This is, also, amplified due to the COVID-19 outbreak, which, at the time of writing this report, still impacts dissemination and outreach activities to revolve mainly around electronic means.

A key aspect of the dissemination plan is the "M.A.T." communication approach [1] (Figure 1), which is translated into M for messages, A for audiences, and T for tools.

Figure 1: M.A.T communication approach

This approach aims to achieve appropriate matchmaking for the: (i) messages that need to be disseminated, (ii) the audiences to which they need to be disseminated and, (iii) the appropriate tools that should be used to meet the goal of broad but also targeted dissemination. Relevant questions that need to be answered to perform appropriate matchmaking are:

- What is the results/message that needs to be disseminated?
- Who may be interested in that?
- Who may use this result?
- What is expected to be the impact?
- How will the information be disseminated?
- When will the information be disseminated?

Answering these questions facilitates a tailor-made communication approach for each target audience. Therefore, when a decision needs to be made regarding the dissemination means to be used, the above bullet point questions can amplify partners' experience, and act as a checklist for the proper selection of disseminations means. Most relevant in deciding the kinds of messages to be communicated is the fact that the PDOR needs to be designed not as a supply-driven exercise where experts tell audiences what they need to know, but mostly as a demand driven deliberative process, where stakeholders, through interaction with TIPPING+ research identify the most critical knowledge sources, networking opportunities and visions that need to be

highlighted to support low-carbon, clean-energy transitions in the selected regions. Another important aspect of the PDOR is to measure the progress of dissemination activities, in relation to the targets that have been set by the project, as presented in Section 7 of this report.

The TIPPING+ community (the TIPPING+ Stakeholders Consultation Group) was established in Task 6.2 and was presented in detail in D6.2 (Plan of Stakeholder Engagement (PLAS), due in M6) supports the dissemination of targets achievement. Specifically, it forms a stakeholders pool for distributing TIPPING+ results, consisting initially of stakeholders selected according to explicit criteria of representativeness and relevance from partners' professional networks, and later complemented with new ones relevant to further improving the understanding and applying the concept of SETPs to support low-carbon clean-energy transitions in the selected CCIRs. Furthermore, Task 6.2 established a feedback loop with stakeholders, that enabled project partners to capture their reactions to the project outputs, including their perspectives in the case studies' analyses, as well as receive feedback on the dissemination means which are most useful to them.

The TIPPING+ target groups (audiences) are described in Section 4, while the tools that will be used, as well as the dissemination activities, are presented in Sections 5 and 6 respectively. Furthermore, the measurement of the achieved progress of the dissemination activities, in direct numbers as well as in relation to the established project's targets, is an important aspect of this updated version of PDOR, coming two years after the beginning of TIPPING+ and is presented in detail in Section 7.

3 Dissemination and Outreach Task Force

The Dissemination and Outreach Task Force (DOTF) has been established since the early steps of the project and is steering the dissemination and outreach activities, as well as the coordination of dissemination efforts along with the entire consortium. The DOTF consists of the WP6 leader (TEESlab – UPRC), the WP6 deputy leader (EcoU), and the project coordinator (GCF), and works closely with all Case Study leaders, Work Package leaders and the rest of the Consortium to ensure effective dissemination of project outcomes.

Since TIPPING+ is performing a multitude of case studies in diverse regions and contexts, which will be analysed under diverse disciplines, partners' expertise in conveying the right messages to the appropriate target groups is of paramount importance. Project partners are expected to contribute with key messages derived from their interactions and analyses within their Work Package or Case Studies, which will be disseminated using the appropriate dissemination means (Section 5) to attract and reach out to diverse target groups. Project partners are required to actively engage with their target audience and networks and to report to the DOTF their dissemination activities through both the TIPPING+ dissemination channels and their personal/institutional networks.

All meetings of the DOTF are documented and minutes are made available to the Consortium on the shared repository. The TIPPING+ shared repository changed during the second year of the project from Dropbox to Next Cloud hosting suit allowing users to sync and share files in a fully secure way through an encrypted connection.

So far, 11 DOTF online meetings have taken place and the following decisions have been taken during the second year of the project:

- Modification of the previously established structured TIPPING+ online repository (Dropbox) to Next Cloud where project-related material is available to all partners, and interaction between partners (e.g., commenting on files, notification posting).
- Coordination of the outreach activities for structuring the project's involvement in relevant networks and connecting with H2020 sister projects. A joint event will take place during autumn 2023.
- Frequent publishment of TIPPING+ Newsletters in the future with shorter content, emphasizing results.
- The remaining issues of TIPPING+ Videos, Infographics and News Alerts, will be published during the last year of the project, i.e., after M24 when the Case Study and integration outcomes will be produced, as efficient tools to reach the broad TIPPING+ audiences.
- Production of TIPPING+ open-access special issue (SI) and a scientific book was determined. Two dedicated coordination groups were created, responsible for the production of the SI and the scientific book, accordingly.
- Update of the Working Document Template and creation of a tool to facilitate WDs coordination and monitor their progress and status, as well as support

partners in providing their ideas for collaborations.

- Update of the TIPPING+ website. In particular, the description of the case studies as well as the contact information for each case study in order to reflect the research progress and to correspond to the current participants of the project.
- A series of meetings to facilitate the organisation of the Transformations 2021 Conference on Enabling Positive Tipping Points in Uncertain Times and increasing its outreach were held. During these meetings, technical issues regarding the coordination of the Conference as well as tools to support the dissemination of the Conference were discussed.

4 Target Groups

The purpose of creating a dissemination and outreach plan lies in supporting a communication facility where the research findings from the project are readily available to those stakeholders interested in further learning and using them. Therefore, an activity of paramount importance is to detect and define the stakeholder target groups. Already from the proposal stage of the project, it has been mentioned that the target audience of TIPPING+ is the entire socio-energy system, ranging from providers to final users including intermediate actors, such as utilities, retailers, and infrastructure managers etc. Thus, the target audience consists of various stakeholders and agents who can and are leading energy transition processes in CCIRs, both from upstream and downstream sectors including the potential end-users who can be grouped in the following wide categories:

- General Public (e.g., citizens of targeted CCIRs, workers in the coal and carbon business, etc.)
- Civil society representatives, including local and national organizations or formal/informal platforms, defending the interest of citizens, communities, workers, minorities, gender, youth, or any special groups of people within CCIRs (e.g., coal miners' trade unions)
- NGOs, foundations, as well as formal or informal platforms defending general or thematic environmental and social interests in target CCIRs (e.g., WWF)
- Government representatives and members of parliaments (e.g., at regional, national and European levels)
- Local & regional authorities (e.g., representatives from municipalities, regions, countries, provincial councils, etc.)
- Policy advisors, including Think-Tanks and political parties
- Scientific community, including Research and Educational Centers (e.g., Universities, Research Institutes)
- Business sector companies (e.g., mining production, power generation, etc.) and professional associations
- International organizations, including Intergovernmental Organizations (IOGs)

As stakeholders, we consider entities that are affected by, and entities that can influence, the emergence of SETPs (both positive and negative) in CCIRs. In order to facilitate the co-creation of socially acceptable regional visions for CCRIs the Stakeholder Consultation Group (SCG) was established, comprising of diverse, equally represented stakeholders groups, and the Pan of Stakeholder Engagement (PLAS) published as D6.2 in M6, illustrated an engagement strategy using a toolbox of methods and materials for effective stakeholder engagement.

As part of the PDOR, a stakeholder categorization according to their power to impact e.g., influence low-carbon clean transitions-, and their interest in the project development and outcomes, is performed. A common method used to categorize stakeholders is the Power/interest [2], which as part of TIPPING+, is translated accordingly. Specifically, this method categorizes the stakeholders according to their power to influence clean-energy transitions in CCIRs, and their interest, either in terms

of using insights, tools and capacities developed in the project for enacting a tipping point or being affected by it. Plotting the stakeholder groups in a plot like the one presented in Figure 2, gives an overview of the handling method for each stakeholder group.

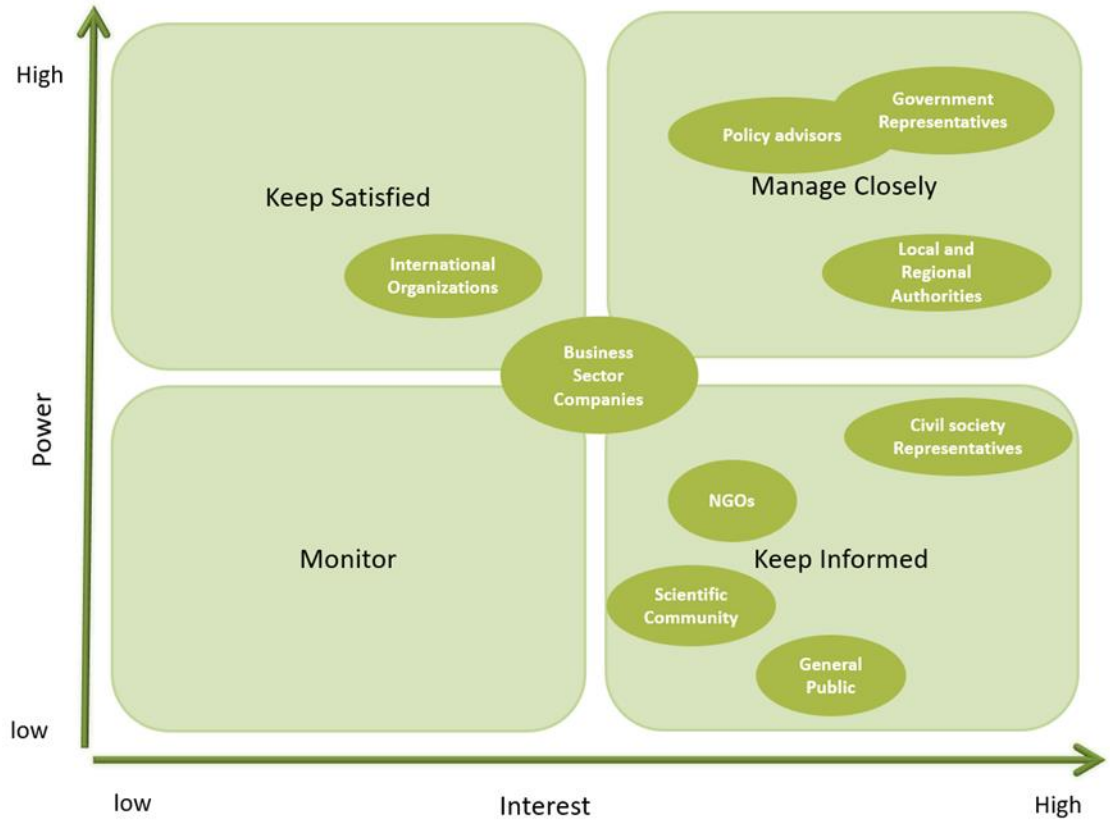

Figure 2: Stakeholders categorization. Original "power-interest grid" figure from [3] – visually adopted by authors

When both the power and interest of a stakeholder for clean-energy transitions in CCIRs are high, they can be considered key stakeholders who may have a big impact on the project's success. This group of stakeholders needs to be managed as closely as possible as they were positive recipients of project outcomes that shape their future actions. In such stakeholder groups, a regular flow of information is ensured, and a direct feedback channel is established, as part of the plan of stakeholder engagement (Task 6.2), to pay proper attention to their input, which could beneficially inform TIPPING+.

Stakeholders with high power and less interest in the project need to be kept satisfied. As they have significant influence over others but less interest in clean-energy transitions, there is a potential for inaction or even disruption in the emergence of positive SETPs in CCIRs. To ensure successful dissemination to this stakeholder group it should be kept as satisfied as possible, following a sustained communication approach, but not as intense as in the case of key stakeholders.

Stakeholders who belong to the bottom right group, have low power or influence but their interest in clean-energy transitions in CCIRs, and the project's outcomes is very high, probably because the emergence of SETPs and the results of the project affect them directly. This group needs to be kept informal, as they may constitute key players in co-developing socially acceptable regional visions in CCIRs.

In the last category, there are stakeholders that have low power but also low interest in clean-energy transitions in CCIRs, and relevant project results, but somehow are involved. These stakeholders need to be monitored and provided with minimal communication effort, such as mass communication (e.g., social media), to keep them engaged without overloading them.

Furthermore, the selection of stakeholders needs to follow representative criteria of competence and fairness [4]. To achieve this, it is important that explicit criteria are provided, to guide case studies' stakeholders selection and interaction. Such criteria include, among others, issues of gender, age, ethnicity, geographical location or professional background. In an iterative and tailor-made process with case studies, such criteria or quotas will be discussed and identified most adequately in order to characterise the most relevant agency and knowledge sources to support the TIPPING+ case studies.

To ensure the effectiveness of TIPPING+ Dissemination and Outreach activities, after identifying all relevant stakeholders who are somehow involved in the project and after placing them in the power/interest grid, it is crucial to determine the kind of communication means/tools that will be used to reach each target group and convey the messages they may be interested in.

TIPPING+ Case Studies' workshops are a core activity of the project, enabling apart from the dissemination of material, to also receive feedback, in terms of data collection (WPs 1-4) and co-creation of socially acceptable regional visions and win-win transformation strategies for CCIRs and to validate the case study analysis results (WP5). In workshops, stakeholders that would be interested in close feedback loops with the project consortium, but also have some significant power, interest, or both, should be included. Such stakeholder groups are governmental representatives, policy advisors, local and regional authorities, business sector companies, and civil society representatives (as described at the beginning of Section 4). Considering the diversity of the various TIPPING+ case studies, this selection of stakeholders to participate in workshops, is further elaborated for each case study, aiming to include stakeholders holding knowledge and having the capacity to trigger change, while ensuring relevance, representativeness, and equity among stakeholders groups. The documents that are produced during the project such as reports, policy briefs and working documents are available on the TIPPING+ website with open access to all stakeholder groups. More News alerts will be prepared when new material is available and will be communicated to the appropriate stakeholder groups interested in the produced material. For example, news alerts for:

- **Deliverables/reports** will be communicated to *all stakeholder groups*
- **Policy Briefs** will be communicated to stakeholders that belong to the "manage closely" or "keep informed" stakeholder groups, and, at the same time have the capacity to follow up with policy developments. Such groups are: *governmental representatives, local and regional authorities, policy advisors, the scientific community, business sector companies, civil society representatives, international organizations and NGOs*.
- **Working Documents** that contain technical preliminary results of the project, will be communicated to *policy advisors, the scientific community, and international organizations*
- **E-Leaflets** as a more informal means of communication will be communicated

to the "keep informed" stakeholder group: *the scientific community. Business sector companies, civil society representatives, NGOs, and the general public*

Newsletters and press releases keep the entire project's audience updated about project-related developments and events, encourage stakeholders' participation and engagement, and will present key outputs. Press Releases are by default open to everyone interested, while newsletters will be sent to those stakeholders that have subscribed to the TIPPING+ mailing list.

Posts on social networks, videos and infographics, as general dissemination means, target the whole spectrum of stakeholders groups. Links among the various social media and the TIPPING+ website are established. That way, the website material is easily distributed to social media, making the navigation from each stakeholder's social media of preference to the desired project output format possible (e.g., informal on Facebook, formal on LinkedIn, analytical on the website). Infographics will also be disseminated via newsletters.

Scientific publications and the planned special editions produced in the TIPPING+ context will be available in Open Access. More scientific publications are planned for the last year of the project. Furthermore, a TIPPING+ Special Issue at a knowledgeable peer-review scientific journal is planned to be launched. In addition to the Special Issue, a TIPPING+ scientific Book will be prepared during the project. The scope and objectives of these scientific publications are further analysed in Section 6.1.

Participation in knowledgeable conferences is enhanced. Stakeholders groups interested in scientific outreach means are expected to be the scientific community, policy advisors and NGOs.

5 Communication and Dissemination Tools Developed

Various tools have been developed to support TIPPING+ communication and dissemination activities. These are shown in Table 1 below and presented in detail in the following subsections.

All of the Dissemination tools have been uploaded or linked to the TIPPING+ website, in order to be available for the members of the Consortium, the stakeholders, and the general public.

Table 1: Communication and Dissemination tools progress

Tool	Progress	Target (Internal/External)
TIPPING+ Website	Constant updates. Available online at https://tipping-plus.eu/	Internal: Project Partners External: general public, civil society representatives, NGOs, government representatives, local and regional authorities, policy advisors, scientific community, business sector companies and associations, international organizations
Social Media	LinkedIn, Facebook, Twitter, and YouTube TIPPING+ accounts created	External: general public, civil society representatives, NGOs, government representatives, local and regional authorities, policy advisors, scientific community, Business sector companies and associations, international organizations
TIPPING+ Logo	Created, available on the TIPPING+ repository and embedded on all dissemination material	All internal and external stakeholders
TIPPING+ Templates	Available on the TIPPING+ repository	Internal: Project Partners
TIPPING+ Presentation	Available on the TIPPING+ repository	External: scientific community, civil society representatives, NGOs, general public
TIPPING+ Leaflet	Created, available on the TIPPING+ repository and website	External: general public, civil society representatives, NGOs, scientific community, business sector companies and associations

TIPPING+ Brochure	Created, available on the TIPPING+ repositoryand website	External: general public, civil society representatives, NGOs, scientific community, business sector companies and associations
TIPPING+ Poster/Roll up	Created, available on the TIPPING+ repositoryand website	External: general public, civil society representatives, NGOs, scientific community, business sector companies and associations
TIPPING+ 1st Video	Created, available on the TIPPING+ repository and YouTube channel	External: general public, civil society representatives, NGOs, government representatives, local and regional authorities, policy advisors, scientific community, business sector companies and associations, international organizations
TIPPING+ 1st Infographics	Created, available on the TIPPING+ Website	External: general public, civil society representatives, NGOs, government representatives, local and regional authorities, policy advisors, scientific community, business sector companies and associations, Internationalorganizations

5.1 TIPPING+ Logo and Graphic Guidelines Handbook

TIPPING+ logo was finalized by the first months of the project and is available at the TIPPING+ repository. The project's logo was used in all the other dissemination tools developed and constitutes the foundation of our project's identity. Moreover, guidelines for the appropriate use of the logo can be found in the accompanying graphic guidelines handbook, which is also available at the TIPPING+ repository.

Figure 3: TIPPING+ Logo

5.2 TIPPING+ Website

The TIPPING+ Website is completely functional since October 2020 and since then it

has been the main tool for spreading news and information about the project's progress to all the different stakeholders' categories. The website can be reached via the following domain name: www.tipping-plus.eu. TIPPING+ website is monitored through the google analytics platform and until this point, the website has 8,208 total sessions by a total of 6,467 users who have viewed 11,229 times its webpages. Besides, 71 people have subscribed to our newsletter.

TIPPING+ website aims to present and disseminate the TIPPING+ results, but also to be referenced as a site containing useful information and linkages related to the field of energy transition in CCIRs.

To this end, the website was created in a contemporary environment which allows continuously updating dynamic content and uploading new material easily.

The website's sitemap as it has been formed until the time of writing of this report is presented below:

Home Page: The TIPPING+ website's front page contains a three-slide banner encouraging visitors to view more about TIPPING+ Case Studies, Objectives, Partners and the International Advisory Board. Moreover, it contains a welcoming message and invites visitors to read all different TIPPING+ reports, namely, Publications, Working Documents, Policy Briefs, Deliverables. Additionally, TIPPING+ website's homepage shares with visitors the latest News and Events of the project and promotes TIPPING+ social media accounts as well as invites people to subscribe to TIPPING+ Newsletter.

About: TIPPING+ About home-page described briefly the main concept of the project and encloses the following subpages.

Objectives: This sub-page presents the main target of the project and the challenging questions, that TIPPING+ aims to answer.

Work Structure: On this sub-page, a short description of the main tasks and responsibilities of each Work Package is provided.

Case Studies: Here, all the case studies of CCIRs examined by the TIPPING+ partners are provided in a country level categorization. In addition, contact details for each case study are available. During the project, the description of the case studies was updated in order to reflect the most recent and important developments and the preliminary results of the research.

Partners: In this sup-page introductory information about TIPPING+ Consortium are presented. Moreover, visitors can read more about TIPPING+ partners, by following the corresponding hyperlink for each partner.

International Advisory Board: In this sub-page the International Advisory Board of the project is presented. Visitors can learn about the experts in STEPs that provide support, advice and guidance to the TIPPING+ Consortium.

News and Events: In this page, TIPPING+ website visitors can find the latest updates regarding the project's progress and related events. The page is divided into the following sub-pages:

- **News**: This sub-page informs about any kind of published materials and activity related to TIPPING+.
- **Events**: Here, one can find details about upcoming and already implemented events, either arranged in the context of TIPPING+ project or external events

attended by TIPPING+ consortium members in the context of the project.

Methodology: TIPPING+ Methodology occupies a separate page in the project's website as TIPPING+ transdisciplinary approach is the novelty of the project.

Library: This page contains all the public available resulting material of the project.

Specifically, it consists of the four following sup-pages:

- **Publications**: This sub-page includes scientific publications developed in the context of TIPPING+.
- **Working Documents**: Here, visitors can find technical preliminary results of the project.
- **Policy Briefs**: This sub-page includes short documents describing policy recommendations that will arise within the project.
- **Deliverables**: In this sub-page, the full documents of the TIPPING+ delivered reports (Deliverables).

Dissemination: In this page, the rest of the communication and dissemination tools are linked. Specifically, these are:

- Brochure
- Leaflet
- Roll Up
- Newsletters
- Infographics
- Videos

All of them are presented in detail in the following subsections.

Contact: In this page, the contact e-mail addresses are presented as well as the social media links. Additionally, a contact form is embodied in this page, in which visitors can reach TIPPING+ team.

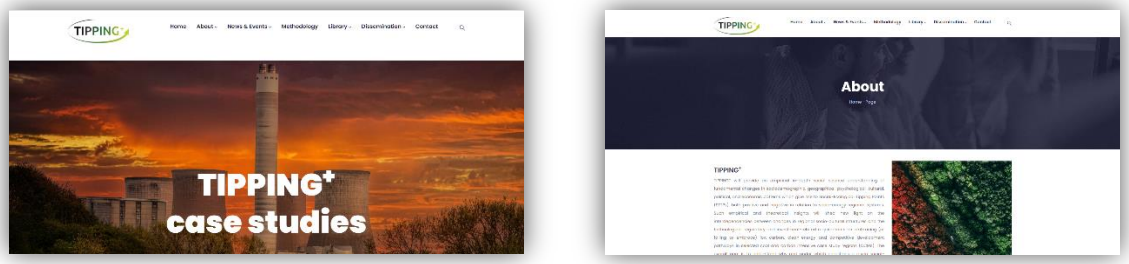

Figure 4: TIPING+ Website

5.3 TIPPING+ Social Media

TIPPING+ social media are fully in operation since October 2020. Since then, social media in association with TIPPING+ website comprise the main tools, on which TIPPING+ dissemination strategy is based. Accordingly, TIPPING+ activity on social media is regular and targeted. Several posts about the project's progress, objectives, related events and projects outcomes were uploaded, and a lot more will follow during the third year of the project when the final reports and the case studies' outcomes will be produced. New followers and visitors were attracted during the second year of the project's implementation, and TIPPING+ is continuously getting noticed. In addition, to attract specific audiences relevant to TIPPING+ research approach, relative hashtags are used to promote our posts. In particular, #tipping+ hashtag is promoted in every post about the project's achievements or related events. Moreover, the following hashtags have been included in TIPPING+ posts to promote the project to the corresponding targeted audiences:

#TIPPING+, #transformations2021, #transformative, #energytransition, #cleanenergy, #openaccess, #tipping, #social, #H2020, #dissemination, #outreach, #communication, #tippingpoints, #coal, #carbon, #intensive, #regions, #policy, #decarbonisation, #sustainable, #development, #sustainability, #climatechange, #cilimatepolicy, #energy, #transition, #stakeholders

Table 2: Social Media Tools

Social Media tool	Link	Main Achievements
Facebook	*https://www.facebook.com/Tipping-104603001380008*	32 Followers, 1,196 Post reaches, 261 post engagements
Twitter	*https://twitter.com/TippingPlus/*	192 Followers, 11,079 Tweet Impressions, 9,108 profile visits
LinkedIn	*https://www.linkedin.com/company/tippingplus/*	188 Followers, 84 Reactions, 7,093 Impressions
YouTube	*https://www.youtube.com/channel/UCHY56ingTP17Wt_sncZ61iw*	1 video with 335 Views

LinkedIn: The LinkedIn group is used in order to establish a strong identity in the professional market. Until now, it has 188 followers and 7,093 impressions. In addition, posts from TIPPING+ partners' institutional and personal accounts have contributed significantly to our project's outreach with about 500 likes and 20,587 impressions.

Twitter: Our Twitter account has been in use since October 2020. During the latest period, the TIPPING+ audience has been increased. Until now, the TIPPING+ Twitter has 192 followers and has gained 11,079 tweet impressions. Furthermore, TIPPING+

partners' posts have collected 8,666 impressions and 105 likes.

Facebook: TIPPING+ Facebook page has 1,437 total post reaches, while partners' Facebook pages have achieved more than 12,409 post reaches and more than 411 likes.

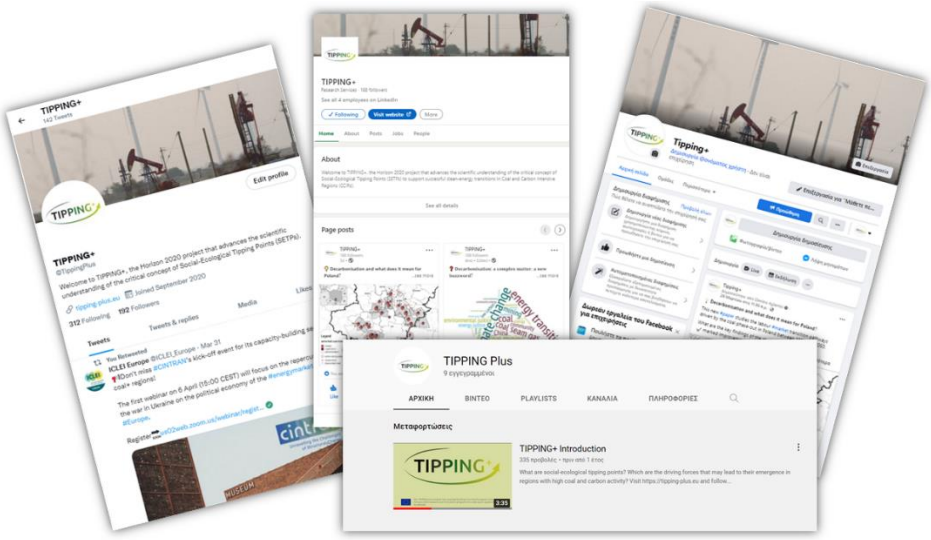

Figure 5: TIPPING+ Social Media

5.4 TIPPING+ Templates

Templates were created for all documents that may be needed for the dissemination activities of TIPPING+ and were analytically presented in the first published version of PDOR. Briefly, there have been prepared templates for Deliverables/Reports, Presentations, Posters, Policy Briefs, and Working Documents. To this date, minor changes in the initial documents have been implemented. In particular examples of these changes are, the use of Verdana font in all documents, the international partners of the project have been added in the Who We Are section and the Working Documents template was updated and several changes were applied.

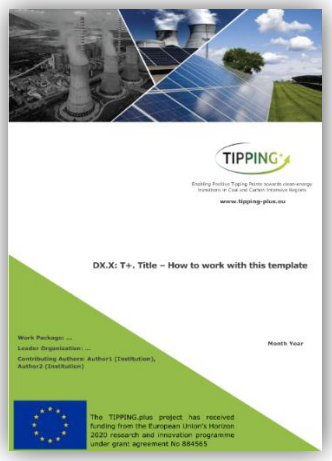

Figure 6: TIPPING+ Templates

5.5 Promotional Presentation

The TIPPING+ Promotional Presentation has been created and is available for the Consortium in TIPPING+ repository. All partners can use it and adjust it accordingly, to present and promote the project to their audiences. It includes the basic information about the project and it will be updated regularly during the project. To this date, several slides have been added, presenting the first preliminary results and challenges that emerged from the case studies analysis, the first available deliverables as well as some additional issues, some of them after effects of the COVID-19 outbreak.

Figure 7: TIPPING+ Promotional Presentation

5.6 Leaflet and Brochure

The first leaflet and brochure of TIPPING+ have already been produced. Their final versions were published by the end of October 2020. It was agreed that the main text and visual material will be the same for the brochure and leaflet, to ensure a consistent dissemination strategy. Leaflet and brochure present in a brief and easy to read way TIPPING+ objectives, case studies, and approach, emphasizing and promoting TIPPING+ novel transdisciplinary research approach.

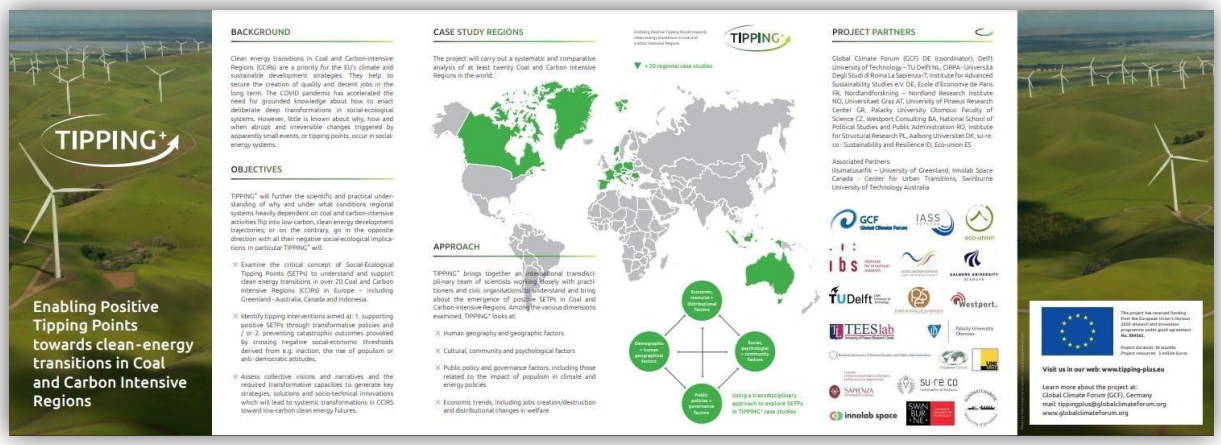

Figure 8: TIPPING+ Leaflet

Since the beginning of the project, limited physical meetings have taken place, because of COVID-19 outbreak and the resulting social distancing restrictions. As a consequence, it was decided not to print and distribute hard copies of the leaflet and brochure. Instead, the leaflet and brochure were being distributed via electronic means. Now, COVID-19 restrictions are being removed and in view of the 1st annual TIPPING+ meeting that will take place in June 2022, the leaflet and brochure will also be printed in order to be used for the dissemination purposes of the meeting.

Furthermore, leaflet was selected to be the dissemination tool translated in all case study languages. The leaflet has been translated in most of the CS regional languages and all translated versions will be used to inform local people from case study regions about TIPPING+.

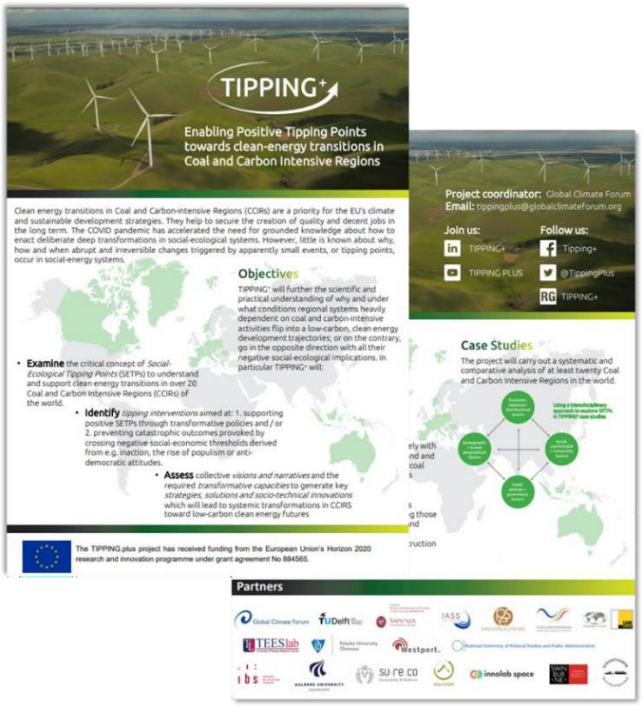

Figure 9: TIPPING+ Brochure

5.7 TIPPING+ Poster/Roll-Up

The promotional poster of TIPPING+ was created in October 2020. Until this point, it has not been presented in physical events, as they were not an option due to COVID-19 pandemic. However, as beforementioned, the gradual loosening of COVID-19 restrictions is now allowing the organisation of physical or hybrid format meetings. TIPPING+ will use all the developed dissemination tools during its first physical meeting.

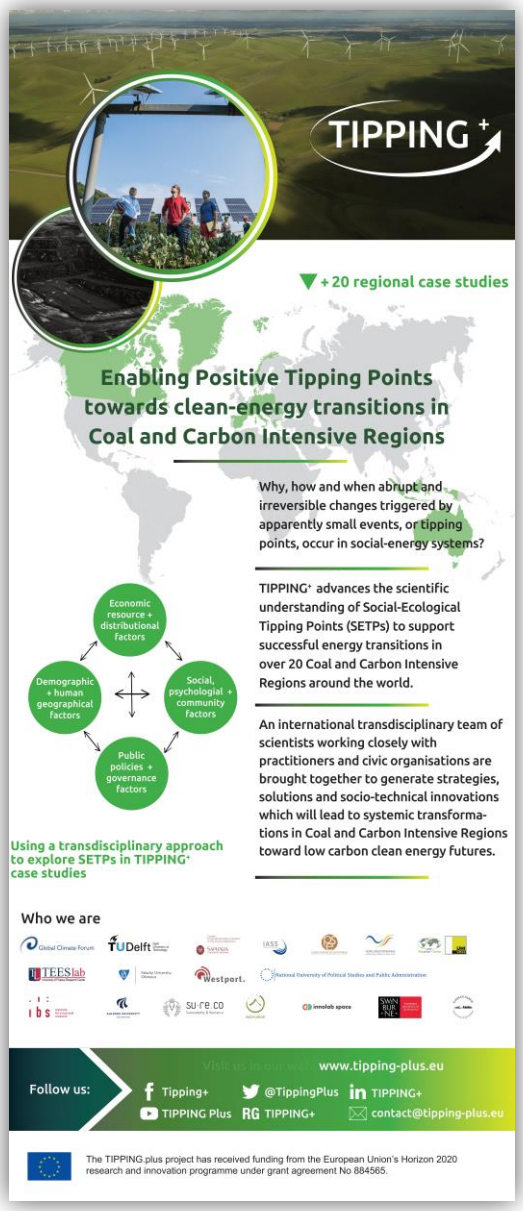

Figure 10: TIPPING+ Poster

5.8 TIPPING+ News alerts, Video and Infographics

The first News Alert, Video and Infographics were created during the first year of the project. It is envisaged that a series of six News alerts, Videos and Infographics will be produced during the project. All the remaining videos, infographics and news alerts, was decided to be published during the last year of the project to facilitate efficient and impactful dissemination and outreach of project outcomes to the targeted audiences.

News Alerts

The first News Alert issue was created in month 6 of the project. It was the outset of a series of News Alerts that are going to be published during the project on a regular basis, to inform the TIPPING+ stakeholder groups about new material produced in the context of the project. In this preliminary issue, the main features of TIPPING+ were presented. Particularly, the main objectives, the research approach, and the Case Studies of CCIRs examined within the project were described briefly.

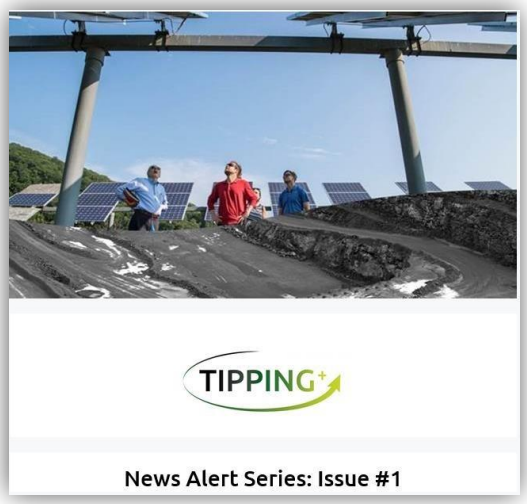

Figure 11: TIPPING+ News Alerts

Videos

The first introductory video of TIPPING+ is available on YouTube. During the video the critical concept of Social Ecological Tipping Points is explained in a plain, digestible and understandable manner. Accordingly, the key aspects of the project were presented in a similar way. The video can be watched via the following link: https://www.youtube.com/watch?v=Dsn3Qrj_IP0

Figure 12: TIPPING+ Video

Infographics

Except for videos, infographics constitute another option for visualizing knowledge and results. Infographics can provide comprehensive, clear, and quick visual representations of complex data and information. It is envisaged that six Infographics will be produced during the project.

The first issue of the series of infographics included (i) an introductory description of the main target of TIPPING+, (ii) two interactive sections presenting the more than twenty CCIR Case Studies around the world, and (iii) the main scientific disciplines that comprise the foundation of our transdisciplinary research approach.

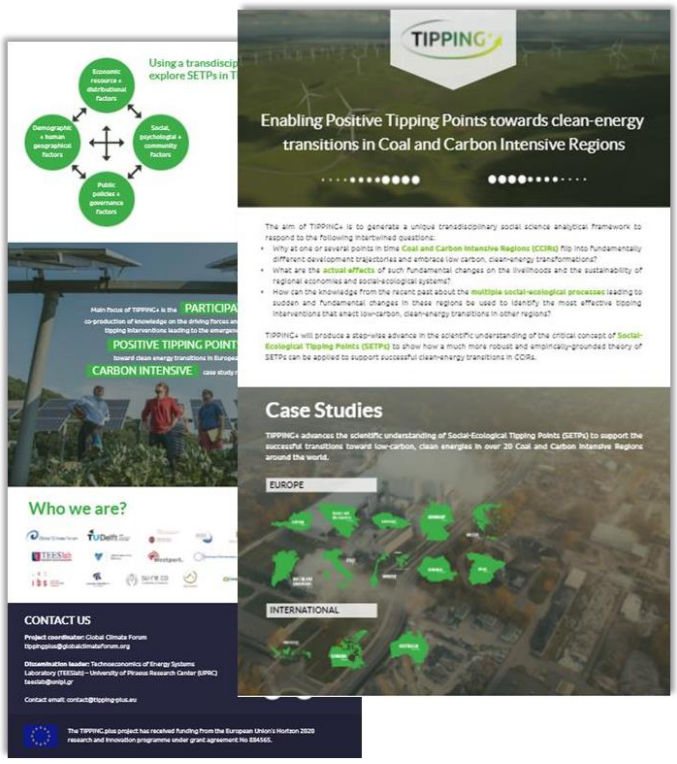

Figure 13: TIPPING+ Infographics

6 Communication and Dissemination Activities

6.1 TIPPING+ Scientific Publications

Scientific publications are one of the key means of disseminating TIPPING+ results to the research community and provide scientific credibility for the project's work. Partners are encouraged and assisted in publishing their results in open access, peer-reviewed journal and working paper series.

Peer-reviewed scientific publications will be produced during the project, based on knowledge acquired and results from TIPPING+ activities. Scientific publications will be **Open Access** and will target mainly the Scientific and Research community. Publishing TIPPING+ results in scientific journals will give the appropriate credibility to project findings.

Twenty-five (25) scientific articles are expected to be published in scientific peer-reviewed journals until shortly after the completion of the project. Five to ten (5-10) of them are expected to be based on the regional case studies implemented during the project while two to five (2-5) are expected to be cross-cutting academic papers. In addition, a Special Issue (SI) at a knowledgeable (ISI listed) peer-review scientific journal will be launched, calling for articles relevant to clean-energy transitions in CCIR, aiming to trigger scientific dialogue and attract ongoing research even after the end of TIPPING+. The repository of published scientific articles will be linked to the TIPPING+.

The Special Issue Concept Note has already been produced and its outline is presented in Appendix B. A tentative title of the issue is: "(Policy) Interventions for Socio-Ecological Tipping Points in Coal-and-Carbon-Intensive Regions". The Special Issue is planned to be published in the "Global Environmental Change" journal. Abstracts have been submitted by the consortium members of the project. The Special Issue aims to:

- Advance state-of-the-art knowledge and novelty about the social-ecological processes that unravel pathways for rapid regional sustainable transformations.
- Present grounded knowledge on how strategic combinations of (top-down and/or bottom up) interventions, provided at different points in time, sectors and regional and local levels, enabled knock-on effects helping the entire system to flip towards a low-carbon energy trajectory.
- Emphasize innovation (political, legal, social, or techno-scientific) and transformative change that can be triggered in different ways – top-down and bottom-up – and from different spheres of action- and policy relevance with various approaches that help identify, frame and assess strategies, priorities and impact derived from decarbonisation development pathways and policy interventions with high transformative potential.
- Provide novel ideas and opportunities for further engagement, capacity building at multiple levels and transformative research on change of systems towards equitable, just and sustainable development futures which requires strong

agent participation and transformative capacity building.

A TIPPING+ Book is also planned to be published in the context of TIPPING+ entitled "Social-Ecological tipping points towards sustainability: Understanding the conditions and strategies for fast decarbonisation in regions". The objectives of the Book are to:

- Advance the scientific understanding of sectoral and systemic tipping points and their interactions.
- Integrate and advance the state of the art both in the existing conceptual developments and empirical research on social-ecological tipping points (SETPs) by adopting a transdisciplinary and complex systems approach.
- To sharpen scientific knowledge about how and which feasible strategic options can replace unsustainable forms of economic wealth creation processes by green, net-positive, restorative ones while also generating tangible benefits to individual and collective livelihoods in the short term.

The expected publication date of the Book is Mid-January 2023.

To this date, the following scientific papers have been published in the context of TIPPING+:

1. Guptaa, J., Liverman, D., Bai, X., Gordon, C., Hurlbert, M., Inoue, C.Y.A.., Jacobson, L., Kanie, N., Lenton, T.M., Obura, D., Otto, I.M.., Okereke, C., Pereira, L., Prodani, K., Rammelt, C., J.Scholtens, J., Tàbara, J.D., Verburg, P.H, Ciobanua, D., 2021. Reconciling safe planetary targets and planetary justice: Why should social scientists engage with planetary targets?. Earth System Governance, Vol.10, Page 00122. https://doi.org/10.1016/j.esg.2021.100122
2. Hestad, D., Tàbara, J.D., Thornton, T.F., 2021b. The role of sustainability-oriented hybrid organisations in the development of transformative capacities: The case of Barcelona. Cities 119. https://doi.org/10.1016/j.cities.2021.103365
3. Ismail C., Wiropranoto F., Takama T., Lieu J., Virla L.D. (2021) Frugal Eco-innovation for Addressing Climate Change in Emerging Countries: Case of Biogas Digester in Indonesia. In: Leal Filho W., Luetz J., Ayal D. (eds) Handbook of Climate Change Management. Springer, Cham. https://doi.org/10.1007/978-3-030-22759-3_177-1
4. Mandel, A., Tiggeloven, T., Lincke, D., Koks, E., Ward, P., Hinkel, J., 2021. Risks on global financial stability induced by climate change: the case of flood risks. Clim. Change 166, 1–24. https://doi.org/10.1007/s10584-021-03092-2
5. Mandel, M.; Vipin, V. The Economic Cost of COVID Lockdowns: An Out-of-Equilibrium Analysis. Economics of Disasters and Climate Change 2020, 4:431–451. https://doi.org/10.1007/s41885-020-00066-z
6. Marinakis, V.; Flamos, A.; Stamtsis, G.; Georgizas, I.; Maniatis, Y.; Doukas, H. The Efforts towards and Challenges of Greece's Post-Lignite Era: The Case of Megalopolis. Sustainability 2020, 12, 10575. https://doi.org/10.3390/su122410575
7. Rizzoli V., Norton L.S., Sarrica M., 2021. Mapping the meanings of decarbonisation: A systematic review of studies in the social sciences using

lexicometric analysis. Clean. Environ. Syst. 3, 100065. https://doi.org/10.1016/J.CESYS.2021.100065

8. Stocco, N., Gardona, F., Biddau, F., Cottone, P.F., 2021. Learning Processes and Agency in the Decarbonization Context: A Systematic Review through a Cultural Psychology Point of View. Sustain. 2021, Vol. 13, Page 10425 13, 10425. https://doi.org/10.3390/SU131810425
9. Tàbara J.D., Lieu J., Zaman R., Ismail C., Takama T. 2021. On the discovery and enactment of positive Social-Ecological Tipping Points. Insights from energy systems interventions in Bangladesh and Indonesia. Sustainability Science. https://doi.org/10.1007/s11625-021-01050-6
10. Sokołowski, J., Frankowski, J., Mazurkiewicz, J., Lewandowski, P., 2022. Hard coal phase-out and the labour market transition pathways: The case of Poland. Environmental Innovation and Societal Transitions, Vol. 43, Pages 80-98 https://doi.org/10.1016/j.eist.2022.03.003
11. Virla D. Luis, Van de Ven, D-J, Sampedro J., Smith A., Pollitt H, Lieu, J. (2021 accepted). "Risk blindness in local perspectives about the Alberta oil sands hinder Canada's decarbonization." Environmental Innovation and Societal Transitions.
12. Hestad, D., Tàbara, J.D., Thornton, T.F., 2021a. The three logics of sustainability-oriented hybrid organisations: a multi-disciplinary review. Sustain. Sci. 16, 647–661. https://doi.org/10.1007/s11625-020-00883-x

In the last month of the project, a report that will summarize, organize, and make easily accessible all project's scientific publications, will be produced (D6.5) in order to facilitate readership and use by other research initiatives and cases in the field of TIPPING+.

Papers in preparation

- Frantál, B. et al: One goal, different paths and impacts: Exploring patterns of energy transition and transformation of coal mining regions in the Czech Republic. To be submitted to the Special Issue of Moravian Geographical Reports on the "The death of coal in the energy transition: Regional perspectives".
- Frajer, J. et al.: Thirty years after: Mapping the outcomes of transition of former carbon-intensive region (A case of Rosicko-Oslavansko, Czech Republic).
- Martinát, S. et al.: The rise of bioeconomy in post-mining regions as a response to environmental crisis.
- Biddau, F., Brondi, S., & Cottone, P.. Exploring the psychological dimensions of change and stability in decarbonization processes: A systematic literature review in the social science literature. Sustainability Science.
- Apostoli Cappello, E., Norton, L., Sarrica, M. (in preparation for the Tipping.Plus SI). Production and reproduction of exclusive discourses about energy transition. A gaze from the margins of a coal region.
- Biddau, F., Rizzoli, V., Cottone, P. (in preparation for the Tipping.Plus SI). "These industries have polluted consciences, we are unable to envision

change": Deconstructing and addressing psychosocial lock-in in Sulcis coal region.

- Cappello Apostoli, E. "The Power to Change. Energy, Identity and Dispossession in Sulcis". Submitte at Social Anthropology Journal
- F. Biddau, S. Brondi, P. Cottone. "Unpacking the psychosocial dimension of decarbonization between change and stability: a systematic review in the social science literature". Submitted at Sustainability Journal
- Institute for Advanced Sustainability Studies e.V. (IASS). Book chapter under review from working paper presented at the Transformative Metrics Workshop organized by Universidad de Antioquia, Sussex University, Transformative Innovation Policy Consortium

6.2 TIPPING+ Events

A series of events have already been taken place during the project. The following subsections presents the implemented and planned TIPPING+ events. The list of planned events is not exhaustive, and will be populated with more events as necessary, also considering the developments with the COVID-19 pandemic.

6.2.1 Implemented Events

Kick-off Ceremony

Due to the COVID-19 pandemic, a Kick-Off meeting with physical presence, that was initially planned, was not possible. Instead, a Kick-Off Ceremony was held, with the aim to provide to partners an overview of the project's structure, objectives, and potential challenges, but also to provide an opportunity for the consortium members to get to know each other better. Preparatory activities before the Ceremony took place to facilitate interaction among project partners, which included the development and internal sharing (uploaded to the project's repository) of templates for work package and case study presentation as well as introductory posters of partners' organizations and guidelines for personal introductory videos. Representatives from all partner's organizations and the Innovation and Networks Executive Agency (INEA) joined the Kick-Off Ceremony.

Weekly Open Communication Space (WOCS) & Monthly Open Communication Space (MOCS)

Weekly Open Communication Space (WOCS) meetings offer the opportunity for TIPPING+ Partners to present their work progress and have fruitful discussions. WOCS meetings also serve as a virtual meeting point for TIPPING+ consortium, where compelling synergies could arise. To this point of the project, 45 WOCS meetings have taken place. In addition, in September it was decided to organise Monthly Open Communication Spaces (MOCS) where experts in transdisciplinary social science and Coal and Carbon Intensive Regions (CCIRs) were invited as external speakers to present their contributions that are relevant to the TIPPING+ objectives and scope and discuss critical issues and key concepts of TIPPING+.

The external speakers that have been invited in WOCS and MOCS are the following:

- Marlou Schrover, University of Leiden: Keynote lecture on migration and economic dynamics. 25 May, 2021
- Manjana Milkoreit, Department of Sociology and Human Geography, University of Osl. Social Tipping Points: From Theory to Empirical Analysis and Policy Strategy? 2 November, 2021
- Marco Grasso, University of Milan-Bicocca: The Oil and Gas Industry nd Climate Change, From big oil to big green: Holding the Oil Industry to Account for the Climate Change. 18 January, 2022
- Andrew K. Ringsmuth, Wegener Center for Climate and Global Change: Cross-scale cooperation enables sustainable use of a common-pool resource,

Dynamics of collective action to conserve a large common-pool resource. 1 February, 2022.

- Mark S. McCaffrey, The Shadow Side Of Fractal Superpowers: scaling, narratives and the generational legacy of Homo sapiens, 5 April, 2022

TIPPING+ Integration Workshops

A series of integration workshops have been organized by WP5 and WP7. The first TIPPING+ integration workshop was held in December 2020, online. Its main purpose was to get TIPPING+ researchers acquainted with the transdisciplinary approach that will be followed in order to examine TIPPING+ Case Studies. TIPPING+ researchers were engaged in role-play scenarios, using participatory online tools, to explore four voluntary Case Studies (Austria, Canada, Greece, and Spain) from the four main scopes of TIPPING+ research approach.

The second Integration workshop took place in four (4) parts between April 2021 and June 2021, online.

The 1st part aimed to identify the mainstream narratives in all case studies of the project, the key actors, institutions and sectors supporting the mainstream narrative as well as the most relevant components present in the case study among technology, stakeholders, institutions, ideologies and policies that make the case unique.

The 2nd part's objective was to characterize the case studies regions. During the workshop, TIPPING+ participants defined the region through how it's called formally, then through its function (sector), and finally through how the region is perceived based on the literature review from WP5. Case study teams were able to consider how their region can be defined, in what ways might these three region-definition dimensions be expressed and which of these three dimensions will be most effective for narrating the transition pathways in each case study.

Then, during the 3rd phase, the CSs alternative narratives were explored. Based on the work on the mainstream narratives performed in Phase 1, participants searched for narratives that deviate from the mainstream by applying the same core components from the case study guidance: technologies, stakeholders, ideologies, institutions and policies. Participants identified on-stream pathway narratives which can promote new low carbon technologies under the 'same' system, existing only in a special space within the mainstream pathway but not challenging the current norms or the rules of the game and off-stream pathway narratives which depart from the mainstream perspective and challenge the mainstream narratives and the very power dynamics of the mainstream narrators.

In the last phase of the 2nd integration workshop, the aim was to identify transformative narratives and synergies between case studies and work packages.

The third Integration workshop took place on the 22nd of March 2022, online. The purpose was to improve the existing understanding of the cross-scale, cross-system that affect low-carbon, clean energy transitions in CCIRs. During the workshop, the CSs teams were divided into three clusters. During the break-out groups, each case study team presented the visual representation of the CS including the main elements and the narrator of the mainstream narrative, on-stream and off-stream narratives. Discussions followed the presentations focusing on the similarities, differences

potential collaboration opportunities among case studies.

The fourth Integration workshop is planned to take place during the first in-person TIPPING+ project meeting in Athens in June 2022.

Case Study Workshops

Twenty (20) regional case studies are being implemented within TIPPING+. Two (2) regional workshops per case study region were planned to be organized.

Due to the COVID-19 outbreak, most of the first series of CS workshops were held virtually. Different approaches were used among partners in order to conduct the case study consultation activities while adjusting to the new circumstances. Particularly some of the used approaches follow:

- Online workshops, using platforms like Microsoft Teams, Zoom, etc. The different features that such platforms provide (e.g., break out groups) as well as external tools (e.g., miro, jamboard), were exploited to achieve more efficient and participatory dialogue
- Semi structured interviews: an interview method that focuses on data collection and relies on asking questions within a predetermined thematic framework. The questions are not set in order or in phrasing. The aim is to collect different aspects of a research question by providing the same theoretical framework.
- Non-structured interviews: Unstructured interviews do not provide a set pattern and questions are not arranged in advance.
- Narrative interview: An interview method that focuses on data collection based on people telling their own stories and providing their own experiences regarding the subject under investigation.

The aim was to engage with stakeholders to collect data, receive feedback on the project's results, and co-create socially acceptable regional visions and goals up to 2030. To this point, the first part of the Case Study Workshops has been implemented, while the second part is planned for the following months. Further information about the second part of the Case Studies' stakeholder engagement activities is provided in the sub-section "Planned Events".

To this date, eleven Case Study Workshops have been implemented and more than one hundred and fifty interviews have been organised.

International Conference "Transformations 2021. Enabling positive Tipping Points in Uncertain Times"

The International Conference 'Transformations 2021', which focused on 'Enabling Positive Tipping Points', was held, online for the first time, on 17th -18th of June 2021 due to the COVID-19 outbreak. The Conference was attended by over 700 participants. Transformations 2021 showcased the latest developments in research and practice of transformations towards sustainability. Live co-creative sessions and keynotes occurred at different time zones, providing the opportunity to participants worldwide to join the sessions live. TIPPING+ contributed to organizing, planning, and designing the content of the conference. Over 200 abstracts distributed in over 60 sessions were submitted by academics from Europe, South and North America, Africa, Asia and Australia involved in sustainability transformations and transitions and in

particular in the domains of energy, agro-food system sustainability, climate and institutional change. The conference used both a synchronous and asynchronous format, allowing participants to both meet live during the conference but also to network and have access to the Conference materials after the event. This entails an innovative way of engagement which will be tested and refined so the lessons learned will also feed the preparation of the final TIPPING+ conference. The conference was used as a channel to gain the latest theoretical, methodological and empirical insights regarding Social-Ecological Tipping Points (SETPs) and to disseminate and evaluate the first results of the project, while the learning insights gained will be used to further target exploitation and dissemination audiences.

TIPPING+ participated in the Transformations Conference by contributing several presentations. The TIPPING+ contributions to the Conference are enlisted below:

- Tàbara, JD, Mangalagiu, D., et al. 2021 Towards transformative emergence. Assessing and enacting positive social-ecological tipping points in regional sustainability transformations. Presentation given at the International Conference Transformations 2021. 17-18 June 2021.
- Martínez Reyes A., Understanding regional energy transformations from an energy justice perspective. Presentation given at the International Conference Transformations 2021. 17-18 June 2021.
- Soledad Norton L., The cultural bases behind a radical transformation. Policies and practices of sustainability and inclusiveness in an Argentinean network of universities. Presentation given at the International Conference Transformations 2021. 17-18 June 2021.

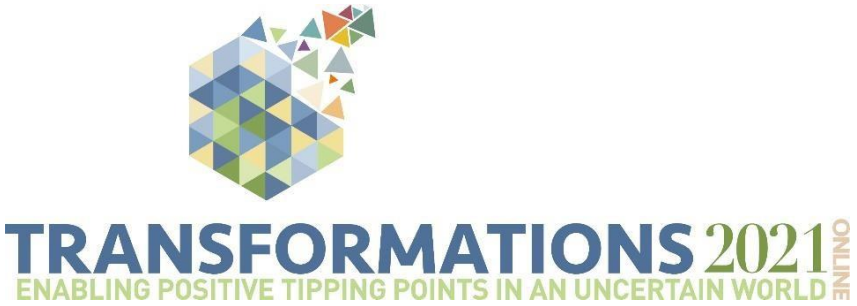

Figure 14: Transformation 2021 Online Conference

Global Just Transition(s) Workshop

The "Global Just Transition(s) Workshop: From sectoral transition to systemic transformation. Guiding just transition(s) from carbon intensive and dependent regions towards inclusive, prosperous and resilient economies, communities and societies" was organised within the framework of Transformations Conference 2021. In this workshop, around 60 participants from Africa, Americas, Asia and Pacific discussed the holistic idea for just transitions to deliver true social and environmental justice across society, building on examples and experiences from carbon-intensive or dependent regions and countries. Participants built upon and enlarged our current

understanding of the Just Transition to further shape and influence the inclusive and fair transformation of our economy and society as a whole. It aimed to improve the national or regional Just Transition frameworks in order to evolve it into a truly global and multi-sectoral concept. The on-line session took the format of an opening dialogue on the Just Transition(s), followed by panel discussions (in plenary and break-out rooms) with invited participants from different sectors and countries. The conclusions aimed to inform and inspire the further development of the Just Transformation concept and lead to the identification of international partners to build global multi-stakeholder coalitions for Just Transformation.

Figure 15: Global Just Transition(s) Workshop

General Assembly

The TIPPING+ virtual General Assembly took place on the 7th of July 2021. The agenda of the meeting included important management, administrative and communication issues as well as key aspects of the progress and developments of the case studies research. In particular, the case studies, the integration framework updated and the future activities of Work Package 5, 6 and 7 were presented. The activities of the Early Career Researcher's (ECR) were highlighted, focusing on the mission of the ECR and on the upcoming activities such as ECR presentations of PhD projects, or external studies to receive different perspectives from TIPPING+ consortium, encouragement of social networking within the project, organisation of skills workshop which would enable sharing research tools and methods to help in current research and learning new research techniques and enforcement of collaborations between case studies. During the meeting, the TIPPING+ next conceptual, methodological and empirical challenges were thoroughly discussed. In addition, the next steps regarding the scientific publications, dissemination and outreach activities as well as the stakeholder engagement plan were analysed. Lastly, the discussion focused on TIPPING+ propositions and future publications from Work

Packages 1-5 and the case studies.

Project Steering Committee Meeting

The Project Steering Committee meeting took place on 23th of February 2022. During the meeting, the Work Package's leaders presented the progress and planned activities and discussed next steps and challenges. Furthermore, the potential six-month extension of the project was discussed, with all WP leads voting in favor of the extension.

International Advisory Board (IAB) meeting

The first International Advisory Board meeting was carried out on 7th of September 2021, four months later than set out in the workplan in order to take into account the first yearly progress report of the project.

WP1-WP2-WP3 Workshop - Social Tipping Points in Coal- and Carbon-Intensive Regions Perspectives from Multiple Disciplines

WP1, WP2 and WP3 organised a joint interdisciplinary online workshop on the 19th of April 2021. Ricardo Garcia Mira, environmental psychologist and coordinator of ENTRANCES (TIPPING+ sister project) and Sander Van Der Leeuw (anthropologist and member of the TIPPING+ International Advisory Board) were invited to the workshop. Notes and visual output from the workshop can be found here: https://miro.com/app/board/o9J_lJDv1u4=/

WP4 Modelling Workshop

WP4 organised organised a modelling workshop on 16th of April 2021 presenting the econometric framework for the assessment of the regional impacts of the energy transition. The purpose of the workshop was to help participants understand current regional emission patterns inside EU regions (NUTS 2: 272 regions), and check the existence of tipping points or structural breaks in regional economies and EU's reaction. The focus was on specific regions related to mining and energy intensive industries. During the workshop, the Adaptive Policymaking Model (AIM) was introduced as a decision-support model to facilitate the participatory design of Dynamic Adaptive Policy Pathways (DAPPs, i.e., sequence of actions/policies) through near-real-time visualizations & interactive stakeholder consultation. In addition, the macroeconomic evaluation and tipping points were analysed, and the industrial clusters of the Austrian Case Study as well as the macroeconomic modelling of other TIPPING+ case studies were presented.

6.2.2 Planned Events

Case Study Workshops

The second series of the Case Studies Workshop will take place until the end of the project aiming at strengthening policy makers' capacity to understand gaps and needs, and to further improve their policy design. By implementing the second series of the Case Study Workshops, TIPPING+ partners will be able to draw insights from CSs and will promote ownership. A final conference will take place to discuss key outcomes of TIPPING+ and clear policy implications with the stakeholders.

TIPPING+ Mid-2022 Project Meeting

The gradual removal of the COVID-19 restrictions enabled the organisation of the first TIPPING+ in-person meeting that is scheduled to take place on 21, 22 and 23 of June in Athens, Greece. The physical attendance is anticipated to reach approximately 30 participants. The meeting will be a hybrid event, combining a "live" in-person event with a "virtual" online component, to support the attendance of participants who will not be able to travel.

Participants will have the opportunity to discuss the progress and the strategy for the last year of the project. The 4th Integration Workshop will be integrated into the Athens meeting. The production and the progress of the Special Issue (SI) and the TIPPING+ Book will, also, be discussed during this meeting.

Final Conference

An at least full-day long International Open Conference will be organized at the end of the project. In the conference, all accumulated knowledge during the project will be presented, including policy implications and recommendations. The conference will be organized by the WP6 co-leader (Eco-Union) in 2-3 sessions of approximately two hours, aiming to ensure active participation and substantive discussions among the audience.

6.3 TIPPING+ Policy Related Documents

Policy-related documents will disseminate in a concise way, key results and recommendations of the project. The target of such documents is the provision of targeted insight, which could aid in the policy dialogue among the various stakeholder groups, facilitating policy design towards positive tipping points and clean-energy transitions in CCIRs. The documents envisaged are Policy Briefs and Working Documents.

Policy Briefs

Five (5) Policy Briefs are expected to be published during the project with the main target audience being policy makers and stakeholders active in the policy making processes, followed by stakeholder groups that might be interested and have the capacity to follow up with policy developments. Policy Briefs will be issued at a later time, as the project is at an early stage, to this date.

Working Documents

The TIPPING+ Working Document Series is a publication format which focuses on the output deliverables of TIPPING+. Methodologies, tools and indicators, and empirical data collected and analysed during case studies are examples of material that could be presented in Working Documents. Eleven (11) Working Documents are expected to be formulated during the project and each of them will be available on the TIPPING+ website.

Figure 16: 1st TIPPING+ Working Documents

The first Working Document is already published, entitled "Towards transformative emergence. Research challenges for enabling social-ecological tipping points toward regional sustainability transformations". This Working Document presents the relevance of the boundary concept of social-ecological tipping points (SETPs) and highlights three key challenges for its robust conceptualisation and policy use in assessing regional sustainability transformations.

In addition, several contributions have been proposed, with many of them planned to be the preparatory work of scientific papers or book chapters that will be published in the TIPPING+ Special and Book, correspondingly. The TIPPING+ proposed Working Documents that are being prepared are presented in detail in Table 3.

Table 3: TIPPING+ Working Documents

Institution	Working Document Title (tentative)	Authors (tentative)
Paris School of Economics, France	"EU regional EKC clusters"	Saptorshee Kanto Chakraborty, Antoine Mandel
Paris School of Economics, France	"Understanding EU regional macroeconomic tipping points using panel threshold technique"	Saptorshee Kanto Chakraborty, Antoine Mandel
University of Graz, Austria	"Socio-economic implications of tipping interventions in the basic material industry"	Raphaela Maier, Karl Steininger, Andreas Türk
su-re.co, Indonesia Universitat Autònoma de Barcelona, Institute of Environmental Science and Technology Universitat Autònoma de Barcelona, Department of Geography	"The diverse roles and strategies of transformative networks in tipping local energy systems towards sustainability: The Case of Indonesia"	Cynthia Ismail, J. David Tàbara, Takeshi Takama, David Saurí
Institute for Structural Research (IBS), Poland	"Decoupling the Climate Issue from the Left-Wing Agenda: Potential Tipping Point for Successful Energy Transition in Poland?"	Baiba Witajewska-Baltvilka
Sapienza University of Rome (Italy)	"Production and reproduction of exclusive discourses about energy transition. A gaze from the margins of a coal region"	Elena Apostoli Cappello, Laura S.Norton, Mauro Sarrica
Sapienza University of Rome (Italy), University of Padua (Italy)	"These industries have polluted consciences, we are unable to envision change" "Deconstructing and addressing psychosocial lock-in Sulcis coal region	Fulvio Biddau, Valentina Rizzoli & Paolo Cottone
University of Graz, Austria	"Global and Local Corporate Interests driving coal: The case of Bangladesh"	Niraj U Joshia & Rafia Zamanb
Nordland Research Institute, Norway	"Realizing alternative energy futures in the Arctic: From the promise of a petroleum future to imagining the Lofoten archipelago as The Green Islands"	Anna G. Sveinsdóttir, Brigt Dale & Leticia Nogueira
National School of Political Studies and Public Administration, Romania	"Varieties of Social-Ecological Tipping Points (SETPs) in ensuring a just transition of carbon-intensive regions"	Andrei Tanaru, Arpad Todor & Robert Udrea
National School of Political Studies and Public Administration, Romania	"Un-just transformation by a thousand cuts: the Jiu-Valey"	Andrei Tanaru, Arpad Todor & Robert Udrea

Eco-union, Spain	"Windows of opportunity for systemic transformation in deprived coal mining areas. The case of Teruel" "The polycentric governance of Energy transitions in insular contexts. The case of Balearic islands"	Costa-Salavedra, C. Fosse. J.
Institute for Advanced Sustainability Studies e.V. (IASS), Germany	Empirical observations of tipping dynamics in a coal-phase out regions in Germany	Franziska Mey, Johan Lilliestam and Arno Weik
University of Graz, Austria	"Telework: A social tipping intervention for passenger transportation? "	Raphaela Maier, Annina Thaller, Eva Fleiß

6.4 TIPPING+ Newsletters, Press Releases and articles in press

A series of at least four (4) Newsletters are expected to be published and be available on the TIPPING+ website. TIPPING+ newsletters' aim is to provide information on the project's progress and events as well as to disseminate its outcomes to the TIPPING+ stakeholder groups and beyond. Stakeholders that have subscribed to the project and have provided their consent to receive online updates regarding TIPPING+ progress, will also receive the TIPPING+ newsletters by email. The impact of TIPPING+ Newsletters will be measured based on their views, subscribers, and recipients. To date, the first TIPPING+ newsletter has been released.

- TIPPING+ Newsletter: Issue 1, March 2021 The 1st issue of TIPPING+ newsletter is presented below and can be found through the following link: https://tipping-plus.eu/newsletters.

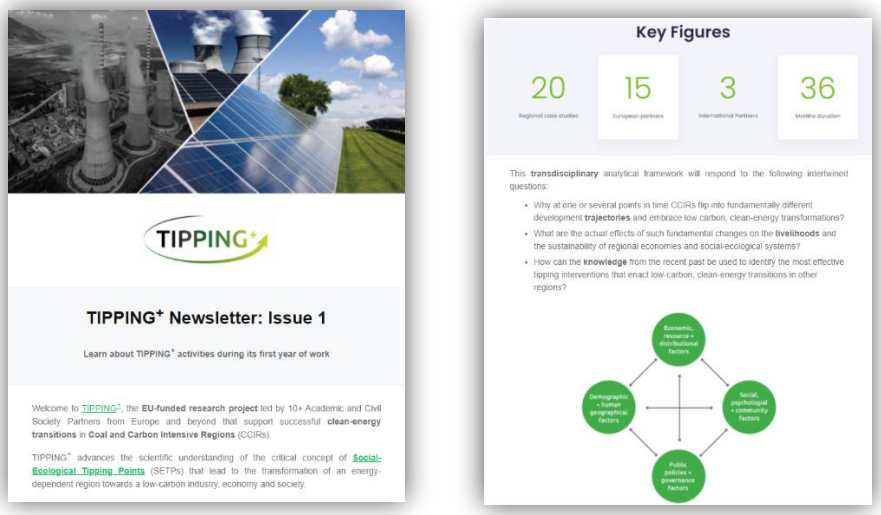

Figure 17: TIPPING+ Newsletter Issue 1, March 2021

The 1st Newsletter is presented in detail in Appendix A.

Additional to Newsletter, at least three (3) Press Releases (including articles in key industry magazines, newspapers, etc.) are envisaged to be produced during the project and will be available in the project's website. Press Releases will have more of an ad-hoc nature, aiming to disseminate recent updates for the project, ranging from key project findings to events announcement. Press releases will be issued at a later stage of the project, when the first results and outcomes of TIPPING+ research are produced and CS events are held.

Papers/Articles in Press

TIPPING+ partners disseminate the outcomes and knowledge generated within the project in the public audience through articles in the press or online magazines. The following TIPPING+ papers/articles have been prepared and published:

- Udrea, Robert, 2021. Tipping points in Jiu Valley: socio-economic and environmental determinants. The Romanian Journal of Society and Politics. In press.
- Blogpost by Tàbara, JD. 2021 published at International Science Council entitled "Enabling positive tipping points towards global sustainability in uncertain times". ISI-Transform Series (written ahead for CoP26 Glasgow, https://council.science/current/blog/enabling-positive-tipping-points-towards-global-sustainability-in-uncertain-times/).
- Mehinović H, Faruk Hadžić F, Šahić E. 2021. "The role of EU Carbon Border Adjustment Mechanism in tipping towards deep carbonization in Bosnia and Herzegovina".

6.5 Participation in External Events and Synergies with other projects

Apart from events organized by TIPPING+, project partners are encouraged to participate in external events and conferences aiming to keep the scientific community, universities, research centres, the EC, CCIRs' representatives, and other interested groups, updated about the findings of the project as well as provide policy recommendations for the emergence of positive tipping points.

Furthermore, synergies with other projects funded under the H2020-LC-SC3-2018-2019-2020 call as well as other Horizon 2020-funded projects are established.

Towards this direction, a Sister Projects clustering event was organised by the INEA and was held on November 17, 2020. Coordination between projects in order to organise stakeholder joint events was agreed during the event. In addition, joint newsletters, references to the other projects included in each project's individual newsletter, and further cooperation for dissemination activities among the 4 sister projects was decided. Another important outcome of the event was that in order to facilitate outreach, it was advised that project results should be prepared in an easily understandable and digestible way (e.g., concise Policy Briefs of one to two pages).

Figure 18: Sister Project Clustering Event

Additionally, our project was introduced at multiple conferences and meetings.

J. David Tabara presented the project in the session of the American Association for the Advancement of Science (AAAS) Annual Meeting held online on February 9, 2021 entitled "Exploring Tipping Points in Natural and Social Systems".

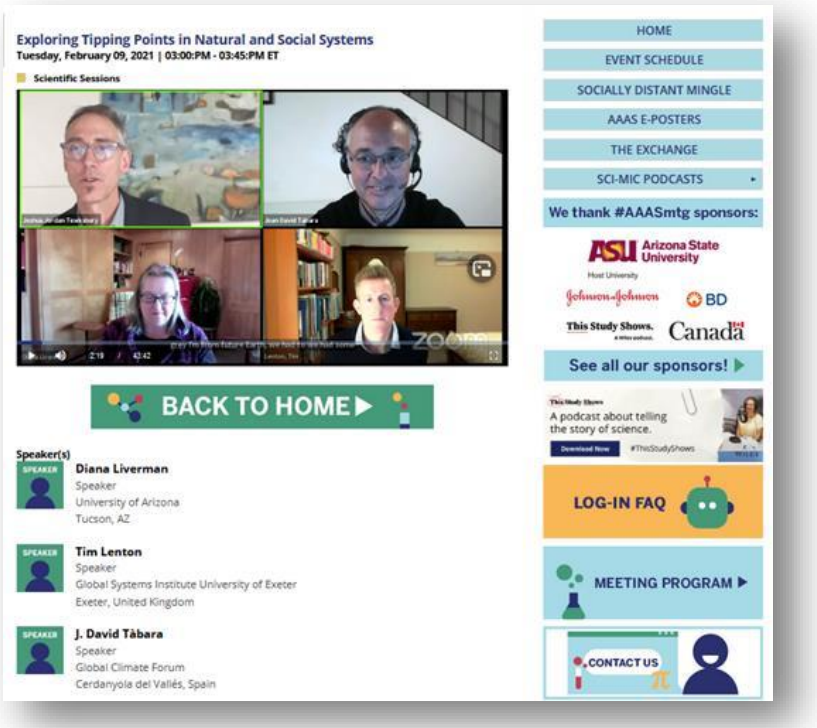

Figure 19: TIPPING+ Representation in AAAS Annual Meeting

TIPPING+ was disseminated to the Su-re.co (project partner) community through several events and workshops, where many TIPPING+ members participated in. A list of these events follows:

- "Energy, Sustainability and Society Event" held online on September 18, 2020. It was a knowledge sharing event regarding energy transition and decarbonisation in Indonesia, with the main audience coming from the Dept. of Chemical Engineering of University of North Sumatra (USU).
- "Clean Energy Transition & Land-Use Mitigation in Indonesia" held online on March 16, 2021. The aim of the workshop was to support the Indonesia's efforts to increase renewable energy and low-carbon development in addressing climate change, su-re.co together with European Commission partners.
- "5.2 Sustainability and Resilience Workshop" held online on 20 May, 2021 and attended by 99 participants representing policymakers, research institutes, universities, and the public. The aim was to strengthen the communication and collaboration between stakeholders. Through the Focus Group Discussion (FGD), su-re.co and the stakeholders had a profound discussion in finding potential activities to enrich mitigation actions through the ongoing projects.
- "The 6th Sustainability & Resilience Workshop held online on 28 October, 2021 aiming at gathering more narratives to pursue narratives in Indonesia's NDC in energy and land-use mitigation. This event was attended by 122 delegates from local and national Governments, policymakers, NGOs, national and international academic researchers virtually.

Figure 20: Su-re.co Workshops

Bohumil Frantal (Palacky University Olomouc, Faculty of Science), presented the issue of low carbon energy transition on one of the TIPPING+ regional case studies in a popular-scientific program broadcast on the mainstream Czech TV on May 22, 2021

(https://www.ceskatelevize.cz/porady/1181680258-tyden-v-regionech-brno/321281381890522/).

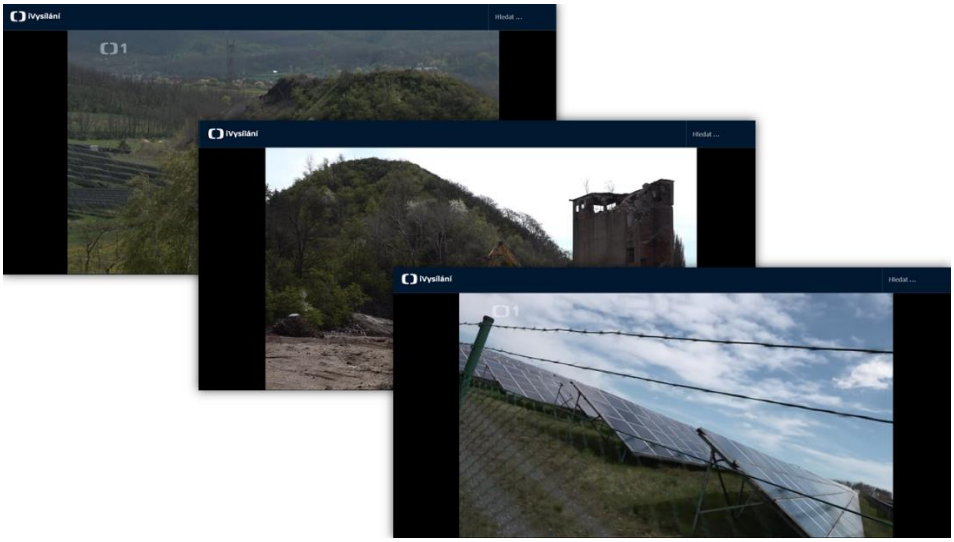

Figure 21: WP1 Video on Czech TV Program

In addition, TIPPING+ participated in the following external conferences and workshops.

Greenland Case Study team (Ilisimatusarfik – University of Greenland) participated in the Greenland Science Week in Sisimiut and Nuuk 2-12th November 2021 by organised a workshop entitled "towards a fossil free future in Greenland". The workshop focused on identifying challenges and opportunities for further supporting a green transition in Greenland. The institutions represented at the workshop were asked to prepare and give a presentation during the workshop. The presentations were collected and will serve as further empirical material for the Greenland case study, together with the notes and observations made during the workshop. The workshop was held in conjunction with the Greenland Science Week and was a part of the official programme. The workshop was held with a total number of 12 invited participants. As a part of the Greenland Science Week programme a public lecture was, also, organised on the topic of the workshop including a general introduction to the TIPPING+ project and was attended by 19 people.

Figure 22: Greenland Workshop

Conferences

- Institute for Advanced Sustainability Studies e.V. (IASS). Conference Paper "Tipping points in transitions of socio-institutional systems" presented at the "Transformative metrics" – workshop, Universidad de Antioquia, Medellín, Colombia, 5-6 October 2020.
- Rizzoli, V.(University of Rome). Presentation of "We are not choosing our future". Press representations of decarbonisation in an Italian coal region in transition". Psychange -Psychology of societal change organized by CIS-IUL - Centre for Social Research and Intervention, taken place in Lisboa, 5 May 2021.
- Institute for Advanced Sustainability Studies e.V. (IASS). Presentation of "Social Tipping Dynamics in a German Coal-Phase Out Region" at the annual conference of the European Consortium for Political Research (ECPR), 3 September, 2021.
- Maier, R. (University of Graz). Presentation of "Telework: A tipping intervention for passenger transportation?" at the European Roundtable on Sustainable Consumption and Production Conference taken place in Graz, 8-10 September 2021.
- Biddau, F., Francesco Cottone, P., Brondi, S., Sarrica, M. (University of Rome). Presentation of "Stakeholder engagement e transizione energetica: riflessioni e considerazioni sulle esperienze partecipative italiane". Italian Association of Psychology – Social Psychology meeting, 13-15, September 2021- Brescia 2021.
- Biddau, F., Francesco Cottone, P., Brondi, S., Sarrica, M. (University of Rome) Presentation of "Tipping points in the Italian decarbonization pathway: a societal psychology analysis" at the 3rd International Conference of Environmental Psychology – ICEP, 5-8 October, 2021 and at the 5th Energy & Society Conference (University of Trento, Italy), 10-12 February, 2021.
- Sarrica, M (University of Rome) Presentation of "Production and reproduction of exclusive discourses about energy transition. A gaze from the margins of a coal region", at the Energy Ethics International Conference, 25-27 October 2021.
- Ilisimatusarfik – University of Greenland. Greenland Case Study participation in Greenland Science Week in Sisimiut and Nuuk 2-12, November 2021.
- Institute for Structural Research (IBS). Participation in the conference held in Katowice entitled "Development of the post-mining area management system in the Silesian Voivodeship". The conference was organized in arrangements to transition process and land reclamation monitoring.

Workshops and Seminars

- Sarrica, M. (University of Rome). Presentation of "Sustainable Transition in Italy: Contributions from Societal Psychology": Invited lecture at the social psychology seminars organized by the Laboratoire de Psychologie Sociale. Aix-Marseille Université - 20th of October 2020

- Tàbara, J. D. (Global Climate Forum). "In (re)search of positive tipping narratives: Models vs processes?" Online talk given at the Global System Institute. University of Exeter 26 November, 2020.
- Westport Consulting (WPC) "SMART IT UP" Forum. The Conference took place on 11th November 2021 in the entity Republika Srpska, Banja Luka city. and was attended by representatives of relevant institutions in the field of energy in Republika Srpska reaching out to a large and diverse regional audience. Recommendations for the development of biomass in Republika Srpska were collected, as well as the benefits of phasing out coal.
- Institute for Advanced Sustainability Studies e.V. (IASS). Workshop with Pao Yu Oei from Cintran project, 7 December, 2020.
- Tàbara, J. D (Global Climate Forum). "Enabling positive tipping points towards clean energy transitions in Coal and Carbon Intensive Regions. The role of justice". Talk given at the Central Europe University, Dept of Environmental Sciences and Policy. Budapest. 22 March 2021.
- Bonaiuto, M. (University of Rome). H2020 [Exemplary Projects in H2020]. Presentation at the training Seminars on H2020 organized by the Research Promotion and Support Services Office Sapienza University of Rome, 27 May, 2021.
- Sarrica, M. (University of Rome). Methodological options for studying and inquiring social representations. Online seminar of the PhD Program in Social Sciences 'Scienze sociali: interazioni, comunicazione, costruzioni culturali' University of Padua - 21st of June 2021
- Mangalagiu, D., J. David Tàbara (Global Climate Forum). Presentations of "Socio-Ecological tipping points in sustainability transformation" at "Le Scienze della Sostenibilità 2021 Corso di Formazione Interdisciplinare Sviluppo Sostenibile: la transizione culturale, ecologica e digitale" Sapienza University of Rome, 3 July, 2021.
- Mangalagiu, D. (Global Climate Forum). Presentation at Global Just Transition(s) Workshop, "From sectoral transition to systemic transformation: guiding just transition(s) from carbon intensive and dependent regions 60 towards inclusive, prosperous and resilient economies, communities and societies, July 2021 (https://www.ecounion.eu/wp-content/uploads/2021/07/Workshop_GlobalJust_transition04.pdf)
- Mangalagiu, D., J. David Tàbara (Global Climate Forum). Socio-Ecological tipping points in sustainability transformation. Faculty event co-organised by M. Sarrica within the training course 'Le Scienze della Sostenibilità 2021 Corso di Formazione Interdisciplinare Sviluppo Sostenibile: la transizione culturale, ecologica e digitale' Sapienza University of Rome 5 November 2021 – Online
- Institute for Advanced Sustainability Studies e.V. (IASS). Workshop planned with regional and local stakeholders, 23 November 2021 at the Future Initiative Conference hosted by the Emscher Genossenschaft
- Ecole d' Economie de Paris - Paris School of Economics (EEP PSE). EHESS Complex Systems seminar (online), organized by L'École des hautes études en sciences sociales (EHESS) taken place in Paris on 17, December 2021.

- Ecole d' Economie de Paris - Paris School of Economics (EEP PSE). Presentation (AM-PSE) at the 8TH edition of NGFS-GRASFI-INSPIRE Webinar of ongoing work on financial implications of climate change and climate policy. The NGFS (Network of Central Banks and Supervisors for Greening the Financial System) is the key climate policy forum for financial regulators (https://www.inspiregreenfinance.org/events/ngfs-grasfi-inspirewebinar-8th-edition)
- Technoeconomics of Energy Systems laboratory – UPRC. 20 students of University of Piraeus participated in a role-playing game on the decarbonisation of Megalopolis, i.e., one of the case studies examined within the TIPPING+ framework.

7 Performance Indicators, Dissemination Targets & Achieved Progress

The TIPPING+ consortium has set specific targets expected to be achieved during the project, aiming to maximize its impact. These targets supplemented by its progress until now, are presented in the Table 4.

Table 4: TIPPING+ Performance Indicators and Progress

Activity	Targets	Progress
TIPPING+ identity	Creation of TIPPING+ logo	✔
	Development of templates for deliverables, presentations, posters, policy briefs, working documents, newsletters and news alerts	✔
	Social media headers/avatars	✔
posts/announcements in websites & LinkedIn	100,000 views and visitors (in total) and at least 36 posts at websites & LinkedIn accounts (both TIPPING+ and partners websites and accounts)	About 48,000 (48%)
		65 posts
Social networks accounts & media	TIPPING+ accounts in Social Networks (e.g., Facebook, Twitter, YouTube, etc.) created	✔
	200,000 links & followers & impressions & engagements, etc. (in total at TIPPING+ and partners' social network accounts and media)	About 82,000 (41%)
Project leaflet	4500[1] distributed & downloaded & viewed e-copies (in total)	About 1000
	Translated in several CSs languages	✔
Project Poster/Rollup	Publicity poster regarding the project created[2]	✔
Videos	1 short (around 2') advertorial video in English and subtitled in all project languages	✔
	Periodic short (around 2') videos produced, presenting the progress of the project	More news alerts, videos and infographics, was decided to be produced and sent during the last year of the project, to facilitate efficient dissemination of project outcomes.
News Alerts	Brief updates sent to the TIPPING+ stakeholders at least every 6 months and when new material is available	
Infographics	Infographics developed and published on the website and distributed via the News Alerts and social media.	
TIPPING+ events	K.O. Ceremony[3] held	✔
	2 workshops / case study region to be held	First round of stakeholder consultation activities successfully held. Second round under preparation.
	Final conference	To be held

	At least 1000 participants[4] from at least 15 (European) countries attended the case study workshops and the final conference	393 participants from more than 15 European countries and non-European ones
	At least 50 project participants[5] attended and presented project related research results in various international scientific conferences.	30 project participants so far
Press releases (incl. articles in key industry magazines, newspapers, etc.)	At least 3 press releases	3 press releases
Working documents	At least 11 Working documents	1 WD published 14 WDs in progress
TIPPING+ Newsletters	At least 4 Newsletters	1 issued, the remaining to come during the last year of the project
Policy briefs	5 policy briefs produced.	Planned to be published during the last year of the project.
Scientific publications	25 scientific articles published in scientific peer-reviewed journals until shortly after the completion of the project	12 published
	5-10 Regional case study academic papers	4 Regional CS academic paper
	2-5 Cross-cutting academic papers	3 Cross-cutting academic papers
	TIPPING+ Special Issue launched TIPPING+ Book in progress	Concept Note SI Concept Note prepared. Abstracts for the SI have been submitted. Title, concept and potential contributions for the Book have been submitted. Contact with publisher established.
Enhancement of courses and seminars	Project outcomes incorporated in on-going courses and seminars of academic partners' institutes	2 training courses at academic institutions and 1 Online seminar of the PhD Program

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