TRANSIENCE

**TRANSITIONING TOWARDS AN EFFICIENT, CARBON-NEUTRAL CIRCULAR EUROPEAN INDUSTRY**

Date: 24/06/2025

# D1.2 – Report on Project and SAB Meetings

WP1 – Project Management (Phase I)

## Disclaimer



## Copyright Message



| **Grant Agreement Number** | 101137606 | **Acronym** | TRANSIENCE |
|---|---|---|---|
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| **EU Project Advisor** | Fátima GONZÁLEZ GÓMEZ | | |
| **Project Coordinator** | Institute of Communication and Computer Systems (ICCS) | | |
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| **Keywords** | project meetings; communication; project management; SAB meetings | | |

# EC Summary Requirements

## 1. Changes with respect to the DoA

No changes with respect to the work described in the DoA.

## 2. Dissemination and uptake

This deliverable aims to function as an internal review tool for the TRANSIENCE project's progress and as a guide for the project's consortium on the tasks and deliverables to be submitted in the context of the project, as stocktaken and agreed on in consortium-wide project meetings and with regards to the conditions agreed in the project's Grant Agreement.

## 3. Short summary of results (<250 words)

According to the TRANSIENCE project's Quality Management Plan, consortium-wide physical and online meetings are organised on a regular basis to track the project's progress upon the agreed Grant Agreement. Executive Board (EB) meetings are hosted online via Microsoft Teams, typically as one-hour meetings, while General Assembly (GA) meetings take place twice per year, either online via Microsoft Teams or physically (in a hybrid format, supported by Microsoft Teams). These meetings are characterised by a two-day setup and are typically organised back-to-back with other project-related events (e.g., workshops). In case no project-related events coincide with a GA, it is preferred to host them online for sustainability reasons. EB meetings are held regularly and online so that all partners can inform and be informed on the progress of the project's tasks and to ensure that all deliverables and milestones are prepared and delivered on time. On the other hand, GA meetings mainly focus on discussing on the project's major developments and next steps. ICCS organises the above meetings and drafts their agendas after consulting with the consortium.

This report is proof that the project's meetings have been successfully organised with a high rate of participation among the project consortium, and with clear objectives, protocols, and timelines agreed. It outlines the agendas and participation as well as briefly presents the discussions held in each EB and GA meeting.

A separate section focuses on the consortium's exchanges with its Scientific Advisory Board (SAB).

## 4. Evidence of accomplishment

This report.

# Preface

The need to approach climate action, resource efficiency, and circularity performance as integrated, economy-wide, cross-cutting issues is growingly gaining attention in the policy world, stimulating the development of new industrial policies in Europe and worldwide. Currently, however, there is little progress in conceptualising the circular economy and understanding its interactions with climate action. State-of-the-art modelling capacity to capture the interplay of the two agendas and their implications for energy-intensive sectors as well as to represent the European industry's transformation in line with the region's vision for climate neutrality is not yet fully developed. TRANSIENCE will undertake a comprehensive characterisation and assessment of circularity principles and measures vis-à-vis decarbonisation, by looking at the twin transition of European industries through the lenses of global competitiveness, innovation, and holistic sustainability. It will then produce MIC3, a consistent, fully open-source model ecosystem to assess industrial circularity, decarbonisation, and sustainability. A series of interoperable modules on the socioeconomic, service and product, material, industrial, energy-system, and environmental perspectives of the transformation of European industry will be developed and integrated, building on and opening the code of leading modelling tools. MIC3 will finally be used in extensive scenario modelling to produce diverse pathways toward a material-efficient, circular, climate-neutral, sustainable European industry. Transparency, openness, and knowledge sharing will be promoted, and technical capacities will be developed in four industrial agglomerations in the EU, moving beyond stakeholder consultation, onto model co-development, continuous validation of assumptions, co-creation of scenario modelling, evaluation of the desirability and usability of the developed model and insights, and eventually co-production of science and action.

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| **ICCS** – Institute of Communication and Computer Systems | EL |
| **CEPS** – Centre for European Policy Studies | BE |
| **E3M** – E3-Modelling AE | EL |
| **Fraunhofer** – Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. | DE |
| **HOL** – HOLISTIC IKE | EL |
| **PIK** – Potsdam Institut für Klimafolgenforschung e.V. | DE |
| **PNTEC** – Park Naukowo-Technologiczny Euro-Centrum Spolka Z Ograniczona Odpowiedzialnoscia | PL |
| **TECNALIA** – Fundación Tecnalia Research & Innovation | ES |
| **UU** – Universiteit Utrecht | NL |
| **WI** – Wuppertal Institut für Klima, Umwelt, Energie gGmbH | DE |
| **PSI** – Paul Scherrer Institut | CH |
| **UCL** – University College London | UK |

# Executive Summary

According to the TRANSIENCE project's Quality Management Plan, consortium-wide physical and online meetings are organised on a regular basis to track the project's progress upon the agreed Grant Agreement. Executive Board (EB) meetings are hosted online via Microsoft Teams, typically as one-hour meetings, while General Assembly (GA) meetings take place twice per year, either online via Microsoft Teams or physically (in a hybrid format, supported by Microsoft Teams). These meetings are characterised by a two-day setup and are typically organised back-to-back with other project-related events (e.g., workshops). In case no project-related events coincide with a GA, it is preferred to host them online for sustainability reasons. EB meetings are held regularly and online so that all partners can inform and be informed on the progress of the project's tasks and to ensure that all deliverables and milestones are prepared and delivered on time. On the other hand, GA meetings mainly focus on discussing on the project's major developments and next steps. ICCS organises the above meetings and drafts their agendas after consulting with the consortium.

This report is proof that the project's meetings have been successfully organised with a high rate of participation among the project consortium, and with clear objectives, protocols, and timelines agreed. It outlines the agendas and participation as well as briefly presents the discussions held in each EB and GA meeting.

A separate section focuses on the consortium's exchanges with its Scientific Advisory Board (SAB).

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# 1 Introduction

As described in the TRANSIENCE project's Grant Agreement, regular and ad hoc meetings take place during the project's lifespan. Online meetings are organised regularly via Microsoft (MS) Teams, allowing all consortium partners to discuss specific issues related to project tasks, deliverables, and milestones. In particular, the ICCS administration team hosts monthly online Executive Board (EB) meetings so that project partners can present their progress, be brought up to speed with all developments in other tasks and deliverables/milestones, and adjust their work with the rest of the project team. Moreover, General Assembly (GA) meetings are organised twice a year to align the progress of all tasks and deliverables to match the terms agreed in the Grant Agreement as well as to facilitate partners to fully comprehend the scientific work conducted by all project teams. ICCS, as the project coordinator, proposes an agenda for these meetings, plans the meetings (collaborating with Work Package leaders and other project partners) and shares the information regarding the meeting's logistics. In these meetings, the Scientific Advisory Board (SAB) members are also invited to provide their helpful insights. ICCS records all sessions and meetings to thoroughly document the matters discussed at each EB and GA meeting. Based on the recordings, ICCS then prepares reports that are shared with the consortium via the project's internal data management platform (on MS SharePoint), guaranteeing that all project partners are on track with the project's developments and deadlines. This deliverable serves as a high-level overview of these discussions.

The following table showcases all the meetings that took place during the project's Phase 1 (M1-M18). EB meetings are typically organised once per month, unless a GA meeting is expected to take place in the same period. Additionally, some months are intentionally skipped due to proximity to other project events or low availability of partners (e.g., due to Easter, Christmas, or summer holiday). For instance, a physical GA was held as a one-day meeting (instead of a two-day meeting) back-to-back with the first EU-wide stakeholder workshop in Brussels, Belgium, which was jointly organised with our sister project, AMIGDALA; in another example, the final GA meeting of Phase 1 was postponed to July, to align with our project reporting activities and prepare for the review meeting associated with the first Reporting Period (RP1).

**Table 1.** TRANSIENCE Project Meetings (covering period January 2024 – July 2025)

| Type of meeting | | Date |
|---|---|---|
| Physical/Hybrid | Kick-off Meeting | 6th and 7th February 2024 |
| Online | Executive Board Meeting | 20th March 2024 |
| Online | Executive Board Meeting | 24th April 2024 |
| Online | Executive Board Meeting | 19th June 2024 |
| Online | Executive Board Meeting | 25th September 2024 |
| Physical/Hybrid | General Assembly Meeting | 23th October 2024 |
| Online | Executive Board Meeting | 27th November 2024 |
| Online | Executive Board Meeting | 26th February 2025 |
| Online | Executive Board Meeting | 21st May 2025 |
| Online | General Assembly Meeting | 21th and 23th July 2025 |

## 1.1 Purpose and scope

This document's purpose is to demonstrate a periodic report of all physical and online project meetings, consisting of the meetings' agenda, list of participants, and detailed minutes. In addition, this deliverable presents any insights provided by the SAB members from any physical and online interaction, especially during dedicated SAB sessions that take place during GA meetings.

## 1.2 Structure of the Document

This deliverable consists of three sections. Section 2 includes the agenda and minutes of all physical/hybrid meetings. Section 3 demonstrates all information from online meetings, and Section 4 reports all SAB feedback.

# 2 Physical/Hybrid Meetings

## 2.1 Kick-off Meeting, 6-7 February 2024

The project's Kick-off Meeting was held on the 6th and 7th of February 2024 in Athens, Greece and was hosted by the project coordinator, ICCS. The main objectives of this meeting were to allow partners to meet each other, become familiar with each one's expertise, and delve into the project's objectives, pipelines as well as tools and models. Moreover, this meeting aimed to provide the consortium partners with the opportunity to discuss the timeline of the project's tasks of the first five Work Packages (WPs) of Phase 1 (M1-M18).

### 2.1.1 Agenda

## Day I: Introduction, Project Overview, Cross-Cutting Aspects

*Virtual participants: Join us via Microsoft Teams*

| **Tuesday, February 6, 2024** (all times in **CET**) | | | |
|---|---|---|---|
| *08:30 – 09:00* | *Arrival, coffee, get together* | | |
| 09:00 – 09:15 | I.1 | **Welcome, agenda, introductory notes** | ICCS |
| 09:15 – 10:15 | I.2 | **Roundtable: Partners' Introduction**<br>Expertise, role, and expectations in TRANSIENSE<br>(5' per partner) | All Partners |
| 10:15 – 10:45 | I.3 | **Project implementation for Horizon Europe**<br>Presentation and Q&A with Project Advisor | HADEA |
| *10:45 – 11:00* | *Coffee Break* | | |
| 11:00 – 11:15 | I.4.1 | **Project Overview, Vision & Objectives** | ICCS |
| 11:15 – 11.50 | I.4.2 | **Challenges & Opportunities**<br>Each Phase 1 WP representative (7') presents two slides to address:<br>- What are you most excited about in your WP & the project?<br>- What are you most concerned about in your WP? | All Phase 1 WPLs |
| 11:50 – 12:10 | I.4.3 | **Early project management requirements**<br>Scientific Advisory Board (SAB), Internal data management, Quality management, Meetings | ICCS |
| 12:10 – 12:30 | I.4.4 | **A summary of Phase 1 deliverables & milestones** | ICCS |
| *12:30 – 13:30* | *Lunch Break* | | |
| 13:30 – 13:45 | I.5 | **WP1 – Project Management**<br>Including coordination, management, quality processes | ICCS |
| 13:45 – 14:30 | I.6 | **WP2 – Understanding stakeholder needs for new capacities**<br>Stakeholder engagement and co-creation strategy, and stakeholder needs assessment | CEPS & WI |
| 14:30 – 14:45 | I.7 | **WP5 – Setting up communication, dissemination, networking**<br>Visual, identity, communication, dissemination, exploitation & outreach | ICCS |



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| 14:45 – 15:00 | I.8 | **Wrap-up, Q&A, Discussions** | All partners |

## Day II: Characterisation/Framing & Model Development of Phase 1

*Virtual participants: Join us via Microsoft Teams*

| **Wednesday, February 7, 2024** (all times in **CET**) | | | |
|---|---|---|---|
| *08:30 – 09:00* | *Arrival, coffee, get together* | | |
| 09:00 – 09:15 | II.1 | **Synopsis of Day I** | ICCS |
| 09.15 – 10:45 | II.2 | **WP3 – Characterising circularity and decarbonisation opportunities – generating model inputs**<br>Open modelling framework, characterising circularity, decarbonisation ad socioeconomic implications, data management | UCL & UU |
| *10:45 – 11:00* | *Coffee Break* | | |
| 11:00 – 11:10 | II.3.1 | **WP4 - Developing satellite modules (Overview)**<br>Overview and coordination of the development of all modules of the MIC3 framework | |
| 11:10 – 11:30 | II.3.2 | **Socio-economic module** | E3M |
| 11:30 – 11:50 | II.3.3 | **Service/product/end-use database** | PSI |
| 11:50 – 12:10 | II.3.4 | **MFA modules (EU & World)** | WI & PIK |
| 12:10 – 12:30 | II.3.5 | **Techno-economic modules** | FH ISI |
| *12:30 – 13:30* | *Lunch Break* | | |
| 13:30 – 13:45 | II.3.6 | **Energy system module** | E3M |
| 13:45 – 14:00 | II.3.7 | **LCA module** | PSI |
| 14:00 – 14:15 | II.4 | **Wrap-up** | ICCS |

### 2.1.2 Minutes

| **Present physically/online** | **Name and Surname** | **Organisation** |
|---|---|---|
| 1. | Alexandros Nikas | ICCS |
| 2.. | Konstantinos Koasidis | ICCS |
| 3. | Natasha Frilingou | ICCS |
| 4. | Christina Tigka | ICCS |
| 5. | Panagiotis Kokkinakos | ICCS |
| 6. | Edoardo Righetti | CEPS |
| 7. | Nwamaka Ikenze | CEPS |
| 8. | Panagiotis Fragkos | E3M |
| 9. | Maro Baka | E3M |
| 10. | Giorgos Plessias | E3M |
| 11. | Dimitris Fragkiadakis | E3M |
| 12. | Marius Neuwirth | Fraunhofer |

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| 13. | Tobias Fleiter | Fraunhofer |
| 14. | Simon Lukas Bussmann | Fraunhofer |
| 15. | Meta Thurid Lotz | Fraunhofer |
| 16. | George Xexakis | HOLISTIC |
| 17. | Angelos Potiriadis | HOLISTIC |
| 18. | Stefanos Tsotras | HOLISTIC |
| 19. | Falko Ueckerdt | PIK |
| 20. | Jakob Duerrwaechter | PIK |
| 21. | Patryk Białas | PNTEC |
| 22. | Anna Gorczyca | PNTEC |
| 23. | Agnieszka Zięcina | PNTEC |
| 24. | Christian Bauer | PSI |
| 25. | Diego García-Gusano | TECNALIA |
| 26. | Iñigo Muñoz | TECNALIA |
| 27. | Izaskun Jiménez | TECNALIA |
| 28. | Hanna Kuittinen | TECNALIA |
| 29. | Alvaro Riviera Calzadilla | UCL |
| 30. | Teresa Domenech Aparisi | UCL |
| 31. | Gergo Suto | UU |
| 32. | Ernst Worrell | UU |
| 33. | Li Shen | UU |
| 34. | Lukas Hermwille | WI |
| 35. | Georg Holtz | WI |
| 36. | Mathieu Saurat | WI |

| **Minutes: Main issues discussed** | | | |
|---|---|---|---|
| Item | Description | Action | |
| | | What | Who |
| **Day 1** | | | |
| Welcome, agenda, introductory notes | The meeting began with a short summary of the agenda describing all the issues that will be presented and discussed during this 2-day kick-off meeting, taking place in Athens, Greece. | | ICCS |
| Roundtable: Partners' Introduction | Representatives from all the consortium partners, presented their respective expertise and how they align with the project's objectives. The presentations outlined each organisation's profile, key personnel involved, and specific contributions to the project's work packages. The consortium partners are set to collaborate on various tasks, including:<br>• Stakeholder engagement and needs assessment.<br>• Characterisation of circularity and decarbonisation options.<br>• Development and integration of modelling modules. | | All WP leads |



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| | • Scenario co-creation, analysis, and validation.<br>• Communication, dissemination, and exploitation of project results. | | |
| Project implementation for Horizon Europe | Next, the Project Adviser took the floor and briefed the consortium on the manner in which project partners and the EC will cooperate in order that the project's objectives are achieved. This session also included a short Q&A session between the Project Adviser and the meeting's attendants. | | HaDEA |
| Project Overview, Vision & Objectives | A short presentation of the project's main objectives were described as well as their expected progress in each of the project's 3 phases. In a similar context, a figure demonstrating the scientific coordination among WPs was also showcased. Then, the 4 regional case studies were presented mentioning some of the main characteristics of each region included. Lastly, a schematic representation of the MIC3 modelling framework integration was presented focusing on the framework's conditions and scenario ambition. | | ICCS |
| Challenges & Opportunities | The TRANSIENCE kick-off meeting highlighted several challenges and opportunities across different work packages.<br>WP1 challenges included the project's large scale and consortium, coordinating diverse modelling groups, managing numerous tasks, and ensuring effective integration within the MIC3 framework. The ambitious timeline, particularly for Phase 1, was also mentioned due to the volume of deliverables and milestones.<br>Opportunities include advancing beyond the state-of-the-art of IAMs, building on the knowledge base of previous projects, and moving from co-creating policy-relevant modelling to co-developing a model ecosystem. The lump sum funding of the project allows for flexibility in project execution, and there is enthusiasm for collaborating with a diverse group of partners.<br>WP4 will address a research gap by creating an open-source model integrating macro-economic, industry, material flow, energy system, and LCA perspectives. This is considered highly relevant for policymakers requiring an integrated view of industry transition, including climate-neutral processes and circularity. Deep methodological cooperation and the practical application of the method are also positive. Challenges include managing interfaces between models, ensuring | | All partners |

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| | consistency, and the project's overall high ambition.<br>WP5 challenges relate to the lump sum project and the balance between continuity and increasing ambition. Realising synergies is both challenging and potentially beneficial, with a need to promote collaboration. Meeting the high expectations for impact and outreach, particularly with stakeholders beyond the scientific community, and developing clear communication on a complex topic for various audiences are also identified as challenges.<br>Overall, the discussions identified challenges related to project management, coordination, timelines, model integration, and communication, while also highlighting opportunities to advance the state-of-the-art, address research gaps, foster collaboration, and achieve impactful outcomes. | | |
| Early project management requirements | The following presentation outlined some core early project management requirements.<br>Specifically, the establishment of a Scientific Advisory Board (SAB) is a core component. The SAB will comprise experts who will provide guidance and advice to the project, ensuring that the research activities are robust, scientifically sound, and aligned with the latest developments in relevant fields. The SAB's input will be crucial for maintaining the project's quality and relevance.<br>Internal data management is another key focus. There will be implementation of comprehensive protocols and procedures governing data collection, storage, access, and sharing. These protocols will be designed to ensure that data is managed securely, efficiently, and in compliance with relevant regulations throughout the project's duration. Effective data management is essential for the integrity of the project's research and for facilitating collaboration among partners.<br>Quality management is also prioritised. A quality management framework will be implemented, aimed at ensuring that all project outputs, including reports, publications, models, and other deliverables, meet the highest standards of quality and rigour. This framework will encompass processes for monitoring project activities, evaluating outcomes, and assuring the quality of all project deliverables. | | ICCS |
| A summary of Phase 1 deliverables & milestones | Then, the consortium was briefed on the deliverables and milestones expected in the project's first Phase.<br>It was specified that WP1, focusing on Project Management, included tasks such as administration of the project contract, quality | | ICCS |

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| | control, risk management, Scientific Advisory Board activities, scientific coordination, and internal communication, and it outlined key milestones and deliverables for WP1.<br>It was also detailed that WP2, focusing on understanding stakeholder needs for new capacities, included tasks like developing a stakeholder engagement and co-creation strategy, establishing the stakeholder database, and assessing stakeholder needs for model applications, and it detailed deliverables and milestones associated with these tasks.<br>It was further noted that WP3, focusing on characterising circularity and decarbonisation opportunities, included tasks related to the open modelling framework, characterising circularity, decarbonisation, socioeconomic implications, and data management, and it specified deliverables for this work package.<br>It was also indicated that WP4, focusing on developing satellite modules, included tasks related to the development of various modules such as the socio-economic module, service/product/end-use database, MFA modules, techno-economic modules, energy system module, and LCA module, and it listed deliverables for these tasks.<br>WP5 focus on setting up communication, dissemination, and networking, includes tasks such as establishing the TRANSIENCE visual identity and website, developing the communication, dissemination, and exploitation (CDE) strategy, and collaboration and synergies with relevant projects/initiatives, with assigned deliverables and milestones for this work package.<br>Additionally, information was provided on the deliverable review process, outlining the processes for ensuring high-quality deliverables, quality control, quality assurance, and quality planning. It specified timelines for various stages of the review process, from draft submission to final editing, and identified the roles and responsibilities of internal reviewers. | | |
| WP1 | It was elaborated that WP1 is dedicated to Project Management. It detailed the essential management activities to be undertaken to ensure the project's successful execution and the achievement of its objectives. It was specified that WP1, led by ICCS, encompasses several critical management functions. Project Contract Administration involves overseeing and managing all aspects of the project contract, including legal and administrative requirements, ensuring compliance with | Implement a Quality Management Framework | ICCS |

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| | contractual obligations, and handling any necessary amendments or modifications. Quality Control, Risk Management, and the Scientific Advisory Board (SAB) focus on establishing and implementing quality control procedures to maintain high standards in project outputs, proactively identifying and mitigating potential risks that could impact the project's progress, and coordinating the activities of the Scientific Advisory Board (SAB), which provides expert guidance and advice to the project. Scientific Coordination and Internal Communication involve providing scientific leadership and direction to the project, fostering effective communication and collaboration among all project partners, facilitating the exchange of information and knowledge, and ensuring that the project's scientific objectives are met.<br>It was underscored that these comprehensive management functions are important for the overall success of the TRANSIENCE project, highlighting that effective project management is crucial for achieving the project's goals and delivering impactful results. | Establish the Scientific Advisory Board (SAB)<br><br>Develop Internal Data Management Protocols | ICCS, all partners<br><br>ICCS |
| WP2 | In the next session, it was outlined that WP2 focuses on understanding stakeholder needs for new capacities within the TRANSIENCE project. The objectives of WP2 include building the foundations for continued transdisciplinary engagement with stakeholders, developing a strong and inclusive stakeholder engagement and co-creation strategy, and enabling the identification of knowledge gaps and research questions to which the MIC3 model can respond.<br>The tasks within WP2 are: developing a robust stakeholder engagement and co-creation strategy (led by CEPS), establishing the stakeholder database (led by CEPS), and assessing stakeholder needs for model applications (led by WI).<br>The document detailed steps for stakeholder database development, including coordinating regular online meetings with regional teams, scheduling regional workshops, and conducting a WP2 brainstorming session. Initial inputs for the stakeholder database involve dividing into five groups (1x case study + 1x broader EU), brainstorming on names of possible stakeholders relevant to the project, dividing them by stakeholder group, and including stakeholder name, stakeholder contact point, and partner reference. CEPS will gather inputs, centralise them into an initial database, and follow up bilaterally with all partners to get | Develop a Stakeholder Engagement and Co-creation Strategy<br><br>Assess Stakeholder Needs for Model Applications<br><br>Establish the Stakeholder Database | CEPS<br><br>WI<br><br>CEPS |

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| | other information required for the mapping (e.g., power-interest ratings) as well as additional inputs for the database. | | |
| WP5 | Regarding WP5, it was outlined that it focuses on setting up communication, dissemination, and networking within the TRANSIENCE project. The tasks within WP5 include establishing the TRANSIENCE visual identity and website (led by ICCS), developing the communication, dissemination, and exploitation (CDE) strategy (led by ICCS & HOLISTIC IKE), and collaboration and synergies with relevant projects/initiatives and Processes4Planet (led by ICCS).<br>The presenter detailed elements of the TRANSIENCE visual identity, such as the final logo, Word and PowerPoint templates, and a presentation with basic project information. It also mentioned items under development, including a graphical charter, flyer, leaflet, poster template, and roll-up banner.<br>Regarding the communication, dissemination, and exploitation (CDE) strategy, the presenter discussed target groups (academia, policy, industry, general public), communication channels (website, social media, newsletters, infographics, videos, blog posts, media articles), and dissemination and exploitation tools. It also provided key performance indicators (KPIs) for evaluating the success of communication and dissemination efforts, such as website traffic, social media engagement, newsletter reach, and event attendance.<br>Furthermore, collaboration and synergies with relevant projects/initiatives were highlighted, specifically mentioning collaborations with sister project AMIGDALA, providing input to the Feedback and Impact Panels of the Processes4Planet partnership, and synergies with relevant projects on IAM development, climate policy, industrial decarbonisation, circularity, and sustainability. | Establish the TRANSIENCE Visual Identity and Website;<br>Develop the CDE Strategy;<br>Collaboration and Synergies with Relevant Projects | ICCS<br><br>ICCS & HOL<br>ICCS |
| Wrap-up, Q&A, Discussions | The first day of the meeting ended with a short summary of what was presented before and with a couple of short discussions regarding the project's objectives. | | |
| **Day 2** | | | |
| Synopsis of Day I | The second day of the event started with the project's administration team summarising what was discussed the previous day and presenting the agenda for today's meeting. | | |
| WP3 | After summarising the discussion topics of Day I a presentation for WP3 took place. Specifically, it was outlined that WP3 focuses on characterising circularity and decarbonisation opportunities and generating model inputs. | | UCL & UU |



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| | The objectives of WP3 include the identification of complementarity and trade-offs between decarbonisation and circularity initiatives/pathways, the design of an integrative framework that combines energy and material/product modelling approaches, the characterisation of circularity/decarbonisation options for inclusion in the models, the analysis of implications and contribution of circularity to major transitions & EU socioeconomic developments, and the identification of leverage points to converge circular economy and decarbonisation strategies.<br>Key outcomes of WP3 involve characterising circular economy policies, technologies, opportunities, and risks relevant for the decarbonisation of energy-intensive industries and conceptualising how they can be incorporated in the MIC3 framework, including the expansion of models where needed.<br><br>The tasks within WP3 include open and modular modelling framework development, characterising circularity, decarbonisation, and socioeconomic implications, and data management. | Develop an integrative framework that combines energy and material/product modelling approaches<br>Characterise circularity/decarbonisation options for inclusion in the models<br><br>Characterise circular economy policies, technologies, opportunities, and risks<br>Conceptualise how circular economy policies can be incorporated in the MIC3 framework<br>Open and modular modelling framework development | UCL & UU<br><br>UCL & UU<br><br>UCL & UU<br><br>UCL & UU |
| WP4 | Following this, the discussion moved to WP4 for which a detailed presentation per model took place in dedicated sessions. | | Fraunhofer |
| Socio-economic module | It was outlined that an open-source, macroeconomic model based on GEM-E3 will be developed to provide boundary conditions for MIC3, including GDP, sectoral production, and household consumption.<br>The model will estimate socioeconomic, trade, competitiveness, and employment impacts of industrial transformation, closing the industry-energy-climate-economy loop, and covering the EU and major non-EU economies. Sectoral representation will be expanded for clean technologies and raw material supply chains. I/O and social accounting matrices will be enhanced with sector-specific data from material analysis. The model will be calibrated to GDP projections and informed by material/energy requirements per activity. It will assess the impact of different configurations of the materials and energy system on GDP, economic activity, and employment. | Develop GEM-E3 based macroeconomic model & provide MIC3 boundary conditions<br><br>Estimate socioeconomic impacts of industrial transformation | E3M<br><br>E3M |
| Service/product/end-use database | It was outlined that Task 4.2 focuses on creating a comprehensive service and product database. | Generate a service and product database of key components for the | PSI, ICCS, E3M, Fraunhofer, |



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| | The goal is to generate a database of key components for the carbon neutrality of the European economy and society.<br>The scope includes i) Products and services such as energy storage, low-carbon mobility, energy supply infrastructure, low-carbon buildings, packaging, machinery, recycling processes, CC(U)S, low-carbon chemicals and fuels, energy efficiency and demand-side measures and ii) Basic materials like low-carbon concrete, steel, glass, plastics, aluminum, paper, chemicals, and fuels.<br>The database content will include product and service characteristics and specifications, as well as material composition and supply chain-related information. The task aims to translate socioeconomic indicators into physical demand for selected products, end-uses, and energy services, and to develop a methodology to integrate the socioeconomic perspective with physical product information. | carbon neutrality of European economy and society<br><br>Clarify the methodology to integrate the socioeconomic perspective with physical product information | HOL, PIK, UCL, UU, WI<br><br>PSI, ICCS, E3M, Fraunhofer, HOL, PIK, UCL, UU, WI |
| MFA modules (EU & Global) | It was outlined that WP4 includes tasks 4.3 and 4.5, focusing on MFA (Material Flow Analysis) modules at both the EU and global levels. The main contribution of these modules to MIC3 is to 'translate' the physical demand for selected products and end-uses into demand for energy-intensive materials.<br>Key interfaces to other modules include: Socio-economics (T4.1) and Service & Product perspective (T4.2) to MFA, where the socio-economic perspective provides drivers, and the Service & Product perspective develops a service and product database. MFA to the techno-economic industrial module in Task 4.4 (Industrial transformation perspective: techno-economic modules for EU industry analysis) where MFA provides information on production needs of energy-intensive materials (physical tons) and available secondary materials. Global MFA (T4.5) to EU MFAs (T4.3) with the main interface being imports to/exports from the EU.<br>Three MFA modules are planned, using Python as a common language and ODYM as a common framework. These modules include FORECAST-Materials (Fraunhofer), EDM-S (WI), and SIMSON (PIK). These modules will cover various materials (plastics, steel, cement) and | Develop MFA modules to translate physical demand for services/products/end-uses into demand for energy-intensive materials<br><br>Ensure effective interfaces between MFA modules and other MIC3 modules (Socio-economic, S&P, Industrial)<br><br>Harmonise technology data across modules | WI, Fraunhofer, PIK<br><br>WI, Fraunhofer, PIK<br><br>WI, Fraunhofer, PIK |



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| | sectors (buildings, vehicles, transport, other sectors) at both EU and global levels. | | |
| Techno-economic (industrial) modules | It was outlined that Task 4.4 focuses on developing techno-economic modules. The objective is to develop techno-economic open-access industrial transformation modules that allow for detailed bottom-up analysis of EU industries. This will be built upon existing models such as FORECAST (FH ISI) and WISEE EDM-I (WI).<br>The models will include functionalities for analysing industrial production networks, resolving individual sites and plants for EIIs, carbon capture, utilisation, and storage (CCUS), simulating fuel and material switches, modelling energy efficiency measures, and assessing the impact of circular economy strategies.<br>The models currently cover energy-intensive sectors like steel and basic chemicals, and there are plans to extend coverage to further sectors (cement, glass, paper, etc.) and to improve and extend model functionalities. | Develop techno-economic open-access industrial transformation modules<br><br>Include functionalities for network analysis, site/plant resolution, CCS/CCU, fuel/material switches, energy efficiency, and circular economy strategies<br><br>Extend model coverage to further sectors (cement, glass, paper) and improve functionalities | Fraunhofer, WI<br><br>Fraunhofer, WI<br><br>Fraunhofer, WI |
| Energy system module | It was outlined that this task will develop an open-source energy system model to capture the complex interlinkages between energy system decarbonisation and industrial transformation.<br><br>It will be used to provide energy-related "boundary" conditions to the industry transformation module, such as prices of energy carriers, carbon prices, and energy demand.<br><br>The open model will ensure that industrial transformation pathways are consistently embedded into the overall EU pathways towards net-zero. The model will include various technology options for power generation, storage, vehicles, buildings, and industry, as well as hydrogen and e-fuel production, with open access to all data. It will have a temporal resolution from 2010 to 2050/2100, in 5-year time steps, with the possibility for yearly results and inter-annual variability for electricity generation. The geographic resolution will focus on the EU, split by member state, with a focus on large emitters | Develop an open-source energy system model to capture interlinkages between energy system decarbonisation and industrial transformation<br><br>Provide energy-related boundary conditions to the industry transformation module<br><br>Ensure industrial transformation pathways are consistently embedded into EU net-zero pathways | E3M<br><br>E3M<br><br>E3M |

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| | (China, India, USA, MENA, Russia, Japan) with inter-regional trade.<br>The model will be policy-focused, considering both market-based and regulatory policies, such as price signals, emissions standards, and supporting policies like energy efficiency and renewable energy support. It will produce outputs such as energy production and capacity by major technology, production of fuels, energy system costs and investment, $CO_2$ emissions from energy, and policy assessment indicators. The model will be an EU-wide model, with country-by-country representation, and will be a recursive dynamic energy system simulation model to facilitate linkages with other models. It will handle interactions between climate policies, energy restructuring, and energy price formation, with potential future developments in TRANSIENCE to link with material flows and circular economy. The open energy system model takes as input socio-economic assumptions, physical industrial output, energy service demand, and CE policies/options, and provides output to the industry modelling task, especially on costs/prices of fuels and $CO_2$ prices.<br>Overall consistency with the open CGE model will be ensured through data exchange routines, with similar routines to be established for the MFA. | Develop a policy-focused model considering market-based and regulatory policies<br><br>Establish data exchange routines with other models (CGE, MFA) | E3M<br><br>E3M |
| LCA module | It was outlined that Task 4.7 focuses on developing an LCA module to quantify lifecycle environmental impacts. This will involve a prospective LCA framework.<br>The framework will integrate: i) "LCI" (Life Cycle Inventory) data from the ecoinvent database, with process models and their environmental burdens, representing current technologies, ii) "IAM" (Integrated Assessment Model) representing scenario pathways of the global energy system and economy and iii) "pLCI" representing the result of linking both: prospective LCI databases for future points in time, based on consistent scenario trajectories.<br><br>The LCA module will quantify lifecycle environmental impacts and consider environmental synergies and trade-offs. It will | Develop a prospective LCA framework integrating LCI and IAM data<br><br>Quantify lifecycle environmental impacts and consider synergies/trade-offs | PSI, ICCS, HOL, UCL, UU, PIK<br><br>PSI, ICCS, HOL, UCL, UU, PIK |



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| | build upon inputs from other tasks and provide information/data for other tasks and WPs. | | |
| Wrap-up | Lastly, the event concluded with a short summary of all issues discussed over the last couple of days with the ICCS administration team thanking all participants for attending the meeting. | | ICCS |

## 2.2 General Assembly Meeting, 23 October 2024

Following the joint European stakeholder workshop on October, 22, 2024, the TRANSIENCE team remained in Brussels for an additional day to host the project's annual in-person General Assembly (GA), bringing together all consortium partners to reflect on the work carried out so far and plan the project's next steps. During the first part of the GA, all WP leaders had the opportunity to share detailed updates on the progress made so far and to engage/exchange with the consortium in person. The second part of the GA included an extensive consortium-wide discussion on how best to translate insights elicited from the stakeholder engagement and co-creation activities into actionable objectives from a model development perspective. The intention was to facilitate co-developing modelling capacities and co-designing research questions that can sufficiently respond to the policy community's and industry world's priorities and concerns towards meeting decarbonisation and circularity ambitions in European industry.

### 2.2.1 Agenda

| **Tuesday, October 23, 2024** (all times in **CEST**) | | | |
|---|---|---|---|
| *09:45 – 10:00* | *Arrival, coffee, get together* | | |
| 10:00 – 10:05 | II.0 | **Welcome Notes** | CEPS |
| 10:05 – 10:30 | II.1 | **WP1 – Project Management**<br>Including coordination, management, quality processes | ICCS |
| 10:30 – 11:00 | II.2 | **WP2 – Understanding stakeholder needs for new capacities**<br>Synthesis of insights from industrial cluster workshops, discussion of outcomes from the Brussels workshop, next steps | CEPS, WI<br>(*UU, PNTEC*) |
| 11:00 – 11:30 | II.3 | **WP3 – Characterising circularity and decarbonisation opportunities – generating model inputs**<br>Open modelling framework, socioeconomic implications of sustainable industrial transformations, sociotechnical analysis, data management | UCL, UU<br>(*ICCS, E3M*) |
| 11:30 – 12:30 | II.4 | **WPs 2-3 joint session (workshop): MIC3-related RQs** | UU, UCL, WI<br>(all modelling teams) |
| *12:30 – 13:30* | *Lunch Break* | | |
| 13:30 – 15:00 | II.5 | **WP4 - Developing satellite modules**<br>Coordination of the development of all modules of the MIC3 framework:<br>• Socioeconomic<br>• Service/product/end-use<br>• Material<br>• Technoeconomic<br>• Energy system | Fraunhofer, E3M<br>(*WI, PSI, PIK*) |



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| | | Global material flows and trade | |
| 15:00 – 15:30 | II.6 | **WP5 – Setting up communication, dissemination, networking**<br>Communication, dissemination, exploitation & outreach, and synergies | ICCS<br>(*CEPS, HOL*) |
| 15:30 – 16:30 | II.7 | **Scientific Advisory Board (SAB) session**<br>Interactions with and feedback from the SAB | SAB, All partners |
| 16:30 – 17:00 | II.8 | **Wrap-up, Q&A, Group discussions** | All partners |

### 2.2.2 Minutes

| Present physically/online | Name and Surname | Organisation |
|---|---|---|
| 1. | Alexandros Nikas | ICCS |
| 2.. | Konstantinos Koasidis | ICCS |
| 3. | Christina Tigka | ICCS |
| 4. | Vasileios Rizos | CEPS |
| 5. | Edoardo Righetti | CEPS |
| 6. | Marius Neuwirth | Fraunhofer |
| 7. | Luna Luetz | Fraunhofer |
| 8. | Tobias Fleiter | Fraunhofer |
| 9. | Simon Lukas Bussmann | Fraunhofer |
| 10. | Meta Thurid Lotz | Fraunhofer |
| 11. | George Xexakis | HOLISTIC |
| 12. | Sally Dacie | PIK |
| 13. | Jakob Duerrwaechter | PIK |
| 14. | Patryk Białas | PNTEC |
| 15. | Anna Gorczyca | PNTEC |
| 16. | Agnieszka Zięcina | PNTEC |
| 17. | Christian Bauer | PSI |
| 18. | Tom Terlouw | PSI |
| 19. | Iñigo Muñoz | TECNALIA |
| 20. | Izaskun Jiménez | TECNALIA |
| 21. | Alvaro Riviera Calzadilla | UCL |
| 22. | Teresa Domenech Aparisi | UCL |
| 23. | Gergo Suto | UU |
| 24. | Ernst Worrell | UU |
| 25. | Li Shen | UU |
| 26. | Miriam Ruß | WI |
| 27. | Georg Holtz | WI |

| Minutes: Main issues discussed | | | |
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| Item | Description | Action | |
| | | What | Who |
| Welcome, agenda, introductory notes | The meeting commenced with a brief introduction of the event's agenda describing all the matters that will be presented and discussed during this GA meeting. | Agenda overview | ICCS |
| WP1 | Task 1.1 deals with the administration of the contract and EC exchanges, noting that SyGMa is to be updated towards the end of RP1. It was advised that partners adhere to the submitted budget table and keep the project informed on staff changes.<br>Ad-hoc EC exchanges are frequent, and synergies with sister project AMIGDALA will be actively pursued, with a need to comply while firmly defending project objectives. Task 1.2 covers quality control, risks management, and the SAB assignment and involves tasks related to coordination and communication, utilising Microsoft 365 for document management and exchange, maintaining a detailed mailing list, and using project templates.<br>Various documents will be stored, including all versions of deliverables and project documents, and a project management email is provided.<br>Cost reports are required for the lump-sum project, and different deliverable types were specified, such as docx for deliverables and policy briefs, pptx for presentations, and docx for interim WP progress reports. | Update SyGMa towards the end of Reporting Period 1<br>Actively pursue synergies with AMIGDALA<br>Maintain a detailed mailing list and use project templates<br>Provide cost reports | ICCS<br>All partners<br>ICCS, all partners<br>All partners |
| WP2 | It was outlined that WP2 focuses on understanding stakeholder needs for new operational capacity. The objectives include building the foundations for continued transdisciplinary engagement with stakeholders, developing a strong and inclusive stakeholder engagement and co-creation strategy, and enabling the identification of knowledge gaps and research questions to which MIC3 can respond.<br>The tasks within WP2 are: Task 2.1, developing a robust stakeholder engagement and co-creation strategy (CEPS) and Task 2.2, establishing the stakeholder database (CEPS) already submitted, and Task 2.3, assessing stakeholder needs for model applications: advancing capabilities and achieving impact (WI).<br>Regional workshops insights will be summarised and discussed towards dormulating modelling-relevant research questions, during the joint discussion that will follow. | Assess stakeholder needs for model applications | WI<br>CEPS<br>All case study leads |
| WP3 – Characterising circularity and decarbonisation | It was outlined that WP3 focuses on characterising circularity and decarbonisation opportunities and generating model inputs. Task | Maintain a machine-actionable DMP in ARGOS | ICCS |



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| opportunities – generating model inputs | 3.1 on open and FAIR data management (ICCS) has already been submitted, including a machine-actionable data management plan (DMP) in ARGOS. Key aspects of the data management plan include data description, project objectives, data processing tools (models), data inputs and outputs for models, data used in scenario analysis, origin of the data and re-use of existing data, expected sise of the data, and data utility.<br>The FAIR Data Guidelines, allocation of resources, data security, and ethical aspects are also addressed.<br>The DMP is available on the TRANSIENCE website and will be continuously updated with open publications, datasets on Zenodo, deliverables, and workspaces in the I2AM PARIS platform.<br>Task 3.2 on the open modelling framework (UU), building synergies with sister projects and the P4P partnership, and harmonising data using community standards.<br>Tasks 3.3 and 3.4 (UCL) involve characterising circularity and decarbonisation, and assessing industry circularity and decarbonisation implications.<br>Task 3.5 (E3M) covers competitiveness and socioeconomic implications.<br>Task 3.6 (ICCS) deals with circularity and decarbonisation pathways, applying an integrated methodology of the Multi-Level Perspective (MLP) and Technological Innovation Systems (TIS) frameworks to identify regime resistance and capture both the socio-economic and political landscape and the technological potential of each cluster. A systematic literature review process informs and drives the socio-technical analysis for all four project clusters. The intended timeline includes initial drafts for lighthouse case studies (LCS), case study validation meetings, case study reports, model inputs, and model runs. | Ensure FAIR Data Guidelines compliance<br>Continuously update the DMP with publications, datasets, etc.<br>Develop an open modelling framework<br>Characterise circularity and decarbonisation options<br>Assess industry circularity and decarbonisation implications<br>Analyse competitiveness and socioeconomic implication<br>Develop circularity and decarbonisation pathways; apply MLP and TIS frameworks to cluster analyses; conduct a systematic literature review for cluster analyses; produce case study reports and model inputs | All Partners<br>ICCS<br>UU<br>UCL<br>E3M<br>ICCS and case study leads |
| WPs 2-3 joint session (workshop): MIC3-related research questions (RQs) | The discussion was held at the Transience GA in Brussels on 23 October 2024, prepared by UU/WI/UCL.<br>The context was defined by WP2, focusing on the stakeholder needs from industry, and WP3, addressing circular economy ambition. The first step in model development strategy was identified as the formulation of questions. The results from this section would provide inputs for D3.4 (short-term) and, more importantly, agree on the next step for module/model development. | Joint discussion identifying stakeholder relevant research questions | All partners |

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| | Questions discussed included those relating to reflecting a high-R strategy, trade under a circular economy, the resilience of industry symbiosis, extreme/unexpected scenarios, comparing net-zero with and without circular economy, trade-offs of recycling, and public investments. It was noted that questions could be reformulated, refined, and changed.<br>Scenario narratives, energy databases, regional renewable energy potentials, techno-economic data, individual industry databases, site-specific information, and data for the energy system module (openPROM) and industry modules (EDM-I and FORECAST-Industry) were listed as inputs. Outputs included sector developments, demographics, macroeconomic data, and final energy demand, feeding into the Computable General Equilibrium module (openGEM).<br>The discussion also featured insights from regional workshops. For example, Basque stakeholders mentioned the use of GIS models to establish nodal points in optimising routes to transport goods and services, recycling materials, as well as deciding grid infrastructures. Concerns were raised about data provision and the expected level of data aggregation in MIC3. The need for coordination from regional/sub-national governments to mobilise data reporting was highlighted.<br>Not all research questions were met due to time constraints but WP3 leads decided upon a second meeting in Wuppertal, after Christmas, including WP2. 3, and 4 leads. Therefore, the research questions addressed today and those that need to be taken forward have been moved to the Wuppertal joint discussion folder in SharePoint. | | |
| WP4 - Developing satellite modules | It was outlined that WP4 focuses on developing satellite modules. The document discussed the progress and next steps of the WP, with contributions from all Task Leads. Detailed updates from each task were presented.<br>Submitted MS5 and MS8 were briefly discussed<br>The approach to identifying interfaces and workflows involved four steps: creating and filling templates for model input and output parameters per module, creating module profiles detailing inputs, model functionalities and methods, and outputs, preparing model interfaces and workflows based on model parameter lists, and considering scenario narratives.<br>Specific data inputs and outputs for various modules were discussed, such as those for the industry module (FORECAST-Industry and EDM-I), OpenGEM (CGE), OpenPROM (Energy System), | | All modelling teams |

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| | and MFA. These included parameters related to capital stock, vehicle stock, energy stock, industry stock, CE indicators, socio-economic data, material demands, product prices, product demands, and energy system research questions. | | |
| WP5 – Setting up communication, dissemination, networking | It was outlined that WP5 focuses on setting up communication, dissemination, and networking. The objectives include the creation of an appealing and impactful visual identity and website, the development and delivery of an impactful Communication, Dissemination and Exploitation (CDE) plan, and the planning and establishment of numerous, sustainable, and productive synergies with other research projects.<br>A brief overview of the project's visual identity was presented demonstrating the TRANSIENCE website and all other communication and dissemination materials (posters, leaflets etc.)<br>The CDE plan was also overviewed includeing details on target audiences and how to reach them, methods for sharing results (open and accessible, offline and online channels), indicators to monitor dissemination, and already established social media channels. More attention was drawn to the consortium towards liking, reposting TRANSIENCE posts in social media, that have almost reached the KPI-specified number of followers (including the project's LinkeIn, X, Instagram, BlueSky, and Mastodon accounts)<br>Phase 1 synergies include collaboration with the sister project AMIGDALA through online meetings and the previous days joint event, dissemination activities with DG RTD under the Industrial Decarbonisation Mutual Learning Exercise, and established collaboration with Processes4Planet. | Maintain established collaboration with sister project AMIGDALA, Processes4Planet Partnership and other industry-relevant platforms | ICCS<br><br>All partners |
| Wrap-up, Q&A | The meeting ended with the ICCS administration team summarising the main points of discussion. They also thanked all participants for attending the meeting. | | ICCS |

# 3 Remote (Online) Meetings

## 3.1 Executive Board Meeting – 20 March 2024

### 3.1.1 Agenda

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|---|---|
| **Monday, 20 March, 2024** | |
| **Executive Board Meeting** | |
| **12:00-13:00 CET**<br><br>*Microsoft Teams* | |
| **Participants:** | All Partners |
| | |
| **Agenda** | |
| | |
| 1. | A.SPIRE & the Processes4Planet partnership |
| | • An introduction from Vladiana Daniela Petarlecean |
| 2. | Update on project progress (completed, ongoing, upcoming tasks & deliverables) |
| | • WP1: Project Management (Phase 1)<br>o Report on the SAB synthesis/status (MS1 – submitted)<br>o Update on requested documents & prefinancing.<br>o Internal data management system (MS3 – due by April 2024)<br>o Agreement on EB jour fixe (Wednesday, 12.00-13.00 CET, once per month) |
| | • WP2: Understanding stakeholder needs for new capacities<br>o Update on format, requirements, expectations.<br>o Possible timeline for Phase 1 stakeholder workshops<br>o Multi-layered stakeholder engagement strategy (D2.1 – due by April 2024)<br>o Stakeholder engagement database (MS4 – due by May 2024) |
| | • WP3: Characterising circularity/decarbonisation opportunities - generating model inputs<br>o Scoping & conceptualisation (MS2 – due by March 2024)<br>o The project's DMP & machine-actionability in ARGOS (D3.1 – due by April 2024)<br>o Updates on characterisation/conceptualisation work across tasks<br>o 'Systems of innovation perspective' status and strategy |
| | • WP4: Developing satellite modules<br>o Reflection on the two-day WP4 kick-off meeting<br>o Updates per satellite module<br>o Interfaces & data flows (MS5 – due by June 2024) |
| | • WP5: Setting up communication, dissemination, networking<br>o Status on website development<br>o Visual ID package & website (D5.1 – due by April 2024) |
| 3. | Invitation to join the INDtech 2024 Conference (3/5 June 2024, Namur, Belgium) |
| 4. | Any other business |

### 3.1.2 Minutes

| Present on Call | Name and Surname | Organisation |
|---|---|---|
| 1. | Alexandros Nikas | ICCS |
| 2.. | Christina Tigka | ICCS |
| 3. | Konstantinos Koasidis | ICCS |
| 4. | Natasha Frilingou | ICCS |



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| 5. | Panagiotis Kokkinakos | ICCS |
| 6. | Vasileios Rizos | CEPS |
| 7. | Edoardo Righetti | CEPS |
| 8. | Nwamaka Ikenze | CEPS |
| 9. | Monica Alessi | CEPS |
| 10. | Panagiotis Fragkos | E3M |
| 11. | Maro Baka | E3M |
| 12. | Marius Neuwirth | Fraunhofer |
| 13. | George Xexakis | HOLISTIC |
| 14. | Jakob Duerrwaechter | PIK |
| 15. | Christian Bauer | PSI |
| 16. | Diego García-Gusano | TECNALIA |
| 17. | Alvaro Riviera Calzadilla | UCL |
| 18. | Teresa Domenech Aparisi | UCL |
| 19. | Gergo Suto | UU |
| 20. | Li Shen | UU |
| 21. | Georg Holtz | WI |
| 22. | Vladiana Petărlecean | A.SPIRE |

**Minutes: Main issues discussed**

| Item | Description | Action | |
|---|---|---|---|
| | | What | Who |
| A.SPIRE & the Processes4Planet partnership | Ms Vladiana Petărlecean (A.SPIRE) presented an overview of the P4Planet partnership, its goals (climate neutrality, circularity, and competitiveness), governance structure, and the Strategic Research and Innovation Agenda (SRIA). She outlined the support A.Spire offers to projects, including communication and dissemination services, and explained the project's role in partnership reporting. | Submit questions for A.Spire (regarding P4Planet) by Friday noon | All partners |
| WP1 | Discussion on Scientific Advisory Board (SAB) composition, confirmation of members, and one member's conditional participation. Internal data management system confirmed as SharePoint and Microsoft Teams.<br>Pre-financing underway/completed.<br>Wednesdays at noon are proposed as a regular slot for executive board (EB) meetings, with flexibility for specific dates within the month. | Contact PSI and UCL for any pre-financing issues based on their national funding authorities. | ICCS |
| WP2 | Update on D2.1 (Multi-layered stakeholder engagement strategy) and MS4 (Stakeholder engagement database).<br><br>Discussion on the first regional workshop in Basque Country is planned for late May (28th or 30th). | Share template for stakeholder database<br>Share a draft of D2.1 one month before the deadline | CEPS<br><br>CEPS, TECNALIA |



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| WP3 | Focus on Tasks 3.2 (Open modelling framework definition/conceptualisation) and Task 3.3 (Characterising circularity and decarbonisation technologies, opportunities, and policies). Upcoming internal "CE in MIC3" workshop next week to discuss these topics and the modelling framework. Overlap with WP4 on model integration discussed. Clarification is sought on aligning the matrix of circular economy measures with the cluster realities. | Circulate the agenda for next week's workshop. | UU |
| WP4 | Recap of the kick-off meeting held two weeks prior, focusing on model interfaces and scenario narratives. The next steps include establishing a monthly meeting schedule and further detailing model interfaces after the "CE in MIC3" workshop. | Set up a Doodle poll for monthly WP4 meetings | Fraunhofer |
| WP5 | Update on D5.1(Visual identity & website), with website, flyer, roll-up banner, leaflet, and poster in progress. The website is expected to be ready within two weeks. | Finalise website and other dissemination materials. | ICCS |
| IND Tech 2024 Conference | Invitation received to attend the conference in Belgium in early June. The possibility of a free booth was discussed. | | All partners |

## 3.2 Executive Board Meeting – 24 April 2024

### 3.2.1 Agenda

| | |
|---|---|
| **Monday, 24 April, 2024** | |
| **Executive Board Meeting** | |
| **12:00-13:00 CET**<br><br>*Microsoft Teams* | |
| **Participants:** | All Partners |
| | |
| **Agenda** | |
| | |
| 1. | Update on project progress (completed, ongoing, upcoming tasks & deliverables) |
| | • WP1: Project Management (Phase 1)<br>o A.SPIRE Q&As<br>o Deliverable review work assignment<br>o Internal data management system (MS3 – submitted) |
| | • WP2: Understanding stakeholder needs for new capacities<br>o Update on format, requirements, expectations.<br>o Tentative timeline for Phase 1 stakeholder workshops<br>o Progress on the multi-layered stakeholder engagement strategy (D2.1 – due by April 2024)<br>o Progress on the stakeholder engagement database (MS4 – due by May 2024) |
| | • WP3: Characterising circularity/decarbonisation opportunities - generating model inputs<br>o Update on scoping & conceptualisation (MS2 – submitted)<br>o Progress on the DMP & machine-actionability in ARGOS (D3.1 – due by April 2024)<br>o Updates on characterisation/conceptualisation work across tasks |
| | • WP4: Developing satellite modules<br>o Coordination & next steps<br>o Updates per satellite module<br>o Progress on interfaces & data flows (MS5 – due by June 2024) |
| | • WP5: Setting up communication, dissemination, networking<br>o Website launch<br>o Progress on visual ID package & website (D5.1 – due by April 2024) |
| 2. | Invitation to join the INDtech 2024 Conference (3/5 June 2024, Namur, Belgium) |
| 3. | Any other business |

### 3.2.2 Minutes

| Present on Call | Name and Surname | Organisation |
|---|---|---|
| 1. | Alexandros Nikas | ICCS |
| 2.. | Christina Tigka | ICCS |
| 3. | Konstantinos Koasidis | ICCS |
| 4. | Panagiotis Kokkinakos | ICCS |
| 5. | Vasileios Rizos | CEPS |
| 6. | Edoardo Righetti | CEPS |
| 7. | Maro Baka | E3M |
| 8. | Marius Neuwirth | Fraunhofer |
| 9. | George Xexakis | HOLISTIC |



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| 10. | Patryk Białas | PNTEC |
| 11. | Anna Gorczyca | PNTEC |
| 12. | Agnieszka Zięcina | PNTEC |
| 13. | Diego García-Gusano | TECNALIA |
| 14. | Iñigo Muñoz | TECNALIA |
| 15. | Gergo Suto | UU |
| 16. | Li Shen | UU |
| 17. | Lukas Hermwille | WI |

**Minutes: Main issues discussed**

| Item | Description | Action | |
|---|---|---|---|
| | | What | Who |
| WP1 | The milestone report on the internal data management system (MS3) has been successfully submitted. The next step is ensuring smooth documentation and archiving in SharePoint.<br><br>Moreover, A.Spire clarified that KPI reporting is not explicitly required but teams will need to complete a survey for the European Commission regarding project contributions. | Ensure smooth documentation and archiving in SharePoint<br><br>Consider adding a KPI section in technical reports | ICCS<br><br>All partners |
| WP2 | The first regional workshop is scheduled for 28 May in the Basque Country, with the Three Horizons framework selected as the facilitation method. An internal training session on 8 May will be held to familiarise the team with the framework.<br>D2.1 has been finalised and is ready for submission. Next steps involve confirming case study workshop dates before summer, refining the stakeholder outreach strategy, and structuring the engagement process effectively.<br>In addition, the team discussed the importance of targeted stakeholder engagement over general social media outreach.<br><br>A new online registration form for stakeholders was proposed to enhance targeted outreach. Develop the online form, evaluating the effectiveness of A.Spire's dissemination strategy, and coordinating targeted invitations for events. | Review and refine stakeholder outreach strategy<br><br>Confirm dates for all case study workshops before summer<br><br>Ensure a structured engagement process & stakeholder categorisation<br><br>Develop an online registration form for stakeholders | CEPS, WI<br><br>WI, PNTEC, TECNALIA, UU<br><br>CEPS, WI, WP2 Partners<br><br>CEPS |
| WP3 | The Data Management Plan (D3.1 - Machine-actionable, open data management plan) is on track for submission by Friday after incorporating feedback. | Finalise and submit Data Management Plan by Friday | ICCS |



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| | Work is ongoing on the characterisation of circular economy strategies, and collaboration with WP4 continues to map different model details. The main action items include finalising and submitting the Data Management Plan, ensuring alignment with WP4 on model integration, and engaging regional partners for case studies. | Continue alignment with WP4 on model integration | UU, UCL |
| WP4 | The WP4 team has held bilateral meetings to define model input parameters and is currently working toward MS5 (Module interfaces and data exchange), due in June. The next WP4 workshop is scheduled for 15 May.<br><br>The focus is on completing the model input parameter list, preparing for the milestone submission, and continuing coordination between modelling teams. | Prepare MS5 submission for June<br><br>Complete model input parameter list for review<br>Continue coordination across modelling teams | Fraunhofer, WP4 partners<br><br>E3M<br><br>WP4 leads |
| WP5 | The website is fully developed but has not yet been publicly launched due to a pending technical delay. Flyers, posters, and leaflets have been designed and documented, with plans to translate them into case study languages for more effective outreach. The priority now is launching the website, distributing an Excel file to partners for translations, and ensuring promotional materials are ready before upcoming workshops. | Publicly launch website; Send an Excel file to partners for translating outreach materials; Ensure promotional materials are ready before workshops start | ICCS |

## 3.3 Executive Board Meeting – 19 June 2024

### 3.3.1 Agenda

| | |
|---|---|
| **Monday, 19 June, 2024** | |
| **Executive Board Meeting** | |
| **12:00-13:00 CET**<br><br>*Microsoft Teams* | |
| **Participants:** | All Partners |
| | |
| **Agenda** | |
| | |
| 1. | Update on project progress (completed, ongoing, upcoming tasks & deliverables) |
| | • WP1: Project Management (Phase 1)<br>o Meeting with EC DGs, AMIGDALA, A.SPIRE (24/05 & 31/05)<br>o Deliverable review work assignment<br>o D1.1 "Quality management plan" status update (due 28/06) |
| | • WP2: Understanding stakeholder needs for new capacities<br>o In-person GA meeting and joint Brussels workshop with AMIGDALA (22-24 October 2024)<br>o Brief update on MS4 (delivered late May)<br>o Progress in engaging with industry/policy actors (MS6 – due 31/07) |
| | • WP3: Characterising circularity/decarbonisation opportunities - generating model inputs<br>o Updates on characterisation/conceptualisation work across tasks |
| | • WP4: Developing satellite modules<br>o Updates per satellite module<br>o Progress on interfaces & data flows (MS5 – due 28/06/2024) |
| | • WP5: Setting up communication, dissemination, networking<br>o Website launch<br>o D5.2 "The TRANSIENCE project CDE plan" status update (due 28/06)<br>o Synergy meeting with the AMIGDALA consortium (early July 2024) |
| 2. | Any other business |

### 3.3.2 Minutes

| Present on Call | Name and Surname | Organisation |
|---|---|---|
| 1. | Alexandros Nikas | ICCS |
| 2.. | Christina Tigka | ICCS |
| 3. | Konstantinos Koasidis | ICCS |
| 4. | Panagiotis Kokkinakos | ICCS |
| 5. | Edoardo Righetti | CEPS |
| 6. | Maro Baka | E3M |
| 7. | Meta Thurid Lotz | Fraunhofer |
| 8. | Jakob Duerrwaechter | PIK |
| 9. | Patryk Białas | PNTEC |
| 10. | Anna Gorczyca | PNTEC |
| 11. | Agnieszka Zięcina | PNTEC |
| 12. | Christian Bauer | PSI |
| 13. | Iñigo Muñoz | TECNALIA |



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| 14. | Teresa Domenech Aparisi | UCL |
| 15. | Gergo Suto | UU |

| **Minutes: Main issues discussed** | | | |
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| Item | Description | Action | |
| | | What | Who |
| WP1 | The primary update from WP1 focused on the submission of D1.1, which had already undergone review and was ready for submission immediately after the call. The team thanked reviewers for their valuable feedback, which had been incorporated.<br>Another important point was the discussion on deliverable review assignments. While most partners received assignments based on their expertise and availability, there were cases where some deliverables had too many interested reviewers, while others had fewer. The team worked to balance these preferences fairly, but adjustments can still be made if necessary.<br>To ensure smooth reporting, ICCS encouraged reviewers to confirm their assignments and coordinate any necessary changes before the review process officially begins. | Submit D1.1<br><br>Ensure review assignments remain balanced | ICCS<br><br>ICSS |
| WP2 | WP2 provided an update on the stakeholder database and GDPR compliance. The team confirmed that MS4 (Stakeholder engagement database) was successfully submitted late last month. The stakeholder database will be securely stored within CEPS' CRM system instead of a shared spreadsheet, ensuring compliance with GDPR regulations. However, project partners can still request access to specific data when needed.<br>To streamline the process of obtaining stakeholder consent, the team opted for a Microsoft Form instead of manually collecting signed PDFs. This will allow stakeholders to digitally submit their consent, making data collection more efficient and secure. A standardised email template will be distributed to project partners, including a link to the form, so they can invite stakeholders to participate.<br>Regarding the regional stakeholder workshops, WP2 confirmed that one workshop had already taken place (Basque Country), and the second workshop is scheduled for August. Hosting this second workshop within the planned timeframe will ensure compliance with the grant agreement. Additionally, a protocol for case study workshops, developed by Lucas, was shared with the team to guide the process. | Ensure stakeholder data is stored securely & shared appropriately<br><br>Finalise Microsoft Form & distribute template for stakeholder sign-ups<br><br>Confirm July workshop details | CEPS<br><br>CEPS<br><br>WI |
| WP3 | WP3 reported significant progress. The policy matrix is now fully completed, while the longer policy framework document, D3.3 (Conceptualisation of CE and policy mapping), —which focuses on plastics, cement, and steel sectors—is nearing finalisation. | | UCL |



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| | The WP3 team is also refining methodologies for linking policy interventions with modelling frameworks to ensure seamless integration.<br>A key discussion point was the need for stronger collaboration with WP4, particularly regarding policy feasibility within modelling frameworks. WP3 has already attended several WP4 sessions and has worked closely with them, but there is a need for deeper integration.<br>There was also a discussion on two upcoming innovation-related deliverables (D3.5 & D3.6), which focus on semi-quantitative assessments and innovation impacts. The team debated whether additional engagement was needed to ensure these deliverables align effectively with broader WP3 objectives. ICCS, which is responsible for one of these deliverables, agreed that further collaboration would be beneficial. To facilitate this, WP3 and ICCS plan to schedule a coordination meeting in the coming weeks.<br><br>In addition, WP3 is actively preparing for MS7 (Draft Modeling Framework), due in August. This milestone will initially focus on the cement and concrete value chains, before expanding to other materials and industries in later project stages. WP3 is currently reaching out to modelling teams, particularly MFA teams, to align expectations. However, given the upcoming summer holiday period, scheduling conflicts may arise, and the team is working proactively to minimise disruptions. | Strengthen WP3–WP4 collaboration on modelling feasibility<br><br>Align innovation deliverables with broader WP3 work<br><br>Schedule meeting between ICCS & WP3 for innovation deliverables<br>MS7 to initially focus on cement and concrete value chains | UU, WP4 leads<br><br>UU, UCL,ICCS<br><br>UU, UCL,ICCS<br><br>UCL |
| WP4 | WP4 is currently focused on finalising MS5 (Model Interface & Data Exchange), which is due next week. The team has engaged in extensive discussions on model interactions and data exchange frameworks, and a draft document is nearly complete. Over the coming days, Marius and the WP4 team will refine and submit the final version.<br>The team is also developing a base case for model interactions, which will serve as the foundation for later refinements in MS7 (Draft framework for modelling) due in August.<br>The integration of circular economy policies into the modelling process is another priority, and WP4 is collaborating with WP3 to define how policy scenarios will influence different models.<br>Looking ahead, MS8 (Internal data exchange and validation) also due in August, will require a clear division of responsibilities. With the summer holiday period approaching, Fraunhofer emphasised the need for proactive planning to ensure tasks are completed on time.<br>To support this, the team will track partner availability and adjust the workload distribution accordingly. | Finalise & submit MS5 next week<br><br>Coordinate with WP3 to integrate circular economy strategies<br>Plan MS8 division before summer<br><br>Map partner availability for | Fraunhofer, E3M<br><br>Fraunhofer, UU<br>Fraunhofer, E3M<br><br>Fraunhofer |



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| | | summer to avoid delays | |
| WP5 | WP5 announced the official launch of the project website, which is now accessible via transience.eu & industry4netzero.eu. Although the site is functional, there are a few minor technical issues that are being addressed.<br>Additionally, ICCS is preparing to release the first project newsletter, which will include updates on project progress, upcoming events, and stakeholder engagement activities. The newsletter will serve as a tool for dissemination and outreach.<br>Another important update is the confirmation of six members for the Scientific Advisory Board. WP5 is in the process of collecting their bios and photos, which will be published on the website soon.<br>WP5 also oversees synergies and collaborations, which includes the upcoming joint workshop with sister project AMIGDALA in October. Beyond the workshop, the team is exploring additional collaboration opportunities such as joint publications, policy briefs, and stakeholder engagement activities. These ideas will be further discussed during the next EB meeting. | Fix technical issues on website<br><br>Finalise & send the first newsletter<br><br>Publish Scientific Advisory Board (SAB) profiles online | ICCS<br><br>ICCS<br><br>ICCS |

## 3.4 Executive Board Meeting – 25 September 2024

### 3.4.1 Agenda

| | |
|---|---|
| **Monday, 25 September, 2024** | |
| **Executive Board Meeting** | |
| **12:00-13:00 CET**<br><br>*Microsoft Teams* | |
| **Participants:** | All Partners |
| | |
| **Agenda** | |
| | |
| 1. | Update on project progress (completed, ongoing, upcoming tasks & deliverables) |
| | • WP1: Project Management (Phase 1)<br>o TRANSIENCE x AMIGDALA workshop and technical meeting (22/10)<br>o TRANSIENCE internal General Assembly (23/10)<br>o Deliverable review work assignment |
| | • WP2: Understanding stakeholder needs for new capacities<br>o Brief summary of achieved MS6 "Engaging with industry/policy actors" and next steps<br>o Insights from NRW stakeholder Workshop<br>o D2.2 "Assessing needs for model applications" status update (due 31/10)<br>o Planning of next stakeholder workshops |
| | • WP3: Characterising circularity/decarbonisation opportunities - generating model inputs<br>o Brief summary of achieved MS7 "Draft framework for modelling" and next steps<br>o D3.2 "Open model development strategy" status update (due 31/10)<br>o D3.3 "Conceptualisation of CE and policy mapping" status update (due 31/10) |
| | • WP4: Developing satellite modules<br>o Brief summary of achieved MS8 "Internal data exchange and validation" and next steps<br>o Updates per satellite modules |
| | • WP5: Setting up communication, dissemination, networking<br>o MS9 "Plan for collaborations and synergies" status update (due 31/10) |
| 2. | Any other business |

### 3.4.2 Minutes

| Present on Call | Name and Surname | Organisation |
|---|---|---|
| 1. | Alexandros Nikas | ICCS |
| 2.. | Christina Tigka | ICCS |
| 3. | Konstantinos Koasidis | ICCS |
| 4. | Panagiotis Kokkinakos | ICCS |
| 5. | Vasileios Rizos | CEPS |
| 6. | Edoardo Righetti | CEPS |
| 7. | Maro Baka | E3M |
| 8. | Panagiotis Fragkos | E3M |
| 9. | Marius Neuwirth | Fraunhofer |
| 10. | Simon Lukas Bussmann | Fraunhofer |
| 11. | Nikolaos Rallis | HOLISTIC |



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| 12. | Jakob Duerrwaechter | PIK |
| 13. | Sally Dacie | PIK |
| 14. | Anna Gorczyca | PNTEC |
| 15. | Agnieszka Zięcina | PNTEC |
| 16. | Christian Bauer | PSI |
| 17. | Iñigo Muñoz | TECNALIA |
| 18. | Alvaro Calzadilla Riviera | UCL |
| 19. | Teresa Domenech Aparisi | UCL |
| 20. | Gergo Suto | UU |
| 21. | Li Shen | UU |
| 22. | Lukas Hermwille | WI |
| 23. | Miriam Ruß | WI |

| **Minutes: Main issues discussed** | | | |
|---|---|---|---|
| Item | Description | Action | |
| | | What | Who |
| WP1 | The meeting focused heavily on the final preparations for the October events, namely the EU stakeholder workshop on 22 October and the GA on 23 October. Despite pushing for clarity since June, the European Commission has yet to provide a final green light on the agenda. However, the tentative schedule has been shared in the weekly emails, and no significant changes are expected.<br>To ensure participation, partners were reminded to confirm their attendance and update dietary preferences on SharePoint. Given that this is an invitation-only event, SAB (Scientific Advisory Board) members will also be invited, as they represent key industry stakeholders. Delays in confirming the final agenda has affected outreach efforts, but invitations may start being sent out soon regardless.<br>There was also a call for presentations for the GA. WPs leaders and relevant contributors will need to prepare presentations in advance. The goal is to ensure that the GA is as productive as possible, covering project progress, deliverables, and strategic discussions.<br>Regarding deliverable reviews, the process remains the same: draft deliverables should be submitted four weeks prior to the deadline for internal review. Partners were encouraged to flag any scheduling conflicts early to avoid last-minute issues. The review process for upcoming deliverables was discussed. The reviewer list has been finalised, and partners should already be aware of their assignments based on previous communications. However, if any partner is unable to meet their assigned review commitments, they should notify the coordination team immediately. To maintain rigorous internal review, all deliverables must be submitted at least four weeks before their final deadline. This allows for proper feedback and revision. | Confirm attendance for October events<br><br>Finalise invitations & outreach<br><br>Prepare presentations for GA<br><br>Deliverables review process | All partners<br><br>ICCS, CEPS<br><br>All partners<br><br>All partners |



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| | However, an exception was noted for D2.1, which summarises stakeholder interactions, including the Brussels workshop. Given that this workshop takes place at the end of October, some content may only be finalised in early November.<br><br>The project team will request flexibility from the project adviser to allow for an updated submission later in the year that incorporates additional insights. While the Commission does not usually favour late submissions, they have been accommodating these in cases where deliverables are heavily dependent on stakeholder input. | D2.1 to be updated after submission to include EU stakeholder engagement workshop insights<br>Request policy officer approval for flexible D2.1 submission | WI, ICCS, Case study leads<br><br>ICCS |
| WP2 | WP2 is currently in an intensive phase, as several regional workshops have taken place and require synthesis. The Rhine-Ruhr workshop in Wuppertal (Aug 2024) was a small but highly productive session, with key discussions focusing on investment constraints due to political and economic uncertainties. The team has already begun integrating key findings into the case study report and has developed causal loop diagrams to map stakeholder concerns.<br>Additionally, a workshop in Poland was recently conducted, with 18 participants from diverse backgrounds, including representatives from the Ministry of Industry and local authorities. The discussions generated valuable qualitative insights, which are currently being processed for inclusion in the final report.<br>WP2 partners are now focused on drafting regional reports, due by October, which will provide essential inputs for the upcoming synthesis report. These findings will be further discussed at the GA to ensure alignment with WP3 and WP4. A joint session with WP4 is planned to explore how stakeholder insights can inform model development and policy recommendations. | Organise WP2-WP3 joint session during the GA | WP2, WP3, WP4 partners |
| WP3 | WP3 is currently in a highly demanding period, with two critical deliverables due by the end of the month: i) D3.2: Open Model Development Strategy, ii) D3.3: Conceptualisation of Circular Economy and Policy Mapping.<br>The team is on track to meet the deadlines, although they may require a brief extension of one week for internal review.<br>Given the overlap between WP2 and WP3, particularly in identifying stakeholder concerns and policy gaps, WP3 is coordinating closely with WP2 to ensure findings are effectively incorporated into their deliverables. A joint session at the GA is being organised to facilitate this discussion, bringing together policymakers, industry representatives, and modellers to align expectations.<br>WP3 also plans to strengthen collaboration with WP4 to ensure policy insights are effectively translated into model scenarios. Regular meetings have already been | Submit D3.2 & D3.3 (Open Model Strategy & Policy Mapping) | UU, UCL |



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| | taking place, and additional coordination will occur in the coming weeks. | | |
| WP4 | WP4 reported significant progress in model development. The preliminary input and output templates have been completed and uploaded to SharePoint. The finalisation of MS5 in June marked an important step, as it outlined how data will be exchanged between different models.<br>The team is now focused on producing initial model outputs, which will be reviewed for consistency with existing databases. A key challenge is ensuring that data flows correctly between different models, a process that will be further refined in upcoming WP4 meetings.<br>Additionally, WP4 is preparing for MS8 (Internal data exchange and validation). Several bilateral meetings between E3M and MFA teams have already taken place to facilitate this process. The plan is to resolve outstanding issues at the GA so that the overall modelling framework can be finalised in the coming months. | Finalise model outputs & ensure data consistency<br><br>MS8 preperation | WP4 partners<br><br>E3M, WI |
| WP5 | WP5 provided updates on the project's communication and dissemination activities. The project website continues to be updated, and efforts are being made to grow the social media presence.<br>A second newsletter is currently being prepared, but no new publications were announced at this time.<br>However, ICCS encouraged partners to notify them of any upcoming publications so that these can be promoted through official channels.<br>Looking ahead, WP5 is also managing a milestone report on collaboration and synergies (MS9), which will be submitted by the end of October. This report will detail efforts made to establish partnerships and align work with related project synergies. | Continue growing social media presence<br><br>Prepare MS9 | ICCS<br><br>ICCS |

## 3.5 Executive Board Meeting – 27 November 2024

### 3.5.1 Agenda

| | |
|---|---|
| **Monday, 27 November, 2024** | |
| **Executive Board Meeting** | |
| **12:00-13:00 CET**<br><br>*Microsoft Teams* | |
| **Participants:** | All Partners |
| | |
| **Agenda** | |
| | |
| 1. | Update on project progress (completed, ongoing, upcoming tasks & deliverables) |
| | • WP1: Project Management (Phase 1)<br>o TRANSIENCE x AMIGDALA workshop and General Assembly: summary and action point<br>o Deliverable review work assignment |
| | • WP2: Understanding stakeholder needs for new capacities<br>o Brief summary of (submitted) D2.2 "Assessing needs for model applications"<br>o Planning of next stakeholder workshops |
| | • WP3: Characterising circularity/decarbonisation opportunities - generating model inputs<br>o Brief summary of (submitted) D3.2 "Open model development strategy"<br>o Brief summary of (submitted) D3.3 "Conceptualisation of CE and policy mapping"<br>o D3.4 "Framework for industry transition modelling" status update (due 31/12) |
| | • WP4: Developing satellite modules<br>o IAMC Model variables relevant to MIC3 status update<br>o Updates per satellite module |
| | • WP5: Setting up communication, dissemination, networking<br>o Communication, dissemination and networking activities status update |
| 2. | Any other business |

### 3.5.2 Minutes

| Present on Call | Name and Surname | Organisation |
|---|---|---|
| 1. | Alexandros Nikas | ICCS |
| 2.. | Christina Tigka | ICCS |
| 3. | Konstantinos Koasidis | ICCS |
| 4. | Edoardo Righetti | CEPS |
| 5. | Maro Baka | E3M |
| 6. | Panagiotis Fragkos | E3M |
| 7. | Andrea Herbst | Fraunhofer |
| 8. | George Xexakis | HOLISTIC |
| 9. | Nikolaos Rallis | HOLISTIC |
| 10. | Sally Dacie | PIK |
| 11. | Patryk Białas | PNTEC |
| 12. | Tom Terlouw | PSI |
| 13. | Iñigo Muñoz | TECNALIA |
| 14. | Teresa Domenech Aparisi | UCL |



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| 15. | Miriam Ruß | WI |
| 16. | Georg Holtz | WI |

| **Minutes: Main issues discussed** | | | |
|---|---|---|---|
| Item | Description | Action | |
| | | What | Who |
| WP1 | The meeting began with an introduction of the new project advisor, who briefly met the team during the October EU stakeholder workshop in Brussels. | Establish contact with new project advisor | ICCS |
| | The meeting also covered feedback from the October stakeholder workshop and GA. While CEPS has successfully followed up with participants and shared materials, a summary of breakout sessions is still missing from the AMIGDALA project's note-takers. The team will continue chasing them to obtain the necessary information for reporting. | Chase AMIGDALA team for missing workshop notes | ICCS |
| | Looking ahead, the first half of 2025 will be particularly intense, with multiple deliverables due in May and June. To prepare for this, the team will begin publishing deliverable schedules in weekly emails, ensuring partners can plan their reviews and flag any issues in advance. In this context, a tentative 2025 deliverable timeline has been outlined, covering the high volume of submissions expected in May and June. Given the tight deadlines, partners are encouraged to indicate their review preferences early to ensure a balanced workload. | Confirm review preferences for 2025 deliverables | All partners |
| | A related discussion covered the publication policy for project outputs. As a rule, the project delays the public dissemination of deliverables until they have been formally approved by the European Commission. This delay allows researchers to publish academic papers based on the deliverables without concerns about self-plagiarism. However, if any partners wish to share their deliverables earlier, they should inform the coordination team to ensure alignment with project policies. | Publication policy | All partners |
| WP2 | WP2 provided an update on the progress of D2.2, which focuses on stakeholder engagement and case study findings. The deliverable structure includes a synthesis of stakeholder challenges, barriers, and solutions, along with annexes featuring individual case studies. A key outcome from stakeholder workshops was the identification of nine key research questions, many of which relate directly to modelling approaches. These questions address topics such as the resilience of decarbonisation pathways, the impact of public vs private investment, and the potential of circular economy strategies. | | |
| | Looking ahead, WP2 will update D2.2 to incorporate insights from the October EU stakeholder workshop and causal loop diagrams from regional case studies; hence coordinators aim to requesrt for a flexible | Request flexibility forD2.2 submission | ICCS |



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| | revision. Additionally, there are plans to develop an academic paper based on these research questions, potentially framing it as a research agenda for the project.<br>WP2 will coordinate with the modelling teams (WP4) to ensure alignment. | Academic paper based on D2.2<br><br>WP2 coordination with WP4 | WI, case study leads, ICCS<br><br>WI, Modelling leads |
| WP3 | WP3's primary focus was on D3.4 (Framework for industry transition modelling), which is currently in progress. While regular meetings with Utrecht University have been scheduled, discussions since the GA in October have been delayed due to capacity constraints. Despite this, WP3 remains on track for submission.<br>Another major task is the parameterisation of circular economy policy measures, which will help integrate policy insights into models. WP3 has been working on a policy matrix, classifying various policy instruments across three sectors. The next step involves identifying the key parameters needed for modelling and finding appropriate benchmark values from existing literature. WP3 aims to circulate a draft of the parameterisation framework by early January, followed by discussions with the modelling teams to ensure feasibility.<br>Given the complexity of these tasks, a dedicated coordination meeting with WP4 will be scheduled after Christmas.<br><br>Additionally, WP3 is preparing for MS10 (Initial policy & technology database) due in Dec 2024, which involves creating an open database of circular economy measures. This milestone must include an assessment of which measures can be incorporated into models. WP3 will work closely with WP4 and Holistic to ensure the database is compatible with the IAM PARIS platform. | Circulate a draft of the policy parameterisation framework<br><br>Organise WP3-WP4 technical meeting on modelling interactions<br>Finalise and submit MS10 | UCL, UU<br><br>WP3, WP4 leads<br><br>UCL, UU, HOL |
| WP4 | WP4 reported substantial progress on modelling interactions and data exchange. Following the completion of MS5 (Module interfaces and data exchange), the team has begun producing initial model outputs, which are currently being tested for consistency with existing databases.<br>A key challenge is ensuring seamless data exchange between different models, particularly in the context of circular economy strategies. To facilitate this, WP4 will intensify collaboration with WP3 by organising a dedicated technical meeting after Christmas to refine policy-to-model linkages.<br>Additionally, UCL is preparing for MS10, which requires an assessment of circular economy policies and their potential integration into modelling frameworks. WP4 will review the draft database produced by WP3, providing feedback on which policies can realistically be modelled.<br>Finally, WP4 highlighted the need for a more structured approach to model interlinkages. The team will create a centralised documentation system to track how | Next steps following MS5<br><br>MS10 to be fed/reviewd by modelling teams<br><br>Develop a structured system | Fraunhofer<br><br>UCL, All modelling teams<br><br>WP4 leads |



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| | different models interact and share data. This will be particularly important as the project moves into more complex modelling phases in 2025. | for tracking model interlinkages | |
| WP5 | WP5 is currently focused on two main dissemination activities: i) Preparing a press release and newsletter summarising key outcomes from the October EU stakeholder workshop and GA and ii) Coordinating project contributions to the IAM PARIS platform, ensuring that TRANSIENCE research outputs are well integrated.<br>The team also reiterated the importance of ensuring open-access compliance for project publications. A standard acknowledgement paragraph will be shared with partners to include in any academic papers or conference presentations linked to the project. | Prepare press release and newsletter on October events;<br><br>Prepare an TRANSIENCE acknowledgment paragraph for academic papers | ICCS<br><br>ICCS |

## 3.6 Executive Board Meeting – 26 February 2025

### 3.6.1 Agenda

| | |
|---|---|
| **Monday, 26 February 2025** | |
| **Executive Board Meeting** | |
| **12:00-13:00 CET**<br><br>*Microsoft Teams* | |
| **Participants:** | All Partners |
| | |
| **Agenda** | |
| | |
| 1. | Update on project progress (completed, ongoing, upcoming tasks & deliverables) |
| | • WP1: Project Management (Phase 1)<br>o Upcoming deliverables review work assignment<br>o Update on project's technical review report & review meeting |
| | • WP2: Understanding stakeholder needs for new capacities<br>o Planning of next stakeholder workshops<br>o Joint publication based on D2.2 and partner's inputs |
| | • WP3: Characterising circularity/decarbonisation opportunities - generating model inputs<br>o Brief summary on WP2/3/4 joint meeting in Wuppertal Institute<br>o Brief summary on (submitted) MS11<br>o Updates on upcoming deliverables/milestones |
| | • WP4: Developing satellite modules<br>o Updates per satellite module<br>o Updates on IAM PARIS and open science protocols |
| | • WP5: Setting up communication, dissemination, networking<br>o Communication, dissemination and networking activities status update |
| 2. | Any other business |

### 3.6.2 Minutes

| Present on Call | Name and Surname | Organisation |
|---|---|---|
| 1. | Alexandros Nikas | ICCS |
| 2.. | Christina Tigka | ICCS |
| 3. | Konstantinos Koasidis | ICCS |
| 4. | Edoardo Righetti | CEPS |
| 5. | Maro Baka | E3M |
| 6. | Sonja Sechi | E3M |
| 7. | Marius Neuwirth | Fraunhofer |
| 8. | George Xexakis | HOLISTIC |
| 9. | Jakob Duerrwaechter | PIK |
| 10. | Agnieszka Zięcina | PNTEC |
| 11. | Tom Terlouw | PSI |
| 12. | Iñigo Muñoz | TECNALIA |
| 13. | Teresa Domenech Aparisi | UCL |
| 14. | Gergo Suto | UU |
| 15. | Miriam Ruß | WI |



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| Minutes: Main issues discussed | | | |
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| Item | Description | Action | |
| | | What | Who |
| WP1 | The meeting began with a discussion about the project review process and upcoming deliverables. The coordination team reminded partners that May and June will be particularly intense, with numerous deliverables due within a short timeframe. As such, partners were asked to confirm their availability for reviewing assignments as early as possible. While review assignments were originally based on expressed interest, adjustments can still be made to ensure that workload is distributed fairly.<br>The project advisor's suggestion to schedule the review meeting in early September rather than the usual two months after the reporting period was discussed. The coordination team argued that holding the meeting before the technical report is finalised would be counterproductive. However, the exact timing of the review meeting was left uncertain.<br>Another key point was the planning of an in-person project meeting. If the review meeting is held in early September, it may be logical to combine it with a physical project meeting to ensure efficiency. However, this depends on the European Commission's final decision. Partners were invited to share any strong objections to an early September review meeting, but there was general agreement that this would be preferable instead of holding it in July or August, when many partners will be unavailable due to holidays.<br>Moreover, WP1 focused on the deliverable review process and project reporting. The coordination team emphasised that all deliverables must be submitted at least four weeks before their official deadlines to allow for thorough internal review. Given the high volume of deliverables due in May and June, it is crucial that partners highlight any potential issues as early as possible to avoid bottlenecks.<br>A discussion also took place regarding European Commission reporting requirements. | Confirm review availability for May/June deliverables<br><br>Establish final date for review meeting (September or lat<br><br>Arrange a physical project meeting close to review | All partners<br><br>ICCS<br><br>ICCS |
| WP2 | WP2 discussed the timing of the next round of stakeholder workshops. While no firm date has been set, there was an internal discussion about whether the next EU workshop should be moved forward to align with the review meeting in September. This would allow for greater stakeholder engagement before the reporting period ends and could improve coordination with the wider project activities.<br>The team also noted that there is flexibility in the original workshop timeline, and workshops from the previous round were also rescheduled based on practical constraints. A decision will be made after consulting the Excel planning file, which details | Consult Excel file to confirm stakeholder workshop | CEPS, ICCS,WI |



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| | expected workshop timelines based on the grant agreement.<br>In parallel, WP2 is progressing a draft paper mainly drawing from D2.2, synthesising findings from previous workshops and stakeholder engagements. A draft outline is already in place, and further work will be conducted in the coming weeks to incorporate additional insights. | Draft WP2 paper prepared and will soon require more inputs | WI |
| WP3 | WP3 focused on upcoming deliverables, particularly: i) D3.5 (Open database of policies & technologies) and ii) D3.6 (Increased understanding of the potential contribution of CE to decarbonisation).<br>The circular economy database (D3.5) raised a key question about documentation requirements. While the database itself is the main deliverable, the European Commission requires a short accompanying report explaining the data structure, methodology, and how it should be used. The report does not need to be extensive but must be uploaded to Zenodo alongside the dataset.<br>Regarding D3.6, WP3 has already compiled a significant amount of data that was not used in previous reports. This data will serve as a basis for the semi-quantitative analysis, focusing on the impact of circular economy strategies across the plastics, steel, and cement sectors. The next step is to finalise the structure of the report, led by Gergo and Li.<br>WP3 also noted that D3.7 (Industrial competitiveness and the EU twin transition) remains less defined, and further discussions will be needed to refine its scope. However, there is still sufficient time before its submission. | Finalise D3.5<br><br>Finalise D3.6<br><br><br><br><br><br><br><br>Draft D3.7 | UCL, UU<br><br>UU<br><br><br><br><br><br><br><br>E3M |
| WP4 | WP4 provided a structured update on its ongoing tasks, with particular emphasis on model integration and data exchange.<br>Task 4.1 (Socioeconomic Model Development) is progressing on schedule, with no anticipated delays.<br>Task 4.2 (Service and product database) is also moving forward, though further discussions are required to define data relationships between different models. The first rough version of the database is expected within two months.<br>Task 4.3 (EU material and sectoral flow pilot modules) has made significant progress, with most technical challenges already resolved. However, interactions with other modelling teams need to be clarified further.<br>Task 4.4 (EU industrial pilot modules) is moving forward as planned. A prototype of the FORECAST model has been published, and additional modules for steel, cement, and petrochemicals are in development. While progress on plastics modelling has slowed due to staff changes, the team is confident that a workable prototype will be ready by the deadline.<br>Task 4.5 (Global material flow and trade pilot module) is on track, although some refinements may be necessary to ensure all expected outputs are covered. | Progress and status update per Task | Fraunhofer |

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| | Task 4.6 (Energy system pilot module) has already been uploaded to GitHub, and the team is currently working on final calibration steps.<br>Task 4.7 (Environmental impact assessment) is dependent on data from other models, but preliminary results have been generated using placeholder data. The next step is to incorporate final model outputs to produce more robust results.<br>WP4 emphasised the importance of tracking interactions between different models, as this will be a key element in future deliverables and technical reports. A bilateral meeting will be scheduled between Fraunhofer and Wuppertal to resolve outstanding data-sharing issues. | Resolve data-sharing issues between models | Fraunhoder, WI |
| WP5 | WP5 is focusing on dissemination efforts, with the following priorities:<br>1. The next newsletter is scheduled for release tomorrow.<br>2. The first TRANSIENCE policy brief is being finalised. The English translation is pending, and, once complete, it will be uploaded to the website.<br>3. The project's social media presence continues to grow. LinkedIn and BlueSky now have more than 500 followers, reflecting strong engagement.<br>4. A call for media articles was made. Since the project must produce at least 10 media contributions, partners were encouraged to consider writing articles or contributing to industry publications. | Release next newsletter<br>Publish first policy brief (English version)<br>Project SoMe accounts<br>Media outputs to be considered | ICCS<br>WI<br>ICCS<br>All partners |



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## 3.7 Executive Board Meeting – 21 May 2025

### 3.7.1 Agenda

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| **Monday, 21 May 2025** | |
| **Executive Board Meeting** | |
| **12:00-13:00 CET**<br><br>*Microsoft Teams* | |
| **Participants:** | All Partners |
| | |
| **Agenda** | |
| | |
| 1. | Update on project progress (completed, ongoing, upcoming tasks & deliverables) |
| | • WP1: Project Management (Phase 1)<br>o Steps to proceed with the project's technical review report & review meeting |
| | • WP2: Understanding stakeholder needs for new capacities<br>o Joint publication based on D2.2 and partner's inputs |
| | • WP3: Characterising circularity/decarbonisation opportunities - generating model inputs<br>o Brief summary on (submitted) D3.5 - Open database of policies & technologies<br>o Brief summary on D3.6, D3.7 under review<br>o Updates on upcoming deliverables/milestones |
| | • WP4: Developing satellite modules<br>o Brief summaries on D4.1, D4.2, D4.3 under review<br>o Updates on all other upcoming deliverables<br>o Updates on IAM PARIS and open science protocols |
| | • WP5: Setting up communication, dissemination, networking<br>o Communication, dissemination and networking activities status update<br>o Scope synergies with other Horizon projects under the Climate Research Communication Network |
| 2. | TRANSIENCE's participation at INDtech conference, Krakow (PL) 2-4 June 2025 (P4Planet multi-project booth, IWG Industry) |
| 3. | Any other business |

### 3.7.2 Minutes

| Present on Call | Name and Surname | Organisation |
|---|---|---|
| 1. | Alexandros Nikas | ICCS |
| 2. | Christina Tigka | ICCS |
| 3. | Konstantinos Koasidis | ICCS |
| 4. | Panagiotis Kokkinakos | ICCS |
| 5. | Stratis Alexandrou | ICCS |
| 6. | Edoardo Righetti | CEPS |
| 7. | Sonja Sechi | E3M |
| 8. | George Xexakis | HOLISTIC |
| 9. | Stefanos Tsotras | HOLISTIC |
| 10. | Patryk Białas | PNTEC |
| 11. | Tom Terlouw | PSI |
| 12. | Christian Bauer | PSI |
| 13. | Diego García-Gusano | TECNALIA |



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| 14. | Teresa Domenech Aparisi | UCL |
| 15. | Gergo Suto | UU |
| 16. | Georg Holtz | WI |

**Minutes: Main issues discussed**

| Item | Description | Action | |
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| | | What | Who |
| WP1 | The project's review process towards the official review meeting (4 September 2025) were discussed. Official confirmation from the project advisor regarding this date remained outstanding.<br>A similar communication challenge was noted with the A.Spire Processes 4 Planet partnership (co-funding TRANSIENCE) concerning the project's participation in a joint booth at the EUIndTech event in June 2025. It was later discovered that the key individuals responsible for managing these interactions were on annual leave, leading to a missed opportunity for the project's representation. Nevertheless, it was confirmed that Patrick Bialas (PNTEC) would still participate in a satellite event, A.Spire's SET Plan Implementation Working Group for Industry (IWG Industry) as part of a panel discussion, providing a valuable platform to highlight industrial transition insights in Silesia in Poland, one of the project's case studies.<br>Looking ahead, the project team intends to conduct a dry run review meeting, likely followed by a General Assembly, towards the end of the current reporting period towards the end of July 2025. The first day will be dedicated to the review dry run, while the second to the General Assembly with detailed updates from all WPs. This online format was decided as the most practical, with a physical meeting anticipated during the second reporting period.<br>The team acknowledged the upcoming "hectic" deliverable sumission period, with D3.6, D3.7, D3.9, and four model development of WP4 deliverables currently undergoing internal review. MS12 has been drafted as a methodological report for sociotechnical transitions and pathways and will be integrated into D3.9.<br>By early July, the ICCS team will draft an example for the technical review report, focusing on WPs 1 and 5, to provide clear guidance for other WP leads in preparing their respective contributions. | Secure Review Meeting Confirmation<br><br>Finalise Dry Run/General Assembly Logistics<br><br>Oversee Deliverable Finalisation (D3.6, D3.7, D.3.9 and other WP4 deliverables)<br><br>Prepare Technical Report Exemple Sections for WP1 and WP5 by early July | ICCS<br><br>ICCS, All partners<br><br>ICCS, All partners<br><br>ICCS, HOLISTIC |



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| WP2 | WP2 primary focus currently revolves around an ongoing research article, as an outcome of D2.2. This publication is in its draft stage and its introduction and methodology sections are currently undergoing review by partners. The team anticipates further discussions on this article at the forthcoming GA. | Circulate D2.2 Article<br><br>Incorporate Review Feedback on research article<br><br>Prepare for GA discussion on research article progress | WI<br><br>WP2 leads<br><br>WI |
| WP3 | WP3 successfully submitted D3.5, the circular economy database during last month. While this database is currently an Excel file, the goal is to transform it into a dynamic, interactive platform by end of June, thereby significantly enhancing its utility for modellers. Discussions are ongoing to ensure its format is optimally suited for modelling purposes.<br>Several other deliverables are progressing for June. D3.6 examining the potential contribution of circular economy interventions to decolonisation and D3.7, a competitiveness report led by E3M are both under internal review. The latter is gaining feedback and is expected to be finalised by the end of this week or early next.<br>D3.9 is being managed in distinct sections. The Rhine-Ruhr case study has already been dispatched to WI colleagues for their review, while the Port of Rotterdam case study will follow in due course. The team aims for the MS12 completion by the end of May/early June, with the third case study (Basque Country) scheduled for early June, and the Silesia case study towards mid-to-late June. This staggered approach is designed to effectively manage the review workload.<br>Furthermore, WP4 has initiated engagement with sister project AMIGDALA to establish critical data exchange processes, with specific TRANSIENCE team members (Tom, Teresa, and George) assigned to facilitate this. Scenario synergies will be addressed at a later stage, likely during 2026-2027.<br>D3.8, pertaining to open science protocols, is on track, with a report currently being drafted and a file for model nomenclature being prepared for modellers to contribute to. | Transform Circular Economy Database into interactive platform by end of June<br><br>Finalise D3.6 and D3.7 both under review<br><br>Case Study Reviews (Port of Rotterdam, Basque Country, Silesia)<br>Finalise Milestone Report by end of May/early next week<br><br>Facilitate Data Exchange with AMIGDALA (ensure contact details received)<br><br>Advance Open Science Protocols (D3.8) | WP4 leads, UCL, HOL<br><br>UCL, E3M and assigned reviewers<br><br>ICCS, Fraunhofer, UU, PNTEC, TECNALIA<br>ICCS<br><br>ICCS, All modelling teams<br><br>HOL |
| WP4 | WP4 currently has several deliverables under review, specifically D4.1, D4.2, and D4.3. Fraunhofer colleagues are preparing deliverables for item and focus sites, with the focus sites program already published and a second version incorporating additional functionalities actively under development. The ITOM framework is also in the process of being published as open source. Sonja noted that the all code needs to be uploaded, an action anticipated in the near future. | Finalise D4.1, D4.2, D4.3 Reviews and Submissions<br><br>Upload Model Code | Fraunhofer, E3M, PSI<br><br>model team |



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| | Tom reported that D4.2, the product and service database, has successfully received all reviews and is undergoing final proofreads prior to its submission. He is also nearing the completion of the report for the environmental module (D4.7), which will then be circulated for review. All code associated with these deliverables will be published open source.<br>For D4.3, all reviews have been received, and revisions are presently underway, with submission expected early next week.<br>Regarding D4.4, the ITOM framework code is already accessible on GitHub, and its technical documentation will be available early in June. Example models and sophisticated scenario input data for the three key sectors, accompanied by thorough documentation, will be uploaded to Zenodo, with a dedicated SharePoint folder for reviewers. An umbrella report detailing the ITOM framework is also being prepared.<br>The global MFA model, managed by PIK, requires a follow-up for an update on its progress. The end-of-system model's documentation is now complete and being automatically produced, with sharing anticipated next week.<br><br>A significant point of discussion highlighted the critical need to explicitly demonstrate how TRANSIENCE has specifically influenced and shaped existing models, rather than merely duplicating previous work. This clarity is paramount for the review by the European Commission.<br>Teresa also provided detailed clarification on the technology database, explaining two distinct methods for displaying costs: aggregated primary and secondary processes based on GTAB data, and a more granular technology-specific cost range that incorporates decarbonisation and circular economy technologies. She further elaborated on the provision of parameter values for circularity interventions, drawing upon various scenarios. | Publish D4.2 Code open source<br>Distribute D4.7 (environmental module report) for review<br><br><br><br>Complete ITOM Framework Documentation & Examples (GitHub & Zenodo)<br><br><br><br>Follow up on Global MFA Model update<br>Share End-of-System Model documentation next week<br>Clearly articulate TRANSIENCE's contribution to all models<br><br><br>Refine Technology Database (cost display, circularity intervention parameters) | PSI<br>PSI<br><br><br>WI<br><br>Fraunhofer<br><br><br><br>PIK<br><br><br><br>ICCS, All modelling leads<br><br><br><br>UCL |
| WP5 | WP5 is actively engaged in preparing social media posts to disseminate information regarding the circular economy database and Patrick's upcoming panel participation in IWG.<br><br>A notable opportunity has emerged through the Climate Research Communication Network, which has extended an invitation for TRANSIENCE to consider scoping a joint webinar with other Horizon Europe projects, with a particular focus on models and modelling teams. A call from the Rescue project (centred on Carbon Capture and Storage) has already been received, and the team is encouraged to explore | Disseminate Project Updates (social media for database and Patryk's panel)<br><br>Explore Joint Webinar Opportunity (Climate Research Communication Network) | ICCS<br><br><br><br>ICCS, All modelling teams, CEPS |

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| | this and other potential synergies for the project's second phase.<br>The meeting concluded with a reminder of the substantial amount of work to be completed within the final two months of the current reporting period and the commencement of the next. The overriding emphasis remains on collaborative effort and timely submissions to ensure a seamless transition into the subsequent project phase. | | ICCS |

# 4 Scientific Advisory Board meetings

The Scientific Advisory Board (SAB) is an advisory body to the TRANSIENCE Consortium that advises the Consortium on matters related to the implementation and development of the project activities, including but not limited to the scope, transparency, and legitimacy of the activities and methods applied, and the robustness and dissemination of the results produced. The collective expertise of the SAB draws on a broad range of perspectives from the key scientific disciplines underlying mitigation, circular economy research and policy, and sustainability of European and global industry.

After numerous interactions between the ICCS administration team and project-relevant academic stakeholders and with a view to representing perspectives from academia, policymaking, industries and industry associations, and NGOs and/or union federations, the TRANSIENCE SAB currently consists of 6 members, covering a wide variety of expertise: Ulrich Leberle from Industrial Association for the European Paper Industry (CEPI), Koen Coppenholle from the Industrial Association for the European Cement Industry (CEMBUREAU), Florie Gonsolin from the Industrial Association for the European Chemical Industry (CEFIC), Frank Wouters from the Ammonia Energy Association (AEA), Frank Wubbolts from the Netherlands Organisation for Applied Scientific Research (TNO) and project coordinator of TRANSIENCE's sister project AMIGDALA, and finally, Lars J. Nilsson from Lund University. More information is available below:

- Mr. **Ulrich Leberle**: Ulrich is a Raw Materials Director at the Confederation of European Paper Industries (CEPI). Having held several positions in the field of raw materials at CEPI, his responsibilities in his current role include the availability of raw material from forestry and recycling and the policies impacting them. Prior to CEPI, Ulrich worked in the European Commission, the European Parliament, and as a consultant in a Brussels-based company specialising in EU Public Affairs.
- Mr. **Koen Coppenholle**: Koen Coppenholle is the Chief Executive Officer of the Industrial Association for the European Cement Industry (CEMBUREAU). Before joining CEMBUREAU, Koen was Head of European Affairs for ArcelorMittal in Brussels. Between September 2000 and November 2007, he was Senior Counsel European Affairs with General Electric EMEA in Brussels. In that capacity, he assisted GE's businesses on European regulatory issues and represented them before European and national authorities. Before joining GE in September 2000, Koen was senior associate with the law firm Linklaters De Bandt in Brussels (1995-2000), where he advised clients on all aspects of EU law and pleaded cases before the European Court of Justice, including as representative of the Belgian government. He worked as a "référendaire" in the cabinet of the Dutch Judge P.J.G. Kapteyn at the European Court of Justice from 1992 to 1995 and taught European law at the University of Leuven before that period.
- Ms. **Florie Gonsolin**: Florie Gonsolin joined Cefic in January 2017 as a Climate Change and Energy Manager and successively, as Director of Industrial Transformation Projects. She coordinates Cefic's participation into the EU Chemical Industry Transformation Pathway and manages ad-hoc projects on industrial transformation for the Cefic Board. Prior to joining Cefic, Florie worked for the transport fuels sector focusing on climate and energy policy. She also gained experience in the European Parliament, working for two MEPs. Florie is graduated International politics, law and economics (specialised in European politics) as well as business administration.
- Dr. **Lars J. Nilsson**: Lars J. Nilsson has a PhD in Energy Systems Studies (1993) from Lund University



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and was a Visiting Research Fellow at Princeton University in 1994-95. He has 30 years of experience in the fields of energy and environmental systems studies, technology assessments and policy analysis. A recent research focus is decarbonisation transitions in industry and their co-evolution with energy system transitions, as well as industrial development policy strategies. He was Coordinating Lead Author for the Industry chapter in the IPCC WGIII 6th Assessment Report (2022). Since 2022 he is a member of the European Scientific Advisory Board on Climate Change under the European Climate Law.

- Mr. **Frank Wouters**: Frank Wouters has been leading renewable energy projects, transactions, and technology development for more than 30 years and played a lead role in the development of renewable energy projects all over the world. He served as Deputy Director-General of the International Renewable Energy Agency (IRENA) from 2012 to 2014, and he is currently serving on the board of energy companies in Europe, Asia, the US and Africa. Frank has authored several books on renewable energy and green hydrogen and lives in Abu Dhabi. He has a Master of Science in Mechanical Engineering from Delft University.
- Dr. **Frank Wubbolts**: Frank Wubbolts is a Senior Scientist Integrator at the Netherlands Organization for Applied Scientific Research (TNO). He is the Scientific Coordinator of our sister project, AMIGDALA, funded under the same topic and tasked with a similar mission.

The SAB's synthesis will be subject to modifications if required based on new requirements, opportunities and/or challenges.

SAB members are asked to provide independent opinion, acting as advisors of the project's overarching progress and key outputs; as such, they were required to declare any personal, private, or commercial interests that might conceivably conflict with the interests of the project, so as to be absent from any discussion of topics, in which they have such an interest; no such interests were declared by our SAB members. Given the scope and purpose of the TRANSIENCE SAB, Board members are not reimbursed for their steering services, with the exception of travel and accommodation costs for their attendance at selected physical project meetings and workshops, in case they are invited to physically participate.

SAB members are kindly requested to act in their individual capacity (i.e., they are not required nor expected to act as representatives of their own organisations, research areas, or sectors). Their role is to provide a strategic and/or scientific perspective across the breadth of TRANSIENCE activities. Among the key principles are the separation of this strategic, scientific advice, and guidance on the one hand, from the project's decision-making process on the other, as the latter is the sole responsibility of the TRANSIENCE General Assembly; and the separation of said scientific advice from stakeholder input, which is a product of the stakeholder engagement activities of the TRANSIENCE Consortium with the engaged stakeholder groups (to take place notably in project work packages WP2, WP8, and WP11).

That said, the SAB member may be part of the stakeholder groups engaging with the project at times, especially at the EU-wide level.

In Phase 1, not many interactions with the SAB were envisaged to begin with, as (a) General Assemblies are the primarily designated meetings to invite them, (b) the first such large-scale consortium-wide meeting was the Kick-Off Meeting back when the SAB hadn't been appointed yet, and (c) the intended second GA meeting planned for Month 18 (June 2025) was postponed to July 2025 to accommodate the needs for closing Phase 1 and preparing for the project's interim review.



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Nonetheless, we invited our SAB members to join our first GA meeting in Brussels as well as the stakeholder workshop jointly held with AMIGDALA the day before, in October 2024, while frequent exchanges are taking place with one SAB member in particular, Frank Wubbolts, who coordinates AMIGDALA and with whom we together coordinate synergies.

## 4.1 SAB members at the joint TRANSIENCE-AMIGDALA EU workshop on 22 October 2024, in Brussels, Belgium

A first opportunity to get to know some of our SAB members arose in the context of the joint TRANSIENCE-AMIGDALA EU workshop on October 22, 2024 in the premises of CEPS, in Brussels, Belgium. The workshop aimed at bringing together stakeholders from policy, industry, research, and civil society to collaboratively identify the European industry's key transition challenges and ensure that both projects' scientific support is tailored to decision-makers and their real-life concerns/problems.

Considering they are located in Brussels, we invited half of our SAB members (i.e., those representing EU industry associations CEPIC, CEMBUREAU, and Cefic) as well as the SAB member representing our sister project AMIGDALA to our joint stakeholder workshop in person. Of these, two attended and actively contributed to the workshop: Frank Wubbolts (TNO) coordinated the AMIGDALA project's contribution to the workshop, while Florie Gonsolin delivered a keynote speech to our audience, on behalf of Cefic.

They also both participated throughout the workshop, in the different breakout sessions, helping to identify challenges and strategies to overcome them.

## 4.2 SAB members at the 1st General Assembly on 23 October 2024, in Brussels, Belgium (hybrid)

Following the EU stakeholder workshop that was jointly held with AMIGDALA, all SAB members were invited the next day to join our 1st GA meeting: most SAB members attended (online); one member in particular was unavailable and appointed a colleague of theirs to join on their behalf, while Frank Wubbolts would be unavailable on his way back to the Netherlands, so we held a separate meeting with him the day before (prior to the stakeholder workshop).

Although this was our first (virtual) get together with the SAB members and it was thus too early to elicit their feedback, we had the opportunity to (a) get to know them, (b) provide them with a detailed presentation of the TRANSIENCE project scope, objectives, timeline, and work structure, alongside key developments to date, (c) discuss their potential role on the no-strings-attached basis of "if interested and when convenient", and (d) get an idea of their expectations.

## 4.3 Frequent exchanges with the AMIGDALA Project Coordinator

Together with Frank Wubbolts, member of our SAB and project coordinator of our sister project AMIGDALA, we have organised several bilateral calls and had many opportunities to coordinate synergies and joint actions (listed below in chronological order):

- Monday, May 13, 2024: Quick introduction to both projects—we agreed to exchange among us as much information on the two projects as possible, to coordinate scenario design, and share data between the two projects.



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- Friday, May 24, 2024: Discussion between TRANSIENCE, AMIGDALA, the Project Advisors of both projects (HADEA), and DGs RTD & CLIMA—we discussed what the expectations from a meeting with A.SPIRE and Processes4Planet would be.
- Friday, May 31, 2024: Discussion between TRANSIENCE, AMIGDALA, HADEA, DGs RTD & CLIMA, and members of the A.SPIRE association—we presented both projects to the A.SPIRE association, and we discussed expectations from the expected modelling outcomes and agreed on ways to increase awareness of both projects' work and approach, to identify possible synergies, to promote exchange between coordinators, the European Commission and the Processes4Planet Partnership.
- Wednesday, July 3, 2024: Consortium-wide meeting between TRANSIENCE and AMIGDALA—we presented both projects in detail and discussed routes for collaboration.
- Monday, August 26, 2024: Bilateral call with Frank Wubbolts—we discussed how best to approach the joint stakeholder workshop in October 2024.
- Friday, August 30, 2024: Discussion between TRANSIENCE WP leaders and Frank Wubbolts—we collectively revised the final blurb of the joint stakeholder workshop in October 2024, identified common topics to ensure homogeneity in the event and agreed to keep project-related sessions in said workshop to a minimum.
- Wednesday, October 9, 2024: Consortium-wide meeting between TRANSIENCE and AMIGDALA—we connected all breakout session chairs of the October joint stakeholder workshop in Brussels, informed them on the agenda and the keynote presentations, and agreed on plenary pitch format, breakout discussion chairing format, and plenary summary format.
- Wednesday, October 16, 2024: Broad meeting between TRANSIENCE and AMIGDALA members chairing the breakout sessions of the October joint stakeholder workshop in Brussels—we finalised the format and all arrangements of the entire event structure.
- Tuesday, October 22, 2024: Consortium-wide meeting between TRANSIENCE and AMIGDALA (in the AM) before the joint EU stakeholder workshop (in the PM)—we did a dry run of presentations and discussions of the upcoming stakeholder workshop.
- Wednesday, May 14, 2025: Bilateral call with Frank Wubbolts on policy events and next synergistic steps—we discussed potential participation in IndTech 2025 in Poland and the European Sustainable Energy Week 2025, and we agreed on defining contact points and setting up processes for data exchange between the two projects as well as on a tentative timeline for scenario co-design between the two projects.